

Table 2: Recommended Measures for the PRO PPE Surveillance System

(As of March 15, 2016)

Recommended Measures for PRO PPE Sentinel Surveillance System (as of March 15, 2016)	
PREPAREDNESS	
Primary and Secondary Measures	Description
<p>I. PPE available to the hospital</p> <p>1. Total number of specific PPE available to the hospital from all sources</p> <p>a) Fluid-resistant gowns: brand, models, and size available</p> <p>b) Impermeable gowns: brand, models, and size available</p> <p>c) Coveralls with hoods: make/brand, models and size available</p> <p>d) Coveralls without hoods: brand, models and size available</p>	<p>1. Total number of PPE available to the hospital from all sources on the last day of the reporting period:</p> <p>a) Total number of single-use (disposable) fluid-resistant gowns that extend to at least mid-calf from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of gowns available as of the last day in the reporting period • Models of gowns available as of the last day in the reporting period • Sizes of gowns by make and model available as of the last day in the reporting period <p>b) Total number of single-use (disposable) impermeable gowns that extend to at least mid-calf from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of gowns available as of the last day in the reporting period • Models of gowns available as of the last day in the reporting period • Sizes of gowns by make and model available as of the last day in the reporting period <p>c) Total number of coveralls with integrated hoods from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of coveralls available as of the last day in the reporting period • Models of coveralls available as of the last day in the reporting period • Sizes of coveralls by make and model available as of the last day in the reporting period <p>d) Total number of coveralls without integrated hoods from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of coveralls available as of the last day in the reporting period • Models of coveralls available as of the last day in the reporting period • Sizes of coveralls by make and model available as of the last day in the reporting period <p>e) Total number of gloves with extended cuffs from all sources as of the</p>

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<p>e) Gloves with extended cuffs: brand, models and size available</p>	<p>last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of gloves available as of the last day in the reporting period • Models of gloves available as of the last day in the reporting period • Sizes of gloves by make and model available as of the last day in the reporting period • Unit of measure for gloves with extended cuffs (single or pairs)
<p>f) Gloves without extended cuffs: brand, models and size available</p>	<p>f) Total number of gloves without extended cuffs from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of gloves available as of the last day in the reporting period • Models of gloves available as of the last day in the reporting period • Sizes of gloves by make and model available as of the last day in the reporting period • Unit of measure for gloves without extended cuffs (single or pairs)
<p>g) Fluid-resistant boot covers: brand, models and size available</p>	<p>g) Total number of single-use (disposable) fluid-resistant boot covers from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of boot covers available as of the last day in the reporting period • Models of boot covers available as of the last day in the reporting period • Sizes of boot covers by make and model available as of the last day in the reporting period • Unit of measure for fluid-resistant boot covers (single or pairs)
<p>h) Impermeable boot covers: brand, models and size available</p>	<p>h) Total number of single-use (disposable) impermeable boot covers from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of boot covers available as of the last day in the reporting period • Models of boot covers available as of the last day in the reporting period • Sizes of boot covers by make and model available as of the last day in the reporting period • Unit of measure for impermeable boot covers (single or pairs)
<p>i) Fluid-resistant aprons: brand, models and size available</p>	<p>i) Total number of single-use (disposable) fluid-resistant aprons from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of aprons available as of the last day in the reporting period • Models of apron available as of the last day in the reporting period • Sizes of aprons by make and model available as of the last day in the reporting period
<p>j) Impermeable aprons: brand, models and size available</p>	<p>j) Total number of single-use (disposable) impermeable aprons from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of aprons available as of the last day in the reporting period

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<p>k) Face masks: brand, model and size available</p>	<ul style="list-style-type: none"> • Models of apron available as of the last day in the reporting period • Sizes of aprons by make and model available as of the last day in the reporting period <p>k) Total number of single-use (disposable) fluid-resistant face masks (e.g. surgical masks) from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of face masks available as of the last day in the reporting period • Models of face masks available as of the last day in the reporting period • Sizes of face masks by make and model available as of the last day in the reporting period
<p>l) Surgical hoods: brand, model and size available</p>	<p>l) Total number of single-use (disposable) surgical hoods extending to shoulders from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of surgical hoods available as of the last day in the reporting period • Models of surgical hoods available as of the last day in the reporting period • Sizes of surgical hoods by make and model available as of the last day in the reporting period
<p>m) Face shields: brand, model and size available</p>	<p>m) Total number of single-use (disposable) full face shields from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of face shields available as of the last day in the reporting period • Models of face shields available as of the last day in the reporting period • Sizes of face shields by make and model available as of the last day in the reporting period
<p>n) N95 face piece respirators: brand, model and size</p>	<p>n) Total number of N95 filtering facepiece respirators from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of N95 filtering facepiece respirators available as of the last day in the reporting period • Models of N95 filtering facepiece respirators available as of the last day in the reporting period • Sizes of N95 filtering facepiece respirators by make and model available as of the last day in the reporting period
<p>o) PAPR respirators: brand, model and size available</p>	<p>o) Total number of Powered air purifying respirators from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of Powered air purifying respirators available as of the last day in the reporting period • Models of Powered air purifying respirators available as of the last day in the reporting period

<p>p) Elastomeric respirators: brand, model, and size available</p>	<p>day in the reporting period</p> <ul style="list-style-type: none"> • Sizes of Powered air purifying respirators by make and model available as of the last day in the reporting period <p>p) Total number of Elastomeric respirators from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of Powered air purifying respirators available as of the last day in the reporting period • Models of Powered air purifying respirators available as of the last day in the reporting period • Sizes of Powered air purifying respirators by make and model available as of the last day in the reporting period <p>q) Total number of Portable HEPA filters from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of Powered air purifying respirators available as of the last day in the reporting period • Models of Powered air purifying respirators available as of the last day in the reporting period <p>r) Total number of Temporary environmental containment units from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of Powered air purifying respirators available as of the last day in the reporting period • Models of Powered air purifying respirators available as of the last day in the reporting period
<p>q) Portable HEPA filters</p>	<p>r) Temporary environmental containment units</p>
<p>r) Temporary environmental containment units</p>	<p>s) Negative air machines</p> <p>s) Total number of Negative air machines from all sources as of the last day in the reporting period</p> <ul style="list-style-type: none"> • Brand of Powered air purifying respirators available as of the last day in the reporting period • Models of Powered air purifying respirators available as of the last day in the reporting period <p>2. List of functional areas with PPE in stock (routine inventory, emergency preparedness supply, training inventory)</p> <p>3. Numbers of PPE by type and model/size available by functional area (routine inventory, emergency preparedness supply, training inventory) as of the last day of the reporting period</p>
<p>s) Negative air machines</p> <p>2. Functional areas with PPE in stock</p> <p>3. PPE by type, model, size available by functional area</p>	

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<p>4. Average amount of individual PPEs in inventory per 100 beds across all PRO hospitals</p> <p>5. Average amount of complete Ebola ensembles/kits in inventory per 100 beds across all PRO participating hospitals</p> <p>6. Total number of individual PPEs available to the hospital from all locations in the hospital per 100 staffed beds</p> <p>7. Total number of complete Ebola ensembles/kits available to the hospital from all locations in the hospital per 100 staffed beds</p> <p>8. Percent of CDC guideline PPE stocked at the hospital</p> <p>9. Proportion of Ebola Treatment Centers (ETCs) that can access their PPE supply (i.e. know location and have sufficient quantity of unexpired supply) within 10 minutes of patient with suspected Ebola transfer notification or upon the patient's arrival (if no notice) (Goal: 100%)</p> <p>10. Proportion of assessment hospitals that can access their PPE supply (i.e., know location and have sufficient quantity of unexpired supply) within 10</p>	<p>4. Average inventory count, per PPE across all participating PRO hospitals, per 100 beds</p> <p>5. Average inventory count, per complete Ebola ensemble across all participating PRO hospitals, per 100 beds</p> <p>6. Total inventory count, per PPE, for all PPE locations within a single hospital, per 100 staffed beds at the hospital</p> <p>7. Total number of complete Ebola ensembles available at a single hospital, from all PPE locations within the hospital, per 100 staffed beds at the hospital</p> <p>8. Percent of PPE inventory at a hospital that is recommended in the CDC guidance for Ebola PPE</p> <p>9. Percent of ETCs participating in PRO that can access their PPE supply within 10 minutes of arrival of a person under investigation (PUI), via submitting a PRO Survey</p> <p>10. Percent of Assessment hospitals participating in PRO that can access their PPE supply within 10 minutes of a PUI arrival, via submitting a PRO Survey</p>
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<p>minutes of a patient with suspected Ebola transfer notification or arrival, if no notification (Goal: 100%)</p>	
<p>II. Number of HCP ready to use PPE (Ebola PPE ensemble, N95 respirators or PAPR)</p>	<p>The total number of staff who completed training in the reporting period for Ebola PPE ensemble, N95 respirators and PAPR, as of the last day of the reporting period</p>
<p>a) Number of HCP trained in PPE use</p>	<p>a) Total number of staff who completed training for Ebola PPE ensemble, N95 respirators and PAPR, as of the last day of the reporting period</p>
<p>b) Percent of eligible HCP ready to use the Ebola PPE ensemble</p>	<p>b) Number of HCP trained that are ready to don the Ebola PPE ensemble per total number HCPs eligible for Ebola ensemble training during reporting period as of the last day of the reporting period</p>
<p>c) Number of HCP ready to wear Ebola ensemble per 100 staffed beds</p>	<p>c) Number of HCP trained to use the Ebola PPE ensemble during the reporting period per 100 staffed beds</p>
<p>d) Percent of eligible HCP ready to wear a respirator (N95 or PAPR)</p>	<p>d) Number of HCP who completed N95 respirator fits tests/training or PAPR training during the reporting period per total number of HCPs eligible for the respirator program as of the last day of the reporting period</p>
<p>e) Number of HCP ready to wear a respirator per 100 staffed beds</p>	<p>e) Number of HCP who completed their annual N95 fit test or PAPR training in the reporting period per 100 staffed hospital beds</p>
<p>f) Number of HCP fit tested and trained for respirator use during the reporting period</p>	<p>f) Number of healthcare personnel who had routine N95 fit tests/training or PAPR training during the reporting period</p>
<p>g) Designated primary respirator</p>	<p>g) Brand and model of the first respirator attempted for fit test under respirator program protocol</p>
<p>h) Designated secondary respirator</p>	<p>h) Brand and model of the second respirator attempted for fit test under respirator program protocol</p>
<p>i) Number of N95 respirators used for fit testing/training in the reporting period</p>	<p>i) Number of primary and secondary respirators used for N95 fit testing/training by brand/model/size during the reporting period</p>

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<p>III. Isolation Rooms for Patient Care and Evaluation of a PUI (Person Under Investigation)</p> <ul style="list-style-type: none"> a) AIIRs per 100 staffed beds b) Number of Portable HEPA units per 100 staffed beds c) AIIRs that meet the CDC Ebola guidance for caring for a PUI per 100 staffed beds d) Number of Ebola Patients that can be treated concurrently (Beds, Staff, PPE) 	<p>Number of designated AIIRs (Airborne Infection Isolation Rooms) for Patient Care and Evaluation of a PUI in hospital as of report date</p> <ul style="list-style-type: none"> a) Total number of patient AIIRs (Airborne Infection Isolation Rooms) per 100 staffed hospital beds, as of the last day of the reporting period b) Number of rooms representing added capacity with portable HEPA units, per 100 staffed beds, as of the last day of the reporting period c) Total number of AIIRs that meet the CDC's Ebola guidance for caring for a PUI, per 100 staffed hospital beds, as of the last day of the reporting period d) Using the CDC PPE calculator, the number of patients that can be treated concurrently at the hospital given the number of rooms at that hospital meeting CDC guidance for caring for a PUI and the number of eligible staff trained to use the Ebola PPE ensemble
<p>IV. Contagious pathogen Surveillance and reporting activities</p> <p>1. List of surveillance and reporting activities by contagious pathogen</p>	<p>1. Type of contagious pathogen for which there is surveillance/reporting activity (HCP Vaccinations, HCP Medical Surveillance, Reporting to State, Disease-Specific Training, , as applicable)</p> <ul style="list-style-type: none"> a) List of surveillance and reporting activities for Ebola Virus Disease <ul style="list-style-type: none"> a. Reporting to State b. Disease-Specific Training b) List of surveillance and reporting activities for MERS/SARS <ul style="list-style-type: none"> a. Reporting to State c) List of surveillance and reporting activities for Tuberculosis <ul style="list-style-type: none"> a. Medical Surveillance b. Reporting to State d) List of surveillance and reporting activities for Measles <ul style="list-style-type: none"> a. HCP Vaccinations b. Reporting to State e) List of surveillance and reporting activities for Disseminated Varicella Zoster <ul style="list-style-type: none"> a. HCP Vaccinations b. Reporting to State f) List of surveillance and reporting activities for Smallpox

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<p>2. HCP screening in reporting period, by contagious pathogen</p>	<ul style="list-style-type: none"> a. Reporting to State b. HCP Vaccinations g) List of surveillance and reporting activities for 'Other' <p>2. Number of HCP in screening groups (medical surveillance) during reporting period, by contagious pathogen</p> <ul style="list-style-type: none"> a) Number of unique healthcare personnel in TB periodic screening group, as of the last day of the reporting period
<p>RESPONSIVENESS</p>	
<p>V. Isolation orders</p> <ul style="list-style-type: none"> a) Number of unique patients issued isolation orders during the reporting period b) Patient-days of isolation during the reporting period c) Patient-days of isolation per 1,000 inpatient days d) Average days of isolation per isolation order e) Isolation orders per 1,000 admissions 	<p>Isolation requiring a special room (airborne or Ebola-ready room) during the reporting period</p> <ul style="list-style-type: none"> a) Number of unique patients issued isolation orders during the reporting period b) Total patient-days in isolation during the reporting period c) Total patient-days of isolation in reporting period per 1,000 inpatient hospital days d) Number of isolation days for each isolation event where a patient was placed in isolation during the reporting period divided by the number of unique isolation events e) Total isolation orders in reporting period per 1,000 hospital admissions
<p>VI. PPE ordered in the reporting period</p> <ul style="list-style-type: none"> a) Type and specification of PPE b) PPE ordered per 1,000 inpatient days 	<ul style="list-style-type: none"> a) Total number of PPE ordered by brand/model/size/unit of measure in the reporting period b) Total number of PPE ordered by brand/model/size/unit of measure in the reporting period per 1,000 inpatient days

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<p>c) PPE ordered in reporting period by functional area</p>	<p>c) Total number of PPE ordered in the reporting period by hospital function area (routine inventory, emergency preparedness supply, training inventory)</p>
<p>VI. PPE Utilization</p>	
<p>a) Burn rate</p>	<p>a) [Beginning inventory + received] - [ending inventory], per quarter</p>
<p>b) Average daily burn rate</p>	<p>b) [Beginning inventory + received] - [ending inventory], per day</p>
<p>c) Number of days before supply is exhausted</p>	<p>c) Total number of PPE available to the hospital from all locations/ average daily burn rate</p>
<p>VIII. Ebola PUIs seen in the hospital</p>	<p>Number of Ebola PUIs seen in the hospital as of the last day of the reporting period</p>
<p>Confirmed Cases</p>	<p>a) Number of confirmed cases of each of these reportable pathogen (Ebola, MERS/SARS, measles, TB, varicella/disseminated zoster, smallpox, other notifiable)</p>
<p style="text-align: center;">OUTCOMES</p>	
<p>IX. Occupationally-acquired contagious infections, by pathogen</p>	<p>Number of Work-related contagious pathogens diagnosed among HCPs in the reporting period, by pathogen (Ebola, MERS/SARS, measles, TB, varicella/disseminated zoster, smallpox, other notifiable)</p>
<p>a) Number of occupationally-acquired contagious infections, by pathogen</p>	<p>a) Number of confirmed contagious pathogens found through medical surveillance as of the last day of the reporting period, by pathogen (Ebola, MERS/SARS, measles, TB, varicella/disseminated zoster, smallpox, other notifiable)</p>
<p>b) TB infections per 10,000 HCP undergoing medical surveillance</p>	<p>b) Number of HCPs who have converted their annual TB skin test and/or QuantiFERON in the last reported calendar year among HCP undergoing medical surveillance, per 10,000 personnel tested</p>
<p>X. Contagious pathogen exposure events in HCP</p>	<p>1. Number of unprotected contagious pathogen exposure events in the reporting period, by pathogen (Ebola, MERS/SARS, measles, TB, varicella/disseminated zoster, smallpox, other notifiable) in the reporting period</p>
<p>1. Number of unprotected contagious pathogen exposure events, by type, in reporting period</p>	<p>a) Number of unprotected Ebola exposure events in the reporting period</p> <p>b) Number of unprotected MERS/SARS exposure events in the reporting period</p> <p>c) Number of unprotected Measles exposure events in the reporting period</p>

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	<ul style="list-style-type: none"> d) Number of unprotected Tuberculosis exposure events in the reporting period e) Number of unprotected Varicella/Disseminated Zoster exposure events in the reporting period f) Number of unprotected Smallpox exposure events in the reported period g) Name of Other Pathogen that was involved in an unprotected exposure event in the reporting period h) Number of unprotected exposure events involving Other Pathogens in the reporting period
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INFECTION CONTROL PRACTICES THAT MAY IMPACT PPE EFFECTIVENESS

<ul style="list-style-type: none"> a) Tracking of hand hygiene rate b) HCP mandatory immunizations c) Hospital utilization statistics d) Hospital reporting systems e) Participation in PHEP Program f) Participation in Epidemiology and Laboratory Capacity (ELC) Program 	<ul style="list-style-type: none"> a) Hand hygiene rate tracking in the hospital b) List of pathogens for which you require proof of immunization or immunity c) Number of admissions, patient days, and occupancy rate in the reporting period d) Reporting systems used in the period (electronic or paper) e) Count of PRO participating hospitals that also participate in the PHEP program f) Count of PRO participating hospitals that also participate in the ELC program
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