Threat and Hazard Identification and Risk Assessment

Event Impact Guide

*April 2017*

*This document serves as an annex to the Threat and Hazard Identification and Risk Assessment Guide*

***2016 Core Capabilities***

***Commonalities between Hazards***

|  |  |
| --- | --- |
| ***Capability*** | ***Hazard*** |
| Health System Preparedness | Pandemic Influenza  Medical Facility Evacuation  Severe Storm  Electrical Power Failure  IT Failure (Communications)  Hurricanes  Severe Winter Storm  Nor’easter  Emerging Infectious Disease |
| Health System Recovery | Hurricane  Large Area Flood  Emerging infectious Disease  Nor’easter |
| Medical Surge  Medical and / or Trauma | Heat Wave  Pandemic Influenza  Patient Surge  Severe Winter Storm  Emerging infectious Disease |
| Responder Health and Safety | Medical Facility Evacuation  Nor’easter  Hurricane |
| Volunteer Management | Pandemic Influenza  Medical Facility Evacuation  Hurricane |
| EOC Operations | All depending on the scope |
| Information Sharing | All depending on the scope |

***Event Impacts***

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| --- | --- | --- |
| Threat / Hazard: Medical Facility Evacuation (One or more facilities) | | |
| Health System Preparedness, Responder Health and Safety, Volunteer  Management  Core Capability: | | |
| **Human Impact:** | | |
| Mortality | Minimal Impact – low risk | |
| EMS Operations | EMS would be affected, possible overload of the system | |
| ED Visits | ED surge at other locations may be affected | |
| Primary Care Office Visits | Moderate increase in visits might be seen | |
| Trauma Center Injuries | This event should not affect Trauma Centers | |
| Mental Health Impact | *Long Term Care*  Could see decline in the mental health of residents who are being evacuated | *Hospitals*  Moderate Impact |
| Outpatient Services – at hospital  NOT AT HOSPITAL (AT ANOTHER SITE, POSSIBLY OFF CAMPUS) | High Impact could be seen | |
| Low impact could be seen | |
| Hospital (House) Bed Availability | Impact at receiving facilities | |
| ED Bed Census | Could increase at receiving facilities | |
| **Community Impact**: | | |
| Water supply | Depends of the event / incident  Would be affected | |
| Public Utilities |
| Transportation |
| Business Continuity  Community / Facility Resilience | Cancelling of elective surgeries  Unable to service ESRD patients  Home Healthcare Services availability could decrease | |
| Population Displacement | Hazards  Slip / Trip / fall injuries increase  Low temperature injuries increase | |
| Environmental Considerations | Minimal Impact | |
| **Public Health Services Impact**: | | |
| Information Sharing | There would be an increased need for information sharing among healthcare partners | |
| Mass Care / Sheltering | This could be affected | |
| Mass Prophylaxis / Medical Countermeasure Management | N/A | |
| Fatality Management | Minimal impact | |
| **At Risk Populations**  - at risk populations are at greater risk for negative issues from certain disasters than the general population. | | |
| **Hearing Disability** | Could affect this population | |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | Should not be affected unless involved in the evacuation | |
| **Geriatrics** | Should not be affected unless involved in the evacuation | |

Scope of Impact

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|  | Multiple Isolated Locations | Several areas (but not more than one-quarter) of the region are affected by this incident. At least four hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Half of Region | Half of the region is affected by this incident. At least six hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Most of Region | Much of the region is affected by this incident. At least nine hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Entire Region | The vast majority of the region is affected by this incident. All hospitals and/or healthcare facilities in the region, and others in adjacent/nearby regions, will be impacted in some way. |

***Event Impacts***

|  |  |  |
| --- | --- | --- |
| Threat / Hazard: Severe Storm - (windstorms; thunderstorms; hail; tornados) | | |
| Health System preparedness, Health System Recovery  Core Capability: | | |
| **Human Impact:** | | |
| Mortality | Minimal impact | |
| EMS Operations | Increase in call volume  Issue with gaining access due to impassible roads and downed wires | |
| ED Visits | Decrease during the event  Increase after the event | Increased staffing issues needed |
| Primary Care Office Visits | Could be affected by this event | |
| Trauma Center Injuries | Slight increase 6-12 hours post- storm | |
| Mental Health Impact | Could be affected by this event | |
| Outpatient Services | Could be affected by this event | |
| Hospital (House) Bed Availability | Decrease due to a loss of ability to discharge patients during the storm | |
| ED Bed Census | Increase 6-12 hours post storm | |
| **Community Impact**: | | |
| Water supply | Possibly affected after the storm by contaminants | |
| Public Utilities | Wind damage on above ground wires | |
| Transportation | Might be affected | |
| Business Continuity  Community / Facility Resilience | Might be affected   * i.e. Broken Windows   + Amount of time to restore services | |
| Population Displacement | Moderate impact  Shelter location for general population | |
| Environmental Considerations | Possible water contamination | |
| **Public Health Services Impact**: | | |
| Information Sharing | Increased need for information sharing | |
| Mass Care / Sheltering | This event could increase the need for sheltering | |
| Mass Prophylaxis / Medical Countermeasure Management | N/A | |
| Fatality Management | Normal effect; no additional impact | |
| **At Risk Populations** | | |
| **Hearing Disability** | Normal risk needs  • Medications  • Power (any homecare machines) / heat  • Dr. Visits | |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | This group would be affected | |
| **Geriatrics** | This group would be affected | |

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***Event Impacts***

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| Threat / Hazard: Electric Power Failure | | |
| Health System Preparedness    Core Capability: | | |
| **Human Impact:** | | |
| Mortality | Could be affected (high heat or cold days) | |
| EMS Operations | EMS calls might increase | |
| ED Visits | ED visits may increase | |
| Primary Care Office Visits | Primary care visits may decrease | |
| Trauma Center Injuries | Could be affected | Traffic lights out  Accidents |
| Mental Health Impact | There could be an increase in mental health referrals | |
| Outpatient Services | May be affected, offices may need to close | |
| Hospital (House) Bed Availability | Could be affected if outpatient or primary care office visits are affected | |
| ED Bed Census | Could be affected based on environmental issues | |
| **Community Impact**: | | |
| Water supply that is dependent on well water | Would be affected | |
| Public Utilities |
| Transportation  Loss of power for trains or gas for a motor vehicle |
| Business Continuity | COOP plans would be needed | |
| Population Displacement | Could be affected by this event / incident | |
| Environmental Considerations | Could be affected by this event / incident | |
| **Public Health Services Impact**: | | |
| Information Sharing | There would be an increase in the need for information sharing among healthcare partners | |
| Mass Care / Sheltering | Red Cross may be activated |  |
| Mass Prophylaxis/ Medical Countermeasure Management | N/A | |
| Fatality Management | Moderate Impact could be seen | |
| **At Risk Populations** | | |
| **Hearing Disability** | This population could be affected | |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | Would be affected | |
| **Geriatrics** | Would be affected | |

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| Threat / Hazard: Hurricanes | | |
| Health System Preparedness, Health System Recovery and Volunteer  Management  Core Capability: | | |
| **Human Impact:** | | |
| Mortality | Potential for HIGH impact | |
| EMS Operations | Increase in call volume due to healthcare facility evacuations  Issue with gaining access due to impassible roads and downed wires | |
| ED Visits | Decrease during the event  Increase after the event | Increased staffing needed |
| Primary Care Office Visits | Closed | |
| Trauma Center Injuries | Slight increase 6-12 post-storm | |
| Mental Health Impact | Might increase with this event | |
| Outpatient Services | This service would be discontinued | |
| Hospital (House) Bed Availability | Decrease due to a loss of ability to discharge patients during the storm and possible evacuations | |
| ED Bed Census | During Storm  ED Bed Census would decrease | After Storm  ED Bed Census would increase |
| **Community Impact**: | | |
| Water supply | Could be disrupted or contaminated | |
| Public Utilities | Increased possibility of power outages | |
| Transportation | May be shut down | |
| Business Continuity  Community / Facility Resilience | Cancelling of elective surgeries  Unable to service ESRD patients  Home Healthcare Services availability could decrease | |
| Population Displacement | This could increase with this event | |
| Environmental Considerations | Contaminated water  Untreated sewage  Recovery issues related to mold, water in buildings, other damage to structures, etc. | |
| **Public Health Services Impact**: | | |
| Information Sharing | Increased need for information sharing among healthcare partners | |
| Mass Care / Sheltering | This event would increase the need for Mass Care and Shelter Operations | |
| Mass Prophylaxis / Medical Countermeasure Management | N/A | |
| Fatality Management | This event could increase Fatality Management | |
| **At Risk Populations** | | |
| **Hearing Disability** | This event could place this population at greater risk | |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | This event would place this population at greater risk | |
| **Geriatrics** | This event would place this population at greater risk | |
| **Homeless** | This event could place this population at greater risk   * Could increase the number of new homeless | |

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***Event Impacts***

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| --- | --- | --- |
| Threat / Hazard: Severe Winter Storm - (heavy snow, blizzards, ice storms) | | |
| Health System Preparedness, Health System Recovery, Medical Surge    Core Capability: | | |
| **Human Impact:** | | |
| Mortality | Minimal impact | |
| EMS Operations | Increase in call volume  Issue with gaining access due to impassible roads and downed wires | |
| ED Visits | Decrease during the event  Increase after the event | Increase in staffing needed |
| Primary Care Office Visits | Primary Care Office may close | |
| Trauma Center Injuries | Slight increase 6-12 post-storm | |
| Mental Health Impact | Could be affected | |
| Outpatient Services | Could be affected | |
| Hospital (House) Bed Availability | Decrease due to a loss of ability to discharge patients during the storm | |
| ED Bed Census | Increase 6-12 hours post-storm | |
| **Community Impact**: | | |
| Water Supply | During extended freeze, pipes might freeze | |
| Public Utilities | Wind / ice damage on above ground wires / lines | |
| Transportation | Unable to travel due to road closures | |
| Business Continuity  Community / Facility Resilience | Cancelling of elective surgeries  Unable to service ESRD patients  Home Healthcare Services availability could decrease | |
| Population Displacement | Possible minimal impact | |
| Environmental Considerations  Snow removal | Hazards  Slip / Trip / fall injuries increase  Low temperature injuries increase | |
| **Public Health Services Impact**: | | |
| Information Sharing | Increased need for sharing among healthcare partners | |
| Mass Care / Sheltering  Staff / Patients | This event would increase the need for mass care and sheltering | |
| Mass Prophylaxis / Medical Countermeasure Management | N/A | |
| Fatality Management | Normal effect | |
| **At Risk Populations** | | |
| **Hearing Disability** | Normal risk needs   * Medications * Power (any homecare machines) / heat * Dr. Visits | |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | This event would place this population at greater risk | |
| **Geriatrics** | This event would place this population at greater risk | |
| **Homeless** | Low Temperature injuries could affect this population | |

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***Event Impacts***

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| --- | --- |
| Threat / Hazard: Pandemic Influenza | |
| Health System Preparedness, Volunteer Management  Core Capability: | |
| **Human Impact: Increased Public Health Surveillance** | |
| Mortality | Excess daily deaths over the normal daily death rate for the region |
| EMS Operations | Excessive daily EMS transports over normal daily rate to the facility |
| ED Visits | Excessive daily Emergency Department visits over normal daily rate for the facilities in the region |
| Primary Care Office Visits | Excessive daily medical office visits to primary care providers over normal daily rate for the region |
| Trauma Center Injuries | Fewer staff available for surgeries |
| Mental Health Impact | Excessive number of people developing psychological and behavioral changes during the incident. |
| Outpatient Services | Loss of primary care provider services due to the incident (use of the area for surge locations / treatment areas) |
| Hospital (House) Bed Availability | There will be a need to free up beds with early discharge |
| ED Bed Census | Determine need for forward triage and on site alternate care sites |
| **Community Impact**: | |
| Water supply | Would not be affected by this hazard |
| Public Utilities | Would be affected by this hazard |
| Transportation | Would be affected by this hazard |
| Business Continuity  Healthcare Resilience | Schools closed –  40% loss of staff predicted  Rationing of supplies |
| Population Displacement  • Food service issues  • Public safety (fire , EMS, PD) | This event would cause possible population displacement |
| Environmental Considerations   * Social Distancing | This event would cause an increase in environmental concerns |
| **Public Health Services Impact**: | |
| Information Sharing  CDC / NYC / NYS | This event could affect media issues  Myth / rumor control |
| Mass Care / Sheltering | This event will cause an increased need |
| Mass Prophylaxis / Medical Countermeasure Management   * Prevention * Treatment | This event will cause an increased need |
| Fatality Management | Activation of surge plans – county / state assistance |
| **At Risk Populations**  at risk populations are at greater risk for negative issues from certain disasters than the general population. | |
| **Hearing Disability** | No increase in effect for these populations  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  This population could be affected by this hazard more than the general population and require additional resources |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | This population would be affected by this hazard |
| **Geriatrics** |
| **Incardinated population** | This population would be affected by this hazard more than the general population and require additional resources |
| **institutionalized** | This population would be affected by this hazard more than the general population and require additional resources |
| **Dorm Students** | This population could be affected by this hazard more than the general population and require additional resources |
| **Homeless** | This population would be affected by this hazard more than the general population and require additional resources |

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***Event Impacts***

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| --- | --- | --- |
| Threat / Hazard: Nor’easter | | |
| Health System Preparedness, Health System Recovery, Medical Surge  Core Capability: | | |
| **Human Impact:** | | |
| Mortality | Minimal impact | |
| EMS Operations | Increase in call volume  Issue with gaining access due to impassible roads and downed wires | |
| ED Visits | Decrease during the event  Increase after the event | Increase in staffing issues |
| Primary Care Office Visits | Could be affected by this event / incident | |
| Trauma Center Injuries | Slight increase 6-12 post-storm | |
| Mental Health Impact | Expect a low impact | |
| Outpatient Services | There would be a decrease in service due the closing of services | |
| Hospital (House) Bed Availability | Decrease due to a loss of ability to discharge patients during the storm | |
| ED Bed Census | Increase 6-12 hours post-storm | |
| **Community Impact**: | | |
| Water supply | Could be disrupted or contaminated | |
| Public Utilities | Wind damage on above ground wires | |
| Transportation | Might be affected by this event / incident | |
| Business Continuity  Community / Facility Resilience | Cancelling of elective surgeries  Unable to service ESRD patients  Home Healthcare Services availability could decrease | |
| Population Displacement | This could increase with this event | |
| Environmental Considerations | Contaminated water  Untreated sewage  Recovery issues due to mold, and other structural impacts | |
| **Public Health Services Impact**: | | |
| Information Sharing | Increased need for information sharing among healthcare partners | |
| Mass Care / Sheltering | This event could increase the need for sheltering | |
| Mass Prophylaxis / Medical Countermeasure Management | There could be a need for this | |
| Fatality Management | Normal effect | |
| **At Risk Populations** | | |
| **Hearing Disability** | Normal risk needs  • Medications  • Power (any homecare machines) / heat  • Dr. Visits | |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | This population would be affected by this hazard | |
| **Geriatrics** | This population would be affected by this hazard | |

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| --- | --- |
| Threat / Hazard: Emerging Infectious Disease An unexpected novel disease that is highly infectious NEW FOR 2016 with increased mortality | |
| Health System Preparedness, Health System Recovery, Medical Surge  Core Capability: | |
| **Human Impact:** | |
| Mortality | There could be an increase in this area |
| EMS Operations | EMS volume would increase; system could become overwhelmed |
| ED Visits | There would be an increase in this area |
| Primary Care Office Visits | There would be an increase in this area |
| Trauma Center Injuries | Resources and staff reductions – 40% decrease in staff expected |
| Mental Health Impact | There would be an increase in this area |
| Outpatient Services | There would be an increase in this area |
| Hospital (House) Bed Availability | Would be affected |
| ED Bed Census | Would be affected |
| **Community Impact**: | |
| Water supply | The impact for these would be based on estimated staff reductions |
| Public Utilities |
| Transportation |
| Business Continuity   * Community / Facility Resilience | This would be affected by the event |
| Population Displacement | This would be affected by the event |
| Environmental Considerations  i.e. medical waste | This would be affected by the event |
| **Public Health Services Impact**: | |
| Information Sharing | There would be an increased need for information sharing among partner agencies |
| Mass Care / Sheltering | This would be affected by the event based on cohorting of people |
| Mass Prophylaxis / Medical Countermeasure Management | There would be an increased need of Mass Prophylaxis |
| Fatality Management | There could be an increased need of fatality management |
| **At Risk Populations** | |
| **Hearing Disability** | Would be affected by the event  requires good information sharing  Education on cross-contamination  Depends on the disaster / event |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** |
| **Geriatrics**  Cohorting |

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***Event Impacts***

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| Threat / Hazard: Large Area Flood - standing water (pooling water), flooding from ground water –  other coastal flooding that does not receded  New For 2016 | |
| Health System Recovery  Core Capability: | |
| **Human Impact:** | |
| Mortality | There event would be a minimal effect on mortality |
| EMS Operations | This event could overwhelm the EMS with increased calls for service |
| ED Visits | There could be an increase in ED visits |
| Primary Care Office Visits | There would be a minimal effect |
| Trauma Center Injuries | There could be an increase in ED visits |
| Mental Health Impact | There may be an increase after the incident during recovery |
| Outpatient Services | There would be a minimal effect on outpatient services |
| Hospital (House) Bed Availability | Discharges to home affected |
| ED Bed Census | There could be an increased need for bed availability |
| **Community Impact**: | |
| Water supply | Possible effect after the floods recede because of contaminants and raw sewage |
| Public Utilities | This could be affected by the event |
| Transportation | This event could disrupt transportation in some areas |
| Business Continuity  • Community / Facility  Resilience | Question to be considered – did the HCF shut down due to the flooding |
| Population Displacement | This event could cause population displacement in the flood areas |
| Environmental Considerations | Possible potable water contamination |
| **Public Health Services Impact**: | |
| Information Sharing | There would be an increased need for information sharing among partner agencies |
| Mass Care / Sheltering | This event could increase the need for sheltering |
| Mass Prophylaxis / Medical Countermeasure Management | There would be an increased need of Mass Prophylaxis |
| Fatality Management | There would be an increased need of fatality management if HCFs are affected |
| **At Risk Populations** | |
| **Hearing Disability** | Normal risk needs  • Medications  • Power (any homecare machines) / heat  • Dr. Visits |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | This at-risk population would be affected |
| **Geriatrics** |

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|  | Half of Region | Half of the region is affected by this incident. At least six hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Most of Region | Much of the region is affected by this incident. At least nine hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Entire Region | The vast majority of the region is affected by this incident. All hospitals and/or healthcare facilities in the region, and others in adjacent/nearby regions, will be impacted in some way. |

***Event Impacts***

|  |  |
| --- | --- |
| Threat / Hazard: Heat Wave | |
| Medical Surge  Core Capability: | |
| **Human Impact:** | |
| Mortality | This event could increase mortality rates |
| EMS Operations | This event could overwhelm the EMS system due increased calls for service |
| ED Visits | This event could cause an increase in ED visits casing a medical surge |
| Primary Care Office Visits | This event could cause an increase |
| Trauma Center Injuries | This event should not cause an increase in trauma injuries |
| Mental Health Impact | This could be affected by the event |
| Outpatient Services | This event should not cause an increase or decrease in outpatient services |
| Hospital (House) Bed Availability | This could be affected by the event and increase if discharges are affected and due to impacted status of other HCFs |
| ED Bed Census | This could increase based on the event |
| **Community Impact**: | |
| Water supply | This event could cause a decrease in water volume / pressure |
| Public Utilities | This event could cause an additional draw of the public utilities and cause rolling brownouts |
| Transportation |  |
| Business Continuity   * Community / Facility   Resilience | The event could cause an increase in volume at HCFs |
| Population Displacement | This could increase due to the event |
| Environmental Considerations | This could be affected by the event in many areas |
| **Public Health Services Impact**: | |
| Information Sharing | There would be an increased need for information sharing |
| Mass Care / Sheltering | This could be affected – opening of cooling center |
| Mass Prophylaxis / MCM | N/A |
| Fatality Management | There could be an increased need for fatality management |
| **At Risk Populations** | |
| **Hearing Disability** | **These areas would be affect by the event** |
| **Vision Disability** |
| **Ambulatory Disability** |
| **Cognitive Disability** |
| **Pediatrics** | These populations may be greatly affected |
| **Geriatrics** |

Scope of Impact

|  |  |  |
| --- | --- | --- |
|  | Single Location, Small Area | The regional scope of this incident is minimal, confined to a small area or within a single community. At most, two hospitals would be impacted. |
|  | Single Location, Large Area | The regional scope of this incident is confined to a single large area or within a larger community. At most, three hospitals and/or healthcare facilities would be impacted. |
|  | Multiple Isolated Locations | Several areas (but not more than one-quarter) of the region are affected by this incident. At least four hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Half of Region | Half of the region is affected by this incident. At least six hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Most of Region | Much of the region is affected by this incident. At least nine hospitals and/or healthcare facilities in the region will be impacted in some way. |
|  | Entire Region | The vast majority of the region is affected by this incident. All hospitals and/or healthcare facilities in the region, and others in adjacent/nearby regions, will be impacted in some way. |