



CANADIAN FEDERATION  
OF NURSES UNIONS  
LA FÉDÉRATION CANADIENNE  
DES SYNDICATS D'INFIRMIÈRES  
ET INFIRMIERS

**Revised December 22, 2014**

This directive replaces the directive issued on October 20, 2014

**Safety Is Not Negotiable  
CFNU's Policy Directive  
Emergency Preparedness for the Ebola Virus Disease**

A large portion of the world has now entered a phase of emergency preparedness planning for possible outbreaks of Ebola virus disease (EVD) as the virus has spread to North America and Europe. While standards may vary, the knowledge and understanding of the spread of disease are raising the minimum standards for acceptable risk.

It is CFNU's position that no nurse, or other health care personnel, should have unprotected exposure to EVD. Appropriate training and personal protective equipment (PPE) must be provided before a nurse is assigned to care for a potential EVD patient. Nurses may invoke the right to refuse work if they feel unsafe, in accordance with and subject to provincial Occupational Health and Safety (OH&S) legislation. While this is a last resort for any worker to be used only when the system fails to protect them, if they feel the need to exert that right their union will represent them.

The primary lesson learned from SARS (and H1N1) is expressed in the precautionary principle that safety comes first. Any action designed to reduce risk should not await scientific certainty.<sup>1</sup> In addition to body protection, the precautionary principle compels the use of respiratory protection for a pathogen like the Ebola virus that has: a) no proven pre- or post-exposure treatment modalities; b) a high case-fatality rate, and c) no scientific certainty about aerosol transmissibility.

The Canadian Federation of Nurses Unions believes that the precautionary principle 1) is protective of workers' health and safety and 2) must be used to guide decision-making with respect to infection control.

This Policy Directive covers protocols and procedures, employer containment measures, staffing/training, personal protective equipment (PPE), and communications. Further

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<sup>1</sup> Campbell, Archie. (2006). *The SARS Commission Final Report*. Government of Ontario: Commission to Investigate the Introduction and Spread of SARS in Ontario.

statements for other settings, Emergency Medical Services (EMS), primary care and laboratories, and concerning training, testing, transportation of specimens, waste disposal, and other matters may follow.

### **Transmission of EVD**

As the revised Ontario Government *Ebola Virus Disease Directive #1*, dated October 30, 2014, states: “Transmission of EVD can occur directly through contact with blood and/or body fluids or droplets; indirectly through contact with patient care equipment, materials or surfaces contaminated with blood and/or body fluids; possibly through generation of aerosols created during aerosol-generating procedures.”<sup>2</sup>

Recent advice by experts, led by Dr. Lisa Brosseau, calls for a rejection of the impractical distinction between “contact,” “airborne” or “aerosol” transmission, because infection is possible “regardless of the particle size.”<sup>3</sup> In her commentary, Brosseau states that it is possible for virus-laden bodily fluids to be aerosolized and inhaled while a person is in proximity to an infectious person, noting that a wide range of particle sizes can be inhaled and deposited throughout the respiratory tract. Patient secretions such as “vomit, diarrhea, blood, and saliva are capable of creating inhalable aerosol particles in the immediate vicinity of an infected person.”<sup>4</sup> Aerosols are inhalable tiny particles *temporarily* suspended in the air in close proximity to the patient.<sup>5</sup> Aerosol-generating procedures (AGPs) such as intubation and re-intubation (due to an accidental extubation), flushing of toilets, and lab procedures etc. could also generate aerosols. Therefore, frontline workers need their airways protected while in proximity to potentially aerosolized Ebola virus.

CFNU appreciates the *Statement on Infection Prevention and Control Measures for Ebola Virus Disease* issued by Dr. Gregory Taylor, Canada’s Chief Public Health Officer (December 19, 2014). However, we believe that the *Advice on Infection Prevention and Control Measures for Ebola Virus Disease in Healthcare Settings* as issued by the Public Health Agency of Canada (PHAC) on December 19, 2014 does not go far enough to protect health care workers from the Ebola virus disease (EVD) in Canada.

### **Therefore the CFNU is recommending:**

**Current actions required by government/employers in consultation with unions and Joint Occupational Health and Safety Committees (JOHSC) for preventing exposure:**

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<sup>2</sup> Government of Ontario. (2014, October 30). *Ebola Virus Disease Directive #1*. Retrieved from [http://www.health.gov.on.ca/en/public/programs/emu/ebola/docs/evd\\_directive\\_1\\_20141030.pdf](http://www.health.gov.on.ca/en/public/programs/emu/ebola/docs/evd_directive_1_20141030.pdf)

<sup>3</sup> Brosseau, L.; Jones, R. (2014, September 17). *Commentary: Health Workers Need Optimal Respiratory Protection for Ebola*. Center for Infectious Disease Research and Policy (CIDRAP). Retrieved from <http://www.cidrap.umn.edu/news-perspective/2014/09/commentary-health-workers-need-optimal-respiratory-protection-ebola>.

<sup>4</sup> Ibid.

<sup>5</sup> Ibid.

## **Protocols and Procedures**

- Employers must conduct initial and ongoing facility risk assessments to identify potential hazards and the risk of workers being exposed to the Ebola virus. Employers must share results with the Joint Occupational Health and Safety Committees (JOHSC).<sup>6</sup>
- Implement changes in policies, procedures, equipment and the environment to eliminate or minimize identified risks in accordance with a hierarchy of controls approach to hazards.
- Ensure that health care providers are fully trained, tested and drilled in conducting a point-of-care risk assessment before each interaction with a patient and/or the patient's environment to evaluate the likelihood of exposure to contact and/or aerosols in care procedures, equipment, and treatment settings to determine the appropriate safe work practices.
- Ensure that screening and readiness protocols are in place across all hospital points of entry, including prominent signage, active screening by workers with access to appropriate personal protective equipment and EVD training, plus the ability to summon trained, equipped personnel, when a suspect patient is identified, and implement isolation measures for those with symptoms.
- Implement protocols for safe provision of care for patients (i.e. 2 RNs per patient).
- Implement cleaning protocols, waste disposal protocols.
- Implement a standardized, prescriptive Ebola PPE-specific donning and doffing procedure that includes a fully trained monitor to observe and correct the donning/doffing. Include practical direction for activities such as changing gloves while in isolation (e.g., between care tasks).
- Implement – immediately – a communications strategy for all management and staff. This strategy must clearly identify the steps to take when a potential EVD patient presents in health care facilities. Similar communications must be developed for the public. It is important to maintain patient/staff confidentiality.

## **Employer Containment Measures\***

<b>Placement, rooms and equipment</b>	<b>Health care workers</b>
<ul style="list-style-type: none"><li>• Direct high-risk persons (i.e., relevant travel history) to the Emergency Department;</li><li>• Engineering controls (general): restricted areas, suitable structural barriers (impermeable, transparent, easily decontaminated, allows for two way communication, and of sufficient height and breadth to prevent physical contact and passage of</li></ul>	<ul style="list-style-type: none"><li>• Avoid contact with suspected or confirmed EVD cases or their environment if have open skin areas/lesions;</li><li>• Ensure workers are fully trained and drilled to avoid touching the mucous membranes of eyes, nose and mouth with hands to prevent self-contamination;</li><li>• Avoid contact between contaminated</li></ul>

<sup>6</sup> OH&S Committee names may vary from province to province.

<p>droplets/splash/spray), disposable equipment, and separate examination rooms and waiting area;</p> <ul style="list-style-type: none"> <li>• Move patient immediately to a space, separate from other patients and with access to a dedicated washroom or commode, when a suspected case of EVD is identified;</li> <li>• Notify the facility's Occupational Health and Safety team, and the medical officer of health at the public health unit; isolate in airborne infection isolation room (AIIR) if available;</li> <li>• Provide properly equipped isolation rooms, with clean anterooms, to ensure patient, visitor and staff safety;</li> <li>• Ensure that sufficient protective measures and equipment are in place for screening locations;</li> <li>• Use closed system medical devices, needless; needles should be for medically essential procedures only, and a safety-engineered needle must be used;</li> <li>• Use disposable equipment whenever possible; non-disposable equipment should be dedicated to the patient.</li> </ul>	<p>gloves/hands and equipment and the face, skin or clothing when removing PPE;</p> <ul style="list-style-type: none"> <li>• Clean hands before contact with any part of the body. If in doubt, repeat hand hygiene to ensure mucous membranes (eyes, nose, mouth) are not contaminated;</li> <li>• Fully train workers to understand the importance of reporting potential occupational/community exposure to EVD (i.e., direct exposure without appropriate PPE, percutaneous injuries) to immediate supervisor who must notify JOHSC or delegates as well as local public health authorities;</li> <li>• Fully train and support workers in proactively reporting to managers any absence of, deficiency in, or failure of equipment, protocols, measures or procedures.</li> </ul>
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\* Duration of precautions: For confirmed EVD cases, precautions should be maintained until all symptoms have resolved with patients undergoing ongoing assessments on a case-by-case basis in consultation with an infectious disease specialist.

## **Employer Duties for Staffing and Training**

<b>Staffing</b>	<b>Training</b>
<ul style="list-style-type: none"><li>• Ensure that for high-risk patients two registered nurses for every patient , at a minimum, are provided;</li><li>• Ensure that only nurses that are fully trained, tested and drilled on hazards, protections and equipment donning and doffing provide care; they must have no other duties and monitor each other's adherence to procedures, in particular the donning and doffing of personal protective equipment (PPE);</li><li>• Ensure sufficient staffing is available to supplement nurses and other health workers who need to care for patients in isolation;</li><li>• Limit the numbers of staff caring for patients in isolation;</li><li>• Schedule work in a manner that allows for rest periods and recovery periods, and implement systems for monitoring fatigue;</li><li>• Assign an individual to each RN providing patient care who is trained in safety observation to monitor the appropriate selection, application, removal, and disposal of PPE, to avoid contamination of the health care workers, and to monitor entry to room (i.e., limit entry to only essential workers);</li><li>• Assign a manager or supervisor to be available at all times to liaise with Joint Occupational Health and Safety Committees (JOHSC).</li></ul>	<ul style="list-style-type: none"><li>• Ensure that identified workers have ready access to PPE, and are trained, tested and regularly drilled in the Ebola hazards, the use of all measures and procedures related to their work, including the reason for and use of protective equipment (specifically how to don and doff the equipment), and all safety protocols;</li><li>• Train staff on an ongoing basis in the care provisions/protocols for patients with EVD.</li><li>• Implement health care worker resilience training and psychological support to minimize stressors faced when caring for EVD patients.</li></ul>

### **If suspect exposure to EVD:**

Perform first aid immediately if there is any exposure to blood/body fluids. Follow the following steps (eyewash fountain and deluge showers should be available):

- ✓ Rinse non-intact skin thoroughly with running water if it is contaminated with blood/body fluids, secretions or excretions;
- ✓ Flush mucous membranes of the eyes, nose or mouth with running water, if contaminated with blood/body fluids, secretions or excretions;
- ✓ Rinse the site of a percutaneous injury with running water; any wound should be gently cleansed with soap and water;
- ✓ Report exposure immediately to employer and obtain immediate medical attention.

### **If exposed to suspected or confirmed cases of Ebola:**

- Self-monitor for EVD symptoms for 21 days following last contact;
- Adhere to the guidelines established by PHAC, for example, on travel;
- Do not work if symptomatic and inform employer if symptoms arise;
- Provide monitoring and support by the staff health care nurse in the health care facility.

### **Employer Provision of Personal Protective Equipment (PPE)**

The type of personal protective equipment (PPE) provided is based on the precautionary principle and the nature of the interaction with the client or patient, and takes into account the following elements:

- anticipated degree of contact;
- risk posed by EVD;
- potential for blood/body fluid contact;
- potential for aerosol transmissibility;
- length of potential exposure.
- PPE should be provided outside the patients' room or in the clean anteroom.
- Sufficient supplies (for identified health care workers) of protective equipment should be provided, including protective full body protection with impermeable and fluid-resistant gowns, gloves, hoods, face shields, non-slip, fluid-resistant and impermeable foot protection, full bio hazard suits such as "hazmat" suits, full respiratory protection (including a powered air purifying respirator (PAPR) which, according to experts, offers advantages over an N95 filtering facepiece, being more protective, comfortable, and cost-effective in the long run<sup>7</sup>).

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<sup>7</sup> Brosseau, L.; Jones, R. (2014, September 17). *Commentary: Health Workers Need Optimal Respiratory Protection for Ebola*. Center for Infectious Disease Research and Policy (CIDRAP). Retrieved from <http://www.cidrap.umn.edu/news-perspective/2014/09/commentary-health-workers-need-optimal-respiratory-protection-ebola>

Low-risk <sup>8</sup> (such as triage)	High-risk <sup>9</sup> (confirmed case)
<ul style="list-style-type: none"> <li>• Fit-tested, seal-checked N95 respirator;</li> <li>• Full face shield: face shields should be long enough to prevent splashing underneath; eye glasses are not suitable eye protection;</li> <li>• Gown (fluid-resistant or impermeable);</li> <li>• Double gloves (impermeable) – one under and one over cuff;</li> <li>• Supplies for respiratory hygiene, emesis management available (tissues, basins, hand hygiene products, designated hand washing sinks, and no-touch receptacles);</li> <li>• <b>At any time where a patient appears to be developing, or you are concerned they will develop “high-risk” symptoms (i.e., vomiting, diarrhea, coughing), high-risk measures will be implemented immediately and therefore, enhanced PPE must be available.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Powered air purifying respirator (PAPR) with an assigned protection factor of at least 50 or higher standard as appropriate or a fit-tested, seal-checked N95 respirator<sup>10</sup>;</li> <li>• Full face shield: face shields should be long enough to prevent splashing underneath; eye glasses are not suitable eye protection;</li> <li>• Leg and non-slip, impermeable foot protection;</li> <li>• Double gloves (impermeable) – one under and one over cuff, fit securely over cuffs and worn to enter the patients’ room (gloves should be removed and discarded into a no-touch waste receptacle, and after doffing of each piece of PPE); hand hygiene should be performed and repeated on exit from the patient’s room;</li> <li>• Biohazard suits that meet the American Society for Testing and Materials (ASTM) F1670 standard for blood penetration, the ASTM F1671 standard for viral penetration, and that leave no skin exposed or unprotected (such as “hazmat” suits); long-sleeved, cuffed, impermeable suit put on prior to entry to the room;</li> <li>• Disposable suits should be discarded into a no-touch waste receptacle immediately after use and after doffing of each piece of PPE; hand hygiene should be performed before leaving the patient room.</li> </ul>

<sup>8</sup> Patient who is mildly symptomatic and non-diagnosed: mild fever, fatigue, headache, sore throat, muscle pain.

<sup>9</sup> Hospitalized patient who is confirmed as infected with the Ebola Virus Disease with more advanced symptoms such as diarrhea, vomiting, sweating, etc. or aerosol-generating procedures.

<sup>10</sup>The decision by the health care worker to use a PAPR or a fit tested, seal-checked N95 respirator should be informed by the assessment of balance of risk among comfort, familiarity with the equipment and risk of contamination during doffing.

## **Additional Resources**

- Provide regionally-based emergency rapid-response teams of clinical, occupational health and safety and other experts to respond to any cases of Ebola identified in Canada;
- Provide a 24/7 telephone resource for frontline workers to call with questions.

## **Communications**

Create national and provincial Ebola command tables which include ministers and deputy ministers of health, chief medical officers of health, ministers of labour, union representatives and union OH&S experts, as well as other health care stakeholders.

### Internal communications

For cases of suspected or confirmed EVD, Joint Occupational Health and Safety Committees (JOHSC) must be immediately notified. A communications strategy to reach to all frontline health care workers with a consistent message throughout our health care system must be developed. Updated policies, procedures, fact sheets and Q&As must be made readily available and accessible.

### External communications

All cases of suspected or confirmed EVD must be reported to the medical officer of health at the public health unit immediately. Hospitals and health care facilities caring for patients with suspect or confirmed EVD should have communication plans for the public and media to ensure staff and patient confidentiality.

## **Ongoing Commitments to Pandemic Preparedness**

- Develop and implement respiratory protection programs complete with training about the hazards, protections, and appropriate equipment to ensure workers understand the respiratory hazards and proper use of N95 and PAPR respirators, and that N95 respirators are fit-tested annually, and ensure that health workers receive sufficient training, including information about the health risks of an emergency and/or pandemic situation.
- Prepare institutional pandemic plans in consultation with Joint Occupational Health and Safety Committees, nurses and other health care workers, and inform and educate workers about these plans. If an OH&S committee does not exist, discussions will be expanded to health care unions.
- Adopt a pan-Canadian approach to emergency preparedness, incorporating the precautionary principle, and requiring the same standard for personal protective equipment (PPE) and pandemic planning across Canada.
- Encourage workers to report to managers who will support them and competently respond to their concerns if they do not have confidence in the equipment, measures or procedures in place.

## **Conclusion**

Nurses are expected to be prepared to face any number of health emergencies in numerous health care settings. The ability to respond quickly and efficiently to emergencies is fundamental to nursing. However, society has a reciprocal responsibility to protect them when they do so. A safe, secure and effective response requires the support of many parts of the health care system. It requires emergency preparedness planning, proper administrative, communication and engineering controls, the support of the administrators of the health system, as well as the government to provide the necessary protective equipment and training that takes into consideration risk and the precautionary principle.

As Justice Campbell noted in his SARS Commission report on what went wrong in Ontario during SARS, if workers are not protected from health and safety hazards, patients and the public are not protected either.<sup>11</sup> We must ensure the safety of the population by requiring a proper standard of safety and training of health care workers, especially in the event of a pandemic. We cannot take the risks associated with not providing adequate equipment in terms of the proper safety devices or in the quantity of stockpiled equipment.

***Please Note:*** *The Canadian Federation of Nurses Unions may amend this policy directive as necessary to accommodate changes in the situation with respect to EVD.*

*The Canadian Federation of Nurses Unions (CFNU) represents close to 200,000 nurses and student nurses. Our members work in hospitals, long-term care facilities, community health care, and our homes. The CFNU speaks to all levels of government, other health care stakeholders and the public about evidence-based policy options to improve patient care, working conditions, the safety of nurses, and our public health care system.*

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<sup>11</sup> Campbell, Archie. (2006). *The SARS Commission Final Report*. Government of Ontario: Commission to Investigate the Introduction and Spread of SARS in Ontario.

Approved December 22, 2014:



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