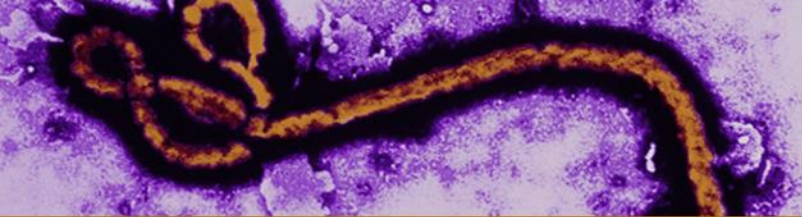




Published
November 13, 2014

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EBOLA
PREPAREDNESS**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

This presentation has been **developed for:**

- **9-1-1 Public Safety Answering Points** (PSAPs)
- **EMS** agencies and systems
- **Law Enforcement** agencies
- **Fire Service** agencies
- **Emergency Managers**
- **First Responders** (For the purposes of this presentation, “First Responders” means pre-hospital EMS, Law Enforcement, and Fire Service.)



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The source of this information is the **CDC**, unless otherwise identified.

Guidance may change.

Please check the CDC website frequently for updates:

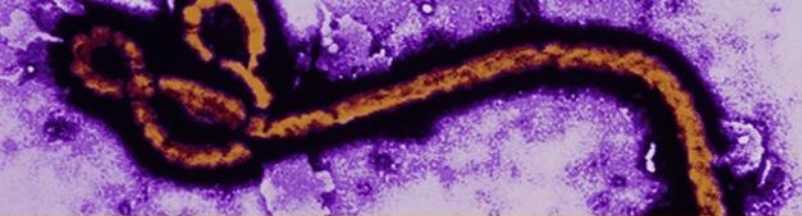
www.cdc.gov/vhf/ebola/index.html

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First Responder Ebola Briefing + Personal Protective Equipment (PPE)



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SECTION 1 – Overview of the Ebola Virus Disease (EVD)

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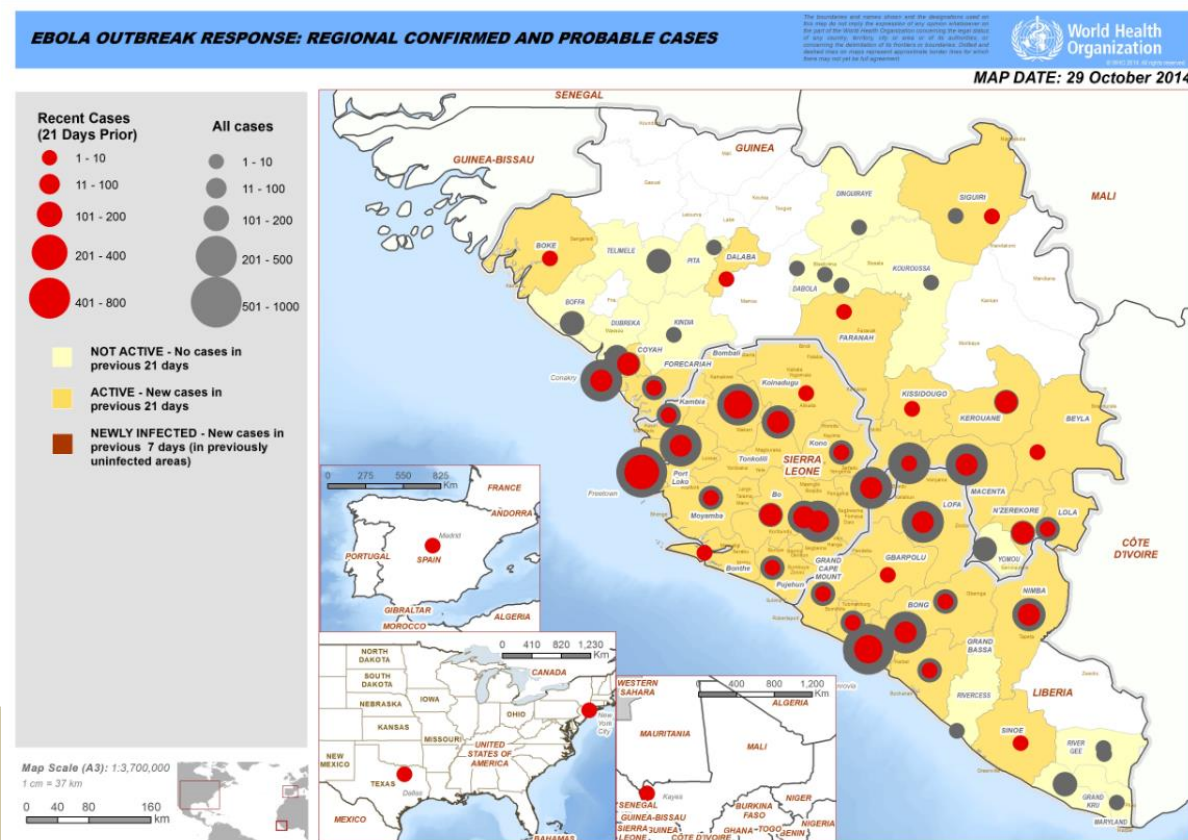
Ebola Virus Disease (EVD)

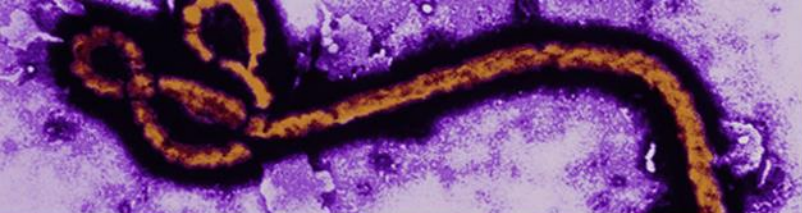
Ebola is a virus that has worldwide consequences.

MAP SHOWING RECENT + ALL CASES WORLDWIDE

SOURCE: CDC

who.int/csr/disease/ebola/maps/en/

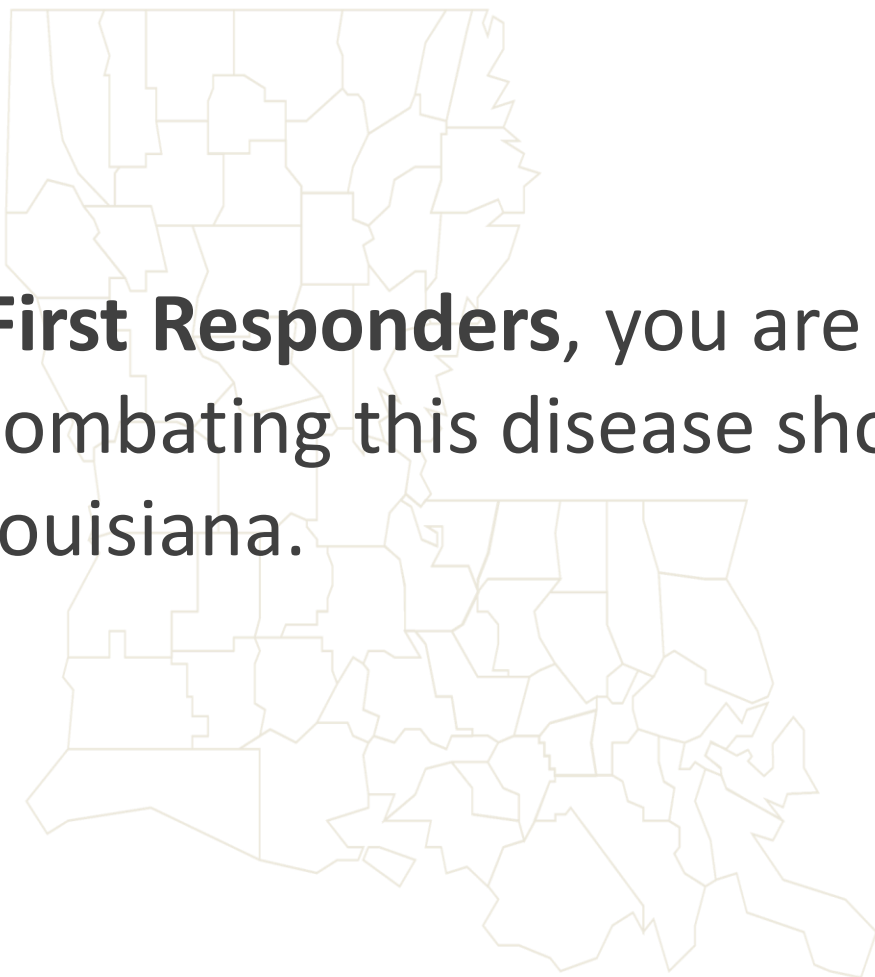




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EVD

As **First Responders**, you are on the **FRONT LINE** of combating this disease should we have cases in Louisiana.



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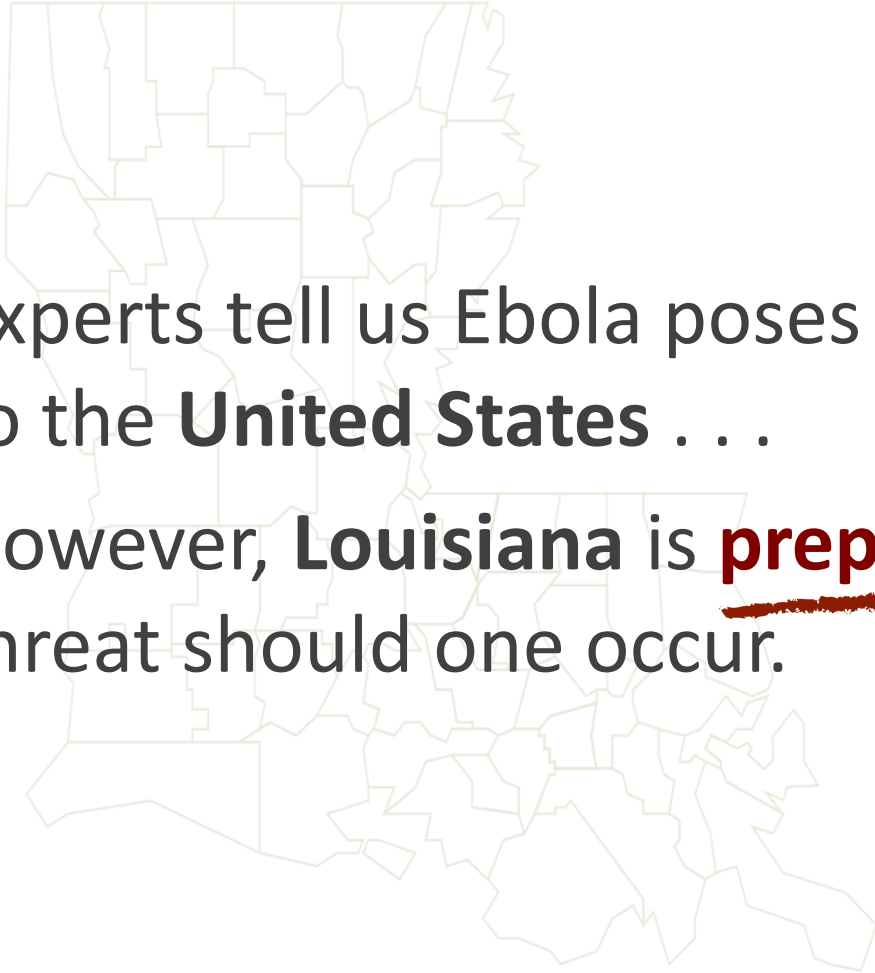
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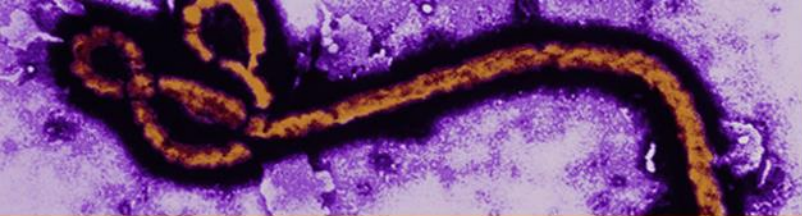




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EVD

- 
- Experts tell us Ebola poses **no significant risk** to the **United States** . . .
 - However, **Louisiana** is **prepared** for a possible threat should one occur.



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Purpose



The purpose of this presentation is to provide **you** as a **Louisiana First Responder** with . . .



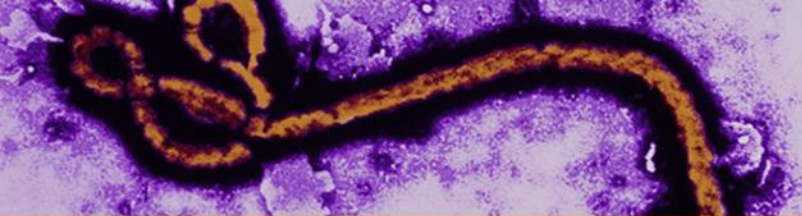
EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Purpose

An **overview** of the
Ebola virus:



- **Facts**
- **Symptoms**
- **Care**



EBOLA:
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Purpose



Share with you . . .

- What you need to **know** to **protect yourself** in the field.
- **When, what and how to use Personal Protective Equipment (PPE).**

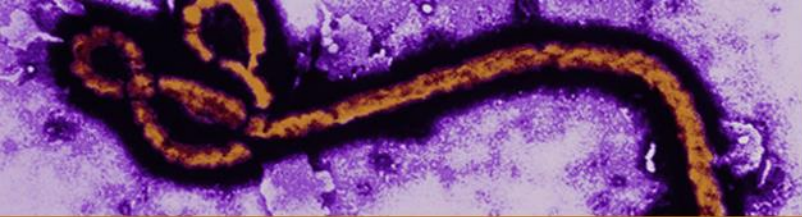
EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

Ebola (previously known as Ebola hemorrhagic fever) is a severe, often **fatal disease** in **humans** and nonhuman **primates** (such as monkeys, gorillas and chimpanzees).



SOURCE: CDC www.cdc.gov/vhf/ebola/about.html and www.cdc.gov/ncidod/dvrd/spb/mnpages/dispages/Fact_Sheets/Ebola_Fact_Booklet.pdf



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

Ebola . . .

- Was first discovered in **1976** in the Democratic Republic of the Congo.
- Since then, **outbreaks** have appeared **sporadically** in Africa.

SOURCE: CDC

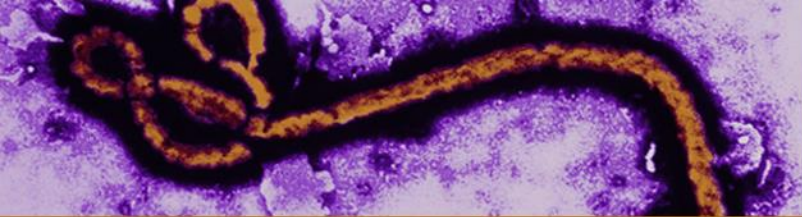
www.cdc.gov/vhf/ebola/outbreaks/history/chronology.htm
| and www.cdc.gov/vhf/ebola/about.html

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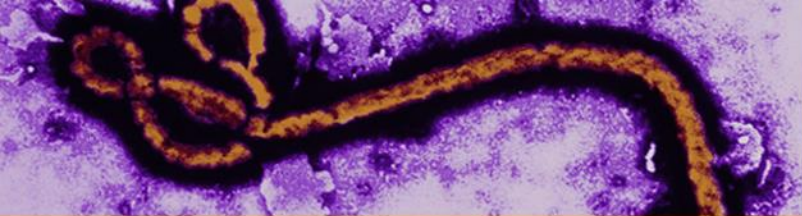




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PREPARE + PREVENT + PROTECT + RESPOND

Key facts

The natural **reservoir host** of the Ebola virus has **not yet been identified.**

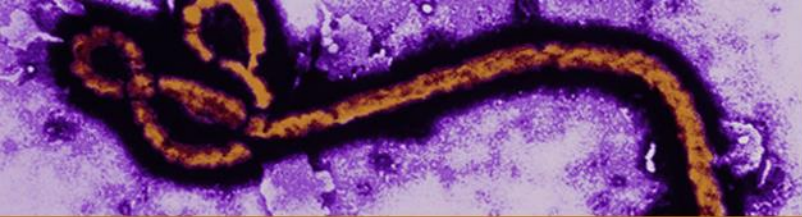


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

Scientists believe the **first patient** became infected through contact with an infected **animal** such as a **fruit bat** or **nonhuman primate**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

The **2014 Ebola epidemic** is the **largest** in **history**, affecting multiple countries in West Africa and now with cases presenting in the **United States**.

SOURCE: CDC

www.cdc.gov/vhf/ebola/outbreaks/2014-west-africa/index.html

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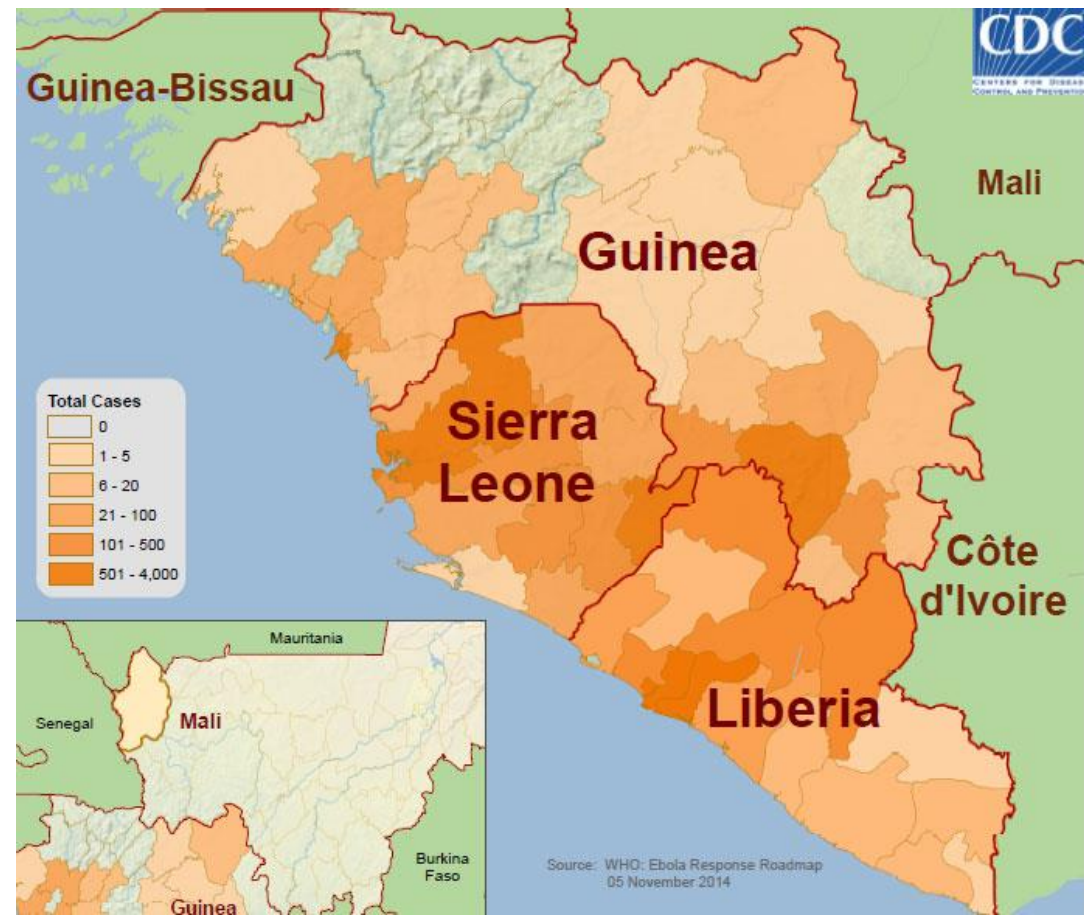
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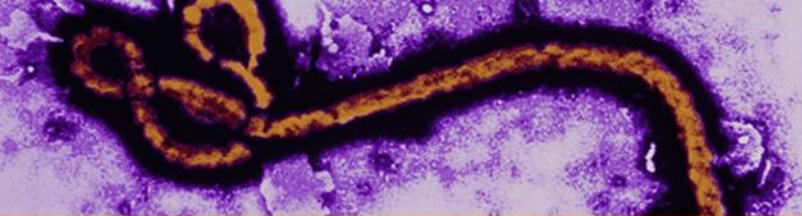
Key facts

Currently **three** (3) African countries – **Guinea, Liberia and Sierra Leone** have severe outbreaks of Ebola.



SOURCE: CDC

www.cdc.gov/vhf/ebola/outbreaks/2014-west-africa/index.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

- Other countries – **Nigeria, Senegal** and **Mali** – have reported cases.
- The good news is the World Health Organization (WHO) has officially declared the **end of the outbreak in Senegal and Nigeria** as of **October 2014**.

SOURCE: CDC

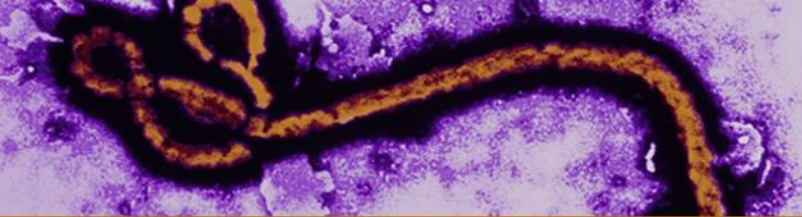
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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

As of **November 13, 2014** there have been:

- **14,098** cases of Ebola
- **5,160** deaths

SOURCE: CDC

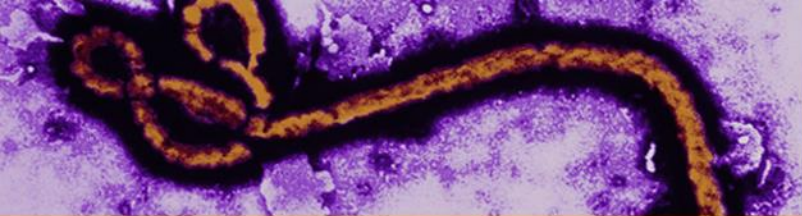
www.cdc.gov/vhf/ebola/outbreaks/2014-west-africa/case-counts.html

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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Key facts

As of **November 13, 2014**, only **four (4)** cases have been reported in the **U.S.**; **one (1)** resulting in death.

SOURCE: CDC

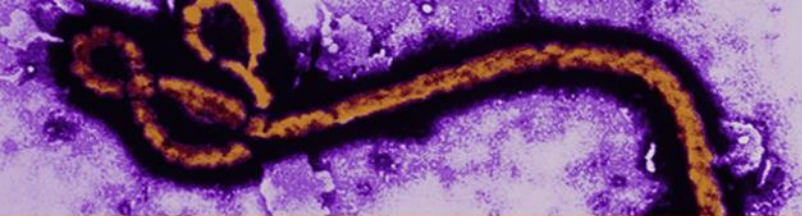
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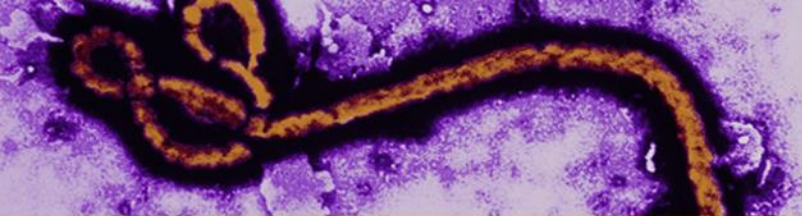




EBOLA:
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Transmission

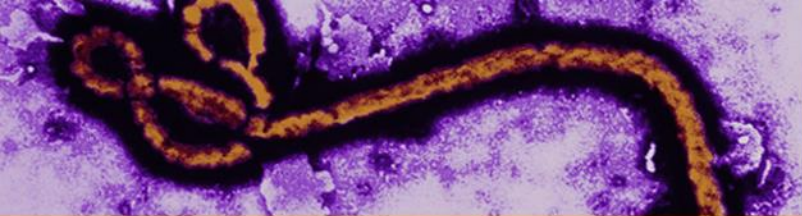
You can only get Ebola from **unprotected**
direct contact (e.g., broken skin or mucous membrane of the eyes,
nose or mouth) **with . . .**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Transmission

- **Blood, body fluids** or **skin** of a **person** or **animal** who is sick with or has died from Ebola, **OR . . .**
- Through **direct contact** with **contaminated objects** and/or **surfaces**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Transmission

The risk of **direct skin contact** is **lower** than the risk from exposure to **blood** or **body fluids**.

SOURCE: CDC

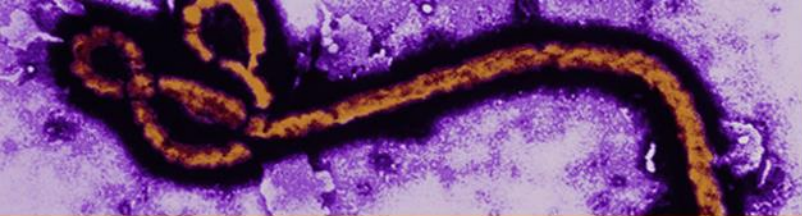
www.cdc.gov/vhf/ebola/transmission/human-transmission.html

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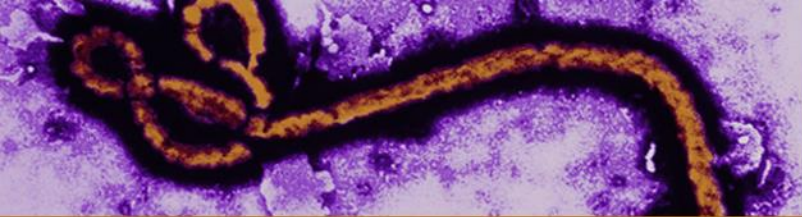


EBOLA:
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Transmission

Avoid direct contact with body fluids.

- **“Body fluids”** include (but are not limited to):
 - Blood
 - Urine
 - Saliva
 - Feces
 - Vomit
 - Sweat
 - Semen
 - Breast milk

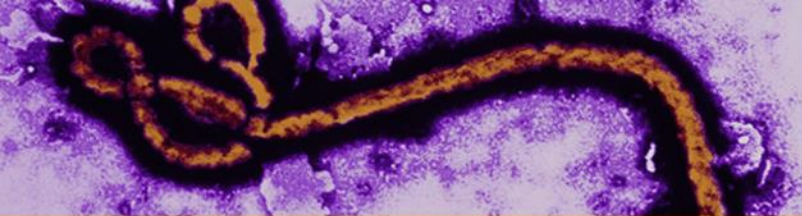


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Transmission

- The **current strain** of the Ebola virus has **not** been shown to be transmitted in the **air**.

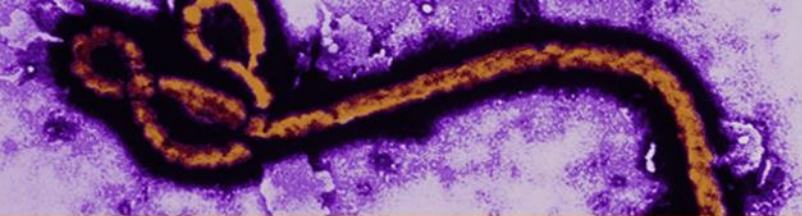




EBOLA:
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Transmission

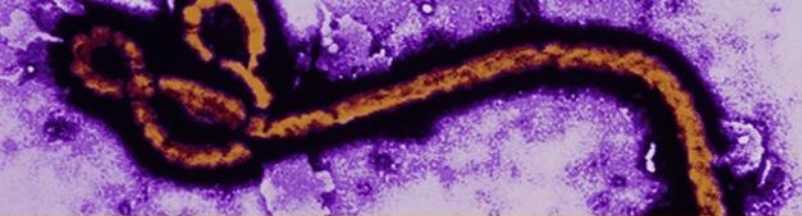
- In addition to direct unprotected contact, in West Africa Ebola may spread as a result of handling **wild animals** hunted for **food** and **infected bats**.
 - **Only** wild animals in West Africa have been shown to carry Ebola – **none in the U.S.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Transmission

- Once a patient has **recovered** from Ebola, he/she can **no longer spread** the virus.
- However, Ebola virus has been found in **semen** for up **to three (3) months**.
 - Abstinence from sex (including oral sex) – or the use of condoms if abstinence is not possible – is recommended for **up to three (3) months**.



EBOLA:
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Incubation

The **incubation period** for Ebola, from **exposure** to when signs or **symptoms appear**, ranges from **2 to 21 days** (most commonly **8 to 10 days**).

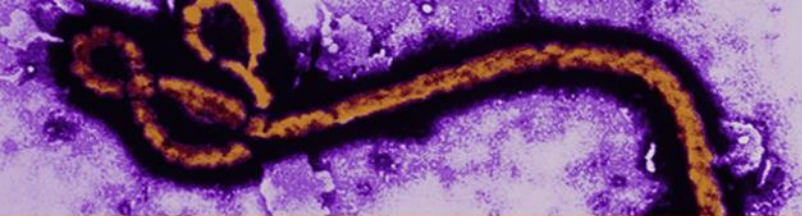
SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/interim-guidance-emergency-medical-services-systems-911-public-safety-answering-points-management-patients-known-suspected-united-states.html

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Incubation

- Any Ebola patient **WITH** signs or symptoms (symptomatic) should be considered **infectious**.
- **Ebola patients without symptoms** (asymptomatic) **ARE NOT** contagious.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/interim-guidance-emergency-medical-services-systems-911-public-safety-answering-points-management-patients-known-suspected-united-states.html

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EBOLA:
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Initial signs + symptoms

Initial symptoms occur after about **five (5) days**.

- Sudden **fever**
- **Chills**
- Muscle **aches**
- **Diarrhea**
- **Nausea**
- **Vomiting**
- Abdominal **pain**

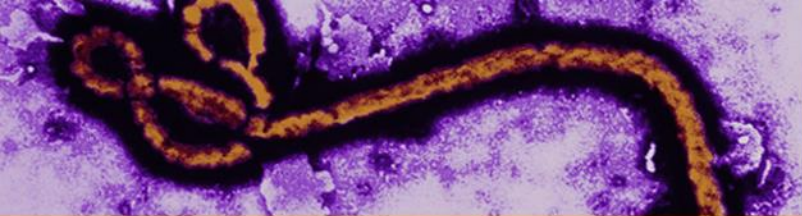
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Initial signs + symptoms

Other symptoms may develop such as:

- Chest pain
- Shortness of breath
- Headache
- Confusion
- Fatigue

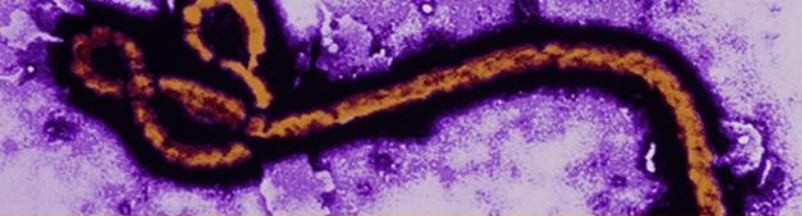
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EBOLA:
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Initial signs + symptoms

Symptoms may become **increasingly severe** and may include:

- **Jaundice** (yellow skin)
- Severe **weight loss**
- **Bleeding** inside and outside the body
- **Shock**
- **Multi-organ failure**

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/interim-guidance-emergency-medical-services-systems-911-public-safety-answering-points-management-patients-known-suspected-united-states.html

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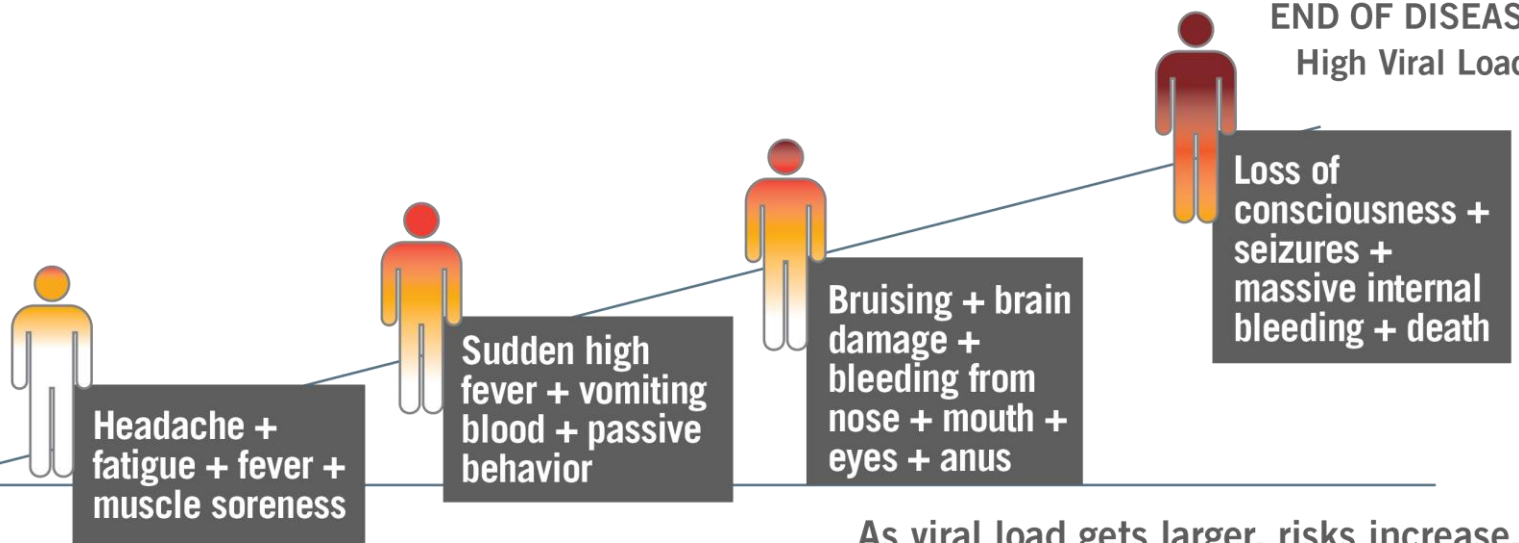
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EVD progression

RISK

END OF DISEASE:
High Viral Load

EARLY STAGES:
Low Viral Load



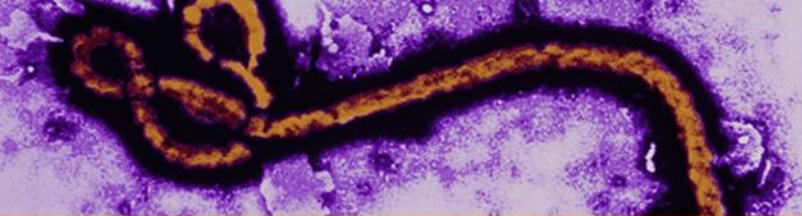
SOURCE: U.S. Centers for Disease and Control, BBC

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Prevention

If a person is **known** or **SUSPECTED** to have Ebola:

- Wear appropriate **PPE**.
- **Isolate** the patient.
- **Restrict contact** with others.

SOURCE: CDC

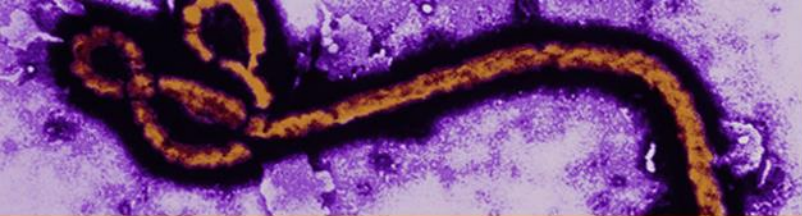
www.cdc.gov/vhf/ebola/hcp/patient-management-us-hospitals.html

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Prevention

- **Avoid** aerosol-generating procedures.
 - If unavoidable, use **proper respiratory protection** (PAPR or N95).
- Be **diligent** in environmental **cleaning** and **disinfection** and **safe handling** of potentially contaminated materials.

SOURCE: CDC

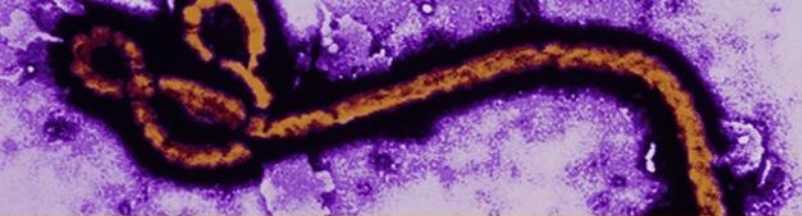
www.cdc.gov/vhf/ebola/hcp/patient-management-us-hospitals.html

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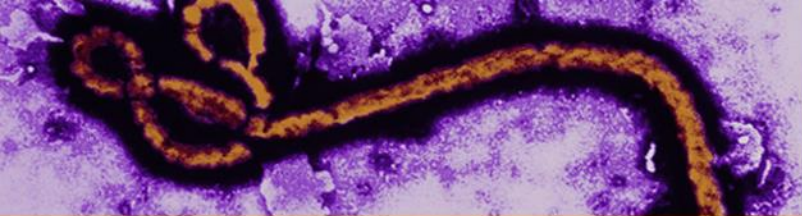




EBOLA:
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Prevention

Avoid **direct unprotected contact** with a person known or **SUSPECTED** to have Ebola **AND** any **object** or **surfaces** with which he/she may have had **direct contact**.



EBOLA:
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Prevention

There are **two** ⁽²⁾ ways to **protect** yourself and others from **Ebola exposure**:

- **Maintain distance.** Stay at least **three** ⁽³⁾ **feet** away from a person known or SUSPECTED to have Ebola **AND** the **area** of his/her care.
- Put on **PPE**.

SOURCE: CDC

<http://www.cdc.gov/vhf/ebola/exposure/risk-factors-when-evaluating-person-for-exposure.html>

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SUIT UP.

OR

STAND
BACK.

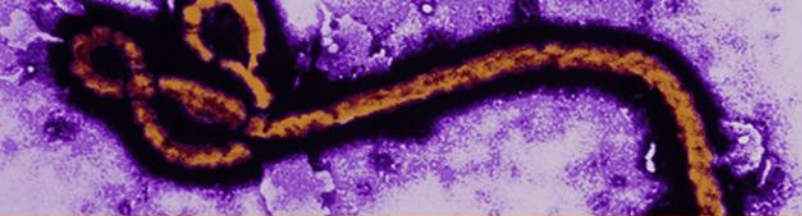


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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SECTION 2 – Personal Protective Equipment (PPE)



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

40

**Safe environment
requires knowledge and
training.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

41

Key questions

- What is **proper PPE** for **First Responders**?
- **What PPE** do you need to stay safe?
- **When** do you need it?
- How do you **correctly put it on** and **take it off**?
- And **what do** you do with it when once you've removed it?



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

42

This presentation will
answer those questions
and more...





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

43

Language of PPE

First let's set the **language** for discussing PPE . . .

- Putting on PPE: **DONNING**
- Taking off PPE: **DOFFING**



SUIT UP.
OR **STAND
BACK.**

44

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This is where it begins . . .





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

45

When the **risk** of Ebola is **elevated** in the community, **9-1-1 PSAPs** and other Call-Takers ask **screening questions** to determine if the caller has a **SUSPECTED** case of Ebola.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

- 1. Do you have **fever**?
- 2. Are you a **resident** of – or have you **traveled** within the last **21 days** to – a country where an **Ebola outbreak** is occurring?
- 3. Have you been exposed to someone who is **known** or **SUSPECTED** to have Ebola?

CALL-TAKER (9-1-1 + others)
EBOLA SCREENING QUESTIONS

SYMPTOMS
If the caller has flu-like symptoms, please ask the following questions:

1. Do you have fever?

If **NO** → Normal Response, Dispatch Appropriate Responder
If **YES** → CONTINUE TO 2

POSSIBLE EXPOSURE (VECTORS)

2. Are you a resident of – or have you traveled within the last **21 days** to – a country where an EBOLA outbreak is occurring?
www.cdc.gov/vhf/ebola/outbreaks/2014-west-africa/distribution-map.html

If **NO** → CONTINUE TO 3
If **YES** → SKIP AHEAD TO 4

3. Have you been exposed to someone who is suspected or known to have EBOLA?

If **NO** → Normal Response, Dispatch Appropriate Responder
If **YES** → CONTINUE TO 4

ONLY IF 2 AND 3 are 'NO':

4. If the caller answered "YES" to 1 AND "YES" to 2 AND/OR 3... Advise ALL dispatched responders:

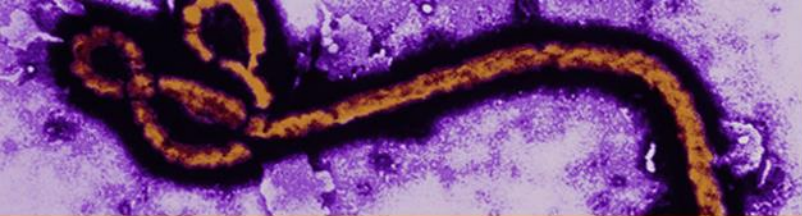
- You are responding to a SUSPECTED Infectious Patient incident.
- Limit exposure.
- Full-body PPE required to enter the scene.

CDC-recommended PPE:

1. TWO PAIRS OF SINGLE-USE DISPOSABLE NITRILE EXAM GLOVES
2. COVERALLS WITH OR WITHOUT INTEGRATED HOODS AND APRON AND BOOT OR SHOE COVERS AND/OR COVERABLES
3. GOGGLES OR FACE SHIELD
4. RESPIRATOR AND SINGLE-USE DISPOSABLE HOOD AND SINGLE-USE FACE SHIELD

SUIT UP. OR STAND BACK.

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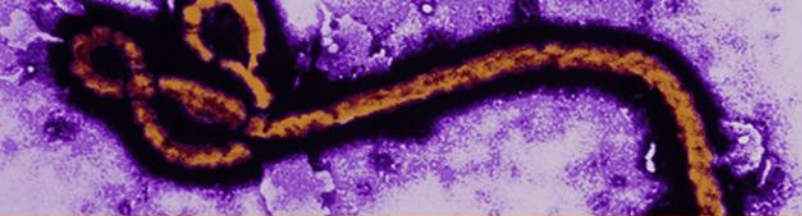
EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

☑ If a caller answers **YES** to question **1** . . .

☑ **AND YES** to **2 AND/OR 3** . . .

- Caller **MAY** be **SUSPECTED** of having Ebola.
- Those calls are then identified as a **“SUSPECTED Infectious Patient incident.”**

☑ **4.** If the caller answered **“YES”** to **1** AND “YES” to **2 AND/OR 3** . . . Advise **ALL** dispatched responders:



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All dispatched responders will be told:

- “You are responding to a **SUSPECTED Infectious Patient incident.**”
- “First Responders should **limit exposure** at the scene.”
- “**Full-body PPE REQUIRED** to enter the scene.”

You are responding to a **SUSPECTED Infectious Patient incident.**
 Limit exposure.
 Full-body PPE required to enter the scene.

SUIT UP.
OR STAND BACK.

EBOLA SCREENING QUESTIONS

SYMPTOMS
If the caller has flu-like symptoms, please ask the following questions:

1. Do you have fever?
If NO → Normal Response: Dispatch Appropriate Responder
If YES → CONTINUE TO 2.

POSSIBLE EXPOSURE (VECTORS)

2. Are you a resident of – or have you traveled within the last 21 days to – a country where an EBOLA outbreak is occurring?
www.cdc.gov/hiv/ebola/outbreaks/2014-west-africa/distribution-map.html
If NO → CONTINUE TO 3.
If YES → SKIP AHEAD TO 4.

3. Have you been exposed to someone who is suspected or known to have EBOLA?
OR
ONLY IF 2 AND 3 are "NO":
If NO → Normal Response: Dispatch Appropriate Responder
If YES → CONTINUE TO 4.

4. If the caller answered "YES" to 1 AND "YES" to 2 AND/OR 3 ... Advise ALL dispatched responders:

You are responding to a **SUSPECTED Infectious Patient incident.**
 Limit exposure.
 Full-body PPE required to enter the scene.

CDC-recommended PPE:

1. TWO PAIRS OF SINGLE-USE DISPOSABLE NITRILE EXAM GLOVES (If a responder, outer gloves should have extended cuffs)
 2. COVERALLS (with OR WITHOUT INTEGRATED SOCKS AND APRON AND BOOT OR SHOE COVERS) (SOCKS COVERING ACCEPTABLE LEGS IF COVERALLS HAVE INTEGRATED SOCKS) (Use should be single-use (disposable), fluid-resistant or impervious)
 3. PAPR (WITH FULL FACE SHIELD, HELMET OR HEARSEAP) OR SINGLE-USE DISPOSABLE HOOD (IF HAIR IS REQUIRED)
 N95 RESPIRATOR AND SINGLE-USE DISPOSABLE HOOD AND SINGLE-USE FACE SHIELD (If eye cover not used when donning)

SUIT UP. OR STAND BACK.

Control for this publication is based on the Agency Guidelines for Emergency Medical Services (EMS) Services and 9-1-1 Public Safety Answering Points (PSAPs) for Management of Patients with Signs or Symptoms of Ebola Virus Disease in the United States - October 24, 2014 and the Guidelines for Personal Protective Equipment to Be Used by Healthcare Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals, including Procedures for Putting On (Donning) and Removing (Doffing) - October 28, 2014

Revision Date: October 29, 2014

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SUIT UP.
OR **STAND
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Once dispatched, local **Law Enforcement (LE)** and **Fire Service** and/or **EMS** will respond and head to the scene.





SUIT UP.
OR **STAND
BACK.**

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First Responders to arrive set a perimeter to secure the scene and ensure **ONLY** those in appropriate PPE enter the secured area.





EBOLA:
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SUIT UP.
OR STAND
BACK.

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*“In the **Fire Service** it’s everyone’s **first instinct** to run in. During Ebola emergencies I think it’s very important for all of us to remember: **Suit up. Or Stand back.**”*

– Curt Monte
Public Information Officer
Baton Rouge Fire Department



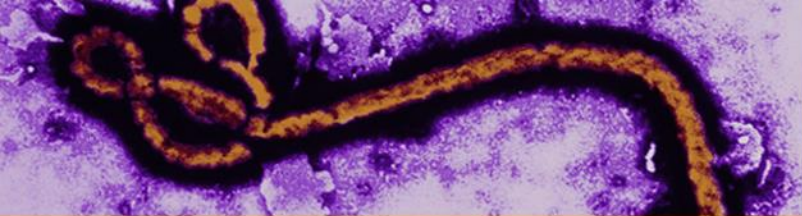


SUIT UP.
OR **STAND
BACK.**

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Who sets the standard for PPE?





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SUIT UP.
OR STAND BACK.



29 CFR 1910.1030(d)(3)

(3) *Personal protective equipment—(i) Provision.* When there is occupational exposure, the employer shall provide, at no cost to the employee, appropriate personal protective equipment such as, but not limited to, gloves, gowns, lab-

Occupational Safety and Health Admin., Labor

§ 1910.1030

APPENDIX B TO 1910.1030—INDUSTRIAL HYGIENE AND MEDICAL SURVEILLANCE GUIDELINES

1. INDUSTRIAL HYGIENE GUIDELINES

A. Sampling (Hexamethylenetetramine-Formaldehyde Fraction Total Particulate Matter).
Samples collected should be full shift (at least 8-hour) samples. Sampling should be done using a personal sampling pump with a flow rate of 2 liters per minute. Samples should be collected on 4.0 microneter pore size silver membrane filters (27 mm diameter) preceded by Gelman glass fiber type H-H filters enclosed in three-piece plastic (polystyrene) field monitor cassette. The cassette face cap should be on and the plug removed. The respirator should be checked every hour to ensure that proper flow rates are maintained.

A minimum of three full-shift samples should be collected for each job classification on each battery, at least one from each

D. MEDICAL SURVEILLANCE GUIDELINES

A. General. The minimum requirements for the medical examination for coke oven workers are given in paragraph (i) of the standard. The initial examination to be provided to all coke oven workers who work at least 50 days in the regulated area. The examination includes a 14" x 17" postero-anterior chest x-ray, spirometry, pulmonary function tests (FVC and FEV1), weight, urinalysis, skin examination, and a uric acid/cytologic examination. These tests are needed to serve as the baseline for comparing the employee's future test results. Periodic exams include all the elements of the initial exam, except that the uric acid/cytologic test is to be performed only on those employees who are 45 years or older or who have worked for 5 or more years in the regulated area.

periodic exams, with the exception of x-rays, referred spontaneously for this purpose.

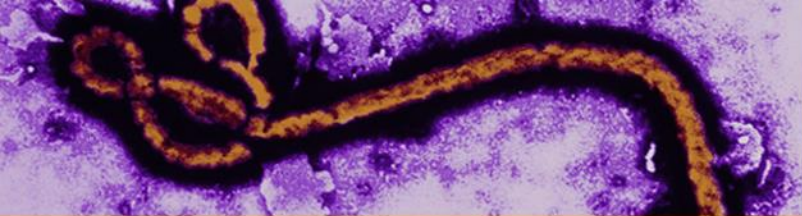
of accuracy for this group, attention to be given at least semi-annually. Consider an initial examination consists of minimum elements; additional tests such as spirometry or additional pulmonary tests may be performed if necessary.

Function tests. Function tests should be performed in a manner which minimizes subject bias. There has been concern in the past with regard to the results of certain tests, such as FEV1, which can be obtained by multiple attempts by the subject. The best of three averages of the last three of five used in obtaining reliable results of equipment used (manometer, etc.) should be recorded with a reliability and accuracy varies. Variation may be important in the use of test results. Care should be taken to obtain the best possible testing.

June 27, 1974; 43 FR 40784, Oct. amended at 43 FR 8361, Jan. 18, 1978; May 21, 1980; 49 FR 27653, 3, 1984; 49 FR 38293, June 7, 1984; Feb. 15, 1986; 51 FR 200; Jan. 8, 1986; June 18, 1988; 70 FR 1142, 11 FR 3072; 1997; Apr. 1, 2005; 71, 34, 2006; 71 FR 7548, Dec. 12,

Hoodborne pathogens. and Application. This section (i) occupational exposure to other potentially infectious is defined by paragraph (b) (1).





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SUIT UP.
OR
**STAND
BACK.**

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PPE is “appropriate” **ONLY** if it . . .



. . . does **NOT** permit blood or other potentially infectious materials to pass through to or reach your work clothes, street clothes, undergarments, skin, eyes, mouth or mucous membranes under normal conditions of use and for the duration of time you will be suited up.

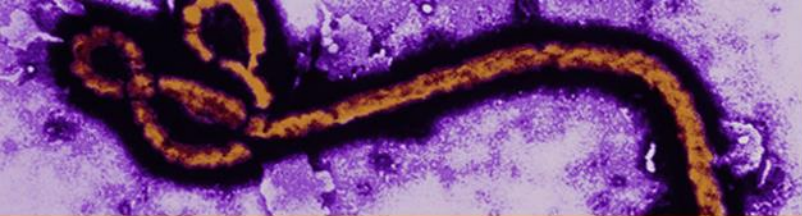
SOURCE: 29 CFR 1910.1030(d)(3)

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In addition to requirements set by OSHA, the **Centers for Disease Control and Prevention (CDC)** provides **guidance** on the **proper PPE** recommend for **EMS, Law Enforcement** and **Fire Service** agencies, hospitals and other healthcare providers and professionals.

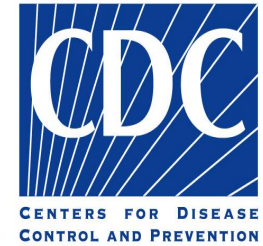




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The most recent guidance can be found at the **CDC website**
www.cdc.gov/vhf/ebola/hcp/interim-guidance-emergency-medical-services-systems-911-public-safety-answering-points-management-patients-known-suspected-united-states.html

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OR **STAND
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Buddy system

- Properly donning and doffing PPE requires a **partnership** – or **buddy system**.
- It's a **minimum two** (2) person process.

Trained Observer

First Responder



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OR
**STAND
BACK.**

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EACH First Responder going into the patient care area **MUST** have:

- On proper PPE.
- A **Trained Observer** when donning and doffing PPE.



SUIT UP.
OR **STAND
BACK.**

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Principles of PPE





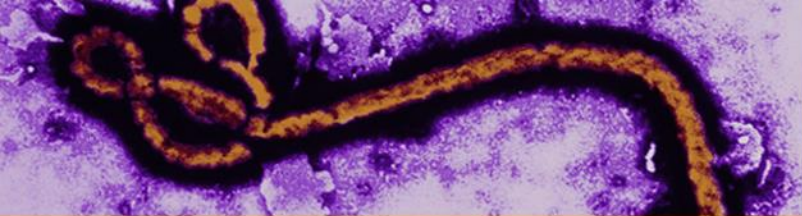
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OR
**STAND
BACK.**

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Principles of PPE:

- **Donning**
 - **Patient Care**
 - **Doffing**
- **Training**
 - **Practice**



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SUIT UP.
OR
**STAND
BACK.**

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Principles of PPE

Donning

- PPE **must** be donned **correctly** and in the **proper order** *before* entering a **patient care area**.
- It should **not** be **modified** while in the patient care area or **adjusted** during patient care.
- Donning PPE must be **observed** by a **Trained Observer**.



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OR **STAND
BACK.**

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Principles of PPE

Donning

- If you **add** or **modify** PPE guidelines, consider risks/benefits.



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SUIT UP.
OR
**STAND
BACK.**

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Principles of PPE

During patient care

- PPE must be worn **correctly** for the duration of exposure.
- First Responders should perform **frequent alcohol-based hand rub (ABHR)** on gloved hands.



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SUIT UP.
OR
**STAND
BACK.**

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Principles of PPE

During patient care

- If a **breach** of PPE occurs, **immediately move** to the **doffing area to assess**, and . . .
 - Implement your **departmental/agency exposure plan**, if appropriate.



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SUIT UP.
OR **STAND
BACK.**

65

Principles of PPE

Doffing

Doffing is when you are **most at risk**.

- Remove PPE **slowly** and **deliberately**.



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SUIT UP.
OR **STAND
BACK.**

66

Principles of PPE

Doffing

Doffing requires:

- A structured **step-by-step** and specifically sequenced removal process.
- Trained Observer.
- Designated area for removal.



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SUIT UP.
OR **STAND
BACK.**

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Principles of PPE

Donning/Doffing

Doing it **right** requires **training** and **practice**.





SUIT UP.
OR **STAND
BACK.**

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Role of the Trained Observer





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SUIT UP.
OR
**STAND
BACK.**

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Trained Observer should be:

- **Knowledgeable:**
 - About all **PPE** recommended in **department** or **agency protocols**.
 - **Correct donning** and **doffing** procedures, including **disposal**.
 - Department or agency *Exposure Management Plan* in the event of an **unintentional break in procedure**.





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SUIT UP.
OR
**STAND
BACK.**

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Trained Observer should be:

- **Qualified** to provide:
 - Guidance.
 - **Technique** recommendations.



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OR **STAND
BACK.**

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Sole responsibility of the Trained Observer is to ensure adherence to procedure.





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SUIT UP.
OR
**STAND
BACK.**

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Trained Observer

The Trained Observer **should:**

- **Monitor** donning and doffing processes.
- Ensure **adherence** to **protocols** for **donning, doffing** and **securing** used PPE.
- Provide **assistance** if needed.





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SUIT UP.
OR **STAND
BACK.**

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Trained Observer

The Trained Observer should **NOT**:

- Enter the room of a patient known or **SUSPECTED** to have Ebola; OR
- Participate in Ebola patient-care activities.



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When do you need PPE . . .

Appropriate PPE is **REQUIRED**:

- If you are within **three (3)** feet of a person **known** or **SUSPECTED** to have Ebola.
- And/or **objects** or **surfaces** with which he/she may have had **direct contact**.
- And/or in the **patient care area**.





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SUIT UP.
OR **STAND
BACK.**

75

When do you need PPE . . .

Continue wearing PPE until you are **NO longer** in **direct contact** with the **patient OR objects OR** in areas that may be **contaminated**.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/interim-guidance-emergency-medical-services-systems-911-public-safety-answering-points-management-patients-known-suspected-united-states.html

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SUIT UP.
OR **STAND
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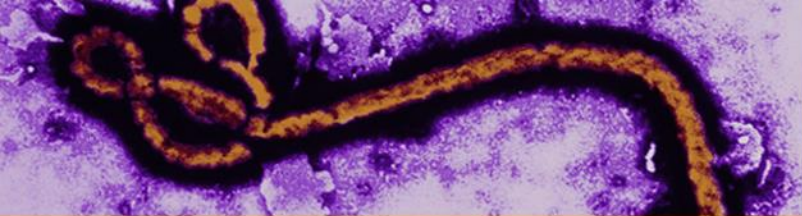
CDC-recommended PPE for First Responders . . .

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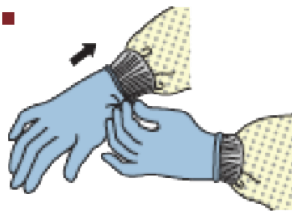




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First Responder PPE

1.



TWO PAIRS OF SINGLE-USE (DISPOSABLE) NITRILE EXAM GLOVES
(At a minimum, outer gloves should have extended cuffs.)

2.



COVERALLS (WITH OR WITHOUT INTEGRATED SOCKS) AND APRON AND BOOT or SHOE COVERS
(SHOE COVERS ACCEPTABLE ONLY IF COVERALLS HAVE INTEGRATED SOCKS)
(All should be single-use [disposable] fluid-resistant or impermeable.)

3.



PAPR (WITH FULL FACE SHIELD, HELMET OR HEADPIECE) AND SINGLE-USE (DISPOSABLE) HOOD (IF PAPR IS REUSABLE)
OR
N95 RESPIRATOR AND SINGLE-USE (DISPOSABLE) HOOD AND SINGLE-USE FACE SHIELD
(Fully cover front and sides of face.)

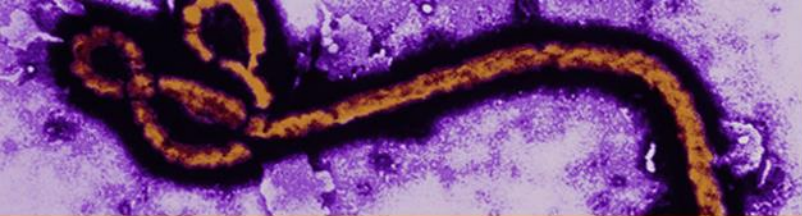


SUIT UP.
OR **STAND
BACK.**

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Let's look closer . . .





EBOLA:
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SUIT UP.
OR STAND
BACK.

You have a choice . . .

**NIOSH-certified
Powered Air Purifying
Respirators (PAPR)**

**NIOSH-certified Fit-tested,
disposable **N95** respirator**



OR

OR



With external belt-mounted blower unit.

With a self-contained filter and blower unit integrated inside the helmet.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

80

- While the **current strain of Ebola** is not an airborne pathogen – in other words you **canNOT** get it from the air – a mask or respirator is **recommended** as part of your PPE . . .
- To prevent you from getting **any droplets** from a **sneeze** or **cough** or any thing that could splash in your **mouth** or **nose**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

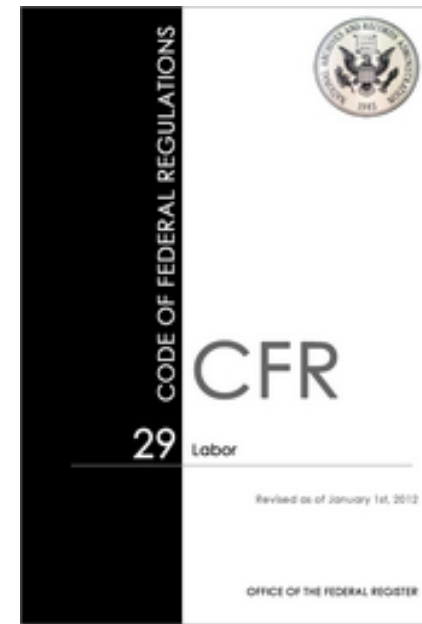
SUIT UP.
OR STAND
BACK.

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PAPR and N95 respirators

Both must be:

- **NIOSH-certified.**
- **Fluid-resistant or impermeable.**



SOURCE: OSHA [osha.gov/pls/oshaweb/owadisp.show_document?p_id=12716&p_table=standards](https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_id=12716&p_table=standards) and CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html

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OR **STAND
BACK.**

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PAPR and N95 respirators

Both MUST comply with with all elements of the *OSHA Respiratory Protection Standard* found in **29 CFR 1910.134** including:

- **Fit testing**
- **Medical evaluation**
- **Training**





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SUIT UP.
OR STAND
BACK.

PAPR

- **PAPR MUST** have a **full face shield, helmet** or **headpiece**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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PAPR

If PAPR has a **reusable** helmet or headpiece, it **must** be covered with a **single-use** (disposable) **hood**.

- Hood should extend to the **shoulders** and **fully cover** the **neck**.
- Hood must be **compatible** with the selected PAPR.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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PAPR

PAPR with a **self-contained filter and blower unit** integrated **inside** the helmet is **preferred.**





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SUIT UP.
OR
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BACK.**

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PAPR

PAPR with an **external belt-mounted blower unit** requires **adjustment** of the **donning** and **doffing** sequence.





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SUIT UP.
OR STAND
BACK.

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N95 respirator

- **MUST** be combined with a single-use (disposable) hood extending to the shoulders;
- **AND** a single use (disposable) full face shield .
- •
- That fully covers front and sides of face.





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SUIT UP.
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**STAND
BACK.**

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CAUTION – N95 respirator users –

- Do **not** inadvertently touch your face under the face shield.
 - Avoid touching the **front surface** of the face shield.
- A full face shield may **not** provide full-face protection if there is **significant** splashing.





SUIT UP.
OR **STAND
BACK.**

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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Coveralls



Coveralls should be . . .

- **Without** an integrated hood.
- **With** or **without** integrated socks.
- **Single-use** (disposable) **fluid-resistant** or **impermeable**.



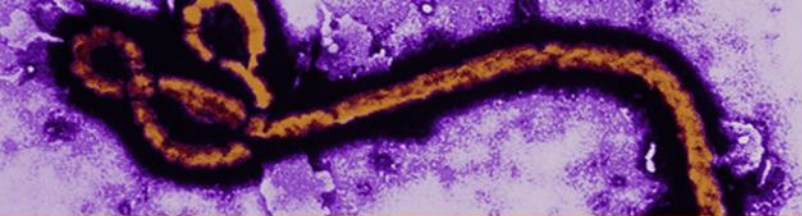
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BACK.**

90

Impermeable

- **Impermeable** simply means to **block** any type of **liquid** or **fluid** from reaching your **under clothing** or **skin**.



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SUIT UP.
OR
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BACK.**

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Coveralls



- Coveralls with **thumb hooks** help to secure sleeves over inner glove to prevent skin exposure.
- **Taping** can be used but may make doffing **more difficult**, increasing the risk of exposure.





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SUIT UP.
OR **STAND
BACK.**

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Taping

If tape is used, be sure to use the **buddy tab** method . . .

- Folding end of tape into a **tab** to **facilitate** later removal.





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SUIT UP.
OR **STAND
BACK.**

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Gloves

- **Two (2) pairs** of gloves should be worn.
- Gloves should **fit comfortably** and **properly**, not too small or too large.





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SUIT UP.
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BACK.**

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Gloves

Gloves should be single-use (disposable) **nitrile examination gloves** with **extended cuffs**.

- At a minimum, **outer gloves** should have **extended cuffs**.





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SUIT UP.
OR STAND
BACK.

95

Gloves

Using **different colored gloves** when double gloving makes it **easier to see** contamination, cuts or tears . . .

- And is a **visual reminder** of where you are in the donning and doffing process.



SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRRespirator_Coveralls/donning_01.html

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OR
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BACK.**

96

Gloves

Even though the donning process calls for **DOUBLE** gloving, you will **need several pairs** of gloves . . .



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OR **STAND
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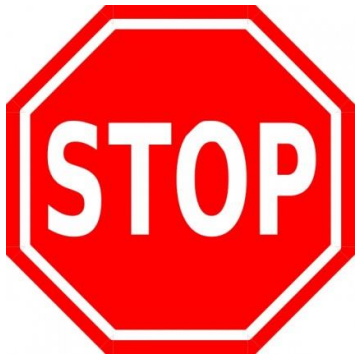
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Gloves

If gloves are **damaged** during your work:

- **STOP work.**
- **Check for exposure.**
 - Move to doffing area if appropriate.
- **Change gloves immediately.**





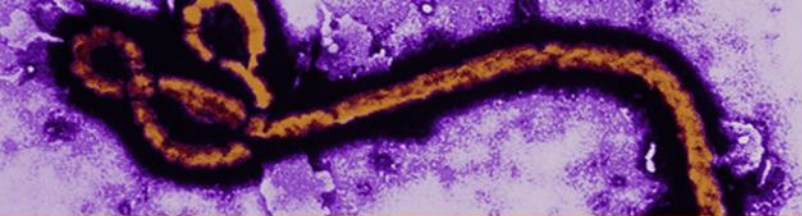
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BACK.**

98

Gloves

And, glove **changes** occur within the **doffing** process.



EBOLA:
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SUIT UP.
OR
**STAND
BACK.**

99

You have a choice . . .



Boot covers

OR



Shoe covers

- Single-use (disposable) fluid-resistant or impermeable.
- Must extend to mid-calf.

- Single-use (disposable) fluid-resistant or impermeable.
- Acceptable **ONLY** if used in **combination** with a coverall that has **integrated socks**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 100

Apron

The **last piece of recommended** First Responder PPE is an **apron**.

- It provides **additional protection** if a **known** or **SUSPECTED** Ebola patient has **vomiting** or **diarrhea**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

101

Apron

The apron should be:

- **Single-use** (disposable) **fluid-resistant** or **impermeable**.
- Cover your **torso** to the level of **mid-calf**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

102

Apron

If wearing **PAPR**, consider selecting an apron that **ties behind the neck** to facilitate **removal** during the **doffing process**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

CDC-recommended PPE for Trained Observers . . .



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

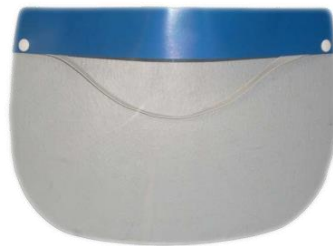
Trained Observer PPE

Each piece should be single-use (disposable).



COVERALLS

(Without integrated hood;
fluid-resistant or impermeable)



FULL FACE SHIELD

(Fully cover front and
sides of face)



DOUBLE GLOVES

(Nitrile examination gloves
with extended cuffs)



SHOE COVERS

(Fluid-resistant or
impermeable)



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

105

YOU have responsibilities

While OHSA and the CDC provide regulatory and implementation guidance – YOU, too, have responsibilities . . .



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

106

YOU have responsibilities

- Know the proper PPE required.
- Don and doff **carefully, thoughtfully** and **correctly**.
- Demonstrate competency.
- Ensure that you **always** have a **Trained Observer** when **donning** and **doffing**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

107

PAPR with an external belt-mounted blower unit full suit





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

N95 respirator full suit





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Getting ready to don, doff and secure used PPE



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

110

Let's talk about
what's **last**, **first** . . .



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

111

DECON

- DECON is an **important part** of the **doffing** process.
- When you doff PPE in the **field** you need **supplies** to **DECON** as you go.
- Be sure you have what you need **BEFORE** **donning** PPE.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

112

What you need to don, doff and secure used PPE . . .

- ☑ A sprayer with household bleach solution that is one (1) part household bleach and nine (9) parts water (commonly referred to as a **10% household bleach solution**).
- ☑ **Two (2) buckets:**
 - One (1) with clear water.
 - One (1) with **10% household bleach solution**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

113

What you need . . .

- ☑ A small plastic disposable kiddie pool or tub.
- ☑ **Two (2)** disposable chairs or stools, OR chairs or stools that can be **DECONEd** after use.
- ☑ A box of **single-use** (disposable) **nitrile examination gloves with extended cuffs**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

114

What you need . . .

- ☑ A box of **EPA-registered disinfectant wipes or alcohol-based hand rub (ABHR)**.
- ☑ Plastic disposable **tarp**.
- ☑ **Scene tape**.
- ☑ **Duct tape**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

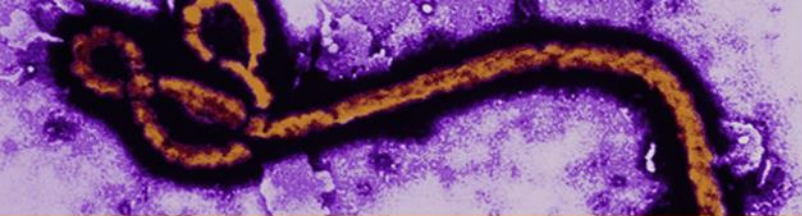
SUIT UP.
OR
**STAND
BACK.**

115

What you need . . .

- ☑ **Large** (33 gallon or larger) **leak-proof plastic bags.**
- ☑ **Knife.**
- ☑ An appropriate **container** for used (contaminated) **sharps.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.
OR
STAND BACK.

What you need . . .



Donning and Doffing Checklists.



Most importantly you need your **Trained Observer!**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

117

Establish work zones

- **Cordon off an area** in which to work.
 - Ensure space allows a **clear separation** between **clean** and **potentially contaminated areas**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

118

Establish work zones

- You may want this area to be **behind** the **building** or **behind** your **vehicle** to block access of **bystanders** or **media**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

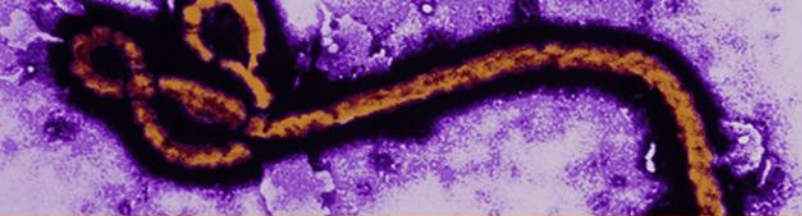
SUIT UP.
OR
**STAND
BACK.**

119

Establish work zones

Purpose of work zones is to . . .

- **Minimize** the **transfer** of hazardous substances from the site.
- Establish **security** and **physical barriers** to exclude unnecessary personnel.
- Optimize **number of personnel** for effective operations.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

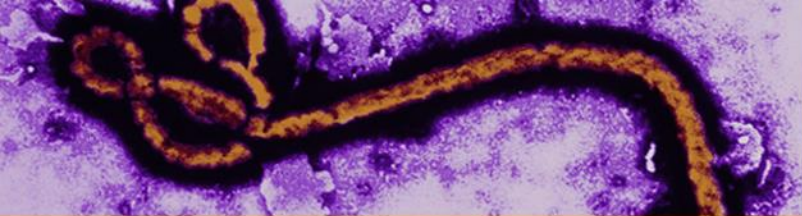
SUIT UP.
OR **STAND
BACK.**

120

Establish work zones

Purpose of work zones is to . . .

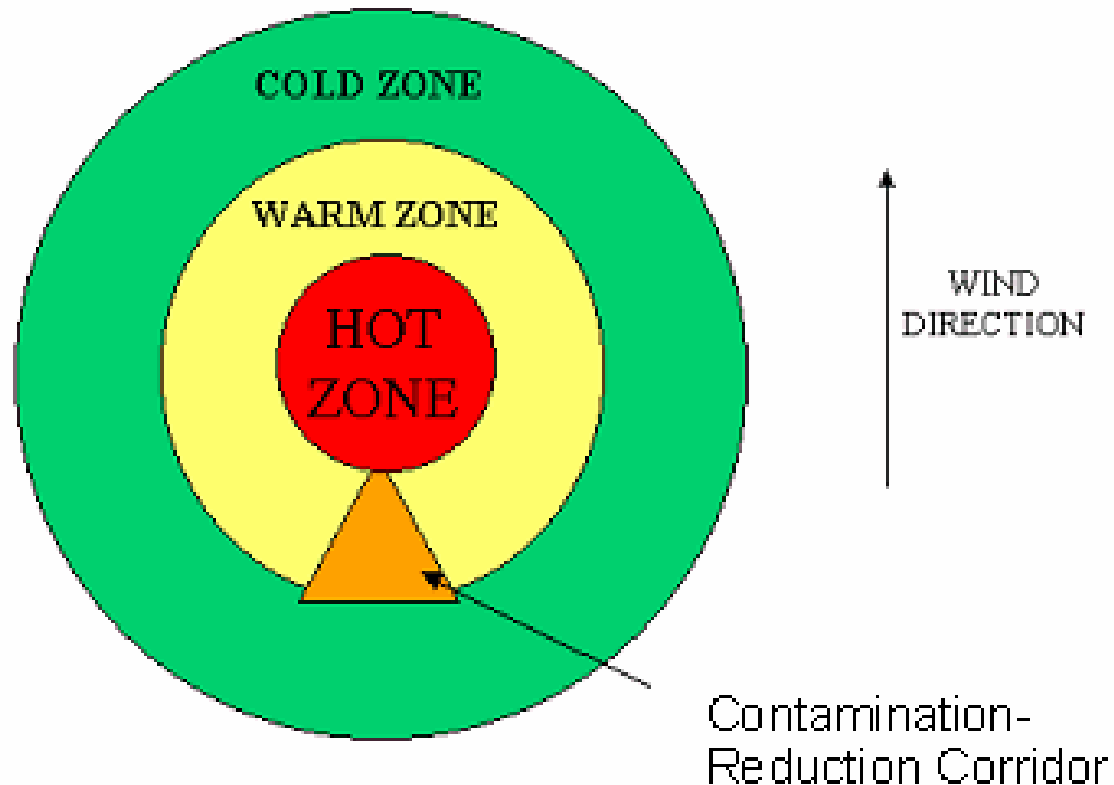
- Create control points to **regulate access**.
- Operate with intent to **reduce exposures** and **eliminate** airborne dispersion.
- Perform **decontamination** (DECON).



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Establish work zones

- **Hot Zone**
 - Contaminated area.
- **Warm Zone**
 - Contamination reduction zone (doffing) or **DECON** area.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

122

Establish work zones

- **Cold Zone**
 - **Clean area** for support equipment, traffic limited, normal work PPE, **no contaminated PPE** worn or stored in this area.
- **Safe Zone**
 - Facilitates a nuisance-**free area.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

123

Establish work zones

- NOTE: Doffing should be located as **close** to the **Hot Zone** as safely feasible.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

124

Doffing: Warm Zone

In this reserved area, spread out a **plastic disposable tarp** and a **small plastic disposable kiddie pool or tub**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

125

Doffing: Warm Zone

- Place a **large** (33 gallon or larger) **leak-proof plastic bag** in the **small plastic disposable kiddie pool** or **tub**.
- These will be used during **doffing** and to **secure used PPE**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

NOTE

Throughout this presentation, **EPA-registered disinfectant wipes** are referenced.

- These are wipes impregnated with an **EPA-registered hospital disinfectant** with a **label claim** of potency at least equivalent to that for a **non-enveloped virus** (e.g., norovirus, rotavirus, adenovirus, poliovirus).





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

127

SECTION 3 – Donning using PAPR or N95



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

128

Outcomes

Whether using PAPR or N95 respirator, when responding to a **known** or **SUSPECTED** case of Ebola there should be . . .

- **NO** exposed skin or hair.
- **Full-body coverage** so that you are maximally protected from exposure, including “splash.”



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

129

“**Splash**” occurs when a person known or **SUSPECTED** of having Ebola **sneezes** or **coughs** or **vomits** or **exposes you in any other way** to his or her **blood** or other body fluids.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

130

- Donning with **PAPR** is a **12-Step** process.
- Donning with **N95** is a **14-Step** process.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.

131

DONNING PPE: **PAPR**

12-Step process



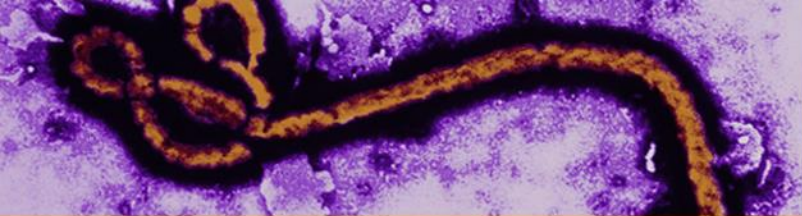


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

132

The donning process is
conducted under the
guidance and supervision
of a Trained Observer.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND
BACK.



Engage Trained Observer

Step 1

Using a **written checklist** and verbal commands, your Trained Observer . . .

- Visually confirms and **documents** each step of the donning process.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in a safe zone.

SCOPE: This document should be used by Trained Observers and First Responders in conjunction with:
- The instruction: *First Responder Donning a PAPR* (www.cdc.gov/nczod/od/diseases/ebola/first-responder-donning-a-papr)
- CDC Warning Signs for donning and doffing PPE (www.cdc.gov/nczod/od/diseases/ebola/first-responder-donning-a-papr)
- CDC Manual Guidelines for Emergency Medical Services (EMS) Operations (www.cdc.gov/nczod/od/diseases/ebola/first-responder-donning-a-papr)
- Management of Patients with Ebola or Suspected Ebola Virus Disease in the United States (October 26, 2014) (www.cdc.gov/nczod/od/diseases/ebola/management-of-patients-with-ebola-virus-disease-in-the-united-states)
- CDC Guidance for Personal Protective Equipment (PPE) Used by Healthcare Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals (www.cdc.gov/nczod/od/diseases/ebola/ppe-used-by-healthcare-workers-during-management-of-patients-with-ebola-virus-disease-in-us-hospitals)

IMPORTANT NOTES:
- Donning and doffing procedures are different, depending on the type of PPE involved.
- Trained Observers (TO) and healthcare personnel (HCP) will perform the steps in the order listed in the checklist.
- Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as is safely feasible.
- Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.

CDC-recommended PPE

1. Goggles or face shield
2. Gown
3. Glove
4. Respirator
5. Cap
6. Shoe cover

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

PAPR Donning Page 1 of 1

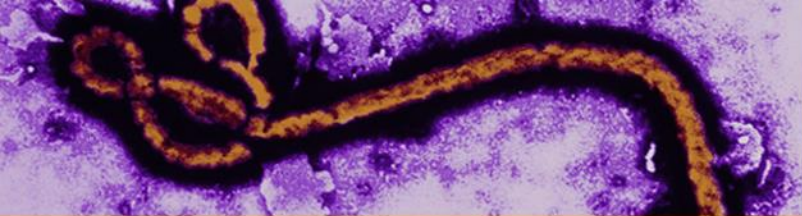
Step 1. Engage Trained Observer

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html

LOUISIANA
EBOLA
PREPAREDNESS



<input type="checkbox"/> Step 6. Put on Boot or Shoe Covers	<input type="checkbox"/> Boot covers should extend to mid-calf.	<input type="checkbox"/> Shoe covers are acceptable ONLY if used with a coat with integrated seals.
<input type="checkbox"/> Step 7. Put on Goggles	<input type="checkbox"/> Ensure coverage.	<input type="checkbox"/> If tape is needed to secure lenses over outer gloves, use buddy tape to facilitate later removal.
<input type="checkbox"/> Step 8. Put on Outer Gloves	<input type="checkbox"/> Put on second pair of gloves over non-sterile gloves. Ensure cuffs are pulled over clean outer gloves, extending to the wrist.	<input type="checkbox"/> If tape is needed to secure lenses over outer gloves, use buddy tape to facilitate later removal.
<input type="checkbox"/> Step 9. Put on Respirator	<input type="checkbox"/> Put on PAPR. If device has a full face shield, behind or behind/under.	<input type="checkbox"/> If there is a seal-checkable filter or sensor and integrated inside the helmet or hood, seal and battery unit MUST be put on prior to donning coveralls so that centrifugal units are under the coveralls.
<input type="checkbox"/> Step 10. Put on Outer Apron or Trousers	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.	<input type="checkbox"/> If there is a seal-checkable filter or sensor and integrated inside the helmet or hood, seal and battery unit MUST be put on prior to donning coveralls so that centrifugal units are under the coveralls.
<input type="checkbox"/> Step 11. Verify	<input type="checkbox"/> Trained Observer verifies.	<input type="checkbox"/> Trained Observer verifies.
<input type="checkbox"/> Step 12. Ditch Out or Gown	<input type="checkbox"/> Gown covers are acceptable and do not extend over, over or through a single or double sealant strip of movement with at least 2 inches of body width covered.	<input type="checkbox"/> Trained Observer verifies.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

134

Engage Trained Observer

Step 1



- Assists with **ensuring** and **verifying** the **integrity** of your PPE ensemble.
- Ensures **NO exposed skin** or **hair**.



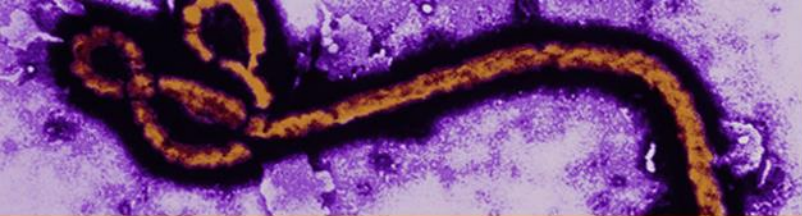
SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html

LOUISIANA
EBOLA
PREPAREDNESS



DEPARTMENT OF
HEALTH
AND HOSPITALS





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Step 2

Remove personal clothing and items

- In a clean area, change into surgical scrubs **OR** disposable garments **AND** dedicated washable (plastic or rubber) footwear (with closed-toe and heels, and no holes).
- Remove watches, jewelry, cell phones, pens, pagers, etc.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in some cases PPE.

NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning a PAPR* (available at www.cdc.gov/ebsites/ebola)
 • CDC training courses for donning and doffing PPE (available at www.cdc.gov/ebsites/ebola)
 • CDC Manual Guidelines for Emergency Medical Services (EMS) Operations, 2nd Edition, 2011 (available at www.cdc.gov/ebsites/ebola)
 • Management of Patients with Ebola or Suspicious Ebola Virus Disease in the United States - October 20, 2014 (available at www.cdc.gov/ebsites/ebola)
 • CDC Manual Guidelines for Emergency Medical Services (EMS) Operations, 2nd Edition, 2011 (available at www.cdc.gov/ebsites/ebola)
 • Management of Patients with Ebola or Suspicious Ebola Virus Disease in the United States - October 20, 2014 (available at www.cdc.gov/ebsites/ebola)
 • Management of Patients with Ebola or Suspicious Ebola Virus Disease in the United States - October 20, 2014 (available at www.cdc.gov/ebsites/ebola)
 • Management of Patients with Ebola or Suspicious Ebola Virus Disease in the United States - October 20, 2014 (available at www.cdc.gov/ebsites/ebola)

REPORT DONNING NOTES:
 - Donning and doffing procedures are different, depending on the type of PPE selected.
 - A trained observer is only to be used to observe untrained employees with the following exception: proper PPE donning and doffing.

Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the hot zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal confirmation, the donning process is conducted under the guidance and supervision of a Trained Observer.	
<input type="checkbox"/> Step 2. Remove Personal Clothing and Items	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or cover footwear with closed toe and heels, and no holes.	
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (avoid soap). Allow hands to dry before next step.	
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Put on inner gloves. Cuffs should extend as far up the arms as possible.	
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Box covers should extend to mid-calf.	
<input type="checkbox"/> Step 6. Put on Boot or Shoe Covers	<input type="checkbox"/> Ensure covers are acceptable ONLY if used with a coverall with integrated seals.	
<input type="checkbox"/> Step 7. Put on Coverall	<input type="checkbox"/> If tape is needed to secure closures over inner gloves, use buddy taping to facilitate later removal.	

Step 2. Remove Personal Clothing and Items

Step 11. Dismantle Outer Covers | Dismantle outer-glove hands with ABRH. Allow to dry prior to patient contact.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

136

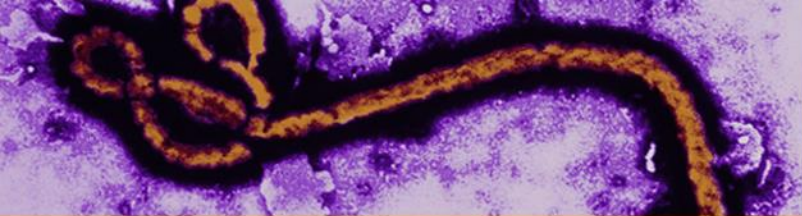
Remove personal clothing and items

Step 2



You should know that garments worn under PPE **may not be reusable.**

- Wear something that is **disposable.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
137



Inspect

Step 3

- Inspect PPE *before* donning to ensure it is in serviceable condition and **not** torn or damaged.
- Confirm all recommend PPE and needed supplies are available.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in a safe zone.

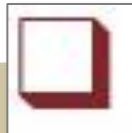
NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning & Doffing PPE* (www.cdc.gov/ebola/hcp/procedures-for-ppe.html)
 • CDC Release Criteria for donning and doffing PPE (www.cdc.gov/ebola/hcp/procedures-for-ppe.html)
 • CDC Release Criteria for Emergency Medical Services (EMS) Operations (www.cdc.gov/ebola/hcp/procedures-for-ppe.html)
 • Management of Patients with Known or Suspected Ebola Virus Disease in the United States - October 26, 2014 (www.cdc.gov/ebola/hcp/procedures-for-ppe.html)
 • Management of Patients with Suspected Ebola Virus Disease in the United States - October 26, 2014 (www.cdc.gov/ebola/hcp/procedures-for-ppe.html)
 • The Chain of Infection: Breaking the Cycle (www.cdc.gov/ebola/hcp/procedures-for-ppe.html)

IMPORTANT NOTES:
 • Donning and doffing procedures are different, depending on the type of PPE selected.
 • Trained Observers should be present for all donning and doffing procedures.
 • Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the hot zone as safety feasible.

Step	Task	Checklist
Step 1.	Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal confirmation, the donning process is conducted under the guidance and supervision of a Trained Observer. <input type="checkbox"/> Trained Observer confirms visually and documents that all PPE is serviceable and has been checked successfully, ensuring and verifying the integrity of the equipment.
Step 2.	Remove Personal Clothing and Shoes	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or cover footwear with closed toe and heels, and no holes. <input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens). <input type="checkbox"/> Visually inspect: - all exposed PPE and equipment on arrival. - Trained Observer verifies the donning sequence before beginning the donning process, ending about a step-by-step fashion.
Step 3.	Inspect PPE Prior to Donning	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (AHHR). Allow hands to dry before next step.
Step 4.	Perform Hand Hygiene	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
Step 5.	Put on Inner Gloves	<input type="checkbox"/> Boot covers should extend to mid-calf. <input type="checkbox"/> Shoe covers are acceptable ONLY if used with a coverall with integrated socks. <input type="checkbox"/> Ensure coverall: - fits snugly to avoid creation of openings. - Cuffs of inner gowns are tucked under the hem of the coverall. - If tape is needed to secure sleeves over outer gloves, use buddy taping to facilitate later removal. - If worn with a self-contained filter or filter canister integrated into the hood or cap, hood and battery unit MUST be put on prior to donning coverall so that contamination will not occur on the coverall. - If a cap is worn, ensure self-contained filter canister, battery unit and hood are all secured to the coverall.
Step 7.	Put on Coverall	

OUTCOME OF SUCCESSFUL DONNING PROCESS: No exposed skin or hair.

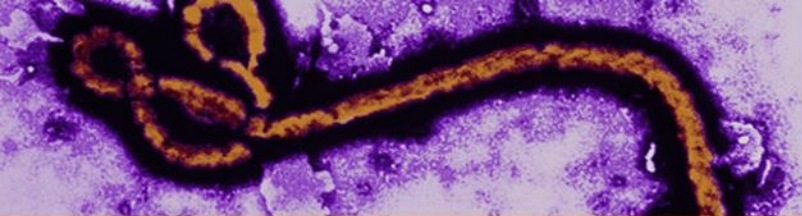
Page 1 of 1



Step 3.

Inspect PPE Prior to Donning

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

138

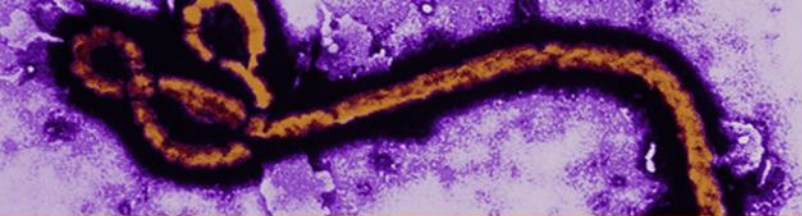


Inspect

Step 3

- Confirm that your PPE is the correct size.
- Your Trained Observer reviews the donning sequence with you **BEFORE** beginning the donning process . . .
 - **Reading aloud** the checklist in a step-by-step fashion.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
139



Perform hand hygiene

Step 4

- Perform hand hygiene using ABHR.
- Allow hands to **dry** before moving to the next step.

Step 4. Perform Hand Hygiene



SUIT UP.
OR STAND BACK.

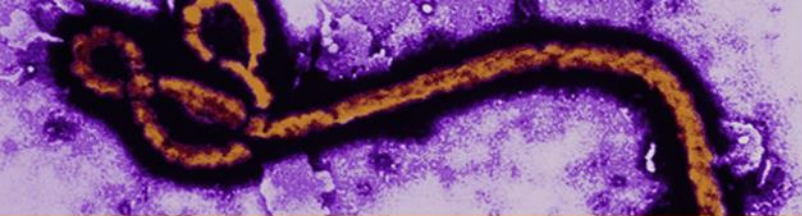
FIRST RESPONDERS
HOW TO DON PPE USING PAPR
POWERED AIR PURIFYING RESPIRATORS

<p><input type="checkbox"/> Step 1. Engage Trained Observer</p> <p><input type="checkbox"/> Step 2. Remove Personal Clothing and Shoes</p> <p><input type="checkbox"/> Step 3. Inspect PPE Prior to Donning</p> <p><input type="checkbox"/> Step 4. Perform Hand Hygiene</p> <p><input type="checkbox"/> Step 5. Put on Inner Gloves</p> <p><input type="checkbox"/> Step 6. Put on Boot or Shoe Covers</p> <p><input type="checkbox"/> Step 7. Put on Coverall</p> <p><input type="checkbox"/> Step 8. Put on Outer Gloves</p> <p><input type="checkbox"/> Step 9. Put on Respirator</p> <p><input type="checkbox"/> Step 10. Put on Outer Apron or Gown</p> <p><input type="checkbox"/> Step 11. Verify</p> <p><input type="checkbox"/> Step 12. Dismantle Outer Gloves</p>	<p><input type="checkbox"/> Using a written checklist and verbal confirmation, the donning process is conducted under the guidance and supervision of a Trained Observer.</p> <p><input type="checkbox"/> Trained Observer confirms identity and documents that all PPE is verifiable and has been donned successfully, ensuring the integrity of the essential.</p> <p>OUTCOME: All required use or full should be visible at the conclusion of the donning process.</p> <p><input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or shoe insoles with closed toe and heels, and no holes.</p> <p><input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).</p> <p><input type="checkbox"/> Visually inspect:</p> <ul style="list-style-type: none"> — All essential PPE is in acceptable condition. — All required PPE are complete as needed. <p><input type="checkbox"/> Trained Observer initiates the donning sequence before beginning the donning process, ending about a 10-second step duration.</p> <p><input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (ABHR). Allow hands to dry before next step.</p> <p><input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.</p> <p><input type="checkbox"/> Boot covers should extend to mid-calf.</p> <p><input type="checkbox"/> Shoe covers are acceptable ONLY if used with a coverall with integrated seals.</p> <p><input type="checkbox"/> Ensure coverall:</p> <ul style="list-style-type: none"> — Cuffs of coverall are tucked under the sleeves of the gown. — If tape is needed to secure sleeves over gloves, use buddy tabs to facilitate later removal. — If there is a self-contained filter or filter canister (integrated inside the hood or back, and a battery unit MUST be put on prior to donning coverall so that battery unit are under the coverall. — If there is a filter canister, ensure it is used, closed, and labeled MUST be outside of the coverall to ensure proper airflow. <p><input type="checkbox"/> Put on second pair of gloves over reusable scrubs. Ensure cuffs are pulled over gown sleeves, extending to the top of the arms.</p> <p><input type="checkbox"/> Donning outer gloves when donning gloves must be done in a clean, well-ventilated area.</p> <p><input type="checkbox"/> Put on respirator. If donning a full-face respirator, behind or behind the neck.</p> <p><input type="checkbox"/> After a fit test with a seal-checker that has been integrated into the device, use a fit test with seal-checker that has been integrated into the device. If a fit test is required, use the fit test device.</p> <p>NOTE: If a fit test is required, use the fit test device.</p> <p><input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.</p> <p><input type="checkbox"/> Trained Observer verifies:</p> <ul style="list-style-type: none"> — PPE is complete and the integrity of the essential. — PPE is worn as intended and the device is used as intended. — PPE is worn as intended and the device is used as intended. <p><input type="checkbox"/> Dismantle outer gloves with ABHR. Allow to dry prior to patient contact.</p>

OUTCOME of SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014 Page 1 of 1

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK. 140



Put on **inner** gloves

Step 5

- Put on your **first** pair of gloves. These are the **inner gloves**.
- Cuffs should **extend** as far up the arms as possible.



Step 5. Put on Inner Gloves

SUIT UP. OR STAND BACK. **FIRST RESPONDERS**

HOW TO DON PPE USING PAPR
POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____

Trained Observer: _____

CDC-recommended PPE

1. Goggles or face shield
2. Gown
3. Glove

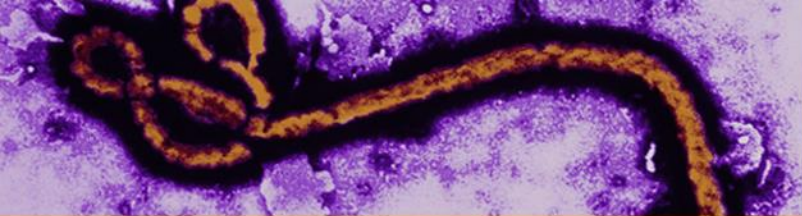
PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in areas used PPE.
NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
- The instruction: *First Responder Donning & PPE Overview* (dated November 13, 2014).
- The training course for training and using PPE: *Emergency Preparedness Training*.
- The Manual: *Guidelines for Emergency Medical Services (EMS) Operations*, 2nd Edition, 2010, published by the National Association of EMS Educators (NAEMSE).
- Management of Patients with Ebola or Suspected Ebola Virus Disease in the United States, October 26, 2014, Centers for Disease Control and Prevention (CDC).
- Management of Patients with Ebola Virus Disease in the United States, October 26, 2014, Centers for Disease Control and Prevention (CDC).
- CDC's Guide to Personal Protective Equipment: Safe Work Practices for Healthcare Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals, including Procedures for Putting On, Doffing and Removing Clothing, October 26, 2014, www.cdc.gov/ebs/ebola/ppe.html.

<input type="checkbox"/> Step 5.1. Inspect PPE Prior to Donning	<input type="checkbox"/> All required PPE and equipment are available.
<input type="checkbox"/> Step 5.2. Perform Hand Hygiene	<input type="checkbox"/> Trained Observer reviews the donning sequence before beginning the donning process, verifying that it is a step-by-step fashion.
<input type="checkbox"/> Step 5.3. Put on Inner Gloves	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (wash). Allow hands to dry before next step.
<input type="checkbox"/> Step 5.4. Put on Boot or Shoe Covers	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
<input type="checkbox"/> Step 5.5. Put on Coverall	<input type="checkbox"/> Boot covers should extend to mid-calf. <input type="checkbox"/> Shoe covers are acceptable ONLY if used with a coverall with integrated seals. <input type="checkbox"/> Ensure coverall. <input type="checkbox"/> If tape is needed to secure closures (over gloves, use buddy tabs to facilitate later removal). <input type="checkbox"/> If pants with a self-contained filter and sleeve and integrated inside the neck to seal, belt and battery unit MUST be put on prior to donning coverall so that centrifugal units are under the coverall. <input type="checkbox"/> If pants with external self-contained filter to use, sleeve and battery MUST be outside of the coverall to ensure proper airflow.
<input type="checkbox"/> Step 5.6. Put on Outer Gloves	<input type="checkbox"/> Put on second pair of gloves with separate cuffs. Closure cuffs are pulled over second sleeves, extending as far up arms as possible. <input type="checkbox"/> Only different color gloves when donning (glove colors should be the same color as the coverall, outer or inner).
<input type="checkbox"/> Step 5.7. Put on Respirator	<input type="checkbox"/> Put on hood, if device has a full face shield, behind or behind/under. <input type="checkbox"/> If using a hood with a self-contained filter and sleeve and integrated inside the neck to seal, belt and battery unit MUST be put on prior to donning coverall so that centrifugal units are under the coverall. <input type="checkbox"/> Hood MUST fully cover all hair, neck and ears and extend past the neck to the shoulders.
<input type="checkbox"/> Step 5.8. Put on Outer Apron or Gown	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.
<input type="checkbox"/> Step 5.9. Verify	<input type="checkbox"/> Trained Observer verifies: <input type="checkbox"/> Donning process is complete and the integrity of the equipment. <input type="checkbox"/> The respirator is comfortable and fully sealed, and, if in the wall, and go through a range of motion to ensure sufficient range of movement with all areas of the body sealed covered.
<input type="checkbox"/> Step 5.10. Dismantle Outer Covers	<input type="checkbox"/> Dismantle outer-glove hands with ABRH. Allow to dry prior to patient contact.

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

PAPR Donning Page 4 of 1

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.



Put on boot or shoe covers

Step 6

- Remember...
 - Shoe covers can be used **ONLY IF** your coveralls have integrated socks.
 - Boot covers should extend to mid-calf.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Trained Observer: _____ Date: _____

PURPOSE: This document has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in areas used PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *Put on Respirator Donning + PPE Overview* (October 13, 2014).
 • *CDC Safety Checklist for Donning and Doffing PPE* (www.cdc.gov/media/releases/2014/s141113ebola.html)

DO NOT: attempt to remove medical equipment (EMG, spirometer, etc.) while still wearing your PAPR. Management of Patients will advise if equipment should be removed in the United States. October 16, 2014. www.cdc.gov/media/releases/2014/s141116ebola.html

DO: follow the instructions for donning and doffing PPE in the order listed in this document. Management of Patients will advise if equipment should be removed in the United States. October 16, 2014. www.cdc.gov/media/releases/2014/s141116ebola.html

THIS CHECKLIST IS A GENERAL GUIDELINE. Specific instructions for donning and doffing PPE will be provided by the site. Management of Patients will advise if equipment should be removed in the United States. October 16, 2014. www.cdc.gov/media/releases/2014/s141116ebola.html

IMPORTANT NOTES:
 • Donning and doffing procedures are different, depending on the type of PPE selected.
 • Trained Observers (TO) will monitor untrained employees with the following sequence of steps: 1) donning and doffing.

Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal communication, the donning process is conducted under the guidance and supervision of a Trained Observer.	
<input type="checkbox"/> Step 2. Remove Personal Clothing and Shoes	<input type="checkbox"/> Trained Observer checks identity and documents that all PPE is wearable and has been donned successfully, entering and verifying the integrity of the equipment.	
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or rubber footwear with closed toe and heels, and no holes.	
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).	
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Visually inspect: - PPE selected to protect if it is wearable condition. - Size selected as noted. - All required PPE and regions on labels. - Trained Observer verifies the donning sequence before beginning the donning process, ending about it is a step-by-step fashion.	
	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (ABHR). Allow hands to dry before next step.	
	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.	

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

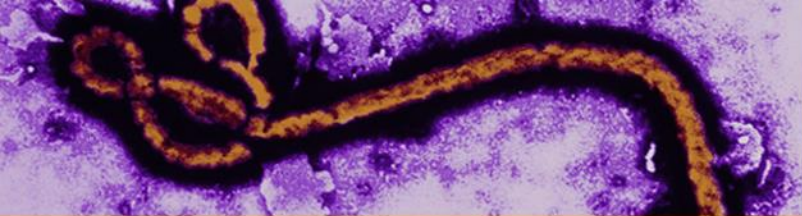
Step 6. Put on Boot or Shoe Covers

<input type="checkbox"/> Step 10. Put on Outer Apron Trousers	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Aprons should extend to mid-calf.	
<input type="checkbox"/> Step 11. Verify	<input type="checkbox"/> Trained Observer verifies: - Donning process is complete and the integrity of the equipment. - The TO will verify that the TO is wearing the correct PPE, and go through a range of motion to ensure sufficient range of movement while at work if the body needs covered.	
<input type="checkbox"/> Step 12. Ditch Outer Gloves	<input type="checkbox"/> Ditch outer gloves with ABHR. Allow to dry prior to patient contact.	

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Step 6. Put on Boot or Shoe Covers

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
BACK.



Step 7

Put on coveralls

- Ensure the coverall is large enough to allow **unrestricted movement**; and . . .
- Ensure cuffs of **inner** gloves are tucked **under** the sleeves of the coverall.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____ Date: _____

CDC-recommended PPE

PURPOSE: This document has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in areas used PPE.

NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning & Doffing PPE* (version published November 13, 2014).
 • CDC *Guidance for Donning and Doffing PPE* (version published July 2014).
 • CDC *Guidance for Airborne Medical Isolation (AMI)* (version 2.1, 2014).
 • *Management of Patients with Ebola or Suspicion of Ebola in the United States*, October 26, 2014.
 • *Guidance for Personal Protective Equipment (PPE) for Health Workers During Management of Patients with Ebola Virus Disease*, October 26, 2014.
 • *Guidance for Personal Protective Equipment (PPE) for Health Workers During Management of Patients with Ebola Virus Disease*, October 26, 2014.

IMPORTANT NOTES:
 • Clothing and donning procedures are different, depending on the type of PPE selected.
 • Trained Observers (TO) will not measure untrained employees with the patients' equipment or perform PPE donning and doffing.

Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the hot zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal communication, the donning process is conducted under the guidance and supervision of a Trained Observer. Trained Observer checks checklist and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the ensemble. OUTCOME: All required PPE is fully donned as directed at the conclusion of the donning process.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Hats	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or rubber footwear with closed toe and heels, and no holes. <input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> Visually inspect: - All required PPE for integrity and condition. - - - - - Items selected as noted. - All required PPE and replace as needed. Trained Observer releases the donning sequence before beginning the donning process, ending about it is a step-by-step fashion.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (ABHR). Allow hands to dry before next step.
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.

OUTCOME OF SUCCESSFUL DRESSING PROCESS: NO exposed skin or hair.

Page 1 of 1

Step 7. Put on Coverall

Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.

Trained Observer verifies:
 - Donning process is completed and the integrity of the ensemble.
 - All required PPE is fully donned as directed at the conclusion of the donning process, ending about it is a step-by-step fashion.

Trained Observer releases the donning sequence before beginning the donning process, ending about it is a step-by-step fashion.

Trained Observer verifies:
 - Donning process is completed and the integrity of the ensemble.
 - All required PPE is fully donned as directed at the conclusion of the donning process, ending about it is a step-by-step fashion.

OUTCOME OF SUCCESSFUL DRESSING PROCESS: NO exposed skin or hair.

Page 1 of 1

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.

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Put on coveralls

Step 7

- If **tape** is needed to secure sleeves **over** inner gloves, use **buddy tabs** to facilitate later removal.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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Put on coveralls

Step

7

- If using PAPR with a **self-contained filter** and **blower unit** that is **integrated** inside the helmet and **separate belt and battery unit . . .**
 - **Belt and battery unit **must**** be put on *prior* to donning the coveralls so that **both** are contained **under** the coverall.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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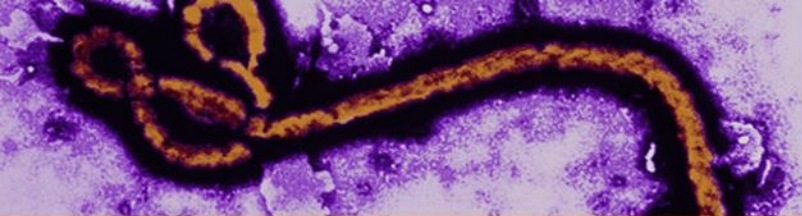


Put on coveralls

Step 7

- If using PAPR with an **external belt-mounted blower . . .**
 - **Blower and tubing must be on the outside** of the coverall to ensure **proper airflow.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Put on **outer** gloves

Step 8

- Put on **outer** gloves with extended cuffs.
- Ensure cuffs are pulled **over** the sleeves of the coverall, extending as far up arms as possible.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
 Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in areas used PPE.

NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning & Doffing PPE for Ebola* (October 13, 2014).
 • CDC *Hand Hygiene for Donning and Doffing PPE* (November 2014) (http://www.cdc.gov/hand-hygiene)
 • Management of Ebola and Other Filovirus Infections in the United States, October 26, 2014.
 • CDC *Hand Hygiene for Donning and Doffing PPE* (November 2014) (http://www.cdc.gov/hand-hygiene)
 • Management of Ebola and Other Filovirus Infections in the United States, October 26, 2014.
 • CDC *Hand Hygiene for Donning and Doffing PPE* (November 2014) (http://www.cdc.gov/hand-hygiene)

REPORTING NOTES:
 - Check and mark each procedure as either, depending on the type of PPE checked.
 - Check and mark each procedure as either, depending on the type of PPE checked.

Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal communication, the donning process is conducted under the guidance and supervision of a Trained Observer.	<input type="checkbox"/> Trained Observer checks checklist and documents that all PPE is verifiable and has been donned successfully, entering and verifying the integrity of the equipment.	OUTCOME: All required PPE is donned as directed at the conclusion of the donning process.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Shoes	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or rubber footwear with closed toe and heels, and no holes.	<input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).	
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> Visually inspect: - all PPE for damage or tears if it is reusable equipment. - all required PPE and replace as needed.	<input type="checkbox"/> Trained Observer notes the donning sequence before beginning the donning process, marking about it a step-by-step fashion.	
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (ABHR). Allow hands to dry before next step.		
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.		

Step 8. Put on Outer Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRRespirator_Coveralls/donning_01.html

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<input type="checkbox"/> Step 10. Put on Outer Apron or Gown	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.
<input type="checkbox"/> Step 11. Verify	<input type="checkbox"/> Trained Observer verifies: - Donning process is complete and the integrity of the equipment. - All required PPE is donned as directed, and all PPE is verifiable and has been donned successfully, entering and verifying the integrity of the equipment.
<input type="checkbox"/> Step 12. Doff/Inspect Outer Gloves	<input type="checkbox"/> Doff/inspect outer-gloved hands with ABHR. Allow to dry prior to patient contact.

OUTCOME OF SUCCESSFUL DONNING PROCESS: No exposed skin or hair.

PATIENT CARE: November 13, 2014



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

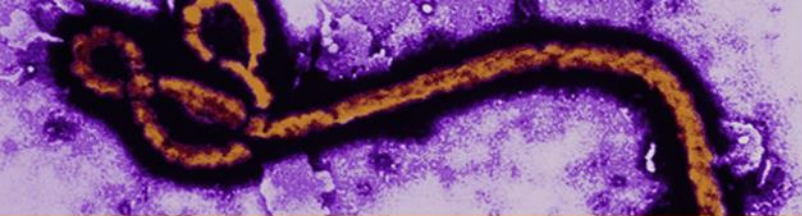
147



Put on **outer** gloves

Step 8

- Remember, using **different colored gloves** when double gloving makes it **easier to see** contamination, cuts or tears.
 - And is a **visual reminder** of where you are in the donning and doffing process.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.



Step 9

Put on respirator (PAPR)

- Put on PAPR.
 - It should have a full face shield, helmet or headpiece.

SUIT UP. OR STAND BACK. **FIRST RESPONDERS HOW TO DON PPE USING PAPR**
POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in a safe area.

SCOPE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning & Doffing PPE* (www.cdc.gov/ebs/ebola/1st-responder-ppe)
 • CDC *Hand Hygiene for Working and Doffing PPE* (www.cdc.gov/ebs/ebola/1st-responder-ppe)
 • CDC *Donning and Doffing PPE* (www.cdc.gov/ebs/ebola/1st-responder-ppe)
 • Management of Patients with Ebola or Suspected Ebola Virus Disease in the United States - October 20, 2014 (www.cdc.gov/ebs/ebola/1st-responder-ppe)
 • Donning and Doffing PPE (www.cdc.gov/ebs/ebola/1st-responder-ppe)

THIS CHECKLIST IS A FEDERAL GOVERNMENT WORK PRODUCT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

REPORTING NOTES:
 - Check and mark each procedure as either, depending on the type of PPE selected.
 - A trained observer will verify and document successful completion of the donning and doffing process.

Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the hot zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal communication, the donning process is conducted under the guidance and supervision of a Trained Observer.	<input type="checkbox"/> Trained Observer confirms visually and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the ensemble.	OUTCOME: All required PPE is donned as directed at the conclusion of the donning process.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Shoes	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or rubber footwear with closed toe and heels, and no holes.	<input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).	
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> Visually inspect: - All PPE for damage (e.g., tears, holes, cracks, fraying, etc.) - All required PPE and regimen on labels.	<input type="checkbox"/> Trained Observer verifies the donning sequence before beginning the donning process, reading aloud in a step-by-step fashion.	<input type="checkbox"/> Don selected as needed.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (ABHR). Allow hands to dry before next step.		
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.		

Step 9. Put on Respirator

<input type="checkbox"/> Step 10. Put on Outer Apron or Gown	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.
<input type="checkbox"/> Step 11. Verify	<input type="checkbox"/> Trained Observer verifies: - That PPE is complete and the integrity of the ensemble. - That respirator connections are secure, sealed, and in the seal, and go through a single or double sealcheck range of movement while at least 4 inches from the patient contact.
<input type="checkbox"/> Step 12. Dismantle Outer Gloves	<input type="checkbox"/> Dismantle outer-gloved hands with ABHR. Allow to dry prior to patient contact.

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014. Page 1 of 1

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html

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PREPAREDNESS





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

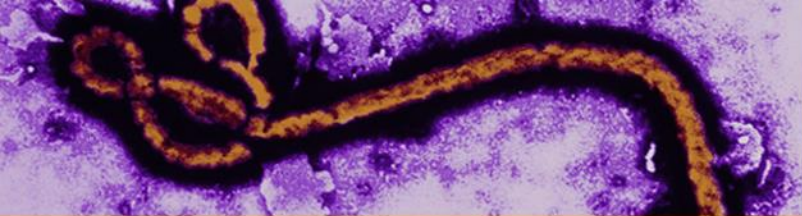
149



Put on respirator (PAPR)

Step 9

- IF using PAPR with a **self-contained filter** and **blower unit** integrated **inside the helmet** . . .
 - You **MUST** also use a **single-use disposable hood**.
 - Hood **MUST** fully cover all **hair, neck** and **ears** and extend past your neck to your **shoulder**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

150

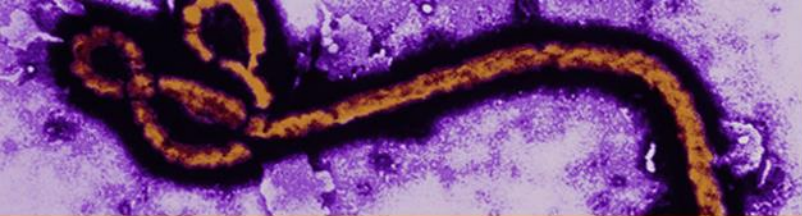


Put on respirator (PAPR)

Step 9

- IF using PAPR with an **external belt-mounted blower unit** and an attached **reusable** headpiece
...
 - A **single-use** (disposable) **hood** that extends to the shoulders and that **fully covers your neck must ALSO** be used.
 - **Again, be SURE the hood covers all of your hair and your ears and extends past your neck to your shoulders.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Put on outer apron (if used) | Step 10

- Put on **full-body outer apron** to provide **additional protection** to the **front** of the body against exposure to **body fluids** or **excrement** from the patient.
- Apron should extend to **mid-calf**.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DON PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS


First Responder: _____
 Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in a safe zone.

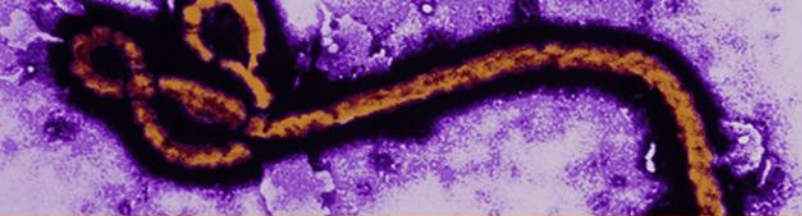
NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning & Doffing PPE* (available at www.cdc.gov/ebs)
 • CDC *Hand Hygiene for Donning and Doffing PPE* (available at www.cdc.gov/ebs)
 • CDC *Hand Hygiene for Donning and Doffing PPE* (available at www.cdc.gov/ebs)
 • The *Hand Hygiene for Donning and Doffing PPE* (available at www.cdc.gov/ebs)
 • The *Hand Hygiene for Donning and Doffing PPE* (available at www.cdc.gov/ebs)
 • The *Hand Hygiene for Donning and Doffing PPE* (available at www.cdc.gov/ebs)

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

PAPR Donning Page 4 of 7

 Step 10. Put on Outer Apron (if used)

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND
BACK.



Verify

Step 11

- Trained Observer verifies:
 - Donning process is **complete** and the **integrity** of the ensemble.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING PAPER POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____ Date: _____

PURPOSE: This document has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in some cases PPE, using the N95. This document should be used by Trained Observers and First Responders in conjunction with:

- The instruction *First Responder Donning & Doffing PPE* (www.cdc.gov/ebola/hcp/ppe-training/PPE.html)
- CDC *Hand Hygiene for Working and Doffing PPE* (www.cdc.gov/ebola/hcp/hand-hygiene.html)
- CDC *Hand Hygiene for Emergency Medical Services (EMS) Operations* (www.cdc.gov/ebola/hcp/hand-hygiene-ems.html)
- Management of Patients with Ebola or Suspected Ebola Virus Disease in the United States - October 26, 2014, www.cdc.gov/ebola/hcp/management-of-patients-with-ebola-virus-disease-in-the-united-states-10-26-2014.html
- CDC *Use of Personal Protective Equipment: Risk Reduction for Healthcare Workers During Management of Patients with Ebola Virus Disease* (www.cdc.gov/ebola/hcp/use-of-personal-protective-equipment-risk-reduction-for-healthcare-workers-during-management-of-patients-with-ebola-virus-disease-10-26-2014.html)

IMPORTANT NOTES:

- Donning and doffing procedures are different, depending on the type of PPE selected.
- Trained Observers verify and document each step of the donning and doffing process.

Prior to donning, designate a Work Zone for doffing. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal confirmation, the donning process is conducted under the guidance and supervision of a Trained Observer.	<input type="checkbox"/> Trained Observer confirms visually and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the ensemble.	<input type="checkbox"/> OUTCOME: All required steps or tasks should be checked at the conclusion of the donning process.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Hats	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or rubber footwear with closed toe and heels, and no holes.	<input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).	<input type="checkbox"/> Visually inspect: <ul style="list-style-type: none"> • all clothing to ensure it is completely covered. • all required PPE and equipment are visible.

Return hand hygiene with alcohol-based hand rub (wash). Allow hands to dry before next step.

Put on first pair of gloves. Cuffs should extend as far up the arms as possible.

Use covers an acceptable ONLY if used with a coverall with integrated seals.

Place length to shoulder location of ensemble. Cuffs of these gowns are folded over the front of the ensemble. If the length is insufficient to secure around your torso, use buddy tabs to facilitate after removal.


Place with a self-contained filter and ensure seal integrated inside the hood to seal, hold and filter any air MUST be put on prior to donning coverall so that contamination will not enter the coverall.

Place with external seal connected to hood, blow and taking MUST be outside of the coverall to ensure proper airflow.

<input type="checkbox"/> Step 3. Put on Outer Gloves	<input type="checkbox"/> Put on second pair of gloves with minimum tension. Closure cuffs are pulled over covered sleeves, extending to the top of the outer gloves.	<input type="checkbox"/> Using different pair of gloves than those already worn is essential to prevent contamination, such as hair.
<input type="checkbox"/> Step 4. Put on Respirator	<input type="checkbox"/> Put on respirator. If it should have a full face shield, behind or behind/below.	<input type="checkbox"/> After a check with a seal-checker that the hood and integrated hood is properly sealed, use a cloth with alcohol-based hand sanitizer and rub hands together for 20 seconds. If using an integrated hood (IDH) use a cloth with alcohol-based hand sanitizer to cover all hair, neck and ears and adjust past the neck to the hood.
<input type="checkbox"/> Step 5. Put on Outer Apron or Gown	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.	
<input type="checkbox"/> Step 6. Verify	<input type="checkbox"/> Trained Observer verifies: <ul style="list-style-type: none"> • Donning process is complete and the integrity of the ensemble. • The required coverall is clean, undamaged, held in the wall, and go through a single or double surface range of movement with all areas of the suit fully sealed covered. 	
<input type="checkbox"/> Step 7. Dismantle Outer Covers	<input type="checkbox"/> Dismantle outer-gown gloves with ABRH. Allow to dry prior to patient contact.	

OUTCOME of SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014. PPE Donning Page 4 of 7

 Step 11. Verify

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

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Verify

Step 11



- First Responder is **comfortable** and . . .
 - Can **extend arms**.
 - **Bend** at the waist.
 - Has sufficient **range of movement** while all areas of the body **remain covered**.

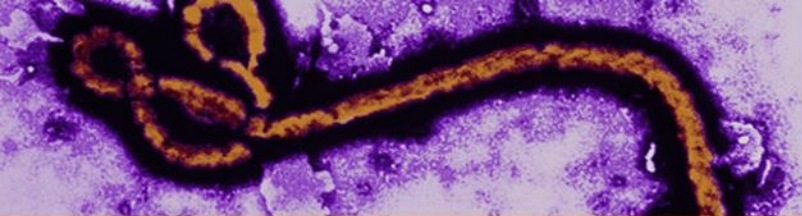
SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html

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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Disinfect **outer** gloves | Step **12**

- Outer gloves are disinfected with ABHR and allowed to *dry prior* to patient contact.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING **PAPR** POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in some cases PPE.

NOTE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning a PAPR* (available at www.cdc.gov/ebs/ebola/11_2014)
 • The *ABHR* (available at www.cdc.gov/ebs/ebola/11_2014)
 • The *Donning Checklist for Emergency Medical Services (EMS) Operators* (2014) (available at www.cdc.gov/ebs/ebola/11_2014)
 • The *Management of Patients with Ebola or Suspected Ebola Virus Disease in the United States* (October 20, 2014) (available at www.cdc.gov/ebs/ebola/10_2014)
 • The *Donning and Doffing Checklist for Emergency Medical Services (EMS) Operators* (2014) (available at www.cdc.gov/ebs/ebola/11_2014)
 • The *Donning and Doffing Checklist for Patients with Ebola* (October 20, 2014) (available at www.cdc.gov/ebs/ebola/10_2014)

REPORTING NOTES:
 • During the donning process, if you are unsure of the correct procedure, stop the process and report to your supervisor for clarification and training.

Prior to donning, designate a Work Zone for donning. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal communication, the donning process is conducted under the guidance and supervision of a Trained Observer.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Shoes	<input type="checkbox"/> Trained Observer confirms identity and documents that all PPE is wearable and has been donned successfully, entering and verifying the integrity of the ensemble. <input type="checkbox"/> OUTCOME: All required items are donned at the conclusion of the donning process.
	<input type="checkbox"/> In a clean area, change into surgical scrubs or reusable gowns and dedicated washable shoes or cover footwear with clean toe and heel, and no holes.
	<input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).
	<input type="checkbox"/> Visually inspect.

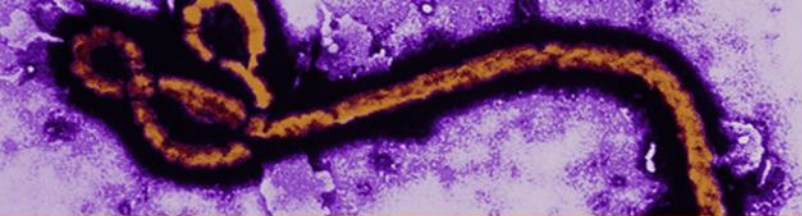
Step 12. Disinfect Outer Gloves

<input type="checkbox"/> Step 3. Put on Outer Gloves	<input type="checkbox"/> To ensure proper aseptic technique, the donning process is conducted under the guidance and supervision of a Trained Observer. <input type="checkbox"/> Put on second pair of gloves with new cuffs. Ensure cuffs are pulled over covered sleeves, extending to the top of the hand. <input type="checkbox"/> Only different pairs of gloves when changing rooms or when a new patient is seen.
<input type="checkbox"/> Step 4. Put on Respirator	<input type="checkbox"/> Put on respirator if it should have a full face shield, behind or behind/below. <input type="checkbox"/> After a check with a trained observer and ensure all integrated parts (the harness, head, side, a filter with exhaust back-protection filter) are in place and correctly assembled. <input type="checkbox"/> ROOMS MUST fully cover all hair, neck and ears and extend past the neck to the shoulders.
<input type="checkbox"/> Step 5. Put on Outer Goggles or Face Shield	<input type="checkbox"/> Put on top-body outer apron to provide additional protection to the front of the body. Apron should extend to mid-calf.
<input type="checkbox"/> Step 6. Verify	<input type="checkbox"/> Trained Observer verifies: • Donning process is completed and integrity of the ensemble. • The respiratory ensemble is in place, sealed, and the seal, and go through a range of motion to ensure sufficient range of movement with all parts of the body mask covered.
<input type="checkbox"/> Step 7. Disinfect Outer Gloves	<input type="checkbox"/> Disinfect outer-gloved hands with ABHR. Allow to dry prior to patient contact.

OUTCOME OF SUCCESSFUL DONNING PROCESS: **NO** exposed skin or hair.

Patient Center for Disease Control and Prevention, October 13, 2014. Page 4 of 7

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/donning_01.html



SUIT UP.
OR
**STAND
BACK.**

EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Donning using PAPR is COMPLETE.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.

156

DONNING PPE: N95

14-Step process



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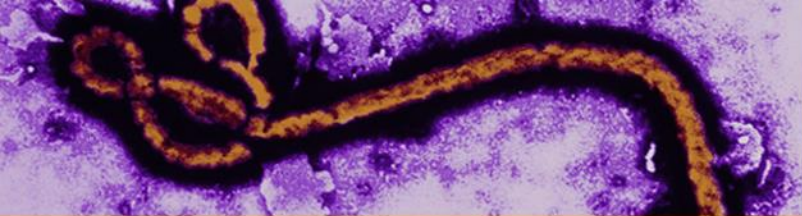


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

157

The first **6** steps of the **donning process** for **N95 respirator** users is the **same** as the donning process for **PAPR** users.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Engage Trained Observer

Step 1

Like donning with a **PAPR** . . .

- The donning process for those using an **N95 respirator** is conducted under the guidance and supervision of a **Trained Observer**.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This guidance has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and wearing in-situ used PPE.

HOW TO DON: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instruction: *How to Donning + Doffing PPE* (available at <https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)
- CDC training courses for donning and doffing PPE (<https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)
- CDC's *Standardized Emergency Medical Services (EMS) System and A-1: Public Safety Donning and Doffing* (available at <https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)
- Management of Ebola and Other Filoviral Emergencies (available at <https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)
- Management of Ebola and Other Filoviral Emergencies (available at <https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)
- Management of Ebola and Other Filoviral Emergencies (available at <https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)
- Management of Ebola and Other Filoviral Emergencies (available at <https://www.cdc.gov/eid/content/pdfs/ehp131314.pdf>)

IMPORTANT NOTES:

- 1. Donning and doffing procedures are different, depending on the type of PPE selected.
- 2. Trained Observers must be present and supervised throughout the process.
- 3. Prior to donning, designate a "Hot Zone" for the setting. Work Zone should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

Step 1. Engage Trained Observer

- Using verbal commands and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
- Trained Observer verbally checks and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the equipment.
- OUTCOME:** All required don or full should be donned at the conclusion of the donning process.

Step 2. Receive Personal Clothing and Items

- In a clean area, change into surgical scrubs or equivalent gowns and dedicated washable shoes or clean footwear with closed toe and heels, and no holes.
- Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).

Step 3. Inspect PPE Prior to Donning

- Visually inspect:
 - All required PPE is in wearable condition.
 - All required PPE are negative on testing.
 - Trained Observer reviews the donning sequence before beginning the donning process, working about 6-8 feet away from the patient.

FIRST RESPONDERS

CDC-recommended PPE

1. Goggles or face shield
2. Goggles or face shield
3. Goggles or face shield

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014

955 Respirator Donning Page 4 of 4

 **Step 1. Engage Trained Observer**

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

159



Engage Trained Observer

Step 1

Using a **written checklist** and verbal commands, your Trained Observer . . .

- Visually confirms and **documents** each step of the donning process.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.

160

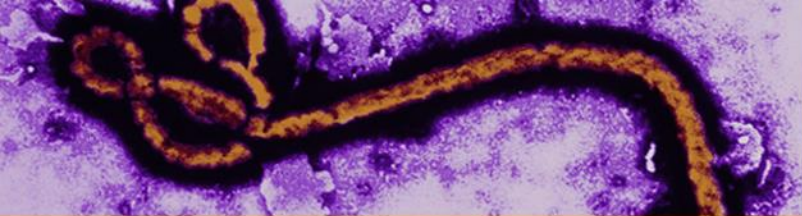


Engage Trained Observer

Step 1

- Assists with **ensuring** and **verifying** the **integrity** of your PPE ensemble.
- **Ensures NO exposed skin or hair.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Remove personal clothing and items

Step 2

- In a clean area, change into surgical scrubs **OR** disposable garments **AND** dedicated washable (plastic or rubber) footwear (with closed-toe and heels, and no holes).
- Remove watches, jewelry, cell phones, pens, pagers, etc.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

FIRST RESPONDERS

Trained Observer: _____ Date: _____

CDC-recommended PPE

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and wearing an-ocular shield PPE.

HOW TO USE: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instructional Film regarding donning & doffing of PPE (www.cdc.gov/emergency-response)
- CDC training videos for donning and doffing PPE (www.cdc.gov/emergency-response)
- CDC's Manual for Emergency Medical Services (EMS) Systems and A/E/PTs (Safety Overview from CDC's Management of Disaster and Disaster Response: Final Report to the U.S. House of Representatives, October 2004, www.house.gov/committees/disaster/record/040101main.html)
- CDC's Manual for Emergency Medical Services (EMS) Systems and A/E/PTs (Safety Overview from CDC's Management of Disaster and Disaster Response: Final Report to the U.S. House of Representatives, October 2004, www.house.gov/committees/disaster/record/040101main.html)
- CDC's Manual for Personal Protective Equipment (PPE) for Health-care Workers (www.cdc.gov/nceh/od/dhqp/PPE.html)

IMPORTANT NOTES:

- Donning and doffing procedures are different, depending on the type of PPE selected.
- Trained Observers (TO) are not permitted to assist with the doffing process. TOs are required to prepare correct facility.

Pre-Donning: designate a Work Zone for setting, with Zone should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Items	<input type="checkbox"/> Trained Observer verifies identity and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the equipment.
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> Trained Observer verifies the donning sequence before beginning the donning process, reading about in a step-by-step fashion.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (avoid). Allow hands to dry before next step.
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
<input type="checkbox"/> Step 6. Put on Boot or Shoe Covers	<input type="checkbox"/> Boot covers should extend to mid-calf.
<input type="checkbox"/> Step 7. Put on Goggles	<input type="checkbox"/> Shoe covers are acceptable ONLY if used with a concealment with integrated soles.

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014

© CDC Emergency Response Page 4 of 4

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

Step 2. Remove Personal Clothing and Items



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

162



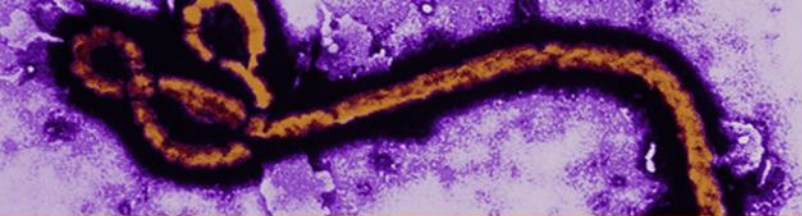
Remove personal clothing and items

Step 2

You should know that garments worn under PPE **may not be reusable.**

- Wear something that is **disposable.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

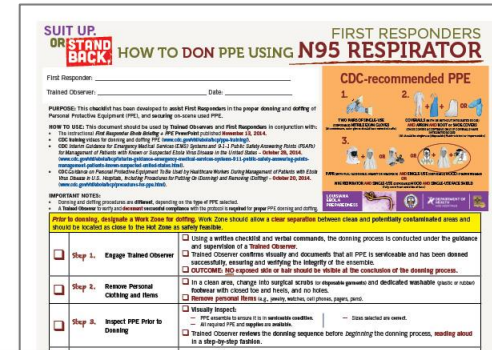
SUIT UP.
OR
STAND BACK.



Inspect

Step 3

- Inspect PPE *before* donning to ensure it is in serviceable condition and **not** torn or damaged.
- Confirm all recommend PPE and needed supplies are available.





Step 3. Inspect PPE Prior to Donning

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

<input type="checkbox"/> Step 11. Put on Outer Glove	As far up arms as possible:
<input type="checkbox"/> Step 12. Put on Face Shield	Use thumb and pointer finger to pinch strap and secure to the suspension, side or head.
<input type="checkbox"/> Step 13. Verify	Ensure face shield is a full face shield; place over the N95 respirator AND the head.
<input type="checkbox"/> Step 14. Distinct Outer Glove	This process provides additional protection to the head and sides of the face, side and eyes.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.

164

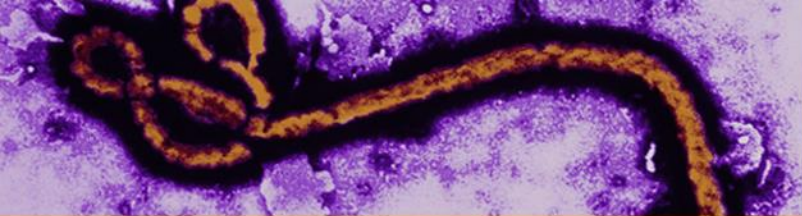


Inspect

Step 3

- Confirm that your PPE is the correct size.
- Your Trained Observer reviews the donning sequence with you **BEFORE** beginning the donning process . . .
 - **Reading aloud** the checklist in a step-by-step fashion.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Perform hand hygiene

Step 4

- Perform hand hygiene using ABHR.
- Allow hands to **dry** before moving to the next step.

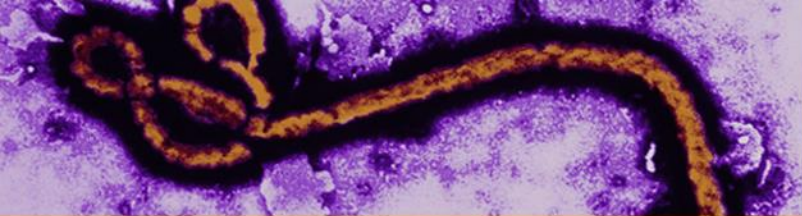
SUIT UP.
FIRST RESPONDERS
ATOR

Step 4. Perform Hand Hygiene



<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Items	<input type="checkbox"/> Trained Observer verifies identity and accounts for all PPE is donned and has been donned successfully, ensuring and verifying the integrity of the ensemble. <input type="checkbox"/> OUTCOME: All required items or full should be donned at the conclusion of the donning process.
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> In a clean area, change into surgical scrubs or equivalent gowns and dedicated washable shoes or shoe insoles with closed toe and heels, and no holes. <input type="checkbox"/> Remove personal items (e.g., jewelry, watches, or glasses, keys, pens). <input type="checkbox"/> Visually inspect: - All required PPE are in expiring or available. - Trained Observer reviews the donning sequence before beginning the donning process, reading about it in a step-by-step fashion.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (preferred). Allow hands to dry before next step.
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
<input type="checkbox"/> Step 6. Put on Boot or Shoe Covers	<input type="checkbox"/> Boot covers should extend to mid-calf. <input type="checkbox"/> Shoe covers are acceptable ONLY if used with a conceal with integrated socks.
<input type="checkbox"/> Step 7. Put on Goggles	<input type="checkbox"/> Ensure coverage: - If large enough to completely enclose the eyes. - Cuffs of shoe covers are tucked under the bottom of the covers. <input type="checkbox"/> For a secure fit ensure: - Both feet are fully placed in the boot and strap the top. - Complete a rear seal check. Adjust mask so that it fits securely to the nose bridge and face.
<input type="checkbox"/> Step 8. Put on N95 Respirator	<input type="checkbox"/> Hood goes over the N95 respirator. <input type="checkbox"/> Hood flaps fully cover all hair, neck and ears and extend past the back to the shoulders.
<input type="checkbox"/> Step 9. Put on Hood	<input type="checkbox"/> Put on full-body rubber apron to provide additional protection to the front of the body. Apron should extend to mid-calf.
<input type="checkbox"/> Step 10. Put on Outer Goggles or Mask	<input type="checkbox"/> Put on second pair of gloves with unadorned cuffs. Ensure cuffs are pushed over coverall sleeves, extending as far up arms as possible.
<input type="checkbox"/> Step 11. Put on Outer Gloves	<input type="checkbox"/> Ensure face shield is a full face shield, placed over the N95 respirator AND the hood. <input type="checkbox"/> This process provides additional protection to the front and sides of the face, nose and eyes.
<input type="checkbox"/> Step 12. Put on Face Shield	<input type="checkbox"/> Trained Observer verifies: - Full face shield is in expiring or available. - Full face shield is completely over the top of the head. <input type="checkbox"/> Full face shield is completely over the top of the head, and go through a single or double motion to ensure sufficient edge of coverage with all areas of full-face shield.
<input type="checkbox"/> Step 13. Verify	<input type="checkbox"/> Trained Observer verifies: - Full face shield is in expiring or available. - Full face shield is completely over the top of the head, and go through a single or double motion to ensure sufficient edge of coverage with all areas of full-face shield.
<input type="checkbox"/> Step 14. Distinct color-gloved hands with ABHR. Allow to dry prior to patient contact.	

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

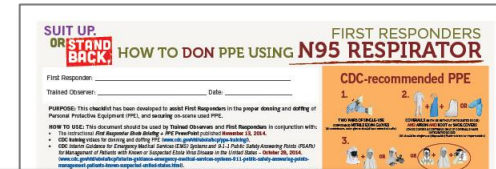
SUIT UP.
OR
STAND BACK.
166



Put on **inner** gloves

Step 5

- Put on your **first** pair of gloves. These are the **inner** gloves.
- Cuffs should **extend** as far up the arms as possible.



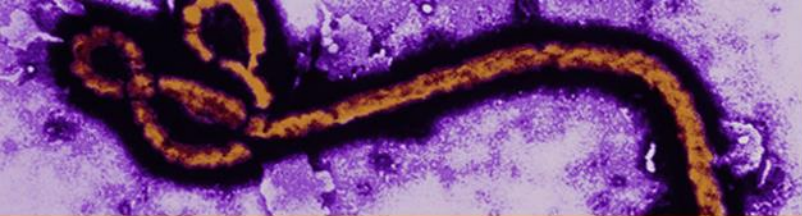
Step 5.

Put on Inner Gloves



SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> Visually inspect: - All required PPE is in workable condition. - All required PPE are expiring on schedule. - Trained Observer returns the donning sequence before beginning the donning process, waiting about 10 seconds before beginning the donning process.	<input type="checkbox"/> This selected on event.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (unless). Allow hands to dry before next step.	
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.	
<input type="checkbox"/> Step 6. Put on Boot or Shoe Covers	<input type="checkbox"/> Boot covers should extend to mid-calf. <input type="checkbox"/> Shoe covers are acceptable ONLY if used with a coverall with integrated socks.	
<input type="checkbox"/> Step 7. Put on Coverall	<input type="checkbox"/> Ensure coverall: - Slips through an available opening or window. - Cuffs of outer gloves are tucked inside the sleeves of the coverall. <input type="checkbox"/> If tape is needed to secure sleeves over outer gloves, use buddy tapes to fasten/secure after removal.	
<input type="checkbox"/> Step 8. Put on N95 Respirator	<input type="checkbox"/> Fit a secure fit ensure: - Before the start of the donning process, the head and strap the ear. - Complete a user seal check. Adjust mask so that it fits securely to the nose bridge and face. <input type="checkbox"/> Hood gaps over the N95 respirator. <input type="checkbox"/> Hood gaps over the N95 respirator.	
<input type="checkbox"/> Step 9. Put on Hood	<input type="checkbox"/> Hood gaps over the N95 respirator. <input type="checkbox"/> Hood gaps over the N95 respirator.	
<input type="checkbox"/> Step 10. Put on Outer Gloves or Goggles	<input type="checkbox"/> Put on full-body outer gloves to provide additional protection to the front of the body. Goggles should extend to mid-calf.	
<input type="checkbox"/> Step 11. Put on Outer Gloves	<input type="checkbox"/> Put on second pair of gloves (with extended cuffs). Ensure cuffs are pushed over coverall sleeves, extending as far up arms as possible. - Use different and gloves when donning gowns/masks to ensure it is secure to the coverall, cuffs or ties.	
<input type="checkbox"/> Step 12. Put on Face Shield	<input type="checkbox"/> Ensure face shield is a full face shield; place over the N95 respirator AND the hood. <input type="checkbox"/> This process provides additional protection to the front and sides of the face, nose and eyes.	
<input type="checkbox"/> Step 13. Verify	<input type="checkbox"/> Trained Observer verifies: - Donning process is complete and in the sequence of the coverall. - Full face shield is in position and able to extend arms, head or the neck, and go through a range of motion to ensure sufficient range of movement while in use of the full-body coverall.	
<input type="checkbox"/> Step 14. Donning Outer Gloves	<input type="checkbox"/> Donning outer gloves: - Distinct outer-gloved hands with ADHAC. Allow to dry prior to patient contact.	



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Put on boot or shoe covers

Step 6

- Remember...
 - Shoe covers can be used **ONLY IF** your coveralls have integrated socks.
 - Boot covers should extend to mid-calf.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This document has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in areas used PPE.

HOW TO DON: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instruction: *How to Don and Doff PPE* (published October 13, 2014).
- CDC webpage for donning and doffing PPE: www.cdc.gov/eid/content/pdfs/vol20/1403.pdf
- CDC: *Interim Guidance for Emergency Medical Services (EMS) Systems and All Public Safety Agencies Regarding the Management of Patients and Care of Suspected Ebola Virus Disease in the United States* (October 10, 2014).
- Centers for Disease Control and Prevention: *Guidance for Public Health Workers: Daily Management of Patients with Ebola Virus Disease in U.S. Hospitals, including Procedures for Putting On (Donning) and Removing (Doffing)* (October 10, 2014).

IMPORTANT NOTES:

- Donning and doffing procedures are **different**, depending on the type of PPE selected.
- Trained Observers: Donning and doffing procedures are **different**, depending on the type of PPE selected.


Pre-Donning: Establish a Work Zone for setting, work. Zone should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safely feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Items	<input type="checkbox"/> Trained Observer verifies identity and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the ensemble. OUTCOME: All required items are fully donned in order of the checkboxes of the donning process.
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> In a clean area, change into surgical scrubs or equivalent garments and dedicated washable gloves or other footwear with closed toe and heels, and no holes. <input type="checkbox"/> Visually inspect: - All required PPE are replace as needed. - Trained Observer reviews the donning sequence before beginning the donning process, reading about in a step-by-step fashion.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (ABHR). Allow hands to dry before next step.

OUTCOME OF SUCCESSFUL DONNING PROCESS: **NO** exposed skin or hair.

Publication Date: November 13, 2014

95% Respiratory Donning Page 4 of 4

 Step 6. Put on Boot or Shoe Covers

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

169



Put on coveralls

Step 7

- Put on coveralls.
 - Ensure the coverall is **large enough** to allow **unrestricted movement**; and . . .
 - Ensure cuffs of inner gloves are **tucked under** the sleeves of the coverall.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.

170



Put on coveralls

Step 7

- If **tape** is needed to secure sleeves **over** inner gloves, use **buddy tabs** to facilitate later removal.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Put on N95 respirator

Step 8

- Put on the N95 respirator.



SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE) and wearing an-ocular used PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instructional Film *Donning and Doffing of PPE* (available at www.cdc.gov/od/oc/ohrt/ebola/ebola_ppe.html).
- CDC training videos for donning and doffing PPE (www.cdc.gov/od/oc/ohrt/ebola/ebola_ppe.html).
- The American Center for Emergency Medicine (ACEM) System and A.C. Public Safety Donning and Doffing (D&D) Manual (www.acem.org).
- Management of Ebola and Other Respiratory Virus Infections in the United States (www.cdc.gov/mmwr/preview/mmwrhtml/mm5813a1.htm).
- Guidance for Personal Protective Equipment (PPE) for HealthCare Workers (www.cdc.gov/mmwr/preview/mmwrhtml/mm5813a1.htm).
- CDC's Control of Ebola Virus Infection: A Guide for HealthCare Workers (www.cdc.gov/mmwr/preview/mmwrhtml/mm5813a1.htm).
- CDC's Control of Ebola Virus Infection: A Guide for HealthCare Workers (www.cdc.gov/mmwr/preview/mmwrhtml/mm5813a1.htm).

IMPORTANT NOTES:


- Donning and doffing procedures are different, depending on the type of PPE selected.
- Always discuss with your supervisor or trained observer and do not proceed until you are confident you are following the correct donning and doffing procedure.
- Always discuss with your supervisor or trained observer and do not proceed until you are confident you are following the correct donning and doffing procedure.
- Always discuss with your supervisor or trained observer and do not proceed until you are confident you are following the correct donning and doffing procedure.

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014

Page 4 of 4

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

 Step 8. Put on N95 Respirator



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

172



Put on N95 respirator

Step 8

- For a **secure fit** ensure:
 - Top tie or elastic band is **over** your head and **above** your ears.
 - Bottom tie or elastic band goes along the back of your neck **under** your ears.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.

173

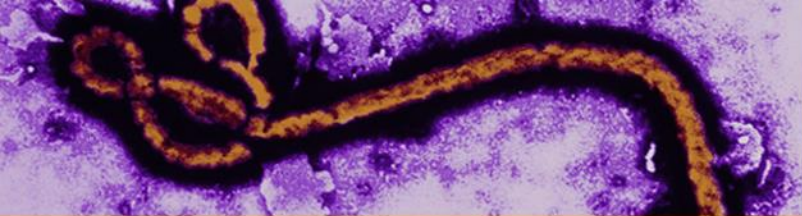


Put on N95 respirator

Step 8

- Complete a **user seal** check.
 - Adjust the mask so that it fits securely to the bridge of your nose and your face.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
174



Put on hood

Step 9

- Put hood **over** the N95 respirator.
- Hood **MUST** fully cover all hair, neck and ears and extend past your neck to your shoulders.



SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

FIRST RESPONDERS

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This guidance has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and wearing an N95 respirator.

HOW TO DON: This document should be used by Trained Observers and First Responders in conjunction with:

- The Infectious Risk Assessment Booklet, 4th Edition (October 2014).
- CDC training videos for donning and doffing PPE, www.cdc.gov/od/oc/media/pressroom/2014/s14-0011.htm.
- CDC Manual for Emergency Medical Services (EMS) Systems and A/E/PTs, www.cdc.gov/od/oc/media/pressroom/2014/s14-0011.htm.
- Management of Ebola and Other Filoviral Emergencies (October 2014), www.cdc.gov/od/oc/media/pressroom/2014/s14-0011.htm.
- Guidance for Personal Protective Equipment (PPE) Use by Health Care Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals, www.cdc.gov/od/oc/media/pressroom/2014/s14-0011.htm.
- Standardized Personal Protective Equipment (PPE) Use by Health Care Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals, www.cdc.gov/od/oc/media/pressroom/2014/s14-0011.htm.

IMPORTANT NOTES:

- Donning and doffing procedures are different, depending on the type of PPE selected.
- Trained Observers (TOs) should observe and assist with the donning sequence for proper PPE donning and doffing.
- For doffing, designate a "Hot Zone" for doffing. Work zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

Step 1. Engage Trained Observer

- Using a verbal checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
- Trained Observer verifies donning and documents that all PPE is donned and has been donned successfully, ensuring and verifying the integrity of the ensemble.
- OUTCOME:** All required PPE is donned in the correct order at the conclusion of the donning process.

Step 2. Remove Personal Clothing and Items

- In a clean area, change into surgical scrubs or equivalent garments and dedicated washable shoes or shoe insoles with closed toe and heels, and no laces.
- Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).

Step 3. Inspect PPE Prior to Donning

- Visually inspect:
 - All required PPE is in a wearable condition.
 - All required PPE are replace or reusable.
 - Trained Observer reviews the donning sequence before beginning the donning process, reading about it in a step-by-step fashion.
- Do not select an item.

Step 4. Perform Hand Hygiene

- Perform hand hygiene with alcohol-based hand rub (AHR). Allow hands to dry before next step.

Step 5. Put on Inner Gloves

- Put on first pair of gloves. Cuffs should extend as far up the arms as possible.

Step 6. Put on Boot or Shoe Covers

- Boot covers should extend to mid-calf.
- Shoe covers are acceptable ONLY if used with a gaiter with integrated elastic.
- Ensure coverage.
- If tape is needed to secure shoe covers over outer gloves, use buddy tapes to facilitate tape removal.

Step 7. Put on Goggles

- For a secure fit ensure:
 - The top edge rests on the forehead and the bottom edge rests on the bridge of the nose.
 - The sides rest on the cheeks and the bottom edge rests on the chin.
 - Contents are not obstructed.
 - Adjust mask so that it fits securely to the nose bridge and face.
- Goggles should extend past the back of the head.
- Goggles should extend past the neck to the shoulders.
- Provide additional protection to the front of the body. Apron straps should be secured to the front of the body.

Step 8. Put on N95 Respirator

- For a secure fit ensure:
 - The top edge rests on the forehead and the bottom edge rests on the bridge of the nose.
 - The sides rest on the cheeks and the bottom edge rests on the chin.
 - Contents are not obstructed.
 - Adjust mask so that it fits securely to the nose bridge and face.
- Goggles should extend past the back of the head.
- Goggles should extend past the neck to the shoulders.
- Provide additional protection to the front of the body. Apron straps should be secured to the front of the body.

Step 9. Put on Hood

- Hood and ears extend past the neck to the shoulders.
- Provide additional protection to the front of the body. Apron straps should be secured to the front of the body.

OUTCOME of SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

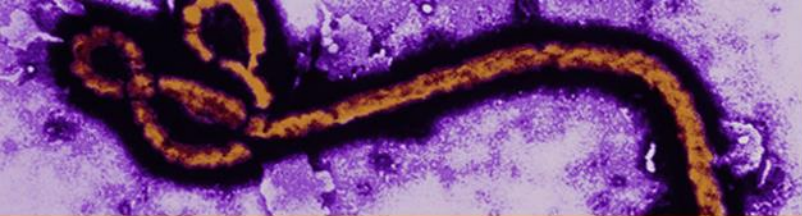
Publication Date: November 13, 2014

N95 Respirator Donning Page 4 of 4

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

Step 9. Put on Hood

Back and ears extend past the neck to the shoulders. Provide additional protection to the front of the body. Apron straps should be secured to the front of the body.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
175



Put on outer apron

(if used)

Step 10

- Put on **full-body outer apron** to provide **additional protection** to the **front** of the body against exposure to **body fluids** or **excrement** from the patient.
- Apron should extend to **mid-calf**.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

FIRST RESPONDERS CDC-recommended PPE

IMPORTANT NOTES:

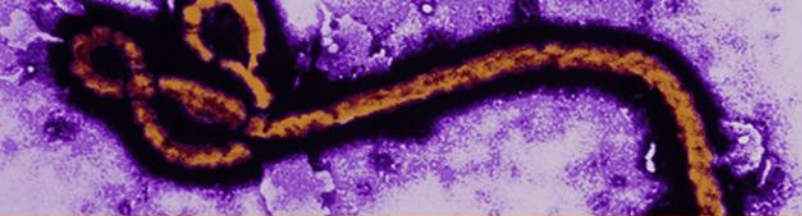
- Donning and doffing procedures are **critical**, depending on the type of PPE selected.
- **Trained Observers** must continuously monitor compliance with the correct sequence for PPE donning and doffing.

Before donning, designate a Work Zone for the setting. Work Zones should allow a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Shoes	<input type="checkbox"/> Trained Observer verifies identity and documents that all PPE is verifiably and has been donned successfully, ensuring and verifying the integrity of the equipment.
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> OUTCOME: All required PPE is inspected and found to be in good condition at the time of donning.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> In a clean area, change into surgical scrubs or equivalent garments and dedicated washable shoes or socks (not worn with closed toe and heels, and no holes).
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Remove personal items (e.g., jewelry, watches, cell phones, keys, pens).
<input type="checkbox"/> Step 6. Put on Hood or Shoe Covers	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (avoid). Allow hands to dry before next step.
<input type="checkbox"/> Step 7. Put on Goggles	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
<input type="checkbox"/> Step 8. Put on Mask	<input type="checkbox"/> Put on second pair of gloves. Cuffs should extend as far up the arms as possible.
<input type="checkbox"/> Step 9. Put on Coveralls	<input type="checkbox"/> Boot covers should extend to mid-calf.
<input type="checkbox"/> Step 10. Put on Outer Apron (if used)	<input type="checkbox"/> Shoe covers are acceptable ONLY if used with a coverall with integrated apron.
	<input type="checkbox"/> Ensure coverage:
	<input type="checkbox"/> If tape is needed to secure sleeves over outer gloves, use buddy tapes to facilitate tape removal.
	<input type="checkbox"/> For a secure fit ensure:
	<input type="checkbox"/> Pull the mask down using the head and strap the ears.
	<input type="checkbox"/> Before the mask is fastened, pull the head and strap the ears.
	<input type="checkbox"/> Coveralls should extend mid-calf, extend around the waist, and extend around the ankles.
	<input type="checkbox"/> Coveralls should extend mid-calf, extend around the waist, and extend around the ankles.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

Step 10. Put on Outer Apron (if used)



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND



Put on **outer** gloves

Step 11

- Put on **outer** gloves with extended cuffs.
- Ensure cuffs are pulled **over** the sleeves of the coverall, extending as far up arms as possible.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This manual has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE) and working in a contaminated area.

HOW TO DON: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instructional Film Donning and Doffing of PPE (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)
- CDC Training Series for donning and doffing PPE (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)
- CDC Manual for Emergency Medical Services (EMS) Systems and A/E/Ps (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)
- Management of Ebola and Other Filoviruses (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)
- Management of Ebola and Other Filoviruses (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)
- Management of Ebola and Other Filoviruses (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)
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- Management of Ebola and Other Filoviruses (www.cdc.gov/od/oc/media/pressroom/images/2014/s140618a101.pdf)

IMPORTANT NOTES:

- Donning and doffing procedures are different, depending on the type of PPE selected.
- Trained Observers (TO) and Trained Observer Assistants (TOA) should be present for PPE donning and doffing.
- For the donning process, designate a **Hot Zone** for the setting. Work Zones should show a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

1. Engage Trained Observer

- Using a verbal checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
- Trained Observer visually checks and documents that all PPE is wearable and has been donned successfully, ensuring and verifying the integrity of the ensemble.
- OUTCOME:** All required don or full should be donned at the conclusion of the donning process.

2. Remove Personal Clothing and Items

- In a clean area, change into surgical scrubs or equivalent gowns and dedicated washable shoes or clean footwear with closed toe and heels, and no holes.
- Remove personal items (e.g., jewelry, watches, or glasses, keys, pens).

3. Visually Inspect

- Inspect ensemble to ensure it is wearable and clean.
- All required PPE are properly worn.
- Trained Observer reviews the donning sequence before beginning the donning process, reading about it in a step-by-step fashion.

4. Perform Hand Hygiene

- Perform hand hygiene with alcohol-based hand rub (AHHR). Allow hands to dry before next step.

5. Put on Inner Gloves

- Put on first pair of gloves. Cuffs should extend as far up the arms as possible.

6. Put on Boot or Shoe Covers

- Boot covers should extend to mid-calf.
- Shoe covers are acceptable **ONLY** if used with a coverall with integrated seals.
- Ensure coverage.
- If tape is needed to secure sleeves over outer gloves, use buddy tapes to facilitate tape removal.

7. Put on Coverall

- Put a secure fit enclosure.
- Before the coverall is fully donned, the head and eyes are.
- Coveralls should not be donned or doffed until the head and eyes are fully protected.

8. Put on N95 Respirator

- Put on the N95 respirator.
- Secure the straps that pass over the head and behind the ears.
- Perform a seal check and adjust straps as needed to ensure a proper fit.
- Coveralls should not be donned or doffed until the head and eyes are fully protected.


11. Put on Outer Gloves

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 15, 2014

MSF Respirator Donning Page 4 of 4

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

 **Step 11. Put on Outer Gloves**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

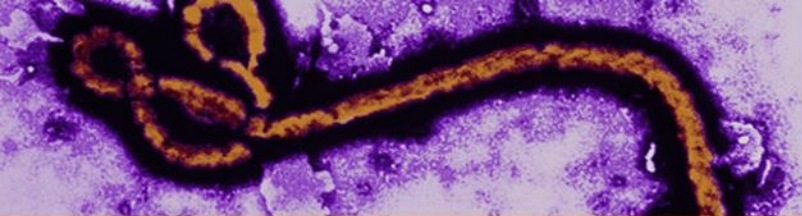
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Put on **outer** gloves | Step **11**

- Remember, using **different colored gloves** when double gloving makes it **easier to see** contamination, cuts or tears.
 - And is a **visual reminder** of where you are in the donning and doffing process.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.
178



Put on face shield

Step 12

- Put on **full** face shield.
- Ensure it is placed **over** your N95 respirator **AND** the hood.
- This provides **additional** protection to the front and sides of your face, skin and eyes.



SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring no-skin contact PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instruction *Put On/Remove Donning + Doff PPE/Remove* published November 13, 2014.
- CDC *Working Safely for Cleaning and Entry PPE* (www.cdc.gov/ebola/working-safely).
- CDC *Minimum Criteria for Emergency Use of Certain Zoonotic Influenza and A/E. Pests: Safety Donning Order (SUDO)* (www.cdc.gov/od/oc/media/pressrel/r011401a.htm).
- *Management of Patients and Care of Suspected Ebola Virus Disease in Health-Care Settings* (October 16, 2014).
- *Guidance for Personal Protective Equipment (PPE) for Health-Care Workers Caring for Patients with Ebola Virus Disease in U.S. Hospitals*, including *Procedures for Putting on (Donning) and Removing (Doffing)* (October 16, 2014).


IMPORTANT NOTES:

- Donning and doffing procedures are different, depending on the type of PPE selected.
- Trained Observers should not wear standard scrubs. The minimum required for proper use is a lab coat.
- Trained Observers should not wear standard scrubs. The minimum required for proper use is a lab coat.

FOR DONNING, designate a Hot Zone for setting, with Zone should allow a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

Step	Task	Checklist
Step 1.	Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
Step 2.	Remove Personal Clothing and Items	<input type="checkbox"/> Trained Observer verifies identity and accounts, such as PPE, is verifiable and has been doffed successfully, ensuring and verifying the integrity of the essential. OUTCOME: All required items or PPE should be doffed at the conclusion of the donning process.
Step 3.	Inspect PPE Prior to Donning	<input type="checkbox"/> In a clean area, change into surgical scrubs or equivalent garments and dedicated washable gowns or cover gowns with closed toe and heels, and no holes. <input type="checkbox"/> Inspect personal items (e.g., jewelry, watches, cell phones, keys, pens). <input type="checkbox"/> Visually inspect: - All required PPE and supplies are available. - Item selected for use. - All required PPE are expiring or expired.
Step 4.	Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (unless not available, use soap and water) to dry before next step.
Step 5.	Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
Step 6.	Put on Hood or Shoe Covers	<input type="checkbox"/> Hood covers should extend to neck-cuff. <input type="checkbox"/> Shoe covers are acceptable ONLY if used with a goniometer with integrated seals.
Step 7.	Put on Coverall	<input type="checkbox"/> Ensure coverage: - If legging is needed to secure sleeves over outer gloves, use buddy tabs to facilitate after removal. <input type="checkbox"/> For a secure fit ensure: - Buckle the waist strap across the back and above the waist. - Buckle the waist strap across the back and below the waist. <input type="checkbox"/> Connectors, a buckle and a cinch, adjusted evenly on both sides, connects to the inner hidden back strap.
Step 8.	Put on N95 Respirator	<input type="checkbox"/> For a secure fit ensure: - Buckle the waist strap across the back and above the waist. - Buckle the waist strap across the back and below the waist. <input type="checkbox"/> Connectors, a buckle and a cinch, adjusted evenly on both sides, connects to the inner hidden back strap.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

 **Step 12. Put on Face Shield**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

179



Verify

Step 13

- **Trained Observer verifies:**
 - Donning process is **complete** and the **integrity** of the ensemble.



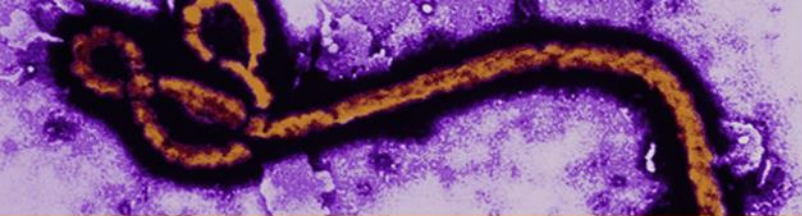
SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
180



Verify

Step 13

- First Responder is **comfortable** and . . .
- Can **extend arms**.
- **Bend** at the waist.
- Has sufficient **range of movement** while all areas of the body remain covered.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

PURPOSE: This manual has been developed to assist First Responders in the proper donning and donning of Personal Protective Equipment (PPE), and wearing in-situ used PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:

- The Instruction *Donning and Doffing of PPE* (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Hand Hygiene for Cleaning and Disinfecting PPE* (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Interim Guidance for Emergency Medical Services (EMS) Systems and A/E/Us* (www.cdc.gov/emergency-preparedness-response-recovery)
- Management of Ebola and Other Filoviruses (www.cdc.gov/emergency-preparedness-response-recovery)
- Guidance for Personal Protective Equipment Use by Healthcare Workers (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Guidance for Personal Protective Equipment Use by Healthcare Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals* (www.cdc.gov/emergency-preparedness-response-recovery)

IMPORTANT NOTES:

- Donning and donning procedures are **different**, depending on the type of PPE selected.
- **Trained Observers** verify and document essential components of the process to support a **post-event control log**.

Pre-Donning: designate a **Work Zone** for setting, with **Zones** should show a clear separation between clean and potentially contaminated areas and should be located as close to the **Hot Zone** as safety feasible.

- Using a written checklist and verbal commands, the donning process is conducted under the guidance and supervision of a Trained Observer.
- Trained Observer verifies donning and documents that all PPE is comfortable and has been donned successfully, ensuring and verifying the integrity of the equipment.
- OUTCOME:** **NO** exposed skin or hair should be visible at the conclusion of the donning process.
- In a clean area, change into surgical scrubs or equivalent garments and dedicated washable gloves or other footwear with closed toe and heels, and no holes.
- Remove personal items (e.g., keys, watches, cell phones, keys, pens).

Step 1. Engage Trained Observer

- Visually inspect:
 - PPE equipment to ensure it is a **workable condition**.
 - All required PPE are **replace as needed**.
 - Trained Observer reviews the donning sequence before beginning the donning process, **reading aloud** in a step-by-step fashion.
- Perform hand hygiene with alcohol-based hand rub (aerosol). Allow hands to dry before next step.
- Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
- Boot covers should extend to mid-calf.
- Shoe covers are acceptable **ONLY** if used with a coverall with integrated neck.
- Ensure coverall:
 - Long enough to extend **below** the waist.
 - Cuffs at the top close on hand **above** the wrists of the coverall.
 - If gaps it needed to secure sleeves over outer gloves, use buddy tapes to facilitate after removal.
- For a secure fit ensure:
 - All ties are secure to **cover the head and wrap the ears**.
 - Buckles to secure neck **prevent the head** from slipping the suit.
 - Complete a **visual leak check**. Adjust mask so that it fits securely to the nose bridge and face.

Step 2. Remove Personal Clothing and Items


- Put on full-body rubber apron to provide additional protection to the front of the body. Apron should extend to mid-calf.
- Put on second pair of gloves (non-sterile). Ensure cuffs are **pushed over** coverall sleeves, extending as far up arms as possible.
- Use **different** non-sterile gloves when donning gaiters to ensure a secure fit to the waist.
- Ensure face shield is a full face shield, **place over** the N95 respirator **AND** the hood.
- This process provides additional protection to the front and sides of the face, nose and eyes.

Step 3. Verify

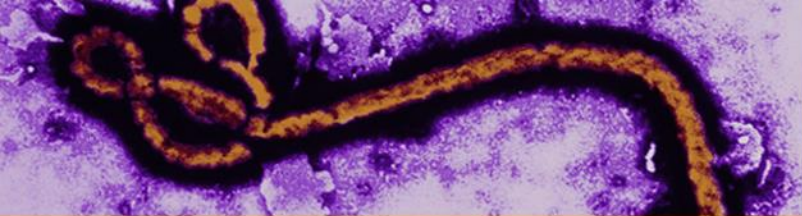
- Trained Observer verifies:
 - PPE equipment to ensure it is a **workable condition**.
 - All required PPE are **replace as needed**.
 - First Responder is **comfortable** and able to extend arms, bend at the waist, and go through a range of motion to ensure sufficient range of movement while all areas of the body remain covered.
- Distinct **color-coded** hands with ADRS. Allow to dry prior to patient contact.

OUTCOME OF SUCCESSFUL DONNING PROCESS: NO exposed skin or hair.

Publication Date: November 13, 2014 N95 Respirator Donning Page 4 of 4

 Step 13. Verify

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Disinfect **outer** gloves | Step 14

- Outer gloves are disinfected with ABHR and allowed to **dry** prior to patient contact.

SUIT UP. OR STAND BACK. HOW TO DON PPE USING N95 RESPIRATOR

First Responder: _____ Date: _____

Trained Observer: _____

CDC-recommended PPE

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and wearing an N95 respirator.

HOW TO DON: This document should be used by Trained Observers and First Responders in conjunction with:

- The instruction *How to Donning and Doffing of PPE* (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Hand Hygiene for Cleaning and Disinfecting PPE* (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Interim Guidance for Emergency Use of Certain N95 Respirators and A/C Filtered Respiratory Protection* (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Guidance for Cleaning and Disinfecting PPE* (www.cdc.gov/emergency-preparedness-response-recovery)
- CDC *Guidance for Cleaning and Disinfecting PPE* (www.cdc.gov/emergency-preparedness-response-recovery)

IMPORTANT NOTES:

- 1. Donning and doffing procedures are different, depending on the type of PPE selected.
- 2. Trained Observers should observe and document compliance with the process required for proper PPE donning and doffing.

Prior to donning, designate a Hot Zone for setting, with Zone marked with a clear separation between clean and potentially contaminated areas and should be located as close to the Hot Zone as safety feasible.

<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written checklist and verbal communication, the donning process is conducted under the guidance and supervision of a Trained Observer.
<input type="checkbox"/> Step 2. Remove Personal Clothing and Items	<input type="checkbox"/> Trained Observer verifies identity and documents that all PPE is accessible and has been donned successfully, ensuring and verifying the integrity of the ensemble. OUTCOME: All required items are fully donned in the cleanest of the cleanest areas.
<input type="checkbox"/> Step 3. Inspect PPE Prior to Donning	<input type="checkbox"/> In a clean area, change into surgical scrubs or equivalent garments and dedicated washable gloves or other footwear with closed toe and heels, and no holes. <input type="checkbox"/> Remove personal items (e.g., jewelry, watches, or glasses, keys, pens). <input type="checkbox"/> Visually inspect: - All required PPE are in a workable condition. - All required PPE are replace as needed. - Trained Observer reviews the donning sequence before beginning the donning process, reading about in a step-by-step fashion.
<input type="checkbox"/> Step 4. Perform Hand Hygiene	<input type="checkbox"/> Perform hand hygiene with alcohol-based hand rub (unless: Allow hands to dry before next step).
<input type="checkbox"/> Step 5. Put on Inner Gloves	<input type="checkbox"/> Put on first pair of gloves. Cuffs should extend as far up the arms as possible.
<input type="checkbox"/> Step 6. Put on Boot or Shoe Covers	<input type="checkbox"/> Boot covers should extend to mid-calf. <input type="checkbox"/> Shoe covers are acceptable ONLY if used with a gaiter with integrated elastic. <input type="checkbox"/> Ensure coverage: - Shoe length is extended beyond the heel. - Cuffs of shoe covers are tucked under the bottom of the gaiter. - If gaiter is needed to secure shoe cover over outer gloves, use buddy tapes to fasten/secure gaiter removal.
<input type="checkbox"/> Step 7. Put on Goggles	<input type="checkbox"/> For a secure fit ensure: - Goggles are worn over the head and wrap the ears. - Goggles are worn over the head and wrap the ears. - Goggles are worn over the head and wrap the ears.
<input type="checkbox"/> Step 8. Put on N95 Respirator	<input type="checkbox"/> Perform a user seal check. Adjust straps on N95 to fit correctly to the nose, bridge, and chin.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html

Step 14. Disinfect Outer Gloves



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Donning using an
N95 respirator is
COMPLETE.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

183

**Trained Observers don
and doff PPE using the
same procedures.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Law Enforcement (LE)



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

185

LE

If you are Law Enforcement (LE), **remember** your job is to secure the scene and protect the perimeter.

If you **MUST** assist Medical Responders OR are going to be **within three (3) feet** of a person known or **SUSPECTED** to have Ebola – or **direct contact** with anything with which that person has had direct contact – **you MUST put on PPE.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

186

Remember, when you suit up . . .

LE

- **LOCK** your gear in your car, including your **service weapon**.
- Remove anything that could **puncture** or **tear** your PPE, including your badge.
- You are **NO longer identifiable** as **Law Enforcement**.
- Be **SURE** there are **other LE personnel** on site to keep the perimeter secure.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

187

SECTION 4 – Doffing using PAPR or N95



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

188

- **Safely** removing and properly disposing of PPE is **just as important** as putting it on properly.
 - You **MUST** remove PPE **CAREFULLY**.
- Doffing is your **GREATEST risk** of exposure.
 - Take a **breath**. Take your **time**.



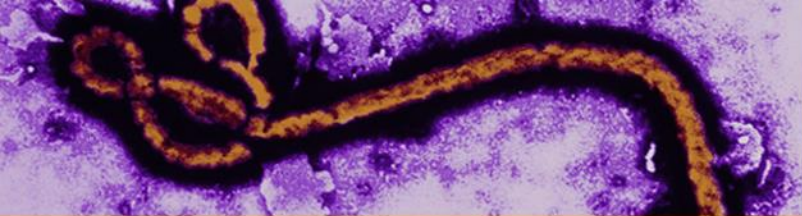
EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

189

Doff at the **PPE removal area** you set up earlier.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

DECON: Prepare to doff PPE

Before entering the PPE removal area, inspect and disinfect any visible contamination on PPE including gloved hands using an EPA-registered disinfectant.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

191

DECON: Prepare to doff PPE

Step into the **pool** and **into** the **large** (33 gallon or larger) **leak-proof plastic bag.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

192

DECON: Prepare to doff PPE

Remove any **visible contamination** on your PPE using the **10% household bleach solution** you prepared earlier.

- **One (1) part** household bleach and **nine (9) parts water.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

193

DECON: Prepare to doff PPE

- One common (and improper) approach to decontamination (DECON) is the notion that **increasing the strength of a bleach solution will improve effectiveness.**
- This should **NEVER** be attempted when **DECONing PPE.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

194

Prepare to doff PPE

As you doff PPE, you will **drop disposable** items into the **leak-proof plastic bag** prepared for that purpose and later **double bag** the used PPE.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Like donning, the **doffing** sequence is **different** depending on whether you use **PAPR** or **N95** respirators.



OR

OR



PAPR – 21-Step process

N95 – 24-Step process



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

196

Trained Observer

Like the **donning** process, **doffing** is conducted under the **supervision** of a **Trained Observer**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

197

Trained Observer

- A Trained Observer is an **ESSENTIAL** part of doffing for **both** PAPR and N95 respirator users.
- You **MUST** follow his/her commands.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.

198

DOFFING PPE: PAPR

21-Step process

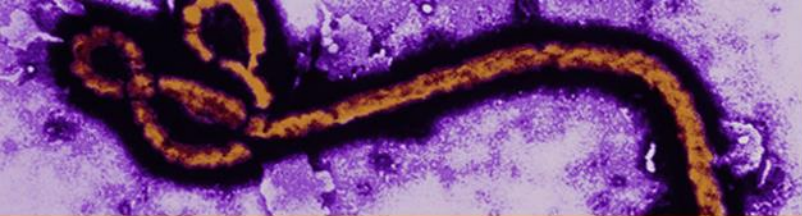


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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.
STAND BACK.



Engage Trained Observer

Step 1

Your Trained Observer, using a written checklist . . .

- **Reads aloud each step** of the doffing procedure.
- **Visually confirms and documents** PPE is removed properly.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DOFF PPE USING PAPP POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE) and leaving the scene safely.

HOW TO USE: This document should be used by Trained Observers and First Responders in conjunction with:

- CDC's guidance for respiratory disease doffing: www.cdc.gov/eid/content/vol18/12/12-1814a.pdf
- CDC's guidance for cleaning and donning PPE: www.cdc.gov/eid/content/vol18/12/12-1814a.pdf
- CDC's guidance for cleaning and donning PPE: www.cdc.gov/eid/content/vol18/12/12-1814a.pdf
- CDC's guidance for cleaning and donning PPE: www.cdc.gov/eid/content/vol18/12/12-1814a.pdf
- CDC's guidance for cleaning and donning PPE: www.cdc.gov/eid/content/vol18/12/12-1814a.pdf

IMPORTANT NOTES:

- Doffing and donning procedures are different, depending on the type of PPE selected.
- A trained observer should be present throughout the entire doffing process.

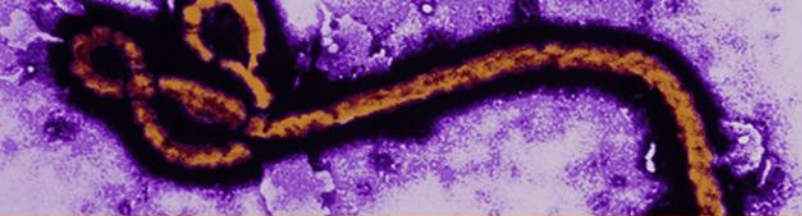
Place and double bag used PPE in large, leak-proof plastic bags. Secure all the sides until placed up to a fully protected container.

<input type="checkbox"/> Established Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing. If necessary, doffing area should be located as close to the Hot Zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and decontaminate any vehicle contamination on PPE including gloves, boots, using an EPA-registered disinfectant. <input type="checkbox"/> Step into the pad (or pad) prior to doffing area remove any vehicle contamination using 10% household bleach solution (one 1/2 cup household bleach and four 1/2 cups water). <input type="checkbox"/> As each PPE is doffed, step into leak-proof plastic bag prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your GREATEST RISK of exposure.
<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who reads aloud each step of the procedure and visually confirms and documents that PPE is removed properly. <input type="checkbox"/> Trained Observer: <ul style="list-style-type: none"> - Read doffing PPE, written First Responder to assist reduce risk of exposure, such as handling the bag, hand disinfection, and First Responder or Trainer PPE during the doffing process. - May assist with removal of specific components of PPE, as outlined below. - Includes step guide book (transmission) the training of First Responder PPE.
<input type="checkbox"/> Step 2. Inspect	<input type="checkbox"/> Inspect PPE for visible contamination, cuts or tears. <input type="checkbox"/> Unchecked potentially contaminated PPE using an EPA-registered disinfectant wipe or spray in leak-proof container prior to appropriate disposal as follows.

Step 1.

Engage Trained Observer

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

200



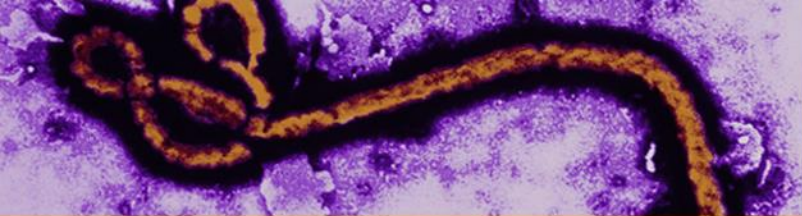
Engage Trained Observer

Step 1

Your Trained Observer . . .

- Reminds you to avoid **reflexive actions** that put you at risk, such as **touching your face**.
- Should **minimize touching** your PPE during the doffing process.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

201



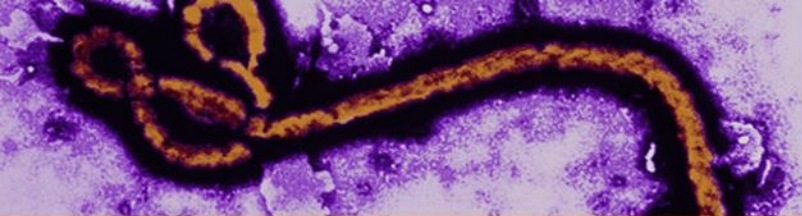
Engage Trained Observer

Step 1

Your Trained Observer . . .

- May **assist** with removal of specific components of PPE.
- **Disinfects outer-gloved hands** immediately after handling any of your PPE during the doffing process.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND
BACK.
OR
STAND
BACK.



Inspect

Step 2

- Inspect PPE for **visible** contamination, cuts or tears.

SUIT UP. OR STAND BACK. **FIRST RESPONDERS HOW TO DOFF PPE USING PAPR**
POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Treated Onset: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE) and handling in cases of Ebola.

HOW TO USE: This document should be used by Trained Observers and First Responders in conjunction with:

- CDC guidance for respiratory disinfection, PPE removal (CDC/NIH/WHO, 2014)
- CDC guidance for cleaning and donning PPE, www.cdc.gov/ebola/diseases/
- CDC Health Care Worker Infection Control and Prevention (ICP) Guidance for Ebola Virus Disease – October 20, 2014, www.cdc.gov/ebola/diseases/infection-control/infection-control-guidance-for-ebola-virus-disease-10-20-14.html
- CDC/NIH/WHO guidance for cleaning and disinfection of Ebola Virus Disease (EVD) patient care areas, www.cdc.gov/ebola/diseases/infection-control/infection-control-guidance-for-ebola-virus-disease-10-20-14.html
- CDC/NIH/WHO guidance for cleaning and disinfection of Ebola Virus Disease (EVD) patient care areas, www.cdc.gov/ebola/diseases/infection-control/infection-control-guidance-for-ebola-virus-disease-10-20-14.html

IMPORTANT NOTES:

- During the doffing procedure an observer, depending on the type of PPE selected, should remain in the room with the patient and observe the patient's response to the PPE removal and doffing.
- A clean surface is not required for doffing PPE.

Place and doffing bag used PPE in large, leak-proof plastic bags. Secure all the sides until placed up to a fully protected container.

<input type="checkbox"/> Establish Hot Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing. If necessary, doffing area should be located as close to the Hot Zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and dislodge any visible contamination on PPE including gloves, boots, and an EPA-registered disinfectant. <input type="checkbox"/> Step into the bag first to prevent doffing and remove any visible contamination using 10% household bleach solution (see 100 ppm bleach) and use 100 ppm bleach. <input type="checkbox"/> As soon as PPE is doffed, step into leak-proof plastic bag prepared earlier for that purpose. your GREATEST RISK of exposure.

Step 2. Inspect

<input type="checkbox"/> Step 4. Remove Apron if worn	<input type="checkbox"/> To avoid contaminating gloves, roll apron from inside when user is outside.
<input type="checkbox"/> Step 4. Inspect	<input type="checkbox"/> Inspect PPE ensemble again. Look for visible contamination, cuts or tears. <input type="checkbox"/> If visibly contaminated, dislodge using EPA-registered disinfectant wipe.
<input type="checkbox"/> Step 4. Dislodge Outer Gloves	<input type="checkbox"/> Use EPA-registered disinfectant wipe or ABHR. Allow to dry.
<input type="checkbox"/> Step 5. Remove Boot or Shoe Covers	<input type="checkbox"/> Sit down to prevent falling. Avoid legs touching each other. <input type="checkbox"/> While seated, remove and discard boot or shoe covers. - Hands must be washed continuously for the removal of boot covers.
<input type="checkbox"/> Step 5. Dislodge and Remove Outer Goggles	<input type="checkbox"/> Dislodge outer-glove hands with other an EPA-registered disinfectant wipe (SE ABHR). <input type="checkbox"/> Remove and discard outer gloves, using care NOT to contaminate inner gloves. <input type="checkbox"/> Do not swap gloves, causing spray. Peel glove inside out, containing first glove from one hand inside second glove from other hand.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

203

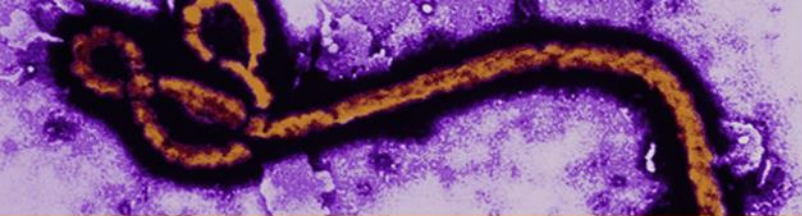


Inspect

Step 2

- **Disinfect potentially contaminated PPE** using an EPA-registered disinfectant wipe . . .
 - OR an **EPA-registered disinfectant spray** (if conditions permit and appropriate regulations are followed)





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**



Disinfect **outer** gloves

Step 3

- Use EPA-registered disinfectant wipe **OR** ABHR.
- Allow to dry.

SUIT UP OR STAND BACK. **FIRST RESPONDERS HOW TO DOFF PPE USING PAPR**
POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring on-site use of PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning + Doffing PPE* (published November 13, 2014)
 • CDC training videos for donning and doffing PPE: <https://www.cdc.gov/media/releases/2014/s141113-ebola-ppe.html>
 • CDC Manual Center for Emergency and Service (EMS) Systems and A.L. Pardo, *Early Donning (EAD) (PPE) Management of Ebola and Other Airborne/Contact Transmissible Diseases* (October 2014) - <https://www.cdc.gov/emergency-preparedness-response-recovery/ebola-prevention/ppe-management-ppe-use.html>
 • CDC Manual of Personal Protective Equipment (PPE) for Healthcare Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals, *Acquiring Procedures for Putting On, Cleaning and Removing Clothing* - October 20, 2014. <https://www.cdc.gov/media/releases/2014/s141020-ebola-ppe.html>

IMPORTANT NOTES:
 • Donning and doffing procedures are different, depending on the type of PPE selected.
 • A Trained Observer to verify and document successful compliance with the protocol is required for proper PPE donning and doffing.

Place and double bag used PPE in large (33-gallon or larger) leak-proof plastic bags. Secure all the access until picked up by a State-licensed contractor.

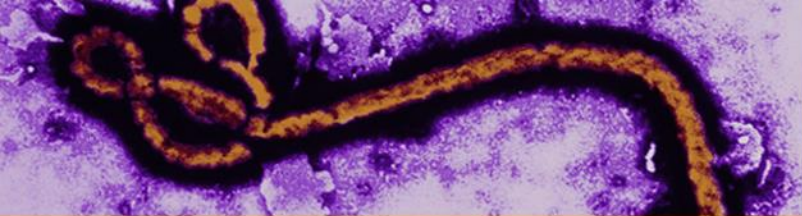
<input type="checkbox"/> Established Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to donning. <input type="checkbox"/> If necessary, doffing area should be located as close to the hot zone as safely feasible and set up prior to beginning the donning process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and disinfect any visible contamination on PPE including gloves, boots, using an EPA-registered disinfectant. <input type="checkbox"/> Step into the pool set up prior to doffing and remove any visible contamination using 10% bleach solution and/or hand sanitizer. <input type="checkbox"/> As used PPE is doffed, drop into leak-proof plastic bags prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your LAST STEP of egress.
	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer.

Step 3. Disinfect Outer Gloves

<input type="checkbox"/> Step 4: Inspect	<input type="checkbox"/> Inspect PPE, including gloves, using an EPA-registered disinfectant wipe. <input type="checkbox"/> If visibly contaminated, disinfect using EPA-registered disinfectant wipe.
<input type="checkbox"/> Step 5: Disinfect Outer Gloves	<input type="checkbox"/> Use EPA-registered disinfectant wipe or ABHR. Allow to dry.
<input type="checkbox"/> Step 7: Remove Boot or Shoe Covers	<input type="checkbox"/> Be sure to prevent footing. Avoid high touching each other. <input type="checkbox"/> While seated, remove and discard boot or shoe covers. <input type="checkbox"/> Remembering to use DISINFECT or sanitizer.
<input type="checkbox"/> Step 9: Disinfect and Remove Outer Gloves	<input type="checkbox"/> Disinfect outer-glove hands with either an EPA-registered disinfectant wipe OR ABHR. <input type="checkbox"/> Remove and discard outer gloves, being care NOT to contaminate inner glove. <input type="checkbox"/> Do not snap gloves, making spray. Put glove holder set, containing all glove from one hand inside second glove from other hand.

PAPR doffing Page 4 of 2

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 205



Step 4

Remove apron (if used)

- Remove and discard apron.
- To avoid contaminating gloves, roll apron from **inside** (clean side) to outside.

SUIT UP OR STAND BACK. FIRST RESPONDERS HOW TO DOFF PPE USING PAPP POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring on-site use of PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction First Responder Donning + PPE Protocol (published November 13, 2014)
 • CDC training video for donning and doffing PPE (www.cdc.gov/ebola/ehp/ehp.html)
 • CDC Manual Center for Emergency and Services (EMS) System and A.L. Papp's Safety Assessment Model (SAM) (Management of Response and Response to Respiratory Crisis (MRC) Manual or the CDC's Donning + Doffing PPE Manual, published in 2014)
 • CDC's Standardized PPE Donning and Doffing Protocol (www.cdc.gov/ebola/ehp/ehp.html)
 • CDC's Standardized PPE Donning and Doffing Protocol (www.cdc.gov/ebola/ehp/ehp.html)
 • CDC's Standardized PPE Donning and Doffing Protocol (www.cdc.gov/ebola/ehp/ehp.html)

IMPORTANT NOTES:
 • Donning and doffing procedures are different, depending on the type of PPE selected.
 • A Trained Observer to verify and document successful compliance with the protocol is required for proper PPE donning and doffing.

Place and double bag used PPE in large (33 gallon or larger) leak-proof plastic bags. Secure at the scene until picked up by a State-licensed contractor.

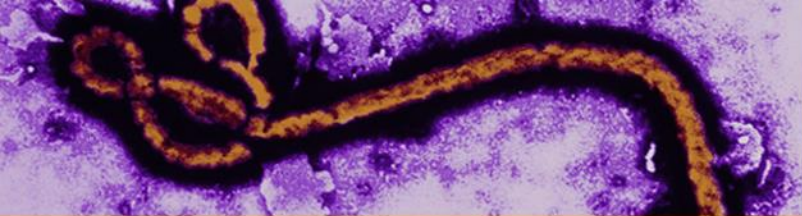
<input type="checkbox"/> Established Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to donning. <input type="checkbox"/> If necessary, doffing area should be located as close to the Red Zone as safely feasible and set up prior to beginning the donning process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and decontaminate any visible contamination on PPE including gloves, boots, and/or EPA-registered disinfectant. <input type="checkbox"/> Step into the pool set up prior to donning and remove any visible contamination using 10% bleach solution and/or hand sanitizer. <input type="checkbox"/> As used PPE is doffed, drop into leak-proof plastic bags prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your LAST STEP of egress.
	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and

Step 4. Remove Apron (if used)

<input type="checkbox"/> Step 4: Inspect	<input type="checkbox"/> Inspect PPE (respirator, gloves, gown, hat, shoe coverings, suit or coveralls) for any visible contamination. Decontaminate using EPA-registered disinfectant wipe.
<input type="checkbox"/> Step 5: Distinct Outer Gloves	<input type="checkbox"/> Use EPA-registered disinfectant wipe on ADNR. Allow to dry.
<input type="checkbox"/> Step 7: Remove Boot or Shoe Covers	<input type="checkbox"/> Be sure to prevent falling. Assist with touching each other. <input type="checkbox"/> While seated, remove and discard boot or shoe covers. <input type="checkbox"/> Hand sanitizer use is not required for this step.
<input type="checkbox"/> Step 8: Distinct and Remove Outer Gloves	<input type="checkbox"/> Distinct outer-glove hands with either an EPA-registered disinfectant wipe OR ADNR. <input type="checkbox"/> Remove and discard outer gloves, being care NOT to contaminate inner glove. <input type="checkbox"/> Do not snap gloves, making spray. First glove holder set, containing dirt glove from one hand inside second glove from other hand.

PAPP Safety Page 1 of 2

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
206



Inspect

Step 5

- Inspect your PPE ensemble **again**.
- Look for **visible contamination, cuts or tears**.
- If visibly contaminated, **disinfect affected PPE** using an EPA-registered disinfectant wipe.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DOFF PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring on-site use of PPE.


HOW TO USE: This document should be used by Trained Observers and First Responders in conjunction with:
 • The instruction *First Responder Donning + Doffing PPE* (published November 13, 2014)
 • CDC training video for donning and doffing PPE: <https://www.cdc.gov/media/releases/2014/s141113-ebola-ppe.html>
 • CDC interim guidance for Emergency Use of Zosyn (ZM0) (version 4.1) Part 4: Safety (covering donning + doffing) (last updated 10/20/14) <https://www.cdc.gov/media/releases/2014/s141020-ebola-zosyn.html>
 • CDC's guidance on Personal Protective Equipment (PPE) for Health-Care Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals, including Procedures for Putting on, Doffing and Removing Clothing (October 20, 2014) <https://www.cdc.gov/media/releases/2014/s141020-ebola-ppe.html>

IMPORTANT NOTES:
 • Doffing and doffing procedures are different, depending on the type of PPE selected.
 • A Trained Observer to verify and document reasonable compliance with the protocol is required for proper PPE doffing and doffing.

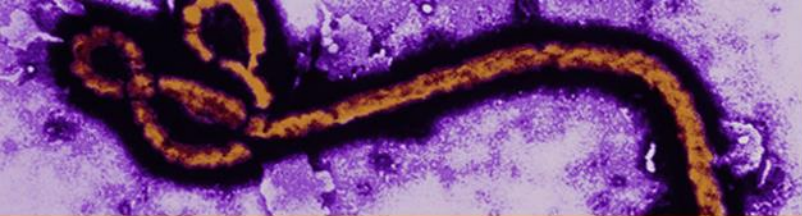
Place and double bag used PPE in large (33-gallon or larger leak-proof plastic bags. Secure all the access until picked up by a State-licensed contractor.

<input type="checkbox"/> Establish a Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing. <input type="checkbox"/> If necessary, doffing area should be located as close to the hot zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and disinfect any visible contamination on PPE including gloves, boots, and an EPA-registered disinfectant. <input type="checkbox"/> Step into the pool set up prior to doffing and remove any visible contamination using 10% bleach solution and 70% alcohol-based hand sanitizer. <input type="checkbox"/> As used PPE is doffed, drop into leak-proof plastic bags prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your LAST STEP of egress.
<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who marks each step of the procedure and visually checks and documents that PPE is removed properly. <input type="checkbox"/> Trained Observer: - This is usually the person who provides assistance that allows doff of egress, such as holding the box. - This includes holding the bag open or holding the PPE until the doffing process. - May assist with removal of specific components of PPE, as outlined below. - Includes who provides assistance that holds the PPE in the doffing process.
<input type="checkbox"/> Step 2. Inspect	<input type="checkbox"/> Inspect PPE for visible contamination, cuts or tears. <input type="checkbox"/> Disinfect potentially contaminated PPE using an EPA-registered disinfectant wipe or spray at twice the contact time and exposure frequency as directed.
<input type="checkbox"/> Step 3. Disinfect Outer Gloves	<input type="checkbox"/> Disinfect outer-glove hands with either an EPA-registered disinfectant wipe (20 alcohol-based hand rub option). Allow to dry.

Wearing gloves, roll apron from inside away from outside.
Remove apron. Look for visible contamination, cuts or tears.
Disinfect. Disinfect using EPA-registered disinfectant wipe.
Roll and disinfect glove or ADNR. Allow to dry.
Roll ending. Avoid high touching each other.
Shoes and discard boot or shoe covers.
 Disinfect boot ends to the ankles of boot covers.
Shower hands with either an EPA-registered disinfectant wipe (20 ADNR) or alcohol-based hand sanitizer. Do not use hand sanitizer if hands are contaminated with Ebola virus.
Wipe casing spray. PPE glove holder set, containing roll gloves from one hand inside the other hand.

 Step 5. Inspect

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 207



Disinfect **outer** gloves

Step 6

- Disinfect **outer**-gloved hands using an EPA-registered disinfectant wipe **OR** ABHR and allow to dry.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DOFF PPE USING PAPP POWERED AIR PURIFYING RESPIRATORS

Trained Observer: _____ Date: _____

Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring on-site use of PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:

- The instructions First Responder Donning + PPE Worksheet (dated November 13, 2014)
- CDC training videos for donning and doffing PPE: www.cdc.gov/ebola
- CDC Manual Center for Emergency Medical Services (EMS) System and U.S. Public Safety Answering Point (PSAP) Management of Response and Rescue in Quarantine Case (last updated on 08/20/2014) - www.cdc.gov/ebola
- Manuals, guidelines, and other documents regarding infection control and public health emergency response (e.g., www.cdc.gov/ebola)
- CDC Manual of Personal Protective Equipment (PPE) for Health Care Workers During Management of Patients with Ebola Virus in U.S. Hospitals, including Procedures for Putting on (Donning) and Removing (Doffing) October 20, 2014. www.cdc.gov/ebola

IMPORTANT NOTES:

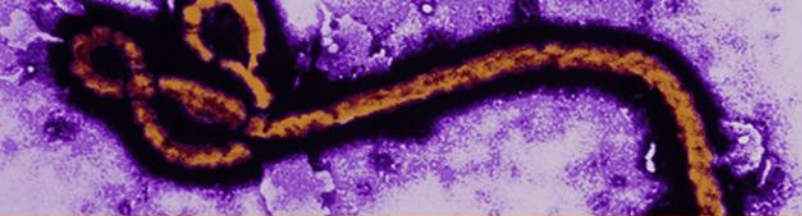
- Donning and doffing procedures are different, depending on the type of PPE selected.
- A Trained Observer is to verify and document successful compliance with the protocol to implement proper PPE donning and doffing.

Place and double bag used PPE in large (33 gallon or larger) leak-proof plastic bags. Secure all the access until picked up by a state-licensed contractor.

<input type="checkbox"/> Established Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing. If necessary, doffing area should be located as close to the Red Zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and decontaminate any visible contamination on PPE including gloves/hands, using an EPA-registered disinfectant. <input type="checkbox"/> Step into the pool set up prior to doffing and remove any visible contamination using 10% bleach solution (use 1 part bleach/9 parts water for 10% solution). <input type="checkbox"/> As used PPE is doffed, drop into leak-proof plastic bags prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your LASTEST STEP of response.
<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who marks about each step of the procedure and visually confirms any documents that PPE is removed properly. <input type="checkbox"/> Trained Observer: <ul style="list-style-type: none"> Do not touch PPE, except First Responder is instructed to allow them off of person, such as holding the box. Do not touch anything that responder or patient will touch during the doffing process. May assist with removal of specific components of PPE, as instructed. Minimize risk of contact with anything that responder or patient will touch during the doffing process.
<input type="checkbox"/> Step 2. Inspect	<input type="checkbox"/> Inspect PPE for visible contamination, cuts or tears. <input type="checkbox"/> Decontaminate potentially contaminated PPE using an EPA-registered disinfectant wipe or spray at twice concentration and minimum exposure as indicated.
<input type="checkbox"/> Step 3. Disinfect Outer Gloves	<input type="checkbox"/> Disinfect outer-gloved hands with either an EPA-registered disinfectant wipe (2) alcohol-based hand rub (when available). Allow to dry.

 Step 6. Disinfect Outer Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.
BACK.



Remove boot or shoe covers

Step 7

- Sit down so you don't risk falling.
 - **Avoid** legs touching each other.
- While seated, **remove** and **discard boot or shoe covers**.
 - Check boot cover manufacturer for additional removal instructions.

SUIT UP. OR STAND BACK. **HOW TO DOFF PPE USING PAPR** **POWERED AIR PURIFYING RESPIRATORS**

FIRST RESPONDER
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring on-site use of PPE.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:

- The instruction *First Responder Donning + PPE Worksheet* (dated November 13, 2014)
- CDC training video for donning and doffing PPE: <https://www.youtube.com/watch?v=8j0k0k0k0k0>
- The Manual Center for Emergency and Services (MCE) System and U.S. Public Safety Answering Point (PSAP) Management of Response and Rescue - Respiratory Care (document ID: 2014-2015-0001) - <https://www.fda.gov/oc/ohrt/management-of-response-and-rescue-respiratory-care>
- <https://www.fda.gov/oc/ohrt/management-of-response-and-rescue-respiratory-care>

CDC Center for Personal Protective Equipment | U.S. Center for Healthcare Worker Safety Management of Patients with Close Proximity to U.S. Inpatient, including Procedures for Putting On, Cleaning and Removing Clothing | October 20, 2014


IMPORTANT NOTES:

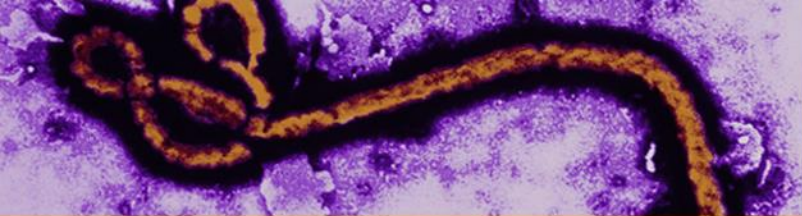
- Donning and doffing procedures are different, depending on the type of PPE involved.
- A Trained Observer to verify and document removal compliance with the protocol is required for proper PPE donning and doffing.

Place and double bag used PPE in large (33 gallon or larger) leak-proof plastic bags. Secure all the access until pickup up to a state-licensed contractor.

<input type="checkbox"/> Establish Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to donning. If necessary, doffing area should be located as close to the Red Zone as safely feasible and set up prior to beginning the donning process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and decontaminate any visible contamination on PPE including gloves, hoods, using an EPA-registered disinfectant.
<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Step into the pool set up prior to donning and remove any visible contamination using 10% bleach solution. Do not touch contaminated areas or your face.
<input type="checkbox"/> Step 2. Inspect	<input type="checkbox"/> As used PPE is doffed, drop into leak-proof plastic bags prepared earlier for that purpose.
<input type="checkbox"/> Step 3. Dismantle Outer Gloves	<input type="checkbox"/> Remember: Doffing is your LASTEST step of egress.
<input type="checkbox"/> Step 4. Remove Apron if worn	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who marks about each step of the procedure and visually certifies any documents that PPE is removed properly.
	<input type="checkbox"/> Trained Observer: This is during PPE removal, First Responders must maintain activities that involve OR of egress, such as heading the box, must maintain working PPE throughout the entire PPE doffing and egress process. Do not touch any part of your face, including your eyes, nose, mouth, or skin, while wearing PPE.
	<input type="checkbox"/> Inspect PPE for visible contamination, cuts or tears.
	<input type="checkbox"/> Decontaminate potentially contaminated PPE using an EPA-registered disinfectant wipe or spray at twice the contact time and exposure frequency as directed.
	<input type="checkbox"/> Discard outer-glove hoods with either an EPA-registered disinfectant wipe (30 alcohol-based hand rub down). Allow to dry.
	<input type="checkbox"/> To avoid contaminating gloves, risk apron from inside when use to outside.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html

 **Step 7. Remove Boot or Shoe Covers**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 209



Disinfect and **remove** **outer** gloves

Step 8

- Disinfect **outer**-gloved hands.
 - Use an EPA-registered disinfectant wipe **OR** ABHR.

SUIT UP. OR STAND BACK. FIRST RESPONDERS HOW TO DOFF PPE USING PAPR POWERED AIR PURIFYING RESPIRATORS

First Responder: _____ Date: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and ensuring no leaks occur.

NOTE TO USER: This document should be used by Trained Observers and First Responders in conjunction with:

- The instruction *First Responder Donning + Doffing PPE* (published November 13, 2014)
- CDC training cards for donning and doffing PPE: www.cdc.gov/ebola
- CDC Manual Center for Emergency Use of Services (EMU) System and U.S. Public Safety Answering Point (PSAP) Management of Response and Recovery - Respiratory Care (last revised on 03/05/2014) - www.cdc.gov/epidemiology-prevention-control/disease-prevention/emergency-preparedness-response-recovery/ebola-prevention/management-of-response-and-recovery-respiratory-care.html
- CDC's Center for Personal Protective Equipment, *Guidance for Healthcare Workers During Management of Patients with Ebola Virus Disease in U.S. Hospitals*, including Procedures for Putting on (Donning) and Removing (Doffing) - October 20, 2014. www.cdc.gov/media/releases/2014/s102014ebola.html

IMPORTANT NOTES:

- Donning and doffing procedures are different, depending on the type of PPE selected.
- A Trained Observer to verify and document successful compliance with the protocol is required for proper PPE donning and doffing.

Place and double bag used PPE in large (33 gallon or larger) leak-proof plastic bags. Secure all the access until picked up by a state-licensed contractor.

<input type="checkbox"/> Establish Work Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to donning. <input type="checkbox"/> If necessary, doffing area should be located as close to the Red Zone as safely feasible and set up prior to beginning the donning process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and decontaminate any visible contamination on PPE including gloves, boots, and an EPA-registered disinfectant. <input type="checkbox"/> Step into the pool set up prior to doffing and remove any visible contamination using 10% bleach solution. <input type="checkbox"/> As used PPE is doffed, drop into leak-proof plastic bags prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your LAST STEP of response.
<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who marks each step of the procedure and visually confirms any documents that PPE is removed properly. <input type="checkbox"/> Trained Observer: - Must be wearing PPE, which First Responders is instructed to verify that before donning the PPE. - May assist with removal of specific components of PPE, as outlined below. - Includes using good hand hygiene after the training of the responder, etc.
<input type="checkbox"/> Step 2. Inspect	<input type="checkbox"/> Inspect PPE for visible contamination, cuts or tears. <input type="checkbox"/> Decontaminate potentially contaminated PPE using an EPA-registered disinfectant wipe or spray at twice the contact time and minimum exposure as indicated.
<input type="checkbox"/> Step 3. Decontaminate Outer Gloves	<input type="checkbox"/> Decontaminate outer-gloved hands with either an EPA-registered disinfectant wipe (30 alcohol-based hand rub option). Allow to dry.
<input type="checkbox"/> Step 4. Remove Apron if worn	<input type="checkbox"/> To avoid contaminating gloves, roll apron from inside away from outside.

Step 8. Disinfect and Remove Outer Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

210

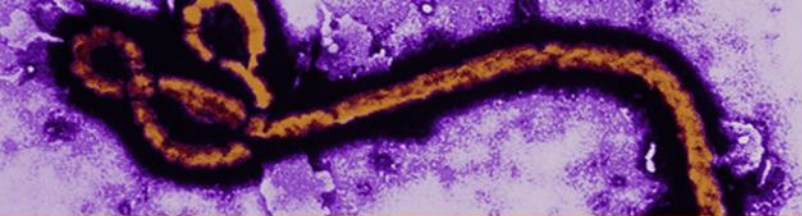
Disinfect and **remove outer gloves**

Step 8



- Remove and **discard outer** gloves.
- Be careful **NOT** to contaminate inner glove.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Step 9

Inspect and disinfect inner gloves

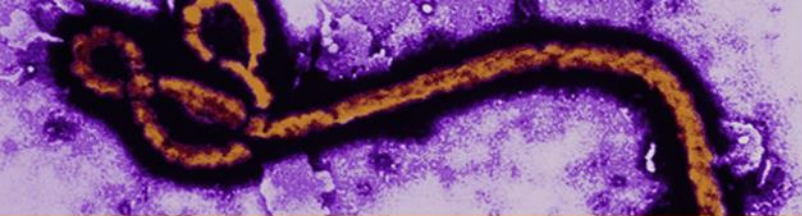
- Inspect **inner** gloves' **outer** surfaces for **visible** contamination, cuts or tears.

<input type="checkbox"/> Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner gloves' outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Disinfect with either an EPA-registered disinfectant wipe OR alcohol. <ul style="list-style-type: none"> Remove inner gloves. <ul style="list-style-type: none"> Wash hands before and after. Discard inner gloves with 100% alcohol disinfectant wipe OR alcohol. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR alcohol.
<input type="checkbox"/> Step 10. Remove Respirator or PAPR	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and lower unit integrated inside the helmet, wait until Step 10 for removal. Go to Step 11 next. If using PAPR with an external tank-mounted lower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank first. Remove and store the respirator. Disinfect lower glove with either EPA-registered disinfectant wipe OR alcohol. Remove the helmet, then lifting the head and rolling it off. The top edge of the helmet from the Taped Closure 2. Disinfect lower glove with either EPA-registered disinfectant wipe OR alcohol. Place or discard both components in a designated container or collection.
<input type="checkbox"/> Step 11. Remove Coverall	<ul style="list-style-type: none"> Turn head back. CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two on fingers of one hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside out as you go. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside (inner side) of the coverall.
<input type="checkbox"/> Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR alcohol.
<input type="checkbox"/> Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Use on a non-sterile surface (e.g., second clean cloth, one side of a towel). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 14. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR alcohol. If using a PAPR with self-contained filter and lower unit that is integrated inside the helmet, remove

Step 9. Inspect and Disinfect Inner Gloves

<input type="checkbox"/> Step 15. Scrubs	<ul style="list-style-type: none"> Use on non-sterile surface (e.g., second clean cloth, one side of a towel). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 20. Shower	<ul style="list-style-type: none"> Shower with recommendation for those: <ul style="list-style-type: none"> Participating in patient care (e.g., spend in large quantities of time, body fluids or secretions). Spending extended periods of time with the patient.
<input type="checkbox"/> Step 21. Perform Exit/Return Medical Assessment	<ul style="list-style-type: none"> Either the infection prevention or occupational safety and health coordinator or their designee must meet with the first responder to review patient care activities performed to identify any concerns about care practices and to meet first responder's need of fatigue.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

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Inspect and disinfect **inner** gloves

Step 9



- IF an inner glove is **visibly soiled, cut or torn**:
 - **Disinfect** the glove with either an **EPA-registered disinfectant wipe** **OR** **ABHR**.
 - **Remove** inner gloves and perform **hand hygiene** with **ABHR** on **bare hands**.
 - **Don a clean pair of gloves**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

213

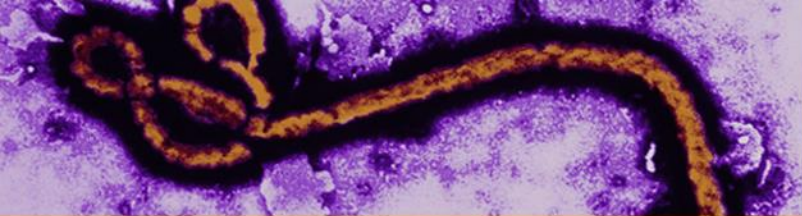


Inspect and disinfect **inner** gloves

Step 9

- **IF no visible contamination, cuts, or tears** are identified on the inner gloves:
 - Disinfect the **inner-gloved hands** with either an **EPA-registered disinfectant wipe** **OR ABHR**.





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SUIT UP.
OR **STAND BACK.**

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Remove PAPR respirator | Step 10

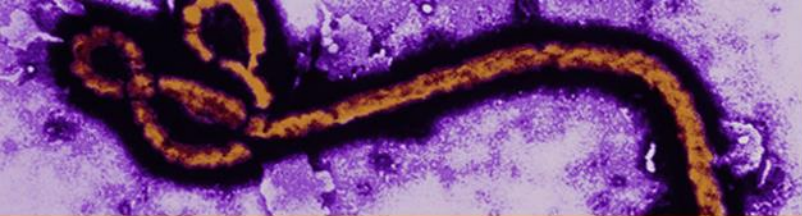
Remember: **Two (2)** types of recommended PAPR

- PAPR with a self-contained filter and blower unit integrated inside the helmet – wait until **Step 15** for removal.
- **Go to Step 11 now.**
- If a PAPR with an external belt-mounted blower unit is used, all components must be removed **at this step.**
 - Detach hose from hood. Remove and discard disposable hood.
 - Disinfect inner gloves with either an EPA-registered disinfectant wipe **OR** ABHR.
- Remove headpiece, blower, tubing and the belt and battery unit.
 - You may need assistance from the Trained Observer.
- Disinfect inner gloves **AGAIN.**
- Place all reusable PAPR in **designated container** for disinfection.

SOURCE: CDC

www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and

www.cdc.gov/vhf/ebola/hcp/ppe-



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SUIT UP.
OR **STAND BACK.** 215



Remove coverall

Step 11

- Tilt head back.
- **CAREFULLY** reach under the PAPR hood to locate zipper or fasteners.
 - Avoid touching your skin.
 - Using two (2) fingers of one (1) hand only, unzip or unfasten coverall **completely**.
 - Roll coverall downward, turning **inside** (clean-side) **out**.

Step 9. Inspect and Dismantle Inner Goggles	<ul style="list-style-type: none"> Inspect the inner gloves' outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner gloves are visibly soiled, cut or torn. <ul style="list-style-type: none"> Dispose with care in EPA-registered decontamination bag (DE-ABM). Remove inner gloves. If no visible contamination, cuts or tears are identified on inner gloves, dismantle inner-gloves hands with other EPA-registered decontamination wipe (DE-ABM).
Step 10. Remove Respirator Lens	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 11 next. If using PAPR with an external tank-supplied blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank, hoses, blower unit and filter components. Detach inner gloves with other EPA-registered decontamination wipe (DE-ABM). Detach and remove hoses, blower unit and filter unit. This step requires assistance from the Trained Observer. Detach inner gloves with other EPA-registered decontamination wipe or ABM (glo). Place all reusable tank components in a designated container or collection.
Step 11. Remove Coverall	<ul style="list-style-type: none"> Tilt head back. CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two on fingers of one or hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside clean-side out. Avoid contact of soiled or disposable garments with outer surface of coverall. Roll ONLY the inside (clean-side) of the coverall.
Step 12. Dismantle Inner Gloves	<ul style="list-style-type: none"> Dismantle inner gloves again with other an EPA-registered decontamination wipe (DE-ABM).
Step 13. Dismantle Wristband	<ul style="list-style-type: none"> Set on a non-sterile surface (e.g., second clean sheet, clean side of a sheet). Using an EPA-registered decontamination wipe, wipe down every external surface, including sides, of reusable wristband. Avoid touching wristband.
Step 14. Dismantle Inner Socks	<ul style="list-style-type: none"> Dismantle inner gloves again with other an EPA-registered decontamination wipe (DE-ABM).
Step 15. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove or discard disposable tank. Dismantle inner gloves (glo) with EPA-registered decontamination wipe (DE-ABM). Remove inner gloves with care. Do not contaminate inner gloves. Do not contaminate inner gloves. Remove inner gloves with care. <ul style="list-style-type: none"> Remove inner gloves with care. Right before assistance from the Trained Observer.
Step 16. Dismantle and Remove Inner Goggles	<ul style="list-style-type: none"> Use EPA-registered decontamination wipe (DE-ABM). CAREFULLY remove and discard inner gloves. Do not touch gloves, causing spray. Peel gloves inside out, containing first glove from one hand (right), second glove from other hand. Do not contaminate inner gloves. Do not touch face or eyes area.
Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABM.
Step 18. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
Step 19. Scrub	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable boot and surgical scrubs or disposable garments.
Step 20. Shower	<ul style="list-style-type: none"> Showers are recommended for those: <ul style="list-style-type: none"> Performing higher-level tasks (e.g., removal of large quantities of stool, body fluids or secret). Working extended periods of time with the patient.
Step 21. Perform Exit/Entry	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html

Step 11. Remove Coverall



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SUIT UP.
OR **STAND BACK.**

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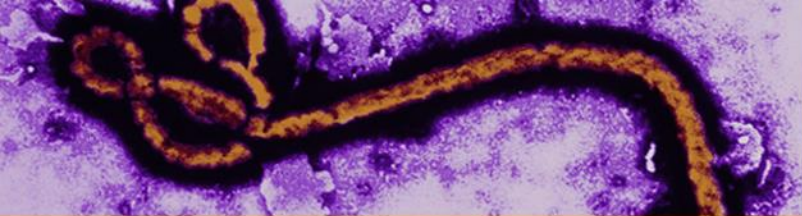


Remove coverall

Step 11

- **Avoid contact** of surgical scrubs or disposable garments with **outer surface** of coverall.
- Touch **ONLY** the **inside** (clean side) of the coverall.





EBOLA:
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SUIT UP.
OR **STAND BACK.** 217



Disinfect **inner** gloves **AGAIN**

Step 12

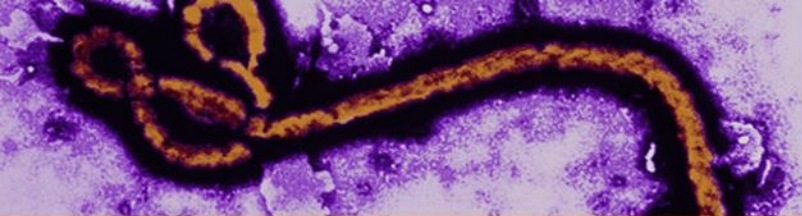
- Disinfect **inner** gloves with either an EPA-registered disinfectant wipe **OR** ABHR.

Step 9. Impact and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> Disinfect with either an EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> Remove hand hygiene with ABHR on inner hands. Do a clean pair of gloves. If inner glove is visibly soiled, cut or torn. <ul style="list-style-type: none"> Remove hand hygiene with ABHR on inner hands. Do a clean pair of gloves. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> Remove hand hygiene with ABHR on inner hands. Do a clean pair of gloves.
Step 10. Remove Respirator	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 13 for removal. Go to Step 11 next. If using PAPR with an external tank-supplied blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank first. Remove the filter and disposable hood. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR. Remove hand hygiene with ABHR on inner hands. Do a clean pair of gloves. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR (gloves). Place all reusable tank components in a designated container or collection.
Step 11. Remove Coverall	<ul style="list-style-type: none"> WE HEAD BACK. CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two or fingers of one or hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside out as you go. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside (inner side) of the coverall.
Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR ABHR.
Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Use of a non-slip shoe surface (e.g., second clean pair, clean side of a boot). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
Step 14. Disinfect Inner Socks	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR ABHR.
Step 15. Remove Respirator (if not already done)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove and discard disposable hood. Remove hand hygiene with ABHR on inner hands. Do a clean pair of gloves. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR. Remove hand hygiene with ABHR on inner hands. Do a clean pair of gloves. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR (gloves). Place all reusable tank components in a designated container or collection.
Step 16. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe OR ABHR. CAREFULLY remove and discard inner gloves. Do not touch gloves, causing spray. Peel glove inside out, containing first glove from one hand (right), second glove from other hand. Do NOT contaminate bare hands. Do not touch face or bare skin.
Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABHR.
Step 18. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
Step 19. Scrub	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable boot and surgical scrubs or disposable garments.
Step 20. Shower	<ul style="list-style-type: none"> Showers are recommended for those: <ul style="list-style-type: none"> Performing higher patient care (e.g., wound or large quantity of blood, body fluids or secret). Working extended periods of time with these patients.
Step 21. Perform Exit/Entry	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee

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Step 12. Disinfect Inner Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



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SUIT UP.
OR STAND BACK.



Disinfect washable shoes | Step 13

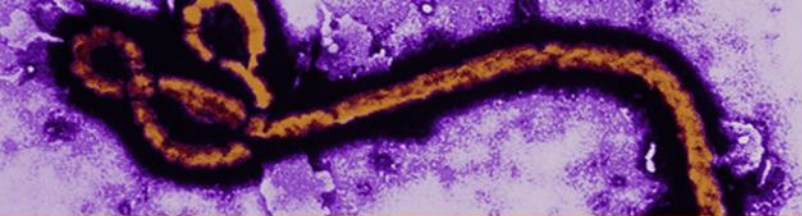
- Sit on a **new, clean** surface.
- Using an **EPA-registered disinfectant wipe**, wipe down **every external surface**, including soles, of your **washable shoes**.
- **Avoid touching ankles.**

Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or tear. <ul style="list-style-type: none"> Disinfect with either an EPA-registered disinfectant wipe OR alcohol. Remove inner glove. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR alcohol.
Step 10. Remove Respirator Lens	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 11 next. If using PAPR with an external tank-supplied blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank, hose, blower and filter components. Disinfect inner glove with either EPA-registered disinfectant wipe OR alcohol. Remove tank, hose, blower and filter unit. This step may require assistance from the Trained Observer. Disinfect inner glove with either EPA-registered disinfectant wipe OR alcohol. Place all reusable tank components in a designated container or collection.
Step 11. Remove Coverall	<ul style="list-style-type: none"> BE HEAD BACK. CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two or fingers of one hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside out as you go. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside (inner side) of the coverall.
Step 12. Disinfect Inner Socks	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR alcohol.
Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Sit on a new, clean surface (e.g., second clean chair, clean side of a bench). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
Step 14. Disinfect Inner Socks	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR alcohol.
Step 15. Remove Respirator (if not already done)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove and discard disposable tank. Disinfect inner glove again with EPA-registered disinfectant wipe OR alcohol. Remove tank, hose, blower and filter unit. This step may require assistance from the Trained Observer. Disinfect inner glove with either EPA-registered disinfectant wipe OR alcohol. Do NOT contaminate tank, hose, blower or filter unit. If using a PAPR with external tank-supplied blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove and discard disposable tank. Disinfect inner glove again with EPA-registered disinfectant wipe OR alcohol. Remove tank, hose, blower and filter unit. This step may require assistance from the Trained Observer. Disinfect inner glove with either EPA-registered disinfectant wipe OR alcohol. Do NOT contaminate tank, hose, blower or filter unit.
Step 16. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe OR alcohol. CAREFULLY remove and discard inner gloves. Do not touch gloves, including soles. Peel glove inside out, containing first glove from one hand (right), second glove from other hand. Do NOT contaminate inner hands, do not touch face or neck area.
Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with alcohol.
Step 18. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
Step 19. Scrubs	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable footwear and surgical scrubs or disposable garments.
Step 20. Shower	<ul style="list-style-type: none"> Showers are recommended for those: <ul style="list-style-type: none"> Performing higher patient care (e.g., intubation or large quantities of blood, body fluids or secretions). Exposing themselves to the virus in the patient.
Step 21. Perform Exit/Entry	<ul style="list-style-type: none"> Either the infection prevention or occupational safety and health coordinator or their designee

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html

Step 13.

Disinfect Washable Shoes



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SUIT UP.
OR **STAND BACK.** 219



Disinfect **inner** gloves **AGAIN**

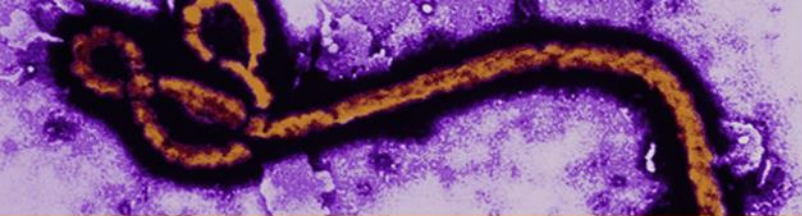
Step 14

- Use either an **EPA-registered disinfectant wipe** **OR** **ABHR**.

<input type="checkbox"/> Step 9. Impact and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or tear. <ul style="list-style-type: none"> Disinfect with either an EPA-registered disinfectant wipe OR ABHR. Remove inner glove. Perform hand hygiene with ABHR on inner hands. <ul style="list-style-type: none"> Does a clean pair of gloves. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 10. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 11 next. If using PAPR with an external tank-mounted blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Detach the tank from the helmet and place it on a disposable bag. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR. Detach the blower, hoses, piping, air filter and battery unit. (This step might require assistance from the Trained Observer.) Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR (gloves). Place all reusable parts in a designated container or collection.
<input type="checkbox"/> Step 11. Remove Coverall	<ul style="list-style-type: none"> With head back, CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two or fingers of one or hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside out as you go. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside (inner side) of the coverall.
<input type="checkbox"/> Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Set on a non-slip surface (e.g., second clean floor, clean side of a bench). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 14. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 15. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Detach and discard reusable tank. Detach inner glove (glove) with EPA-registered disinfectant wipe OR ABHR. Detach the blower and battery unit. (This step might require assistance from the Trained Observer.) Do NOT contaminate inner hands. Do NOT touch face or inner side. Perform hand hygiene with ABHR. <ul style="list-style-type: none"> Perform hand hygiene with ABHR. Does a clean pair of gloves.
<input type="checkbox"/> Step 16. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe OR ABHR. CAREFULLY remove and discard inner gloves. Do not touch gloves, causing spray. Peel glove inside out, containing first glove from one hand (glove) second glove from other hand. Do NOT contaminate inner hands. Do NOT touch face or inner side.
<input type="checkbox"/> Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABHR.
<input type="checkbox"/> Step 18. Impact	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
<input type="checkbox"/> Step 19. Scrub	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable boot and surgical scrubs or disposable garments.
<input type="checkbox"/> Step 20. Shower	<ul style="list-style-type: none"> Showers are recommended for those: <ul style="list-style-type: none"> Performing higher patient care (e.g., wound or large quantity of blood, body fluids or secretions). Working extended periods of time with the patient.
<input type="checkbox"/> Step 21. Perform Evaluation	<ul style="list-style-type: none"> Either the infection prevention or occupational safety and health coordinator or their designee

Step 14. Disinfect Inner Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



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SUIT UP.
OR STAND BACK.



Remove respirator (if not already removed)

Step 15

- If using a PAPR with a self-contained filter and blower unit integrated inside a helmet

Step 9. Impact and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> Disinfect with either an EPA-registered disinfectant wipe (EADW) or AHB. Remove inner gloves. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe (EADW) or AHB.
Step 10. Remove Respirator	<ul style="list-style-type: none"> If using a PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 11 next. If using a PAPR with an external, tank-supplied blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank from the helmet and place it on a disposable bag. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or AHB. Remove the tank from the helmet and place it on a disposable bag. Disinfect inner glove with either EPA-registered disinfectant wipe or AHB (EADW). Place all reusable tank components in a designated container or collection.
Step 11. Remove Coverall	<ul style="list-style-type: none"> Use back. CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two or fingers of one hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside coverall out. Avoid contact of zipper or disposable garments with outer surface of coverall. Throw ONLY the inside coverall in the container.
Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (EADW) or AHB.
Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Use of a non-slip surface (e.g., second clean floor, clean side of a street). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid tracking debris.
Step 14. Disinfect Inner Socks	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (EADW) or AHB.
Step 15. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove or discard disposable head. Disinfect inner glove (EADW) with EPA-registered disinfectant wipe (EADW) or AHB. Remove the tank from the helmet and place it on a disposable bag. Do not contaminate inner glove. Do not contaminate inner glove. Remove head (EADW) with EPA-registered disinfectant wipe (EADW) or AHB. <ul style="list-style-type: none"> Remove head (EADW) with EPA-registered disinfectant wipe (EADW) or AHB. Do not contaminate inner glove. Do not contaminate inner glove.
Step 16. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe (EADW) or AHB. CAREFULLY remove and discard inner gloves. Do not touch gloves, causing spray. Peel glove inside out, containing first glove from one hand (right) second glove from other hand. Do NOT contaminate inner hands. Do NOT touch face or inner side.
Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with AHB.
Step 18. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of scrubs or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
Step 19. Scrubs	<ul style="list-style-type: none"> First responder can leave PPE removal area wearing dedicated washable footwear and surgical scrubs or disposable garments.
Step 20. Shower	<ul style="list-style-type: none"> Showers are recommended for those: <ul style="list-style-type: none"> Performing higher-level tasks (e.g., respond to large quantities of stool, body fluids or secretions). Experiencing physical stress (e.g., heat, fatigue).
Step 21. Perform Post-removal	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee

Step 15. Remove Respirator

(if not already removed)

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

221



Remove respirator

(if not already removed)

Step 15

- **Remove all components.**
 - Remove and discard **disposable hood.**
 - **Disinfect inner gloves** (again) with either an EPA-registered disinfectant wipe **OR** ABHR.
 - **CAREFULLY** remove and **discard** inner gloves.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

222



Remove respirator

(if not already removed)

Step 15

- **Do NOT** contaminate **bare hands**.
 - Perform **hand hygiene** with ABHR.
 - **Don a NEW pair of inner gloves.**
- **Remove helmet and belt and battery unit.**
 - Get **assistance** from your **Trained Observer** if needed.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

223

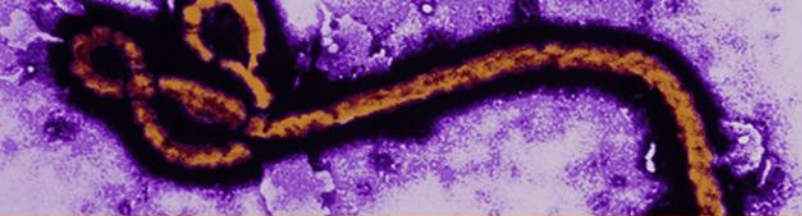
Disinfect and remove **NEW inner gloves**

Step 16



- Use an EPA-registered disinfectant wipe **OR ABHR.**
 - **CAREFULLY** remove and **discard inner gloves.**
 - Do **NOT** contaminate bare hands **OR touch face or bare skin.**





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SUIT UP.
OR STAND BACK.



Hand hygiene

Step 17

- Perform hand hygiene with ABHR.

Step 17. Perform Hand Hygiene



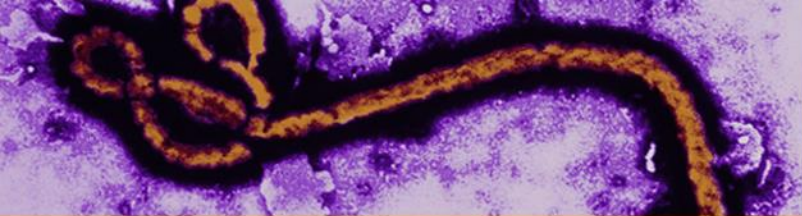
<input type="checkbox"/> Step 9. Inspect and Dismantle Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Disrupt with either an EPA-registered disinfectant wipe or ABHR. Remove inner glove. If no visible contamination, cuts or tears are identified on inner gloves, dismantle inner-gloved hands. Perform hand hygiene with ABHR on both hands. Don a clean pair of gloves.
<input type="checkbox"/> Step 10. Dismantle Wastable Shoes	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe. Wipe down every external surface, including soles, of wastable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 14. Dismantle Inner Goggles	<ul style="list-style-type: none"> Disrupt inner goggles with other an EPA-registered disinfectant wipe (DE ABHR).
<input type="checkbox"/> Step 14. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove and discard disposable head. Remove inner glove (glove) with EPA-registered disinfectant wipe (DE ABHR). Disrupt filter release on reusable respirator glove. Do not contaminate face mask. Perform hand hygiene with ABHR.
<input type="checkbox"/> Step 16. Dismantle and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe (DE ABHR). CAREFULLY remove and discard inner gloves. Do not touch gloves, catching straps. Peel glove inside out, containing first glove from one hand; tug the second glove from other hand. Do NOT contaminate face mask. Do NOT touch face or hair with.
<input type="checkbox"/> Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABHR.
<input type="checkbox"/> Step 18. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of scrubs or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
<input type="checkbox"/> Step 19. Scrubs	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated wastable footwear and surgical scrubs or disposable garments.
<input type="checkbox"/> Step 20. Shower	<ul style="list-style-type: none"> Showers are recommended for those: <ul style="list-style-type: none"> Performing higher patient care (e.g., wound or large quantities of blood, body fluids or secret). Working extended periods of time with the patient.
<input type="checkbox"/> Step 21. Perform Exit/Return Medical Assessment	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the First Responder to review patient care activities performed to identify any concerns about care practices and to record First Responder's level of fatigue.

SOURCE: CDC

www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html

and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html

www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK. 225



Inspect

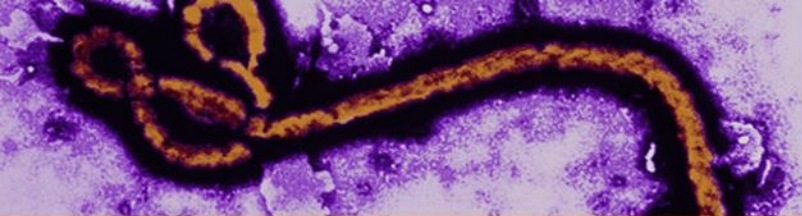
Step 18

- This is a **final inspection** for any contamination on your **surgical scrubs** or **disposable garments**.
- IF** contamination is identified, **immediately** notify your supervisor *before* leaving the PPE removal area.

Step 9. Inspect and Dismantle Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. If inner glove is visibly soiled, cut or tear. <ul style="list-style-type: none"> Disrupt with either an EPA-registered disinfectant wipe (EADW) or AHB. Remove inner glove. Perform hand hygiene with AHB or soap and water. If no visible contamination, cuts or tears are identified on inner glove, disinfect inner-glove hands with either EPA-registered disinfectant wipe (EADW) or AHB.
Step 10. Remove Respirator (if used)	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 13 next. If using PAPR with an external, tank-supplied blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank from the helmet and place in a designated area. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or AHB. Remove the blower, hoses, piping, air filter and delivery unit. This step requires assistance from the Trained Observer. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or AHB (if applicable). Place all reusable tank components in a designated container or collection.
Step 11. Remove Coverall	<ul style="list-style-type: none"> BE head back. CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two on fingers of one or hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside out as you roll. Avoid contact of zipper or disposable garments with outer surface of coverall. Throw ONLY the inside (inner side) of the coverall.
Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe (EADW) or AHB.
Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Set on a non-slip surface (e.g., second clean floor, clean side of a bench). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
Step 14. Disinfect Inner Socks	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe (EADW) or AHB.
Step 15. Remove Respirator (if not used)	<ul style="list-style-type: none"> If using a PAPR with self-contained filter and blower unit that is integrated inside the helmet, remove all components. <ul style="list-style-type: none"> Remove or discard disposable tank. Disinfect inner glove again with either EPA-registered disinfectant wipe (EADW) or AHB. Remove the blower, hoses, piping, air filter and delivery unit. This step requires assistance from the Trained Observer. Do NOT contaminate tank hands. Do NOT touch face or hair area. Perform hand hygiene with AHB or soap and water.
Step 16. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe (EADW) or AHB. CAREFULLY remove and discard inner gloves. Do not touch gloves, catching spray. Peel glove inside out, containing first glove from one hand (right), second glove from other hand. Do NOT contaminate hand hands. Do NOT touch face or hair area.
Step 17. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with AHB.
Step 18. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of scrubs or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
Step 19. Scrubs	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable footwear and surgical scrubs or disposable garments. Showers are recommended for those: <ul style="list-style-type: none"> Performing higher patient care (e.g., wound or large quantity of blood, body fluids or secretions) involving removal of PPE. Performing patient care in high-risk areas. Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the first responder to review patient care activities performed to identify any concerns about care practices and to meet first responder's need of fatigue.

Step 18. Inspect

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



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SUIT UP.
OR STAND BACK. 226



Scrubs OR disposable garments

Step 19

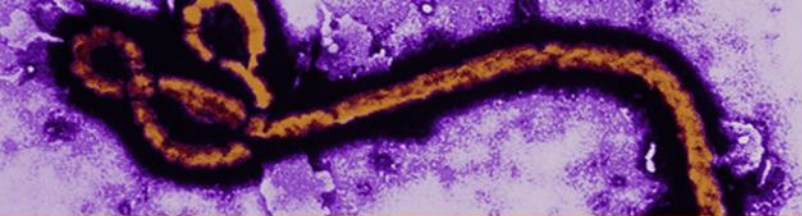
- You **can** leave the PPE removal area wearing **dedicated washable footwear and surgical scrubs or disposable garments.**

<input type="checkbox"/> Step 9. Impact and Disinfect Inner Goggles	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Disinfect with either an EPA-registered disinfectant wipe OR ABHR. Remove inner glove. Wash hands with soap and water. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR ABHR. Remove inner gloves.
<input type="checkbox"/> Step 10. Remove Respirator or PAPR	<ul style="list-style-type: none"> If using PAPR with a self-contained filter and blower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 11 next. If using PAPR with an external tank-supplied blower unit, all components must be removed at this step. <ul style="list-style-type: none"> Remove the tank first. Remove the filter or disposable unit. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR. Remove the blower, hoses, piping, air filter and delivery unit. This step requires assistance from the Trained Observer. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR (optional). Place all reusable tank components in a designated container or collection.
<input type="checkbox"/> Step 11. Remove Coverall	<ul style="list-style-type: none"> Turn back, CAREFULLY reach under the PAPR hood to locate zipper or fasteners. Using two on fingers of one hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside coverall out. Avoid contact of scrubs or disposable garments with outer surface of coverall. Throw ONLY the inside coverall in the container.
<input type="checkbox"/> Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Use a mop, clean surface (e.g., alcohol clean floor, shoe sole of a boot). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 14. Disinfect Inner Socks	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 15. Remove Respirator or PAPR (if not already done)	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> Remove and discard disposable unit. Disinfect inner glove again with either EPA-registered disinfectant wipe OR ABHR. Remove the blower, hoses, piping, air filter and delivery unit. This step requires assistance from the Trained Observer. Disinfect inner glove with either EPA-registered disinfectant wipe OR ABHR (optional). Place all reusable tank components in a designated container or collection. Remove inner gloves.
<input type="checkbox"/> Step 16. Disinfect and Remove Inner Goggles	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe OR ABHR. CAREFULLY remove and discard inner goggles. Do not touch gloves, causing spray. Peel glove inside out, containing first glove from one hand; tangle second glove from other hand. Place all reusable inner-glove hands, OR goggles, touch bars or bars, into... <ul style="list-style-type: none"> Wash goggles with ABHR. Place goggles in a designated container or collection.

Step 19. Scrubs

Wear scrubs with ABHR.
 Be alert for any indication of contamination of scrubs or disposable garments. Washable is identified. Immediately notify supervisor before exiting PPE removal area.
 Scrubs can leave PPE removal area wearing dedicated washable footwear and surgical scrubs with gloves.
 It is recommended that those who have patient care in a large number of rooms, body fluids or secretions, or other areas of the facility should wear scrubs.
 Infectious prevention or occupational safety and health coordinator or their designee should be consulted to review patient care activities performed to identify any potential concerns and to assist first responder's team of steps.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
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SUIT UP.
OR
STAND BACK.



Shower

Step 20

- **Showers** are recommended for those:
 - Performing high-risk patient care.
 - Spending extended periods of time with an Ebola patient.

<input type="checkbox"/> Step 9. Impact and Dismantle Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> Inspect with either an EPA-registered disinfectant wipe (EADW) or ABBW. Remove inner glove. If no visible contamination, cuts or tears are identified on inner glove, disinfect inner-glove hands with either EPA-registered disinfectant wipe (EADW) or ABBW. If using PAPR with a self-contained filter and shower unit integrated inside the helmet, wait until Step 18 for removal. Go to Step 11 next. Remove inner glove. <ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 10. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 11. Remove Coverall	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 12. Disinfect Inner Gloves	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 13. Disinfect Washable Shoes	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 14. Disinfect Inner Socks	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 15. Remove Respirator (if not already removed)	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.
<input type="checkbox"/> Step 16. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Remove the outer glove, leaving the inner glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Remove the inner glove, leaving the outer glove on the hand. Disinfect inner glove with either EPA-registered disinfectant wipe (EADW) or ABBW. Place all removed PPE components in a designated container or collection.

Step 20. Shower

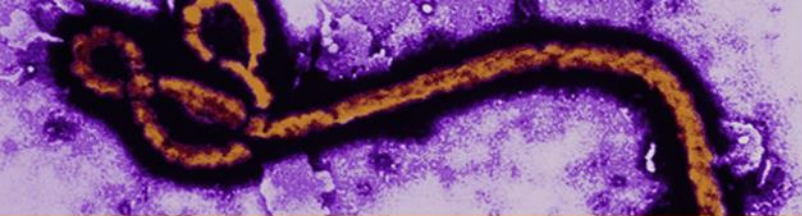
Wash thoroughly with ABBW.

Report supervisor for any indication of contamination of scrubs or disposable garments. Washes in biohazard. Immediately notify supervisor before exiting PPE removal area.

Person can leave PPE removal area wearing dedicated washable footwear and surgical scrubs only garments.

It is recommended that those who have been in contact with a patient who has been infected with Ebola virus should be screened for infection by a physician, nurse, or other designated personnel. It is also recommended that those who have been in contact with a patient who has been infected with Ebola virus should be screened for infection by a physician, nurse, or other designated personnel.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

228



Protocol evaluation/ medical assessment

Step 21

- Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the First Responder to review **patient care activities performed** to identify any concerns about **care protocols** and to **record First Responder's level of fatigue.**

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRespirator_Coveralls/doffing_01.html

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PREPAREDNESS



DEPARTMENT OF
HEALTH
AND HOSPITALS





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

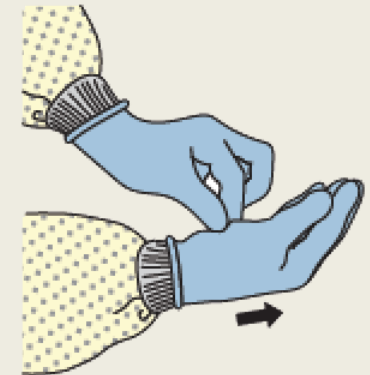
229

Safe removal of gloves

CDC recommends the following process to **remove contaminated gloves**:

- Using a gloved hand, **grasp** (or pinch) the **palm area** of the **other gloved hand** and **peel off** first glove, **inside** (clean side) **out**.

NOTE





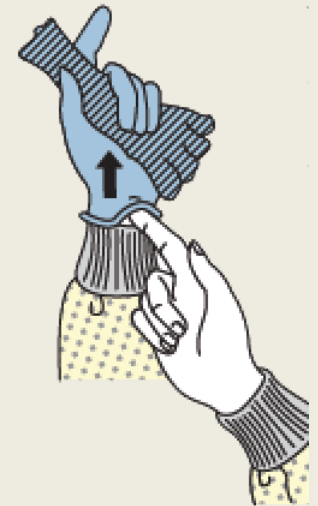
EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.** 230

Safe removal of gloves

- Hold **removed glove** in gloved hand.
- **Slide fingers** of ungloved hand **under** remaining glove at **wrist** and **peel off second glove over first glove**, again, **inside** (clean side) out.

NOTE





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

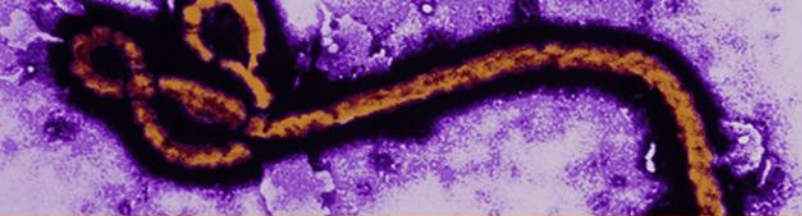
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Safe removal of gloves

NOTE

- If **double gloved**, the process is the **same**.
- **Always** perform **hand hygiene** when removing **outer** or **inner** gloves.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

Doffing using PAPR is COMPLETE.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

233

DOFFING PPE: N95 respirator **24-Step process**



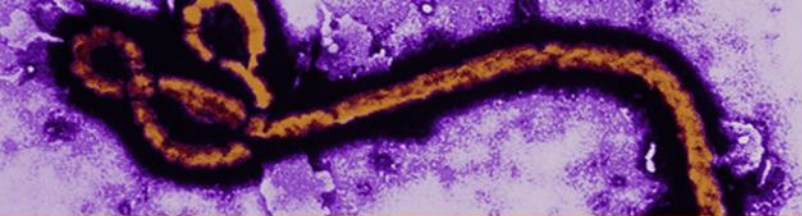


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

234

The first **9 steps** of an **N95** user doffing are the **same** as those for **PAPR**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.
935



Engage Trained Observer

Step 1

Your Trained Observer, using a written checklist . . .

- **Reads aloud each step** of the doffing procedure.
- **Visually confirms and documents** PPE is removed properly.

SUIT UP. OR STAND BACK. HOW TO DOFF PPE USING N95 RESPIRATOR

FIRST RESPONDERS

First Responder: _____
Trained Observer: _____ Date: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper doffing and sorting of Personal Protective Equipment (PPE) and handling of waste.

HOW TO USE: This document should be used by Trained Observers and First Responders in conjunction with:
 • CDC's www.cdc.gov/ebs for doffing and sorting PPE.
 • CDC's www.cdc.gov/ebs for doffing and sorting PPE.
 • CDC's www.cdc.gov/ebs for doffing and sorting PPE.
 • CDC's www.cdc.gov/ebs for doffing and sorting PPE.

IMPORTANT NOTES:
 • Doffing and sorting procedures are critical, depending on the type of PPE selected.
 • A trained observer is to be present throughout the doffing process to ensure proper PPE doffing and sorting.

Place and double bag used PPE in large 22-gallon or larger leak-proof plastic bags. Secure at the scene until picked up for a State-licensed contractor.

<input type="checkbox"/> Establish a Hot Zone.	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing. Remember, doffing area should be located as close to the Hot Zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Prepare to Doff PPE.	<input type="checkbox"/> Before entering PPE removal area, inspect and disinfect any shelle combinations on PPE including gloves, boots, and eyewear. <input type="checkbox"/> Step into the pool and/or prior to doffing and remove any visible contamination using 10% household bleach solution (one 1/2 cup household bleach and one 1/2 cup water). <input type="checkbox"/> Do not use PPE in, on/off, step into leak-proof plastic bag or report earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your GREATEST RISK of exposure.
<input type="checkbox"/> Step 1. Engage Trained Observer	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who tracks and documents each step of the procedure and visually confirms and documents that PPE is removed properly. <input type="checkbox"/> Trained Observer: ensure the Responders doff PPE in the designated area and visually confirm and document that PPE is removed properly. <input type="checkbox"/> First Responder: ensure the Responders doff PPE in the designated area and visually confirm and document that PPE is removed properly.

Step 1.

Engage Trained Observer

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html

<input type="checkbox"/> Step 2. Disinfect and Remove Outer Gloves	<input type="checkbox"/> Disinfect outer-gloved hands with either an EPA-registered disinfectant wipe (EPA #4840). <input type="checkbox"/> Remove and discard outer gloves, taking care NOT to contact outer glove. <input type="checkbox"/> Do not wipe gloves, causing spray. First glove inside out, containing first glove from one hand inside second glove from other hand.
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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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Engage Trained Observer

Step 1

Your Trained Observer . . .

- Reminds you to avoid **reflexive actions** that put you at risk, such as **touching your face**.
- Should **minimize touching** your PPE during the doffing process.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

237



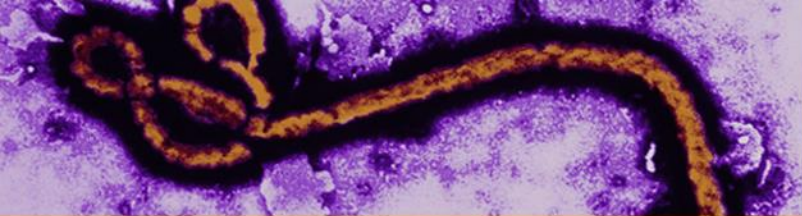
Engage Trained Observer

Step 1

Your Trained Observer . . .

- May **assist** with removal of specific components of PPE.
- **Disinfects outer-gloved hands** immediately after handling any of your PPE during the doffing process.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
238



Inspect

Step 2

- Inspect PPE for **visible** contamination, cuts or tears.

SUIT UP. OR STAND BACK. HOW TO DOFF PPE USING N95 RESPIRATORS

FIRST RESPONDERS

First Responder: _____
Trained Observer: _____

CDC-recommended PPE

Step 2. Inspect

<input type="checkbox"/> Step 1. Engage Trained Observer	<ul style="list-style-type: none"> Use a written step-by-step checklist. The doffing process is also conducted under the guidance and supervision of a Trained Observer, who tracks each step of the procedure and readily confirms and documents that PPE is removed properly. Take no shortcuts. Do not doffing PPE, unless the responder is well outside the hot zones and all eyes, such as wearing the mask. Always wear hand hygiene (hand sanitizer or soap and water) during the doffing process. Do not touch the front of the respirator or the face shield. Do not touch the front of the gown or the front of the gloves.
<input type="checkbox"/> Step 2. Inspect	<ul style="list-style-type: none"> Inspect PPE for visible contamination, cuts or tears. Inspect N95 respirator for visible contamination, cuts or tears. If visibly contaminated, doff using EPA-registered disinfectant wipe or spray.
<input type="checkbox"/> Step 3. Dismantle Outer Gloves	<ul style="list-style-type: none"> Inspect PPE for visible contamination, cuts or tears. Inspect PPE for visible contamination, cuts or tears. If visibly contaminated, doff using EPA-registered disinfectant wipe or spray.
<input type="checkbox"/> Step 4. Remove Goggles or Face Shields	<ul style="list-style-type: none"> To avoid contaminating gloves, rest against from inside when you use to outside. Use EPA-registered disinfectant wipe or ASHRA. Allow to dry.
<input type="checkbox"/> Step 5. Dismantle Outer Goggles	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe or ASHRA. Allow to dry.
<input type="checkbox"/> Step 6. Remove Boot or Shoe Covers	<ul style="list-style-type: none"> Do not allow to prevent falling. Avoid legs touching each other. Wipe soles, remove and discard boot or shoe covers. Manufacturer may have additional instructions for the removal of boot covers.
<input type="checkbox"/> Step 7. Dismantle and Remove Outer Goggles	<ul style="list-style-type: none"> Inspect and/or-glove hands with either an EPA-registered disinfectant wipe or spray. Remove and discard outer gloves, taking care NOT to contaminate inner gloves. Do not step gloves, causing spray. Peel gloves inside out, containing first glove from one hand inside second glove from other hand.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

239

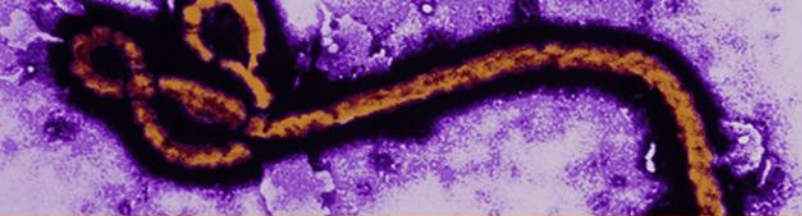


Inspect

Step 2

- **Disinfect potentially contaminated PPE using an EPA-registered disinfectant wipe . . .**
 - OR an **EPA-registered disinfectant spray** (if conditions permit and appropriate regulations are followed)





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

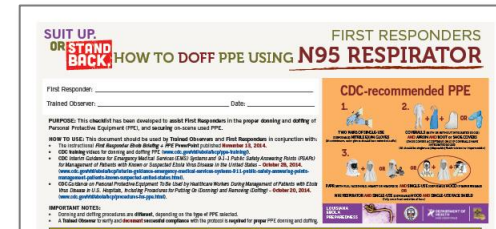
SUIT UP. 240
OR STAND BACK. **3**



Disinfect **outer** gloves

Step **3**

- Use EPA-registered disinfectant wipe **OR** ABHR.
- Allow to dry.

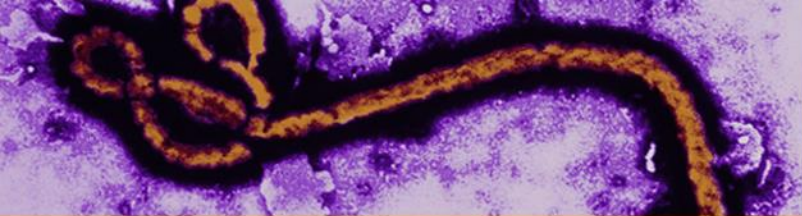


Step 3.

Disinfect Outer Gloves

<input type="checkbox"/>	Step 1. Inspect	<ul style="list-style-type: none"> Inspect PPE for visible contamination, cuts or tears. Inspect PPE for visible contamination, cuts or tears.
<input type="checkbox"/>	Step 2. Disinfect Outer Gloves	<ul style="list-style-type: none"> Disinfect outer-gloved hands with either an EPA-registered disinfectant wipe OR ABHR. Allow to dry. To avoid contaminating gloves, rest arms from inside when used to outside.
<input type="checkbox"/>	Step 3. Remove Apron or Gown	<ul style="list-style-type: none"> To avoid contaminating gloves, rest apron from inside when used to outside.
<input type="checkbox"/>	Step 4. Inspect	<ul style="list-style-type: none"> Inspect PPE ensemble again for visible contamination, cuts or tears. If visibly contaminated, disinfect using EPA-registered disinfectant wipe.
<input type="checkbox"/>	Step 5. Disinfect Outer Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe or ABHR. Allow to dry.
<input type="checkbox"/>	Step 7. Remove Boot or Shoe Covers	<ul style="list-style-type: none"> All shoes to prevent falling. Avoid legs touching each other. While stepping, remove and discard boot or shoe covers. Manufacturer may have additional instructions for the removal of boot covers.
<input type="checkbox"/>	Step 8. Disinfect and Remove Outer Gloves	<ul style="list-style-type: none"> Disinfect outer-gloved hands with either an EPA-registered disinfectant wipe OR ABHR. Remove and discard outer gloves, taking care NOT to contaminate inner gloves. Do not swap gloves, causing spray. Peel glove inside out, containing first glove from one hand inside second glove from other hand.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP. 241
OR STAND BACK.
BACK.



Step 4

Remove apron (if used)

- Remove and discard apron.
- To avoid contaminating gloves, roll apron from **inside** (clean side) to outside.

SUIT UP. OR STAND BACK. HOW TO DOFF PPE USING N95 RESPIRATOR

First Responder: _____
Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper doffing and sorting of Personal Protective Equipment (PPE) and handling of soiled PPE.

HOW TO USE: This document should be used by Trained Observers and First Responders in conjunction with:

- CDC's guidance for doffing and sorting PPE: www.cdc.gov/emergencies/diseases/norovirus/2014
- CDC's guidance for doffing and sorting PPE: www.cdc.gov/emergencies/diseases/norovirus/2014
- CDC's guidance for doffing and sorting PPE: www.cdc.gov/emergencies/diseases/norovirus/2014

IMPORTANT NOTES:

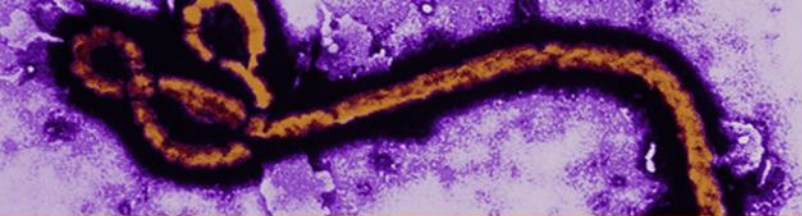
- Doffing and sorting procedures are affected, depending on the type of PPE selected.
- A trained observer is to be present and observe employees with the patient to ensure proper PPE doffing and sorting.

Place and double bag soiled PPE in large (22-gallon or larger) leak-proof plastic bags. Secure at the scene until picked up for a State-licensed contractor.

<input type="checkbox"/> Step 1: Remove Apron	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing.
<input type="checkbox"/> Step 2: Remove Goggles or Face Shields	<input type="checkbox"/> Remember, doffing area should be located as close to the Hot Zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Step 3: Remove Glove or Shoe Covers	<input type="checkbox"/> Before entering PPE removal area, inspect and disinfect any visible contamination on PPE including gloved hands using an EPA-registered disinfectant.
<input type="checkbox"/> Step 4: Disinfect Outer Gloves	<input type="checkbox"/> Use EPA-registered disinfectant wipe or ASHAI. Allow to dry.
<input type="checkbox"/> Step 5: Disinfect Outer Goggles	<input type="checkbox"/> All areas to prevent falling. Avoid eye tracking each other.
<input type="checkbox"/> Step 6: Disinfect and Remove Outer Goggles	<input type="checkbox"/> Wipe, discard, remove and discard GOGGLES or shoe covers.
<input type="checkbox"/> Step 7: Disinfect and Remove Outer Goggles	<input type="checkbox"/> Manufacturer may have additional instructions for the removal of boot covers.
<input type="checkbox"/> Step 8: Disinfect and Remove Outer Goggles	<input type="checkbox"/> Disinfect and gloved hands with either an EPA-registered disinfectant wipe (EPA-registered disinfectant wipe) or ASHAI.
<input type="checkbox"/> Step 9: Disinfect and Remove Outer Goggles	<input type="checkbox"/> Remove and discard outer gloves, taking care NOT to contact side near glove.
<input type="checkbox"/> Step 10: Disinfect and Remove Outer Goggles	<input type="checkbox"/> Do not step gloves, causing spray. Peel glove inside out, containing first glove from one hand inside second glove from other hand.

 **Step 4. Remove Apron (if used)**

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
243



Disinfect **outer** gloves

Step 6

- Disinfect **outer**-gloved hands using an **EPA-registered disinfectant wipe OR ABHR** and allow to dry.

SUIT UP. OR STAND BACK. HOW TO DOFF PPE USING N95 RESPIRATOR

First Responder: _____
Trained Observer: _____

First Responders

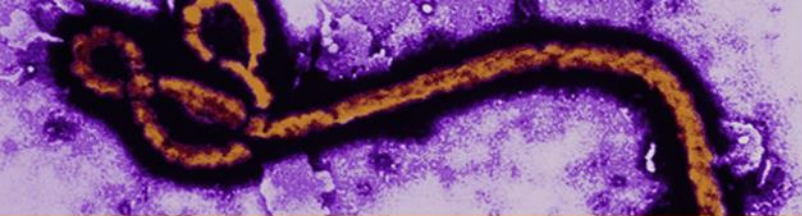
CDC-recommended PPE

Place and double bag used PPE in large (25-gallon or larger) leak-proof plastic bags. Secure at the scene until picked up for a stable, permitted container.

<input type="checkbox"/> Step 3. Disinfect Outer Gloves	<input type="checkbox"/> Disinfect outer-gloved hands with either an EPA-registered disinfectant wipe OR ABHR. Allow to dry.
<input type="checkbox"/> Step 4. Remove Apron or gown	<input type="checkbox"/> To avoid contaminating gloves, roll apron from inside away from you to outside.
<input type="checkbox"/> Step 5. Inspect	<input type="checkbox"/> Inspect PPE ensemble again. Look for visible contamination, cuts or tears. <input type="checkbox"/> If visibly contaminated, disinfect using EPA-registered disinfectant wipe.
<input type="checkbox"/> Step 6. Disinfect Outer Gloves	<input type="checkbox"/> Use EPA-registered disinfectant wipe OR ABHR. Allow to dry.
<input type="checkbox"/> Step 7. Remove Boot or Shoe Covers	<input type="checkbox"/> Roll down to prevent falling. Avoid legs touching each other. <input type="checkbox"/> While stepping, remove and discard BOOT or SHOE COVERS. <input type="checkbox"/> Manufacturer may have additional instructions for the removal of boot covers.
<input type="checkbox"/> Step 8. Disinfect and Remove Outer Gloves	<input type="checkbox"/> Disinfect outer-gloved hands with either an EPA-registered disinfectant wipe OR ABHR. <input type="checkbox"/> Remove and discard outer gloves, taking care NOT to contact inside inner gloves. <input type="checkbox"/> Do not swap gloves, causing spray. First glove inside out, containing first glove from one hand inside second glove from other hand.

 **Step 6. Disinfect Outer Gloves**

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
244



Remove boot or shoe covers

Step 7

- Sit down so you don't risk falling.
 - **Avoid** legs touching each other.
- While seated, **remove** and **discard boot or shoe covers**.
 - Check **boot cover manufacturer** for **additional** removal instructions.

SUIT UP. OR STAND BACK. HOW TO DOFF PPE USING N95 RESPIRATOR

FIRST RESPONDERS

Find Responder: _____ Date: _____
Trained Observer: _____

PURPOSE: This checklist has been developed to assist First Responders in the proper donning and doffing of Personal Protective Equipment (PPE), and working in areas used PPE.

NOTE TO USER: This document should be read by Trained Observers and First Responders in conjunction with:

- The instruction *Find Responder Donning + Doff PPE* (see the link below)
- CDC https://www.cdc.gov/eid/content/pdfs/ebola/ebola_ppe.pdf
- The [CDC Manual for Emergency Use of Personal Protective Equipment \(PPE\)](https://www.cdc.gov/eid/content/pdfs/ebola/ebola_ppe.pdf) (see the link below)
- [CDC Manual for Emergency Use of Personal Protective Equipment \(PPE\)](https://www.cdc.gov/eid/content/pdfs/ebola/ebola_ppe.pdf) (see the link below)
- [CDC Manual for Emergency Use of Personal Protective Equipment \(PPE\)](https://www.cdc.gov/eid/content/pdfs/ebola/ebola_ppe.pdf) (see the link below)

IMPORTANT NOTES:

- During doffing operations an observer, depending on the type of PPE used, should be present to verify and document compliance with the instructions required for proper PPE doffing and disposal.

Place and double bag used PPE in large, leak-proof plastic bags. Secure the excess until placed in a leak-proof container.

<input type="checkbox"/> Establish Isolation Zone	<input type="checkbox"/> PPE doffing should be performed in a designated PPE removal area set up prior to doffing. If necessary, doffing area should be located as close to the Hot Zone as safely feasible and set up prior to beginning the doffing process.
<input type="checkbox"/> Prepare to Doff PPE	<input type="checkbox"/> Before entering PPE removal area, inspect and decontaminate any vehicle contamination on PPE (including gloves) using an EPA-registered disinfectant. <input type="checkbox"/> Step into the pool set up prior to doffing and remove any vehicle contamination using 10% household bleach solution (one 1/2 cup household bleach per gallon of water). <input type="checkbox"/> As soon as PPE is doffed, step into leak-proof plastic bag prepared earlier for that purpose. <input type="checkbox"/> Remember: Doffing is your GREATEST RISK of exposure.
<input type="checkbox"/> Step 1. Expose Trained Observer	<input type="checkbox"/> Using a written step-by-step checklist, the doffing process is also conducted under the guidance and supervision of a Trained Observer, who should assist with each step of the procedure and ensure clothes and documents that PPE is removed properly. <input type="checkbox"/> Trained Observer: <ul style="list-style-type: none"> • Prior to doffing PPE, which First Responders to assist observe when they remove risk of exposure, such as heating the box, should ensure that the responder is using PPE during the doffing process. • May assist with removal of specific components of PPE, as indicated above. • Includes into good hand hygiene after handling of PPE Responder PPE.
<input type="checkbox"/> Step 2. Inspect	<input type="checkbox"/> Inspect PPE for visible contamination, cuts or tears. <input type="checkbox"/> Decontaminate potentially contaminated PPE using an EPA-registered disinfectant wipe or spray at dry conditions per manufacturer's instructions.
<input type="checkbox"/> Step 3. Discard Outer Covers	<input type="checkbox"/> Discard outer-glove hands with either an EPA-registered disinfectant wipe or spray at dry conditions per manufacturer's instructions.
<input type="checkbox"/> Step 4. Remove Apron or gown	<input type="checkbox"/> To avoid contaminating gloves, roll apron from inside out to outside.

CDC-recommended PPE

1. N95 respirator
2. Goggles or face shield
3. Gown
4. Gloves

Step 7. Remove Boot or Shoe Covers

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

245

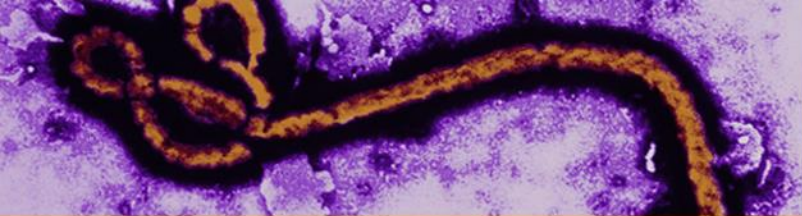


Disinfect and **remove** **outer** gloves

Step 8

- Disinfect **outer**-gloved hands.
 - Use an EPA-registered disinfectant wipe **OR**
ABHR.
- Remove and **discard outer** gloves.
- Be careful **NOT** to contaminate inner glove.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Inspect and disinfect inner gloves

Step 9

- Inspect inner gloves' **outer** surfaces for **visible** contamination, cuts or tears.

<input type="checkbox"/> Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surfaces for visible contamination, cuts or tears. If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Discard into container or EPA-registered disinfectant wipe container. Remove inner glove. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe (E) ABB#.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Go to the hallway and put it over your head. Dispose of face shield in the hall of the face shield. Face shield will go to the decontamination area.
<input type="checkbox"/> Step 11. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (E) ABB#.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Remove hood. Carefully remove and discard. Trained Observer may assist with unfastening hood.
<input type="checkbox"/> Step 13. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (E) ABB#.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE HEAD DOWN. CAREFULLY locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coverall completely. Roll coverall downwards, turning inside coverall out. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside coverall into the container.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-glove hands with either an EPA-registered disinfectant wipe (E) ABB#. Remove inner glove and dispose into container. Put on NEW pair of gloves. Do NOT continue to use hands.

Step 9. Inspect and Disinfect Inner Gloves

<input type="checkbox"/> Step 11. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor. Remove soiled PPE removal area.
<input type="checkbox"/> Step 12. Soiled	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable booties and surgical scrubs or disposable garments.
<input type="checkbox"/> Step 13. Shower	<ul style="list-style-type: none"> Showers are recommended for those... <ul style="list-style-type: none"> Working in high-risk areas (e.g., working in large quantities of blood, body fluids or secretions). Working in high-risk areas (e.g., working in large quantities of blood, body fluids or secretions).
<input type="checkbox"/> Step 14. Medical Examiner/Health Assessment	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the First Responder to review patient care activities performed to identify any concerns about care providers and to record First Responder's level of fatigue.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

247



Inspect and disinfect **inner** gloves

Step 9

- IF an inner glove is **visibly soiled, cut or torn**:
 - **Disinfect** the glove with either an **EPA-registered disinfectant wipe** **OR** **ABHR**.
 - **Remove** inner gloves and perform **hand hygiene** with **ABHR** on **bare hands**.
 - **Don a clean pair of gloves.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

248

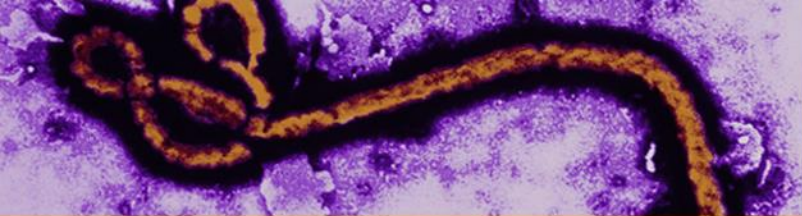


Inspect and disinfect **inner** gloves

Step 9

- **IF no visible contamination, cuts or tears** are identified on the inner gloves:
 - Disinfect the **inner-gloved hands** with either an **EPA-registered disinfectant wipe** **OR** **ABHR**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 249



Remove face shield

Step 10

The sequence **changes** at step 10 for **N95** users.

<input type="checkbox"/> Step 9. Inspect and Donning Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or torn. <ul style="list-style-type: none"> Discard and either an EPA-registered disinfectant wipe or alcohol. Remove hand gloves with ADRH or bare hands. Discard glove pair if soiled. Remove hand gloves. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR ADRH.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not lightly touch. Do the removal and put it over your head. Face shield will gently lift forward. Avoid touching the front of the face shield. <ul style="list-style-type: none"> Discard.
<input type="checkbox"/> Step 11. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ADRH.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Lift chin back. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 13. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ADRH.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE HEAD DOWN. CAREFULLY locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coverall completely. Roll covered coveralls, turning inside cover out. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside cover out of the coverall.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-glove hands with either an EPA-registered disinfectant wipe OR ADRH. <ul style="list-style-type: none"> CAREFULLY remove and dispose your gloves. Remove hand hygiene with ADRH. Do NOT continue bare hands. Don NEW pair of gloves.

Step 10. Remove Face Shield

<input type="checkbox"/> Step 11. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor. Before exiting PPE removal area.
<input type="checkbox"/> Step 12. Scrubs	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable booties and surgical scrubs or disposable garments.
<input type="checkbox"/> Step 13. Shower	<ul style="list-style-type: none"> Showers are recommended for those... <ul style="list-style-type: none"> Working in high-risk areas (e.g., aerosol or large quantities of blood, body fluids or excretions). Working in high-risk areas (e.g., aerosol or large quantities of blood, body fluids or excretions).
<input type="checkbox"/> Step 14. Medical Examiner/ Medical Assessment	<ul style="list-style-type: none"> Either the infectious prevention or occupational safety and health coordinator or their designee should meet with the First Responder to review patient care activities performed to identify any possible avoid care problems and to record PPE Responder's level of fatigue.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

250



Remove face shield

Step 10

- Remove **full face shield**.
 - **Tilt** head slightly forward.
 - Grab the **rear strap** and pull it **over** your head.
 - Face shield will gently **fall forward**.
 - **Discard**.
- **Avoid** touching the **front** of the face shield.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 251



Disinfect **inner** gloves **AGAIN**

Step 11

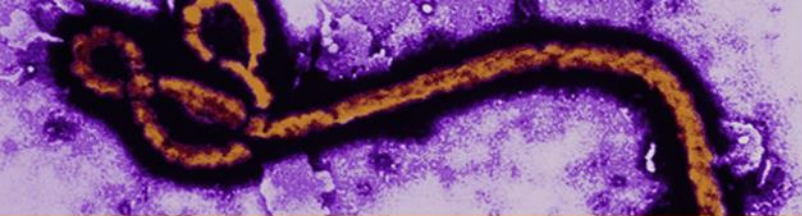
- Use either an **EPA-registered disinfectant wipe OR ABHR.**

<input type="checkbox"/> Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surfaces for visible contamination, cuts or tears. If inner glove is visibly soiled, cut or tear. <ul style="list-style-type: none"> Discard on site or EPA-registered disinfectant wipe. Remove inner glove. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-gloved hands with either EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Do the handling and put it over your head. Face shield will get left behind. Discard. Remove hood. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Do the handling and put it over your head. Face shield will get left behind. Discard.
<input type="checkbox"/> Step 11. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Remove hood. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 13. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE NEAT TALK. CAREFULLY locate zipper or fasteners. Using two or three of one or both hands, carefully and completely: Roll coverall inward, turning inside out as you roll. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside into one of the containers.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-gloved hands with either an EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> CAREFULLY remove and dispose your gloves. Remove hand hygiene with ABHR. Do NOT continue to use hands. Don NEW pair of gloves.

Step 11. Disinfect Inner Gloves

<input type="checkbox"/> Step 11. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor. Remove soiled PPE response area.
<input type="checkbox"/> Step 12. Soiled	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable footwear and surgical scrubs or disposable garments.
<input type="checkbox"/> Step 13. Shower	<ul style="list-style-type: none"> Showers are recommended for those... <ul style="list-style-type: none"> Working in high-risk areas (e.g., aerosol or large quantities of blood, body fluids or excretions). Working in high-risk areas (e.g., aerosol or large quantities of blood, body fluids or excretions).
<input type="checkbox"/> Step 14. Medical Examiner/ Medical Assessment	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the First Responder to review patient care activities performed to identify any concerns about care providers and to record First Responder's level of fatigue.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Remove hood

Step 12

- Unfasten hood.
- Gently remove and discard.
- Trained Observer may **assist** with unfastening hood.

<input type="checkbox"/> Step 9. Inspect and Dismantle Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or tear. <ul style="list-style-type: none"> Discard into container or EPA-registered disinfectant wipe container. Factor hand hygiene with AHBH on bare hands. Don new pair of gloves. Factor hand hygiene with AHBH on bare hands. Don new pair of gloves. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-gloved hands with either EPA-registered disinfectant wipe (E) AHBH.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Do the strap and put it over your head. Face shield will gently fall forward. Discard. Avoid touching the front of the face shield.
<input type="checkbox"/> Step 11. Dismantle Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (E) AHBH.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Unfasten hood. Gently remove and discard. Trained Observer may assist with unfastening hood.
<input type="checkbox"/> Step 13. Dismantle Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (E) AHBH.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE NEAT AND CAREFUL. Carefully locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coverall completely. Roll coverall inward, turning inside out as you go. Avoid contact of soiled or disposable garments with outer surface of coverall. Touch ONLY the inside inner side of the coverall.
<input type="checkbox"/> Step 15. Dismantle and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-gloved hands with either an EPA-registered disinfectant wipe (E) AHBH. CAREFULLY remove and dispose your gloves. Factor hand hygiene with AHBH. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> BE NEAT AND CAREFUL. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Dismantle Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (E) AHBH.
<input type="checkbox"/> Step 18. Dismantle Hood	<ul style="list-style-type: none"> Grasp the top of the hood. Using an EPA-registered disinfectant wipe, wipe down every external surface, including straps, if

Step 12. Remove Hood

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



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SUIT UP.
OR **STAND BACK.**



Disinfect **inner** gloves **AGAIN**

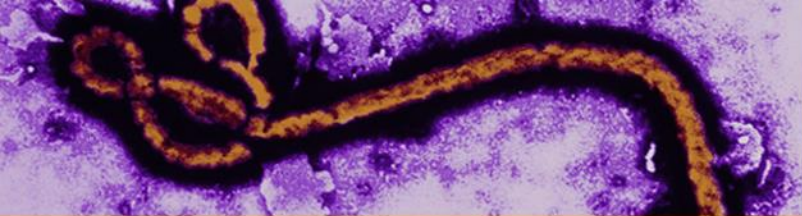
Step 13

- Use either an **EPA-registered disinfectant wipe** **OR** **ABHR.**

<input type="checkbox"/> Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> Disinfect any cuts or EPA-registered disinfectant wipe on cuts. Remove barrier gloves. If an N95 respirator, cuffs or hems are identified on inner gloves, disinfect inner-glove hems with either EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> Remove face shield. Do not touch eyes.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove face shield. <ul style="list-style-type: none"> Do not touch eyes. Do not touch the strap or put it over your head. Dispose of the shield in the biohazard container.
<input type="checkbox"/> Step 11. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Remove hood. Carefully remove and discard. Trained Observer may assist with unfastening hood.
<input type="checkbox"/> Step 13. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> Do not touch. CAREFULLY locate zipper or fasteners. Using two or three fingers of one or both hands, unfasten coverall completely. Roll coverall inward, turning inside out as you roll. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside coverall in the container.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-glove hems with either an EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> Remove gloves and dispose of gloves. Remove face shield with ABHR. Do NOT continue to use hems. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> Do not touch. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 18. Disinfect Movable Shoes	<ul style="list-style-type: none"> Use of a shoe cover surface (e.g., second clean pair, clean sock or a boot). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, if

Step 13. Disinfect Inner Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Remove coverall

Step 14

- Tilt head back.
- **CAREFULLY** reach to locate zipper or fasteners.
- **Avoid touching your skin.**
- Using two (2) fingers of one (1) hand only, unzip or unfasten coverall **completely.**
- Roll down, turning **inside** (clean side) out.

<input type="checkbox"/> Step 9. Inspect and Dismantle Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surfaces for visible contamination, cuts or tears. If inner glove is visibly soiled, cut or tear... <ul style="list-style-type: none"> Discard outer or EPA-registered disinfectant wipe (D) ABHR. Remove hand gloves with AHR in back hand. Remove hand gloves. If no visible contamination, cuts or tears are identified on inner gloves, disinfect inner-gloved hands with either EPA-registered disinfectant wipe (D) ABHR. <ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the hand wipe and put it over your head. Do not touch the head of the face shield. Do not touch the head of the face shield.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the hand wipe and put it over your head. Do not touch the head of the face shield. Remove face shield. <ul style="list-style-type: none"> Do not touch eyes. Do not touch the head of the face shield.
<input type="checkbox"/> Step 11. Dismantle Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (D) ABHR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Unfasten hood. Carefully remove and discard. Trained Observer may assist with unfastening hood.
<input type="checkbox"/> Step 13. Dismantle Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (D) ABHR.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> Do not touch. CAREFULLY locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside out. Avoid contact of soiled or disposable garments with outer surface of coverall. Touch ONLY the inside (clean side) of the coverall.
<input type="checkbox"/> Step 15. Dismantle and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-gloved hands with either an EPA-registered disinfectant wipe (D) ABHR. <ul style="list-style-type: none"> CAREFULLY remove and discard inner gloves. Do not contaminate face mask. Remove hand hygiene with AHR. <ul style="list-style-type: none"> Do not touch face or hair.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> Do not touch. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Dismantle Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe (D) ABHR.
<input type="checkbox"/> Step 18. Dismantle Washable Shoes	<ul style="list-style-type: none"> Use an EPA-registered disinfectant wipe (D) ABHR. Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 19. Dismantle and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe (D) ABHR. CAREFULLY remove and discard inner gloves. Do not touch gloves, including straps. Place gloves inside out, containing first glove from one hand inside second glove from other hand. Do not contaminate face mask. Do not touch face or hair.
<input type="checkbox"/> Step 20. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with AHR.
<input type="checkbox"/> Step 21. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor about soiled PPE removal area.
<input type="checkbox"/> Step 22. Soak	<ul style="list-style-type: none"> First responder can leave PPE removal area wearing dedicated washable and surgical scrubs or disposable garments.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html

Step 14. Remove Coverall



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SUIT UP.
OR **STAND BACK.**

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Remove coverall

Step 14

- **Avoid contact** of surgical scrubs or disposable garments with **outer surface** of coverall.
- Touch **ONLY** the **inside** (clean side) of the coverall.





EBOLA:
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SUIT UP.
OR **STAND BACK.**

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Disinfect and change to a **NEW** pair of **inner** gloves

Step 15

- Disinfect **inner**-gloved hands with either an EPA-registered disinfectant wipe **OR** ABHR.
 - **CAREFULLY** remove and **discard** inner gloves.
 - Do **NOT** contaminate **bare hands**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.** 257



Disinfect and change to a **NEW** pair of **inner** gloves

Step 15

- Perform hand hygiene.
- **Don NEW pair of gloves.**

<input type="checkbox"/> Step 9. Inspect and Doff Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or torn. <ul style="list-style-type: none"> Discard and change to EPA-registered disinfectant wipe (D-ABHR). Remove inner glove. If an N95 respirator, cuffs or bands are identified on inner gloves, doffed inner-glove hands with either EPA-registered disinfectant wipe (D-ABHR). <ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Grasp the top edge and pull it over your head. Face shield will gently fall forward. Discard. Avoid touching the front of the face shield.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Grasp the top edge and pull it over your head. Face shield will gently fall forward. Discard. Avoid touching the front of the face shield.
<input type="checkbox"/> Step 11. Doff Inner Gloves	<ul style="list-style-type: none"> Remove inner gloves again with either an EPA-registered disinfectant wipe (D-ABHR).
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Remove hood. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 13. Doff Inner Goggles	<ul style="list-style-type: none"> Remove inner goggles again with either an EPA-registered disinfectant wipe (D-ABHR).
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> Do not touch. CAREFULLY locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coverall completely. Roll coverall inward, turning inside out as you roll. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside coverall into the container.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-glove hands with either an EPA-registered disinfectant wipe (D-ABHR). <ul style="list-style-type: none"> CAREFULLY remove and change your gloves. Remove hand hygiene with ABRH. Do NOT continue bare hand. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> Do not touch. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Doff Inner Goggles	<ul style="list-style-type: none"> Remove inner goggles again with either an EPA-registered disinfectant wipe (D-ABHR).
<input type="checkbox"/> Step 18. Doff Washable Shoes	<ul style="list-style-type: none"> Do not touch. Carefully remove and discard. Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 19. Doff and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe (D-ABHR). CAREFULLY remove and discard inner gloves. Do not touch gloves, including straps. Pull glove inside out, containing first glove from one hand inside second glove from other hand. Do NOT contaminate bare hands. Do not TOUCH face or bare skin.
<input type="checkbox"/> Step 20. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABRH.
<input type="checkbox"/> Step 21. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
<input type="checkbox"/> Step 22. Scrub	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable boot and surgical scrubs or disposable garments.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html

Step 15. Disinfect and Change Inner Gloves



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SUIT UP.
OR STAND BACK.



Remove **N95** respirator | Step **16**

- Tilt head forward.
- Grasp the **bottom tie** or **elastic strap**, then the **top tie** or **elastic strap**.

<input type="checkbox"/> Step 9. Inspect and Doff Inner Gloves	<input type="checkbox"/> Inspect the inner glove outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> <input type="checkbox"/> If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Discard into container or EPA-registered sharps container. Remove inner glove. <input type="checkbox"/> If no visible contamination, cuts or tears are identified on inner gloves, doff inner-gloved hands with either EPA-registered disinfectant wipe (E) ABB#R.
<input type="checkbox"/> Step 10. Remove Face Shield	<input type="checkbox"/> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Grab the strap and put it over your head. Face shield will gently lift forward. Discard.
<input type="checkbox"/> Step 11. Doff Inner Goggles	<input type="checkbox"/> Doff inner gloves again with either an EPA-registered disinfectant wipe (E) ABB#R.
<input type="checkbox"/> Step 12. Remove Hood	<input type="checkbox"/> Lift the hood. Carefully remove and discard.
<input type="checkbox"/> Step 13. Doff Inner Goggles	<input type="checkbox"/> Doff inner gloves again with either an EPA-registered disinfectant wipe (E) ABB#R.
<input type="checkbox"/> Step 14. Remove Coverall	<input type="checkbox"/> Tie head back. CAREFULLY untie zipper or fasteners. <ul style="list-style-type: none"> Using two (2) fingers of one (1) hand only, reach up and behind coverall completely. Roll coverall downward, turning inside coverall out. Avoid contact of soiled or disposable garments with outer surface of coverall. Touch ONLY the inside coverall of the coverall.
<input type="checkbox"/> Step 15. Doff and Change Inner Goggles	<input type="checkbox"/> Doff inner-gloved hands with either an EPA-registered disinfectant wipe (E) ABB#R. <ul style="list-style-type: none"> CAREFULLY remove and discard your gloves. Remove - without touching the front of the N95 respirator. Do NOT continue to use them. Do NOT reuse pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<input type="checkbox"/> Tie head forward. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. <ul style="list-style-type: none"> Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Doff Inner Goggles	<input type="checkbox"/> Doff inner gloves again with either an EPA-registered disinfectant wipe (E) ABB#R.

Step 16. Remove N95 Respirator

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
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SUIT UP.
OR
STAND BACK.

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Remove **N95** respirator | Step **16**

- Remove – **without touching** the front of the N95 respirator.
- **Discard** N95 respirator.





EBOLA:
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SUIT UP.
OR **STAND BACK.** 260



Disinfect **inner** gloves **AGAIN**

Step 17

- Use either an **EPA-registered disinfectant wipe** **OR** **ABHR.**

<input type="checkbox"/> Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove outer surfaces for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or tear. <ul style="list-style-type: none"> Discard on site or EPA-registered disinfectant wipe. Factor hand hygiene with ABHR on bare hands. Use inner pair of gloves. Factor hand hygiene with ABHR on bare hands. Use inner pair of gloves. If an N95 respirator, cuffs or haws are identified on inner gloves, disinfect inner-glove hands with either EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch front. Go to the handle and put it over your head. Face shield will gently lift forward. Dispose. Always handling the head of the face shield.
<input type="checkbox"/> Step 11. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Lift chin. Hold. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 13. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE HEAD DOWN. CAREFULLY locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coverall completely. Roll coverall downward, turning inside coverall out. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside coverall into the container.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-glove hands with either an EPA-registered disinfectant wipe OR ABHR. <ul style="list-style-type: none"> CAREFULLY remove and dispose outer gloves. Factor hand hygiene with ABHR. Do NOT continue bare hands. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> BE HEAD FORWARD. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner gloves again with either an EPA-registered disinfectant wipe OR ABHR.

Step 17. Disinfect Inner Gloves

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
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SUIT UP.
OR STAND BACK.
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Disinfect washable shoes | Step 18

- Sit on a **new, clean** surface.
- Using an **EPA-registered disinfectant wipe**, wipe down every external surface, including soles, of the washable shoes.
- **Avoid touching ankles.**

<input type="checkbox"/> Step 9. Inspect and Disinfect Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Discard with care or EPA-registered disinfectant wipe. Wash hands. Put on new pair of gloves. Put on hand gloves with either ABR or EPA-registered disinfectant wipe CE ABR. Put on hand gloves with either EPA-registered disinfectant wipe CE ABR.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the handling and put it over your head. Face shield will gently lift toward the front. Discard. Avoid touching the head or the face shield.
<input type="checkbox"/> Step 11. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove eggs with either an EPA-registered disinfectant wipe CE ABR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Lift the hood. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 13. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove eggs with either an EPA-registered disinfectant wipe CE ABR.
<input type="checkbox"/> Step 14. Remove Coveralls	<ul style="list-style-type: none"> BE NEAT AND CAREFUL! Locate zipper or fasteners. Using two (2) fingers of one (1) hand only, unzip or unfasten coveralls completely. Roll coveralls inward, turning inside cover out. Avoid contact of soles or disposable garments with outer surface of coveralls. Touch ONLY the inside cover side of the coveralls.
<input type="checkbox"/> Step 15. Disinfect and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-glove hands with either an EPA-registered disinfectant wipe CE ABR. CAREFULLY remove and dispose your gloves. Put on hand hygiene with ABR. Do NOT continue to use hands. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> BE NEAT AND CAREFUL! Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Disinfect Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove eggs with either an EPA-registered disinfectant wipe CE ABR.
<input type="checkbox"/> Step 18. Disinfect Washable Shoes	<ul style="list-style-type: none"> Sit on a new, clean surface (e.g., covered floor mat, clean side of a bench). Using EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 19. Disinfect and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe CE ABR. CAREFULLY remove and discard inner gloves. Do not touch gloves, including straps. Peel glove inside out, containing first glove from one hand inside second glove from other hand. Do NOT contaminate your hands. Do not TOUCH face or hair skin.
<input type="checkbox"/> Step 20. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABR.
<input type="checkbox"/> Step 21. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soles or disposable garments. If contamination is identified, immediately notify supervisor. Avoid walking PPE removal area.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html

Step 18. Disinfect Washable Shoes



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND BACK.**

262

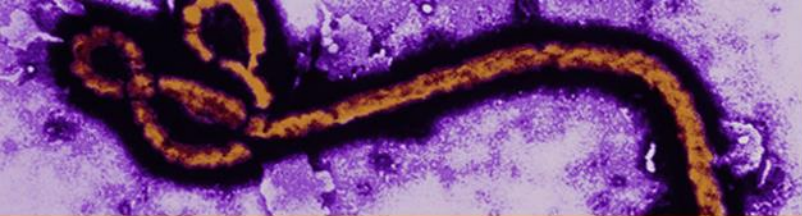


Disinfect and remove **NEW inner** gloves

Step 19

- Use an EPA-registered disinfectant wipe **OR** ABHR.
 - CAREFULLY remove and **discard inner** gloves.
 - Do **NOT** contaminate bare hands or touch face or bare skin.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.



Hand hygiene

Step 20

- Perform hand hygiene with ABHR.

Step 20. Perform Hand Hygiene



<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Do not touch eyes, nose, or mouth. Grasp the top edge and pull it away from your face. Face shield will go to the back. Discard.
<input type="checkbox"/> Step 11. Doff Distinct Inner Gloves	<ul style="list-style-type: none"> Grasp inner glove wrists with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Grasp hood, carefully remove and discard. Trained Observer may assist with unfastening hood.
<input type="checkbox"/> Step 13. Doff Distinct Inner Gloves	<ul style="list-style-type: none"> Grasp inner glove wrists with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE HEAD DOWN. CAREFULLY locate zipper or fasteners. Using two or three fingers of one or both hands, unzip or unfasten coverall completely. Roll coverall inward, turning inside out as you roll. Avoid contact of soiled or disposable garments with outer surface or coverall. Throw ONLY the inside into one of the containers.
<input type="checkbox"/> Step 15. Doff and Change Inner Gloves	<ul style="list-style-type: none"> Grasp inner-glove wrists with either an EPA-registered disinfectant wipe OR ABHR. CAREFULLY remove and discard inner gloves. Factor hand hygiene with ABHR. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> BE HEAD FORWARD. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Doff Distinct Inner Gloves	<ul style="list-style-type: none"> Grasp inner glove wrists with either an EPA-registered disinfectant wipe OR ABHR.
<input type="checkbox"/> Step 18. Doff Distinct Washable Shoes	<ul style="list-style-type: none"> Grasp at a heel, clean surface (e.g., metal cleat area, shoe sole of a boot). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 19. Doff Distinct and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe OR ABHR. CAREFULLY remove and discard inner gloves. Do not touch gloves, causing spray. Pull glove inside out, containing first glove from one hand inside second glove from other hand. Do NOT contaminate your hands. Do not TOUCH face or hair area.
<input type="checkbox"/> Step 20. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABHR.
<input type="checkbox"/> Step 21. Inspect	<ul style="list-style-type: none"> Perform a final inspection for any indication of contamination of soiled or disposable garments. If contamination is identified, immediately notify supervisor before exiting PPE removal area.
<input type="checkbox"/> Step 22. Scrubs	<ul style="list-style-type: none"> First Responder can leave PPE removal area wearing dedicated washable booties and surgical scrubs or disposable garments.
<input type="checkbox"/> Step 23. Shower	<ul style="list-style-type: none"> Showers are recommended for those ... Following removal of PPE, shower in large quantities of soap, body hair or soiled.
<input type="checkbox"/> Step 24. Medical Examiner/ Medical Assessment	<ul style="list-style-type: none"> Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the First Responder to review patient care activities performed to identify any concerns about care practices and to record First Responder's level of fatigue.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND BACK.



Scrubs OR disposable garments

Step 22

- You **can** leave PPE removal area wearing **dedicated washable footwear and surgical scrubs or disposable garments.**

<input type="checkbox"/> Step 9. Inspect and Doff Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. <ul style="list-style-type: none"> If inner glove is visibly soiled, cut or torn... <ul style="list-style-type: none"> Discard outer or EPA-registered disposable glove. Remove inner glove. Put on new outer and inner gloves. If an outer contamination, cut or tear is identified on inner glove, doffed inner-glove hands with other EPA-registered disposable wipe (E) ABBR. Remove both face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the wrap and put it over your head. Discard.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the wrap and put it over your head. Discard.
<input type="checkbox"/> Step 11. Doff Inner Gloves	<ul style="list-style-type: none"> Doff inner glove again with either an EPA-registered disposable wipe (E) ABBR.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Unfasten hood. Carefully remove and discard. Trained Observer may assist with unfastening hood.
<input type="checkbox"/> Step 13. Doff Inner Gloves	<ul style="list-style-type: none"> Doff inner glove again with either an EPA-registered disposable wipe (E) ABBR.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE NEAT. CAREFULLY locate zipper or fasteners. Using two or three of one or both only, unzip or unfasten coverall completely. Roll covered element, turning inside out as you roll. Avoid contact of scrubs or disposable garments with outer surface of coverall. Touch ONLY the inside inner side of the coverall.
<input type="checkbox"/> Step 15. Doff and Change Inner Gloves	<ul style="list-style-type: none"> Doff inner-glove hands with either an EPA-registered disposable wipe (E) ABBR. <ul style="list-style-type: none"> CAREFULLY remove and dispose your glove. Remove - without touching the front of the N95 respirator. Do NOT continue to use them. Put on NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> BE NEAT. Grasp the bottom tie or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Doff Inner Gloves	<ul style="list-style-type: none"> Doff inner glove again with either an EPA-registered disposable wipe (E) ABBR.
<input type="checkbox"/> Step 18. Doff Washable Shoes	<ul style="list-style-type: none"> Use of a shoe, shoe surface (e.g., metal shoe rack, shoe rack or a bench). Using an EPA-registered disposable wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 19. Doff and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disposable wipe (E) ABBR. CAREFULLY remove and discard inner gloves. Do not touch gloves, including straps. Post glove inside out, containing first glove from one hand inside second glove from other hand. Do NOT contaminate your hands. Do not TOUCH face or hair area.
<input type="checkbox"/> Step 20. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with ABBR.

of contamination of scrubs or disposable garments. ONLY supervisor should enter PPE removal area wearing dedicated washable footwear and surgical scrubs.

A quantity of food, body fluids or excretia.

Only safety and health coordinator or their designee may perform activities performed to identify any PPE responder's level of fatigue.

Step 22. Scrubs

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND BACK.
266



Shower

Step 23

- **Showers** are recommended for those:
 - Performing high-risk patient care.
 - Spending extended periods of time with an Ebola patient.

<input type="checkbox"/> Step 9. Inspect and Doff Inner Gloves	<ul style="list-style-type: none"> Inspect the inner glove's outer surface for visible contamination, cuts or tears. If inner glove is visibly soiled, cut or tear... <ul style="list-style-type: none"> Discard outer or EPA-registered disinfectant wipe on gloved hand. Remove hand gloves with AHRU or bare hands. If an outer contamination, cut or tear is identified on inner gloves, doffed inner-gloved hands with either EPA-registered disinfectant wipe OR AHRU. Remove full face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the wrap and put it over your head. Face shield will going left hand. Do not touch.
<input type="checkbox"/> Step 10. Remove Face Shield	<ul style="list-style-type: none"> Remove full face shield. <ul style="list-style-type: none"> Do not touch eyes. Do the wrap and put it over your head. Face shield will going left hand. Do not touch.
<input type="checkbox"/> Step 11. Doff Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR AHRU.
<input type="checkbox"/> Step 12. Remove Hood	<ul style="list-style-type: none"> Remove hood. Carefully remove and discard. Trained Observer may assist with unfolding hood.
<input type="checkbox"/> Step 13. Doff Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR AHRU.
<input type="checkbox"/> Step 14. Remove Coverall	<ul style="list-style-type: none"> BE NEAT! CAREFULLY locate zipper or fasteners. Using two or three of one or bare only, unzip or unfasten coverall completely. Roll coverall inward, turning inside out as you roll. Avoid contact of soiled or disposable garments with outer surface of coverall. Throw ONLY the inside coverall in the container.
<input type="checkbox"/> Step 15. Doff and Change Inner Gloves	<ul style="list-style-type: none"> Disinfect inner-gloved hands with either an EPA-registered disinfectant wipe OR AHRU. Remove outer gloves and dispose of them. Remove hand hygiene with AHRU. Do NOT continue bare hands. Don NEW pair of gloves.
<input type="checkbox"/> Step 16. Remove N95 Respirator	<ul style="list-style-type: none"> BE NEAT! CAREFULLY locate zipper or elastic strap, then the top tie or elastic strap. Remove - without touching the front of the N95 respirator. Discard N95 respirator.
<input type="checkbox"/> Step 17. Doff Inner Gloves	<ul style="list-style-type: none"> Disinfect inner glove again with either an EPA-registered disinfectant wipe OR AHRU.
<input type="checkbox"/> Step 18. Doff Washable Shoes	<ul style="list-style-type: none"> Use of a shoe, clean surface (e.g., metal shoe rack, clean side of a bench). Using an EPA-registered disinfectant wipe, wipe down every external surface, including soles, of washable shoes. Avoid touching ankles.
<input type="checkbox"/> Step 19. Doff and Remove Inner Gloves	<ul style="list-style-type: none"> Use EPA-registered disinfectant wipe OR AHRU. CAREFULLY remove and discard hand gloves. Do not touch gloves, including straps. Peel glove inside out, containing first glove from one hand inside second glove from other hand. Do NOT contaminate bare hands. Do not TOUCH face or bare skin.
<input type="checkbox"/> Step 20. Perform Hand Hygiene	<ul style="list-style-type: none"> Perform hand hygiene with AHRU.

Step 23. Shower

of contamination of soiled or disposable garments. **DO NOT** reinsert or reuse soiled PPE removal area bearing dedicated washable footwear and surgical scrubs.

a quarter of second, body fluids or excretia.

local safety and health coordinator or their designee. **DO NOT** perform patient care activities performed to identify any PPE responder's level of fatigue.

SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

267



Protocol evaluation/ medical assessment

Step 24

- Either the infection preventionist or occupational safety and health coordinator or their designee should meet with the First Responder to review **patient care activities performed** to identify any concerns about **care protocols** and to **record First Responder's level of fatigue**.

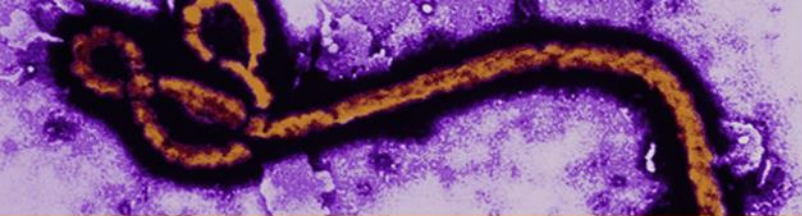
SOURCE: CDC www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html and www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/doffing_01.html

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EBOLA:
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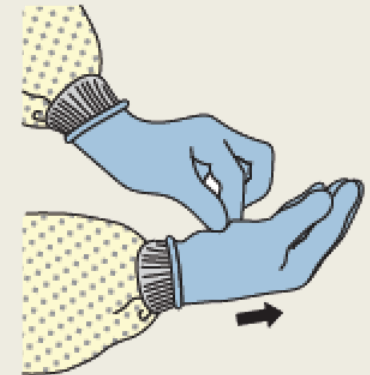
SUIT UP.
OR **STAND
BACK.** 268

Safe removal of gloves

CDC recommends the following process to remove contaminated gloves:

- Using a gloved hand, **grasp** (or pinch) the **palm area of the other gloved hand** and **peel off first glove, inside** (clean side) **OUT**.

NOTE





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

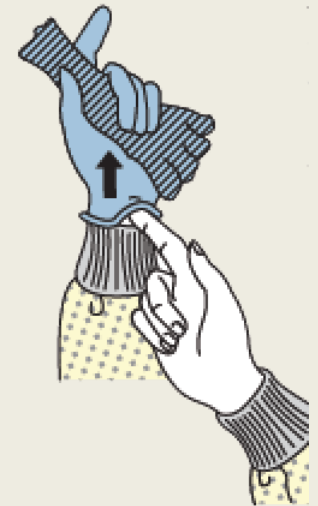
SUIT UP.
OR **STAND
BACK.**

269

Safe removal of gloves

- Hold **removed glove** in gloved hand.
- **Slide fingers** of ungloved hand **under** remaining glove at **wrist** and **peel off second glove over first glove**, again, **inside** (clean side) out.

NOTE





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.** 270

Safe removal of gloves

NOTE

- If **double gloved**, the process is the **same**.
- **Always** perform **hand hygiene** when removing **outer or inner gloves**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

271

Doffing using
N95 respirator is
COMPLETE.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

272

However, you are **not**
finished yet . . .





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

273

What do you do with PPE after taking it off?



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

274

SECTION 5 – Securing used PPE



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

275

Contain and dispose

Complete containment and proper disposal is **ESSENTIAL** for your protection and the protection of others.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

276

Remember you need . . .

- ☑ A small plastic disposable kiddie pool or tub.
- ☑ **Two (2) buckets:**
 - One (1) with **clear water.**
 - One (1) with a **10% household bleach solution** (prepared earlier).





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.** 277

Remember you need . . .

- ✓ **Single-use** (disposable) **nitrile examination gloves with extended cuffs.**
- ✓ **Plastic disposable tarp.**
- ✓ **Duct tape.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

278

Remember you need . . .

- ☑ **Large** (33 gallon or larger) **leak-proof plastic bags.**
- ☑ **Knife.**
- ☑ An appropriate **container** for used (contaminated) **sharps.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

279

Contain and dispose

Before disposal begins . . .

- **Don a NEW pair of gloves.**
- Fill **two (2) buckets**:
 - One (1) with **clear water**.
 - One (1) with a **10% household bleach solution** (prepared earlier).



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

280

Contain and dispose

- If you are **on scene**, **double bag** used PPE in **large** (33 gallon or larger) **leak-proof plastic bags** and **secure**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

281

Contain and dispose

- **Tie large** (33 gallon or larger) **leak-proof plastic bag** in which the PPE was doffed and **seal with duct tape**.
- Place sealed bag into a **second leak-proof plastic bag**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

282

Contain and dispose

- The **outer bag** is also sealed with duct tape and placed aside.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

283

Contain and dispose

- Once the double bag of used PPE is placed aside, **puncture** and **fold** the pool.
- Then place the pool in a **large** (33 gallon or larger) **leak-proof plastic bag**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

284

Contain and dispose

- The **leak-proof plastic bag** containing the pool is then placed on the **center** of the **tarp**.
- The **tarp** is then **folded** over the pool and **placed** into **another large** (33 gallon or larger) **leak-proof plastic bag**.
 - While folding, the First Responder should only touch the **outside** (clean side) of the **tarp**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

285

DECON

- Go to the prepared buckets of **10% household bleach solution** and **clear water**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

286

DECON

- Wash **gloved hands** in the **10% household bleach solution . . .**
 - As hands are **removed** from the solution (but still in the bucket), **gently shake off excess solution.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

287

DECON

- ... followed by washing **gloved hands** in the **bucket of clear water**.
 - As hands are **removed** from the water (but still in the bucket), **gently shake off excess water**.





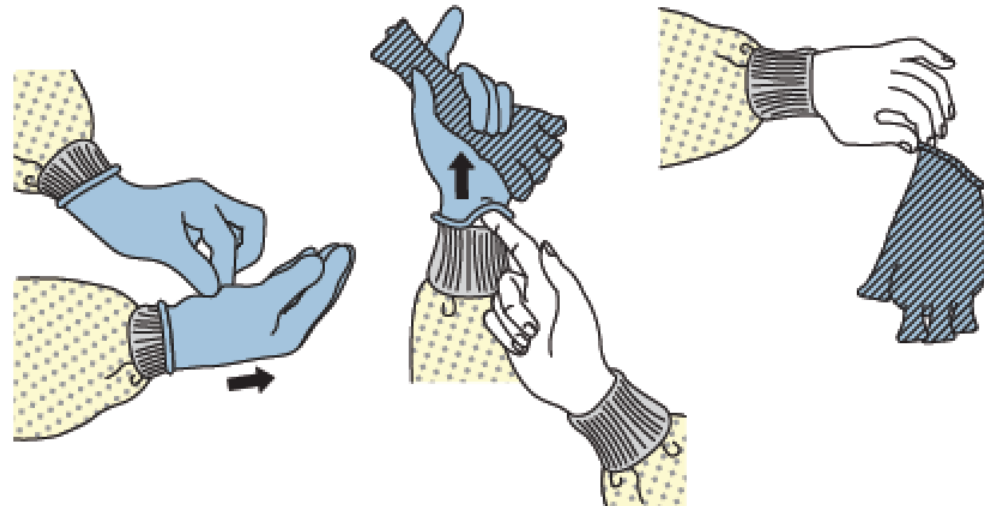
EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

288

Contain and dispose

- Now **remove** gloves
- •
- . . . careful to **not** contaminate your skin.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

289

Contain and dispose

- Place gloves in the **leak-proof plastic bag containing the pool and tarp.**
- Seal with **duct tape, double bag** and seal with **duct tape again.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

290

Contain and dispose

- **Bags containing used PPE, pool and tarp are secured at the scene to wait for a State-provided contractor to properly remove and dispose.**
 - To remain **secure**, someone must **stay** with the bags and wait for the **contractor**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

291

Disposal

- The **State-provided contractor** places the plastic bags into an **overpack drum** and **seals** for disposal.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

292

Clean-up

Ensure **reusable** equipment is **properly reprocessed** and that **batteries** are **fully charged**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
STAND
BACK.

293

Clean-up

- Follow **manufacturer's instructions** for DECONing reusable PPE components.
 - Ensure someone has **designated responsibility** for DECONing.
- **Follow departmental/agency guidance.**
- **Follow CDC guidance.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

294

What MORE can you do to ensure a safe environment?

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EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR STAND
BACK.

295

Remember

- **Avoid unprotected direct body contact.**
- Stay at least **three (3) feet** away if you are not wearing appropriate PPE.
- Ensure you have the right **PPE.**

SUIT UP.
OR STAND
BACK.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

296

Remember

- Don and doff PPE **CAREFULLY.**
- **ALWAYS** have a Trained Observer when donning or doffing PPE.
- Take your **time**. Do **NOT** rush.
- **CONTAIN** used PPE and any contaminated materials **COMPLETELY.**



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

297

If you are functioning in an **EMS** capacity:

- Don PPE *before* entering the scene.
- **Identify** and **isolate** the patient **known** or **SUSPECTED** to have Ebola.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

298

If you are functioning in an **EMS** capacity:

- **Limit** the number of people who come into **contact** with the **patient** and **the patient care area**.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

299

If you are functioning in an **EMS** capacity:

Notify DHH/Office of Public Health/Infectious Disease Epidemiology (ID EPI) Section at **1-800-256-2748** . . .

- AND **notify** the **receiving** health care facility that the patient is **SUSPECTED** of having Ebola.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

300

If you are functioning in an **EMS** capacity:

- Limit pre-hospital procedures in transport that **increase** the **risk** of exposure to **infectious material**.





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

301

If you are functioning in an **EMS** capacity:

- For example, limit **intubation, opening or suctioning of airways, cardiopulmonary resuscitation** and similar procedures to the **minimum necessary for essential diagnostic evaluation and medical care.**





EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

302

If you are functioning in an **EMS** capacity:

- **Limit** the use of **needles** and other sharps as much as possible.
- **Follow your departmental/agency guidance and CDC guidance.**



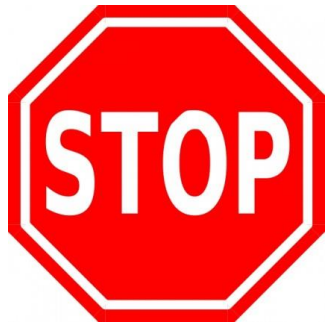


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

303

If exposed . . .



If you **suspect** you have been **exposed** to any contaminants while you are **on scene**, performing your duties OR doffing your PPE . . .

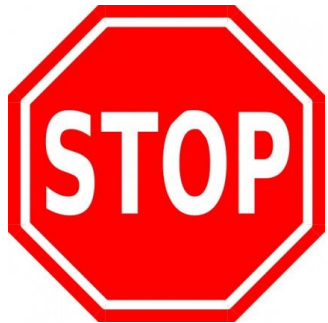


EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

304

If exposed . . .



- **STOP** work immediately.
- Wash exposed area with soap and water and/or irrigate eyes, nose and mouth if exposed, with large amounts of water or eyewash solution.
- **Notify** your supervisor.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR
**STAND
BACK.**

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Training and practice

Training and **practice** are **ESSENTIAL** to successfully **donning** and **doffing** PPE and **securing** used PPE.



EBOLA:
PREPARE + PREVENT + PROTECT + RESPOND

SUIT UP.
OR **STAND
BACK.**

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To get it right –
**PRACTICE! PRACTICE!
PRACTICE!**

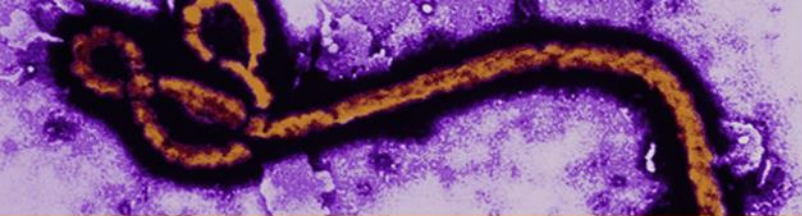


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- CDC has produced **video training aids** including **step-by-step guidance** for donning and doffing PPE.
- Steps in the **video** are sometimes **different** than steps identified in the CDC **written guidance**.
 - For example, sometimes steps are **consolidated**, others may vary depending on **type** of PPE selected.
- The preceding PowerPoint follows the step sequencing in the CDC **written guidance** published **October 20** and **28, 2014**.



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For more information . . .

- Visit these websites:
 - www.cdc.gov/vhf/ebola/hcp/interim-guidance-emergency-medical-services-systems-911-public-safety-answering-points-management-patients-known-suspected-united-states.html
 - www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html
 - osha.gov/pls/oshaweb/owadisp.Show_document?p_id=12716&p_table=standards





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Video resources

- **CDC PPE training module:**
www.cdc.gov/vhf/ebola/hcp/ppe-training/
- **PAPR with coveralls:**
www.cdc.gov/vhf/ebola/hcp/ppe-training/PAPRRespirator_Coveralls/donning_01.html
- **N95 with coveralls:**
www.cdc.gov/vhf/ebola/hcp/ppe-training/n95Respirator_Coveralls/donning_01.html



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- This presentation was **produced and published on November 13, 2014.**
- CDC guidance dated **October 20 and 28, 2014** were used as **foundational material.**
- CDC updates the **website** frequently. Check the website for **most current information.**

www.cdc.gov/vhf/ebola/index.html