



## Ebola PPE: Specific Considerations

### Pre-Donning Considerations:

- Introduce self/assigned staff and clarify roles
- Wearing makeup is not recommended as it impairs user comfort due to facial sweat.
- Consider using the toilet before putting on the PPE.
- Drink 1–2 litres of water before putting on the PPE to prevent dehydration. Profuse sweating is unavoidable while working with PPE so this won't cause the HCW to need to use the toilet.
- Fasting is not recommended before working with PPE.
- Check PPE items before starting the donning process; look for damage and irregularities like holes and cracks, and correct sizing
- Has EVD PPE training/N95 fit test/ been completed? Have any exclusion criteria been met? (pregnant, open skin/lesions to forearms, medical conditions as determined by Occupational and Environmental Safety and Health)
- Is it necessary to enter the room?
- Establish closed loop communication: e.g., establish eye contact and verbal prompt prior to activity; hand signals; code or red flag words
- Ensure self-awareness of habitual behaviours and the importance of minimizing them. Habitual behaviours include actions people do on a daily basis and without conscious thought, such as nose rubbing or beard stroking. People also carry out automatic actions in response to a stimulus, such as wiping sweat away from the forehead

## Donning – Outside Anteroom

Primary PPE	Key Points/Considerations
Don disposable scrubs	
Remove lanyards, watches, rings	<ul style="list-style-type: none"> <li>• Staff to place with their clothing in designated area</li> </ul>
Tie hair back	<ul style="list-style-type: none"> <li>• Hair to be away from face and neck and securely tied back if required</li> </ul>
Perform hand hygiene (HH)	<ul style="list-style-type: none"> <li>• ABHR unless visibly soiled, wash if soiled</li> </ul>
Visually inspect PPE	<ul style="list-style-type: none"> <li>• Ensure is in serviceable condition</li> <li>• Ensure all required PPE/supplies are available</li> <li>• Ensure sizes selected are correct for PPE user</li> </ul>
Perform hand hygiene (HH)	<ul style="list-style-type: none"> <li>• ABHR unless visibly soiled, wash if soiled</li> </ul>
Don inner set of BLUE 'very' extended cuff, closer-fitting gloves	<ul style="list-style-type: none"> <li>• Good fit, no tears, pulled up completely</li> <li>• Remain under the coveralls</li> </ul>
Don coveralls	<ul style="list-style-type: none"> <li>• Hood up, zipped up, adhesive over zipper</li> <li>• Ensure cuffs of BLUE gloves are under the coveralls</li> </ul>
Don shoe/leg Covers	<ul style="list-style-type: none"> <li>• Pull to knees</li> <li>• Ensure secure fit to avoid risk of tripping</li> </ul>
<i>Don overshoes if slipping hazard anticipated</i>	<ul style="list-style-type: none"> <li>• <i>Ensure secure fit to avoid risk of tripping</i></li> </ul>
Don gown	<ul style="list-style-type: none"> <li>• Ensure gown edges overlap to completely cover clothing, front and back</li> <li>• If not covered completely, first don a gown as a housecoat; then don second gown as usual</li> <li>• Ensure cuffs of BLUE gloves are under the gown</li> </ul>
Don N95 respirator	<ul style="list-style-type: none"> <li>• Seal check successful while monitor observes <ul style="list-style-type: none"> <li>– Respirator will bulge slightly if there is a good seal</li> <li>– If air escapes there is <u>not</u> a good seal</li> <li>– Adjust respirator until good seal achieved</li> </ul> </li> </ul>
Don full face shield	<ul style="list-style-type: none"> <li>• Ensure full coverage of face</li> <li>• Remove protective plastic coating if present</li> </ul>
Don outer set of GREEN extended cuff gloves	<ul style="list-style-type: none"> <li>• Good fit, no tears, pulled up completely</li> <li>• Place over cuff of gown</li> </ul>



Check PPE placement/integrity	<ul style="list-style-type: none"><li>• Monitor to check</li><li>• Adjust facial protection before entering; ensure visual field is clear</li><li>• Advise PPE user not to touch his/her face once in room</li></ul>
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To ensure PPE stays in place, before entering the room, the HCW should lean forward and gently shake head; perform a squat; and fully extend arms

Assistant PPE	Key points
Don disposable scrubs	
Remove lanyards, watches, rings	<ul style="list-style-type: none"> <li>• Staff to place with their clothing in designated area</li> </ul>
Tie hair back	<ul style="list-style-type: none"> <li>• Hair to be away from face and neck and securely tied back if required</li> </ul>
Perform hand hygiene (HH)	<ul style="list-style-type: none"> <li>• ABHR unless visibly soiled, wash if soiled</li> </ul>
Visually inspect PPE	<p>Ensure</p> <ul style="list-style-type: none"> <li>• Is in serviceable condition</li> <li>• All required PPE/supplies are available</li> <li>• Sizes selected are correct for PPE user</li> </ul>
Perform hand hygiene (HH)	<ul style="list-style-type: none"> <li>• ABHR unless visibly soiled, wash if soiled</li> </ul>
Don inner set of BLUE 'very' extended cuff, closer-fitting gloves	<ul style="list-style-type: none"> <li>• Good fit, no tears, pulled up completely</li> <li>• Remain under the gown</li> </ul>
Don gown	<ul style="list-style-type: none"> <li>• Secure ties</li> <li>• Ensure cuffs of BLUE gloves are under the gown</li> </ul>
Don procedure or surgical mask	<ul style="list-style-type: none"> <li>• Shape the metal piece to the nose bridge</li> <li>• Ensure mask is secured</li> </ul>
Don full face shield	<ul style="list-style-type: none"> <li>• Ensure full coverage of face</li> <li>• Remove protective plastic coating if present</li> </ul>
Don outer set of GREEN extended cuff gloves	<ul style="list-style-type: none"> <li>• Good fit, no tears, pulled up completely</li> <li>• Place over cuff of gown</li> </ul>
Check PPE placement/integrity	<ul style="list-style-type: none"> <li>• Monitor to check</li> <li>• Adjust facial protection before entering</li> <li>• Advise PPE user not to touch his/her face once correctly placed</li> </ul>

1. *FINAL CHECK PRIOR TO ENTRY OF BOTH CAREGIVERS*
2. *REINFORCE: DO NOT TOUCH FACE OR ADJUST PPE AFTER ENTRY*
3. *REINFORCE: CLOSED LOOP COMMUNICATION*
4. *ASK INDIVIDUALS WEARING PPE IF THEY ARE EXPERIENCING HEAT STRAIN*

**PRIMARY INDICATES HE/SHE IS READY TO EXIT, OR MONITOR NOTES FATIGUE IN ACTIONS OF THE PRIMARY**

**Monitor Pre-Doffing Considerations:**

- *Prompt staff prior to doffing*
- *Remind staff not to touch their face during PPE removal*
- *Ensure communication is closed loop and staff are connected*
- *If there are multiple primary staff, one at a time exits*

**Doffing – One Person at a Time**

**Perform hand hygiene whenever possible hand contamination has taken place, at any point during PPE removal**

Primary EVD PPE Doffing	Key Points
Visually inspect PPE prior to exiting patient room for obvious signs of contamination	<ul style="list-style-type: none"> <li>• Look for obvious signs of contamination. If evident, wipe PPE surface(s) with Oxivir TB wipe(s)</li> </ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"> <li>• Immerse gloved hands into basin and carefully rub together in Oxivir TB RTU solution</li> <li>• No splashing</li> </ul>
Disinfect door handle with Oxivir TB wipe(s)	<ul style="list-style-type: none"> <li>• Wait one minute after disinfection, then exit</li> </ul>
Enter anteroom space	<p><b>Primary</b></p> <ul style="list-style-type: none"> <li>• Step on walk off mat on exiting patient room</li> <li>• Stand facing anteroom exit</li> <li>• Stays in half of room closest to patient room (delineated by tape)</li> <li>• Remain on mat until doffing is completed and ready to exit the anteroom</li> </ul> <p><b>Monitor:</b></p> <ul style="list-style-type: none"> <li>• Reassure Primary to use slow pace and remain focused</li> <li>• Reinforce Primary you are there to assist</li> </ul>
Assistant enters anteroom staying in the half of the room closest to the hallway (anteroom exit)	<ul style="list-style-type: none"> <li>• After door to patient room closes (following Primary's entrance)</li> </ul>
Perform glove hygiene with Oxivir	<ul style="list-style-type: none"> <li>• Immerse gloved hands into basin and carefully rub</li> </ul>



TB RTU	<p>together in Oxivir TB RTU solution</p> <ul style="list-style-type: none"><li>• No splashing</li><li>• Primary to stand facing anteroom exit</li><li>• Reassure Primary to use slow pace and remain focused</li><li>• Reinforce to Primary you are there to assist</li></ul>
<i>If worn, remove overshoes</i>	<ul style="list-style-type: none"><li>• <i>Use toe to heel technique to carefully remove overshoes</i></li><li>• <b>Assistant:</b> <i>place in no-touch waste receptacle</i></li></ul>
Doff outer GREEN gloves	<ul style="list-style-type: none"><li>• Glove to glove, skin to skin technique</li><li>• Grasp first glove at palm and remove glove</li><li>• Scoop fingers under cuff of remaining GREEN glove and remove it, pulling it inside-out on removal</li><li>• Place in no-touch waste receptacle</li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Immerse gloves in Oxivir TB solution and carefully rub together</li><li>• No splashing</li></ul>
Doff gown with assistance	<p><b>Primary:</b></p> <ul style="list-style-type: none"><li>• Turn and face way from the Assistant</li></ul> <p><b>Assistant:</b></p> <ul style="list-style-type: none"><li>• Undo neck (top) and then waist (middle) ties</li><li>• Grasp gown at the shoulders</li><li>• Ease gown to midway down upper arm</li><li>• Step to the side</li></ul> <p><b>Primary:</b></p> <ul style="list-style-type: none"><li>• Turn and face Assistant</li><li>• Hook fingers under opposite cuff</li><li>• Pull gown over hand</li><li>• Use gown covered hand to pull gown over other hand</li><li>• Pull gown off without touching outside of gown</li><li>• Roll up inside out</li><li>• Place in no-touch waste receptacle</li></ul>
<i>IF DOUBLE GOWN WORN</i>	<p><b>To Remove Outer Gown:</b></p> <p><b>Primary</b></p> <ul style="list-style-type: none"><li>• <i>Face Assistant</i></li></ul> <p><b>Assistant</b></p>



	<ul style="list-style-type: none"><li>• <i>Grasp gown at the shoulders</i></li><li>• <i>Ease gown to midway down upper arm</i></li><li>• <i>Step to the side</i></li></ul> <p><b>Primary</b></p> <ul style="list-style-type: none"><li>• <i>Hook fingers under opposite cuff</i></li><li>• <i>Pull gown over hand</i></li><li>• <i>Use gown covered hand to pull gown over other hand</i></li><li>• <i>Pull gown off without touching outside of gown</i></li><li>• <i>Roll up inside out</i></li><li>• <i>Place in no-touch waste receptacle</i></li></ul> <p><b>To Remove Inner Gown</b></p> <p><b>Assistant</b></p> <ul style="list-style-type: none"><li>• <i>Grasp second (inner) gown by the shoulders and peel it partway down upper arm</i></li><li>• <i>One sleeve at a time grasp at the cuff and remove gown rolling outside to inside</i></li><li>• <i>Place in no-touch waste receptacle</i></li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Primary and Assistant</li><li>• Immerse gloved hands into basin and carefully rub together in Oxivir TB RTU solution</li><li>• No splashing</li></ul>
Doff shoe/leg covers with assistance	<p><b>Primary</b></p> <ul style="list-style-type: none"><li>• Follow direction of the assistant</li></ul> <p><b>Assistant</b></p> <ul style="list-style-type: none"><li>• Peel leg covers down by handling the outside</li><li>• Direct primary to lift heel; assistant to remove shoe cover</li><li>• Do not touch coverall</li><li>• Place in no-touch waste receptacle</li><li>• Repeat with other shoe/leg cover</li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Assistant</li><li>• Immerse gloved hands in Oxivir TB RTU solution and carefully rub together</li><li>• No splashing</li></ul>
Doff full face shield	<ul style="list-style-type: none"><li>• Face the anteroom exit</li></ul>



	<ul style="list-style-type: none"><li>• Primary to lean forward and grasp strap at the back of the head</li><li>• Close eyes</li><li>• Slowly remove in forward and down motion</li><li>• Place in no-touch waste receptacle</li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Primary and Assistant</li><li>• Immerse gloved hands in Oxivir TB RTU solution and carefully rub together</li><li>• No splashing</li></ul>
Doff N95 respirator	<ul style="list-style-type: none"><li>• Face the anteroom exit</li><li>• Primary to grasp elastics at the back of the head</li><li>• Close eyes</li><li>• Slowly remove in a forward and down motion</li><li>• Place in no-touch waste receptacle</li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Primary and Assistant</li><li>• Immerse gloved hands in Oxivir TB RTU solution and carefully rub together</li><li>• No splashing</li></ul>
Doff coveralls with assistance	<p><b>Primary</b></p> <ul style="list-style-type: none"><li>• Maintaining contact with the walk-off mat</li><li>• Face Assistant</li><li>• Tilt head/chin upward; keep eyes closed</li></ul> <p><b>Assistant</b></p> <ul style="list-style-type: none"><li>• Keep hands away from Primary's face</li><li>• Undo adhesive</li><li>• Carefully unzip to lower abdomen by pulling front of coveralls down while Primary tilts head/chin upwards</li><li>• Continue to unzip</li><li>• Use outside of hood to carefully uncover hood from head<ul style="list-style-type: none"><li>– Peel hood cover off by grasping on both sides of the head. Keep hands away from the Primary's unprotected face</li></ul></li><li>• Grasp suit by the shoulders</li><li>• Peel suit downwards to expose shoulders, partway</li></ul>





	<p>down the upper arm</p> <ul style="list-style-type: none"><li>• Use outside of sleeves to remove one sleeve at a time; only contact outside of coveralls</li><li>• Carefully roll downward and remove leg portion similar to remove of the shoe/leg covers above; avoid contamination of disposable scrubs</li><li>• Remove coveralls</li><li>• If contaminated surfaces of coveralls contact shoes during removal, wipe shoes with Oxivir TB disinfectant wipes. Ensure 1 minute contact time; allow to air dry</li><li>• Place in no-touch waste receptacle</li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Primary and Assistant</li><li>• Immerse gloved hands in Oxivir TB RTU solution and carefully rub together</li><li>• No splashing</li></ul>
Doff inner BLUE gloves	<ul style="list-style-type: none"><li>• Maintaining contact with the walk-off mat</li><li>• Glove to glove; skin to skin technique</li><li>• Grasp first glove at palm and remove glove</li><li>• Scoop fingers under cuff of remaining BLUE glove and remove it, pulling it inside-out on removal</li><li>• Place in no-touch waste receptacle</li><li>• Perform hand hygiene with ABHR</li></ul>
Exit Anteroom	<p><b>Assistant</b></p> <ul style="list-style-type: none"><li>• Turn and face the wall</li></ul> <p><b>Primary</b></p> <ul style="list-style-type: none"><li>• Exits anteroom. In this movement, primary unties neck then waist ties of Assistant</li><li>• Perform hand hygiene with ABHR</li></ul>

**Perform hand hygiene whenever possible hand contamination has taken place, at any point during PPE removal**

<b>Assistant PPE Doffing</b>	<b>Key Points</b>
Perform glove hygiene	<ul style="list-style-type: none"> <li>• After each contact with the Primary</li> <li>• Immerse gloves and careful rub together in Oxivir TB RTU solution</li> </ul>
Perform hand hygiene	<ul style="list-style-type: none"> <li>• Whenever possible hand contamination has taken place, at any point during PPE removal</li> </ul>
Doff outer GREEN gloves	<ul style="list-style-type: none"> <li>• Glove to glove, skin to skin technique</li> <li>• Grasp first glove at palm and remove glove</li> <li>• Scoop fingers under cuff of remaining GREEN glove and remove it, pulling it inside-out on removal</li> <li>• Place in no-touch waste receptacle</li> </ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"> <li>• Immerse gloves in Oxivir TB solution whenever possible contamination has taken place, at any point during PPE removal</li> <li>• No splashing</li> <li>• Pat dry with Oxivir TB wipe</li> </ul>
Doff gown	<ul style="list-style-type: none"> <li>• Face the anteroom exit</li> <li>• Hook fingers under opposite cuff</li> <li>• Pull gown over hand</li> <li>• Use gown covered hand to pull gown over other hand</li> <li>• Pull gown off without touching outside of gown</li> <li>• Roll up inside out</li> <li>• Place in no-touch waste receptacle</li> </ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"> <li>• Immerse gloves in Oxivir TB solution whenever possible contamination has taken place, at any point during PPE removal</li> <li>• No splashing</li> <li>• Pat dry with Oxivir TB wipe</li> </ul>
Doff full face shield	<ul style="list-style-type: none"> <li>• Face the anteroom exit</li> <li>• Lean forward and grasp strap at the back of the head</li> <li>• Close eyes</li> <li>• Slowly remove in forward and down motion</li> <li>• Place in no-touch waste receptacle</li> </ul>



Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Immerse gloves in Oxivir TB solution whenever possible contamination has taken place, at any point during PPE removal</li><li>• No splashing</li><li>• Pat dry with Oxivir TB wipe</li></ul>
Doff procedure or surgical mask	<ul style="list-style-type: none"><li>• Face the Monitor</li><li>• Procedure masks:<ul style="list-style-type: none"><li>– Remove using loops or ties</li><li>– Do not touch front of mask</li></ul></li><li>• Close eyes</li><li>• Slowly remove in a forward and down motion</li><li>• Place in no-touch waste receptacle</li></ul>
Perform glove hygiene with Oxivir TB RTU	<ul style="list-style-type: none"><li>• Immerse gloves in Oxivir TB solution/perform hand hygiene whenever possible hand contamination has taken place, at any point during PPE removal</li><li>• No splashing</li><li>• Pat dry with Oxivir TB wipe</li></ul>
Doff inner BLUE gloves	<ul style="list-style-type: none"><li>• Maintaining contact with the walk-off mat</li><li>• Glove to glove; skin to skin technique</li><li>• Grasp first glove at palm and remove glove</li><li>• Scoop fingers under cuff of remaining BLUE glove and remove it, pulling it inside-out on removal</li><li>• Place in no-touch waste receptacle</li></ul>
Perform Hand Hygiene	<ul style="list-style-type: none"><li>• Perform hand hygiene with ABHR and exit room</li><li>• Perform hand hygiene after exiting room</li></ul>