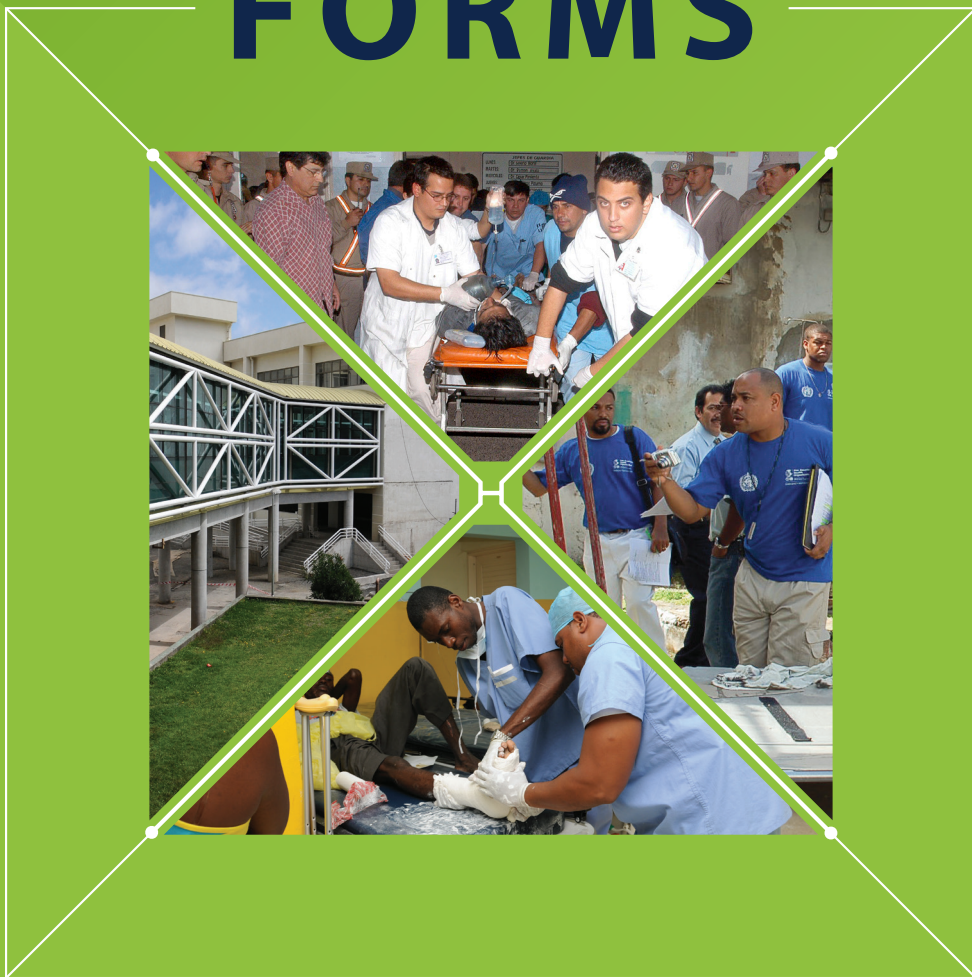


HOSPITAL SAFETY INDEX EVALUATION FORMS



Second Edition

HOSPITAL SAFETY INDEX

EVALUATION

FORMS



Pan American
Health
Organization



World Health
Organization

REGIONAL OFFICE FOR THE
Americas

SAFE HOSPITALS INITIATIVE

Protecting People's Health from Emergencies and Disasters

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Form 1

General information about the hospital

Please note:

- 1 This form should be completed by the hospital, preferably by the Hospital Emergency/ Disaster Management Committee before the evaluation.
- 2 If necessary, you may photocopy this form or print additional copies from the USB drive included in the folder, or from the website.

GENERAL INFORMATION ABOUT THE HOSPITAL

1. Name of the hospital:
2. Address:
3. Names of hospital senior managers (e.g. chief executive, medical director, nursing director, administration director):
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.....
4. Names and contact details of hospital emergency/disaster managers (e.g. chair of emergency/ disaster management committee, coordinator, manager of security/fire services):
.....
.....
.....
5. Telephone (include area/city code):
6. Website :
- E-mail:
7. Total number of beds:
8. Average bed occupancy rate (in normal situations):
9. Total number of personnel:
- a. Number of clinical staff (e.g. physicians, nurses, medical technologists).....
- b. Number of nonclinical staff (e.g. executive management, administration, engineers, information technology)

10. General description of the hospital: e.g. institution to which it belongs (e.g. ministry, private entity, university), type of establishment (e.g. tertiary referral hospital, specialized services), role in the network of health services, role in emergencies and disasters, type of structure, total population served, catchment area (routine services/emergencies and disasters) etc.....

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11. Physical distribution:

List and briefly describe the main buildings in the hospital. Provide maps and diagrams of the hospital site and the local setting, including the physical distribution of the services, in the box below. Use additional pages, if necessary.

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12. Hospital treatment and operating capacity: Indicate the total number of beds and staff for daily routine services, and additional capacities to expand services in emergencies and disasters to obtain the maximum hospital capacity, according to the hospital's organization (by department or specialized services). The number of staff available can be used for responding to Item 132: Staff availability.

a. Internal medicine

Department or service	Routine capacity (number of beds)	Maximum hospital capacity for emergencies/ disasters (number of beds)	Planned number of staff	Actual number of available staff	Observations
General medicine					
Pediatrics					
Cardiology					
Pulmonology					
Neurology					
Endocrinology					
Hematology					
Gastroenterology					
Dermatology					
Burns unit					
Physiology and rehabilitation					
Psychiatry/psychology					
Others, specify					
Others, specify					
Others, specify					
Total					

b. Surgery

Department or service	Routine capacity (number of beds)	Maximum hospital capacity for emergencies/ disasters (number of beds)	Planned number of staff	Actual number of available staff	Observations
General surgery					
Obstetrics and gynecology					
Orthopedics and traumatology					
Urology					
Otolaryngology					
Ophthalmology					
Neurosurgery					
Plastic surgery					
Cardiovascular surgery					
Others, specify					
Others, specify					
Total					

c. Intensive Care Unit (ICU)

Department or service	Routine capacity (number of beds)	Maximum hospital capacity for emergencies/ disasters (number of beds)	Planned number of staff	Actual number of available staff	Observations
General intensive care					
General intermediate care					
Cardiovascular ICU					
Pediatrics ICU					
Burns ICU					
Others, specify					
Total					

d. Operating theatres

Department or service	Number of operating theatres - routine	Maximum number of theatres of hospital (for emergencies/ disasters)	Observations
Septic surgery			
Aseptic surgery			
Pediatrics surgery			
Obstetrics and gynecology surgery			
Emergency surgery			
Others, specify			
Total			

e. Clinical and non-clinical support services

Department, unit or service	Planned number of staff	Actual number of available staff	Observations
Diagnostic services			
Blood bank services			
Pharmacy			
Medical engineering and maintenance			
Building/critical systems engineering and maintenance			
Decontamination			
Security			
Others, specify			
Others, specify			

f. Emergency and disaster operations

Department, unit or service	Planned number of staff	Actual number of available staff	Observations
Hospital emergency/ disaster operations/ incident management (command, control, coordination)			
Logisticians			
Communications and information officers			
Administration (human resources, finance officers)			
Media spokespersons			
Ambulance staff			
Advanced medical post/hospital dispatch teams			
Others, specify			
Total			

13. Areas likely to increase operating capacity

Indicate the characteristics of the locations, areas and spaces that can be used to increase hospital capacity in case of emergencies or disasters. Specify square metres, available critical systems and any other information that can be used to evaluate the suitability for expanding space and capacity for hospital medical and other services in emergencies and disasters. Include access, security and critical services, such as water, power, communications, waste management, heating, ventilation and air-conditioning.

Locations/areas	Area m ²	Water		Electricity/ power		Telephone/ communications		Observations
		Yes	No	Yes	No	Yes	No	

Locations/areas	Area m ²	Waste management		Heating, ventilation and air-conditioning		Other		Observations
		Yes	No	Yes	No	Yes	No	

Note: Specify the adaptability of use in each space (hospitalization, triage, ambulatory care, observation, staff welfare areas etc.).

14. Addition information (including history of prior emergencies and disasters the hospital had to cope with)

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Name/signature (Chairperson/Head, Hospital Emergency/DisasterManagement Committee)

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Form 2

Safe Hospitals Checklist

Please note:

This form should be distributed to all members of the evaluating team. If necessary, you may photocopy this form or print additional copies from the USB drive included in the folder, or from the website.

Module 1: Hazards affecting the safety of the hospital and the role of the hospital in emergency and disaster management

1.1 Hazards	Hazard Level				Should the hospital be prepared to respond to this hazard? If yes, mark the box.	Observations (evaluators' comments)
	No hazard	Low	Average	High		
1.1.1 Geological hazards						
Earthquakes <i>Refer to regional and local hazard maps or other hazard information, and rate the level of earthquake hazard for the hospital's location (including catchment area) in terms of geotechnical soil analyses. Determine whether the hospital should be prepared to respond to an emergency or disaster due to earthquakes (based on exposure of the catchment population or the specialized role of the hospital for the treatment of injured patients).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Volcanic activity and eruption <i>Refer to regional and local hazard maps or other hazard information, and rate the level of volcanic hazard for the hospital's location. This should take into account proximity to volcanoes, volcanic activity, routes of lava flow, pyroclastic flow and ash fall. Determine whether the hospital should be prepared to respond to an emergency or disaster due to volcanic activity and eruption (based on exposure of the catchment population or the specialized role).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dry mass movement – landslides <i>Refer to regional and local hazard maps or other hazard information for the region, and rate the level of landslide hazard for the hospital's location. Note that landslides may be caused by unstable soils. Determine whether the hospital should be prepared to respond to an emergency or disaster due to landslides (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tsunamis <i>Refer to regional hazard maps or other hazard information, and rate the level of tsunami hazard caused by submarine seismic or volcanic activity for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to tsunamis (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other geological hazards (e.g. rockfalls, subsidence, debris and mudflows (specify) <i>Refer to regional and local hazard maps or other hazard information to identify other geological phenomena not listed above. Specify the hazard and rate the corresponding hazard level for the hospital. Determine whether the hospital should be prepared to respond to an emergency or disaster due to the identified geological hazards (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 1.1 Hazards	Hazard Level				Should the hospital be prepared to respond to this hazard? If yes, mark the box.	Observations (evaluators' comments)
	No hazard	Low	Average	High		
1.1.2 Hydro-meteorological hazards						
1.1.2.1 Meteorological hazards						
Cyclones/hurricanes/typhoons Refer to regional hazard maps or other hazard information, and rate the hazard level for the hospital location in terms of cyclones, hurricanes and typhoons. Determine whether the hospital should be prepared to respond to an emergency or disaster due to cyclones, hurricanes or typhoons (based on exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tornadoes Refer to regional hazard maps or other hazard information, and rate the tornado hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to tornadoes (based on exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Local storms Rate the hazard level for the hospital in relation to flooding and other damage due to intensive (or torrential) rainfall from local storms based on the history of such events. Determine whether the hospital should be prepared to respond to an emergency or disaster due to local storms (based on exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other meteorological hazards (e.g. sand-storms, wind gusts) (specify) Rate the hazard level for the hospital in relation to risk of other meteorological hazards based on the history of such events. Determine whether the hospital should be prepared to respond to an emergency or disaster due to other meteorological hazards (based on exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.1.2.2 Hydrological hazards						
River floods Refer to regional and local hazard maps or other hazard information, and rate the river flood hazard level of the hospital's location (including catchment area) in terms of river floods (and other watercourses, such as creeks). Determine whether the hospital should be prepared to respond to an emergency or disaster due to river floods (based on exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Flash floods Refer to regional and local hazard map, other hazard information and past incidents, and rate the flash flood hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster based on flash floods (due to exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Storm surge Refer to regional hazard maps or other hazard information, and rate the storm surge hazard level associated with risks of cyclones, hurricanes, typhoons and other storms for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to storm surge and related floods (based on exposure of the catchment population).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(Continued) 1.1.2.2 Hydrological hazards	Hazard Level				Should the hospital be prepared to respond to this hazard? If yes, mark the box.	Observations (evaluators' comments)
	No hazard	Low	Average	High		
<p>Wet mass movements – landslides</p> <p>Refer to regional and local hazard maps or other hazard information, and rate the level of hazard due to landslides caused by saturated soils for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to landslides caused by saturated soils (based on exposure of the catchment population).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Other hydrological hazards (e.g. high tides, avalanches, coastal floods) (specify)</p> <p>Refer to regional and local hazard maps or other hazard information to identify other hydro-meteorological hazards not listed above. Specify the hazard and rate the corresponding hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to other hydrological hazard (based on exposure of the catchment population).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.1.2.3 Climatological hazards						
<p>Extreme temperature (e.g. heat wave, cold wave, extreme winter conditions – dzud)</p> <p>Refer to regional and local hazard maps or other hazard information, and rate the level of hazard due to extreme temperature or weather condition. Specify the hazard and rate the corresponding hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to extreme temperatures (based on exposure of the catchment population).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Wildfires (e.g. forests, croplands, populated areas)</p> <p>Refer to regional and local hazard maps or other hazard information, and rate the wildfire hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to wildfires (based on exposure of the catchment population or the specialized role of the hospital for the treatment of burns patients).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Drought</p> <p>Refer to regional and local hazard maps or other hazard information, and rate the drought hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to drought (based on exposure of the catchment population or the specialized role of the hospital for the treatment of malnutrition).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Other climatological hazards including those attributable to climate change (e.g. sea-level rise) (specify)</p> <p>Rate the hazard level for the hospital in relation to the risk of other climatological hazards based on hazard maps, the history of such events and hazard modelling. Determine whether the hospital should be prepared to respond to an emergency or disaster due to other climatological hazards (based on exposure of the catchment population).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 1.1.2.3 Climatological hazards	Hazard Level				Should the hospital be prepared to respond to this hazard? If yes, mark the box.	Observations (evaluators' comments)
	No hazard	Low	Average	High		
1.1.3 Biological hazards						
Epidemics, pandemics and emerging diseases <i>With reference to any risk assessments, past incidents at the hospital and specific pathogens, rate the hazard level of the hospital related to epidemics, pandemics and emerging diseases. Determine whether the hospital should be prepared to respond to an emergency or disaster due to epidemics, pandemics and emerging diseases (based on exposure of the catchment population or the specialized role of the hospital for the treatment of patients with infectious diseases).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Foodborne outbreaks <i>With reference to any risk assessments and past incidents at the hospital location (including catchment area), rate the hazard level of the hospital related to food-borne outbreaks. Determine whether the hospital should be prepared to respond to an emergency or disaster due to food-borne outbreaks (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pest attacks (e.g. infestations) <i>With reference to any risk assessments and past incidents at the hospital, rate the hospital's exposure to hazards from pest attacks or infestations (flies, fleas, rodents, etc.). Determine whether the hospital should be prepared to respond to an emergency or disaster due to pest attacks or infestations (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other biological hazards <i>(specify)</i> <i>With reference to any risk assessments, rate the hazard level for the hospital in relation other biological hazards. Determine whether the hospital should be prepared to respond to an emergency or disaster due to other biological hazards (based on exposure of the catchment population or the specialized role of the hospital for the treatment of patients exposed to biological hazards).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Human-made hazards						
1.1.4 Technological hazards						
Industrial hazards (e.g. chemical, radiological) <i>Refer to regional and local hazard maps of industrial facilities or other hazard information and any past incidents involving industrial hazards, and rate the industrial hazard level for the hospital's location and potential contamination of the hospital's systems. Determine whether the hospital should be prepared to respond to an emergency or disaster due to industrial hazards (based on exposure of the catchment population or the specialized role of the hospital for the treatment of patients exposed to industrial hazards).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 1.1.4 Technological hazards	Hazard Level				Should the hospital be prepared to respond to this hazard? If yes, mark the box.	Observations (evaluators' comments)
	No hazard	Low	Average	High		
<p>Fires (e.g. building) Refer to local hazard maps or other hazard information on building fires inside and outside the hospital and any past incidents involving building fires, and rate the fire hazard level for the hospital. Determine whether the hospital should be prepared to respond to an emergency or disaster due to building fires (based on exposure of the catchment population or the specialized role of the hospital for the treatment of burns patients).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Hazardous materials (chemical, biological, radiological) Refer to local hazard maps or other hazard information on hazardous materials (incidents and spills) inside and outside the hospital and any past incidents involving hazardous material spills or leaks, and rate the hazardous material hazard for the hospital and the potential contamination of its systems. Determine whether the hospital should be prepared to respond to an emergency or disaster due to hazardous materials (based on exposure of the catchment population or the specialized role of the hospital for the treatment of patients exposed to hazardous materials).</p>	Chemical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Biological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Radiological	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Power outages Refer to any past incidents involving power outages for the hospital location, and rate the power outage hazard for the hospital. Determine whether the hospital should be prepared to respond to an emergency or disaster due to power outages.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Water supply disruption Refer to any past incidents involving the disruption of the water supply for the hospital location, and rate the hazard for the hospital. Determine whether the hospital should be prepared to respond to an emergency or disaster due to disruption of the water supply.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Transportation incidents (e.g. air, road, rail, water transport) Refer to records of past major transport incidents, and determine whether the hospital should be prepared to respond to an emergency or disaster due to transport incidents (based on exposure of the catchment population).</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 1.1.4 Technological hazards	Hazard Level				Should the hospital be prepared to respond to this hazard? If yes, mark the box.	Observations (evaluators' comments)
	No hazard	Low	Average	High		
Other technological hazards (e.g. air pollution, structural collapses, food/water contamination, nuclear) <i>(specify)</i> <i>Refer to regional and local hazard maps, or other hazard information and past incidents to identify other technological hazards for the hospital. Specify the hazard and rate the corresponding hazard level for the hospital's location. Determine whether the hospital should be prepared to respond to an emergency or disaster due to other technological hazards (based on exposure of the catchment population or any specialized role of the hospital for the treatment of patients exposed to other technological hazards).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.1.5 Societal hazards						
Security threat to hospital building and staff <i>Refer to risk/threat assessments and past security incidents affecting the hospital and staff, and rate the security hazard level to the hospital and staff. Determine whether the hospital should be prepared to respond to an emergency or disaster due to security threats to the hospital building and staff.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Armed conflicts <i>Refer to risk assessments of armed conflicts and past incidents that have affected the hospital, and rate the hospital's hazard level in relation to armed conflicts. Determine whether the hospital should be prepared to respond to an emergency or disaster due to armed conflicts (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Civil unrest (including demonstrations) <i>Refer to risk assessments and past incidents of civil unrest that have affected the hospital, and rate the hospital's hazard level in relation to demonstrations and civil unrest. Determine whether the hospital should be prepared to respond to an emergency or disaster due to demonstrations and civil unrest (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mass gathering events <i>Determine whether the hospital should be prepared to respond to an emergency or disaster due to mass gatherings (based on exposure of the catchment population).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Displaced populations <i>Refer to risk assessments and rate the hospital's hazard level in terms of people who have been displaced as a result of conflict, community unrest and other socio-political circumstances, or due to high levels of immigration. Determine whether the hospital should be prepared to respond to an emergency or disaster due to displaced populations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

Module 2: Structural safety

2.1 Prior events affecting hospital safety	Safety level			Observations (evaluators' comments)
	LOW	AVERAGE	HIGH	
<p>1. Prior major structural damage or failure of the hospital building(s) <i>Safety ratings: Low = Major damage and no repairs; Average = Moderate damage and building only partially repaired; High = Minor or no damage, or building fully repaired.</i></p> <p><i>IF SUCH AN EVENT HAS NOT OCCURRED IN THE VICINITY OF THE HOSPITAL, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>2. Hospital built and/or repaired using current safety standards <i>Safety ratings: Low = Current safety standards not applied; Average = Current safety standards partially applied; High = Current safety standards fully applied.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>3. Effect of remodelling or modification on the structural behaviour of the hospital <i>Safety ratings: Low = Major remodelling or modifications have been carried out with major compromising effect on the performance of the structure; Average = Moderate remodelling and/or modifications with minor effect on the performance of the structure; High = Minor remodelling and/or modifications; no modifications were carried out; or major remodelling and/or modification enhancing the structural behaviour or having no negative effect.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.2 Building integrity				
<p>4. Structural system design <i>Safety ratings: Low = Poor structural system design; Average = Moderate structural system design; High = Good structural system design.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>5. Condition of the building <i>Safety ratings: Low = Cracks on the ground and first floors; Major deterioration caused by weathering or normal ageing; Average = Some deterioration caused only by weathering or normal ageing; High = No deterioration or cracks observed.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>6. Condition of the construction materials <i>Safety ratings: Low = Rust with flaking; cracks larger than 3mm (concrete), excessive deformations (steel and wood); Average = Cracks between 1 and 3 mm present (concrete), moderate and visible deformations (steel and wood) or rust with no flaking; High = Cracks less than 1 mm (concrete), no visible deformations; no rust.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>7. Interaction of nonstructural elements with the structure <i>Safety ratings: Low = Partition walls rigidly attached to the structure, suspended ceilings or facades interacting with the structures, damage would have significant effect on the structure; Average = Some of the preceding nonstructural elements interacting with the structures, damage would not affect the structure; High = There are no nonstructural elements affecting the structure.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>8. Proximity of buildings (for earthquake-induced pounding) <i>Safety ratings: Low = Separation is less than 0.5% of the height of the shorter of two adjacent buildings; Average = Separation is between 0.5% and 1.5% of the height of the shorter of two adjacent buildings; High = Separation is more than 1.5% of the height of the shorter of two adjacent buildings.</i></p> <p><i>IF THE HOSPITAL IS NOT IN A HIGH/MODERATE SEISMIC ZONE, THEN LEAVE BOXES BLANK AND PROVIDE COMMENT.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 2.2 Building integrity	Safety level			Observations (evaluators' comments)
	LOW	AVERAGE	HIGH	
9. Proximity of buildings (wind tunnel effect and fire) <i>Safety ratings: Low = Separation less than 5 m; Average = Separation between 5 m and 15 m; High = Separation more than 15 m.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Structural redundancy <i>Safety ratings: Low = Fewer than three lines of resistance in each direction; Average = Three lines of resistance in each direction or lines without orthogonal orientation; High = More than three lines of resistance in each orthogonal direction of the building.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Structural detailing, including connections <i>Safety ratings: Low = No evidence of engineered building records, or built according to an old design standard; Average = Built according to previous design standards and no retrofitting work to a current standard; High = Built according to a current standard.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Ratio of column strength to beam strength <i>Safety ratings: Low = Strength of beams is obviously greater than strength of columns; Average = Strength of beams is similar to strength of columns; High = Strength of columns is greater than strength of beams.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Safety of foundations <i>Safety ratings: Low = No evidence that foundations were designed according to standards (foundation size, soil survey) and/or there is evidence of damage; no plans are available; Average = Little evidence (drawings, soil survey) that foundations were designed according to standards; and/or there is evidence for moderate damage; High = Strong evidence that foundations were designed according to standards with strong evidence of no damage.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. Irregularities in building structure plan (rigidity, mass, resistance) <i>Safety ratings: Low = Shapes are irregular and structure is not uniform; Average = Shapes on plan are irregular but structure is uniform; High = Shapes on plan are regular and structure has uniform plan, and there are no elements that would cause significant torsion.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15. Irregularities in elevation of buildings <i>Safety ratings: Low = Significant discontinuous or irregular elements, significant variation in elevation of buildings; Average = Several discontinuous or irregular elements, some variation in the elevation of buildings; High = No significant discontinuous or irregular elements, little or no variation in elevation of buildings.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16. Irregularities in height of storeys <i>Safety ratings: Low = Height of storeys differs by more than 20%; Average = Storeys have similar heights (they differ by less than 20% but more than 5%); High = Storeys are of similar height (they differ by less than 5%).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Structural integrity of roofs <i>Safety ratings: Low = Monopitch or flat light roofs, and/or large roof overhangs; Average = Pre-stressed concrete roof, gable roof with gentle slope, satisfactorily connected, no large roof overhangs; High = Reinforced cast in place on concrete roof deck or hipped light roof, satisfactory connections, no large roof overhangs.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18. Structural resilience to hazards other than earthquakes and strong winds <i>Safety ratings: Low = Low structural resilience to hazards present at the site of the hospital; Average = Satisfactory structural resilience (taking account of structural risk reduction measures in place); High = Good structural resilience (taking account of risk reduction measures in place).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

Module 3: Nonstructural safety

3.1 Architectural safety	Safety level			Observations (evaluators' comments)
	LOW	AVERAGE	HIGH	
<p>19. Major damage and repair of nonstructural elements <i>Safety ratings: Low = Major damage and no repairs completed; Average = Moderate damage, building only partially repaired; High = Minor or no damage, or building fully repaired.</i></p> <p><i>IF SUCH AN EVENT HAS NOT OCCURRED IN THE VICINITY OF THE HOSPITAL, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>20. Condition and safety of doors, exits and entrances <i>Safety ratings: Low = Doors, exits and entrances in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; entrance width is less than 115cm; Average = In fair condition, subject to damage but damage would not impede the function of this and other elements, systems or operations; or entrance width is less than 115cm; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations; and entrance width is equal to or larger than 115cm.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>21. Condition and safety of windows and shutters <i>Safety ratings: Low = Windows and shutters in poor condition, subject to damage which would impede the function of this and other elements, systems or operations (e.g. weak protective glazing); Average = In fair condition, subject to damage but damage would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations; protective glass (e.g. polycarbonate glazing, blast film) has been added in critical wards.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>22. Condition and safety of other elements of the building envelope (e.g. outside walls, facings) <i>Safety ratings: Low = Building envelope in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, subject to damage but damage would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>23. Condition and safety of roofing <i>Safety ratings: Low = Roofing in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, subject to damage but damage to element(s) would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>24. Condition and safety of railings and parapets <i>Safety ratings: Low = Railings and parapets in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = Subject to damage but damage to element(s) would not impede the function of this and other elements, systems or operations; High = No or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.1 Architectural safety	Safety level			Observations (evaluators' comments)
	LOW	AVERAGE	HIGH	
<p>25. Condition and safety of perimeter walls and fencing <i>Safety ratings: Low = Perimeter walls and fencing in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, subject to damage but damage to element(s) would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>26. Condition and safety of other architectural elements (e.g. cornices, ornaments, chimneys, signs) <i>Safety ratings: Low = Other architectural element(s) in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, element(s) are subject to damage but damage would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>27. Safe conditions for movement outside the hospital buildings <i>Safety ratings: Low = Obstacles or damage to structure or road and walkways will impede vehicle and pedestrian access to buildings or endanger pedestrians; Average = Obstacles or damage to structure or road and walkways will not impede pedestrian access, but will impede vehicle access; High = No obstacles, or potential for only minor or no damage that will not impede pedestrian or vehicle access.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>28. Safe conditions for movement inside the building (e.g. corridors, stairs) <i>Safety ratings: Low = Obstacles and damage to element(s) will impede movement inside the building and endanger occupants; Average = Obstacles or damage to elements will not impede movement of people but will impede movement of stretchers, wheeled equipment; High = No obstacles, potential for no or minor damage which will not impede movement of people or wheeled equipment.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>29. Condition and safety of internal walls and partitions <i>Safety ratings: Low = Internal walls and partitions in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, element(s) are subject to damage but damage would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>30. Condition and safety of false or suspended ceilings <i>Safety ratings: Low = False or suspended ceilings in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, element(s) subject to damage but damage would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p> <p>IF THE HOSPITAL DOES NOT HAVE FALSE OR SUSPENDED CEILINGS, LEAVE BOXES BLANK AND PROVIDE COMMENT.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.1 Architectural safety	Safety level			Observations (evaluators' comments)
	LOW	AVERAGE	HIGH	
<p>31. Condition and safety of the elevator system <i>Safety ratings: Low = Elevator system in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, element(s) subject to damage but damage would not impede the function of this and other elements, systems or operations; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p> <p>IF THERE ARE NO ELEVATORS, LEAVE BOXES BLANK AND PROVIDE COMMENT.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>32. Condition and safety of stairways and ramps <i>Safety ratings: Low = In poor condition, subject to damage or there are obstacles, which would impede the function of this and other elements, systems or operations; Average = In fair condition, subject to damage but damage and obstacles would not impede the function of this and other elements, systems or operations; High = In good condition, no obstacles, potential for no or minor damage that would impede the function of this and other elements, systems or operations.</i></p> <p>IF THERE ARE NO STAIRS AND RAMPS, LEAVE BOXES BLANK AND PROVIDE COMMENT.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>33. Condition and safety of floor coverings <i>Safety ratings: Low = Floor coverings in poor condition, subject to damage which would impede the function of this and other elements, systems or operations; Average = In fair condition, subject to damage but damage would not impede function; High = In good condition, no or minor potential for damage that would impede the function of this and other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.2 Infrastructure protection, access and physical security				
<p>34. Location of hospital's critical services and equipment in the hospital in relation to local hazards <i>Safety ratings: Low = No protection measures taken; subject to damage, failure and disruption of critical services and hospital operations in emergencies and disasters; Average = Partial measures to protect critical services from local hazards are taken; subject to damage with some disruption of critical services and hospital operations in emergencies or disasters; High = Many measures are taken to protect critical services; high probability that critical services and hospital will operate with no or limited disruption in emergencies and disasters.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>35. Hospital access routes <i>Safety ratings: Low = Access routes subject to obstacles and damage that would impede access and the function of other elements, systems or operations; Average = Access routes subject to some obstacles and damage that would not impede access and function; High = No or minor potential for obstacles or damage that would impede access and the function of other elements, systems or operations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>36. Emergency exits and evacuation routes <i>Safety ratings: Low = Exit and evacuation routes are not clearly marked and many are blocked; Average = Some exit and evacuation routes are marked and most are clear of obstacles; High = All exit and evacuation routes are clearly marked and free of obstacles.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.2 Infrastructure protection, access and physical security	Safety level			Observations (evaluators' comments)
	LOW	AVERAGE	HIGH	
37. Physical security of building, equipment, staff and patients <i>Safety ratings: Low = No measures are in place; Average = Some physical security protection is in place (e.g. locked storage for supplies and equipment, asset tracking and inventory control); High = Wide range of security measures in place (e.g. design and layout, physical barriers, access control and door security systems, locked storage for supplies and equipment).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3 Critical systems				
3.3.1 Electrical systems				
38. Capacity of alternate sources of electricity (e.g. generators) <i>Safety ratings: Low = Alternate source(s) is(are) missing or covers less than 30% of demand in critical areas, or can only be started manually; Average = Alternate source(s) covers 31–70% of demand in critical areas and starts automatically in less than 10 seconds in critical areas; High = Alternate source(s) start(s) automatically in less than 10 seconds and cover(s) more than 70% of demand in critical areas.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
39. Regular tests of alternate sources of electricity in critical areas <i>Safety ratings: Low = Tested at full load every 3 months or more; Average = Tested at full load every 1 to 3 months; High = Tested at full load at least monthly.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40. Condition and safety of alternate source(s) of electricity <i>Safety ratings: Low = No alternate sources; generators are in poor condition, there are no protective measures; Average = Generators are in fair condition, some measures provide partial protection and security; High = Generators are in good condition, well-secured and in good working order for emergencies.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41. Condition and safety of electrical equipment, cables and cable ducts <i>Safety ratings: Low = Electrical equipment, power lines, cables and ducts are in poor condition, there are no protective measures; Average = Electrical equipment, power lines, cables and ducts are in fair condition; some measures provide partial protection and security; High = Electrical equipment, power lines, cables and ducts are in good condition, well-secured and in good working order.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
42. Redundant system for the local electric power supply <i>Safety ratings: Low = There is only one entrance for the local power supply; Average = There are two entrances for the local power supply; High = There are more than two entrances for the local power supply.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
43. Condition and safety of control panels, overload breaker switches and cables <i>Safety ratings: Low = Control panels or other elements are in poor condition, there are no protective measures; Average = Control panels or other elements are in fair condition; some measures provide partial protection; High = Control panels or other elements are in good condition, well-protected and in good working order.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44. Lighting system for critical areas of the hospital <i>Safety ratings: Low = Poor level of lighting, there are no protective measures; Average = Lighting is satisfactory in the critical areas; some measures provide partial protection; High = Good levels of lighting and protection measures in place.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.3.1 Electrical systems	Safety level			Observations (evaluators' comments)
	Low	Average	High	
45. Condition and safety of internal and external lighting systems <i>Safety ratings: Low = Internal and external lighting systems are in poor condition, there are no protective measures; Average = In fair condition; some measures provide partial protection; High = In good condition, well-protected and in good working order.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46. External electrical systems installed for hospital usage <i>Safety ratings: Low = No electrical substations installed for hospital demands; Average = Substations installed; some measures provide partial protection, but would be vulnerable to damage or disruption, do not provide enough power to the hospital; High = Electrical substations installed, well-protected, and provide enough power to the hospital in an emergency or disaster.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47. Emergency maintenance and restoration of electric power supply and alternate sources <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3.2 Telecommunications systems				
48. Condition and safety of antennas <i>Safety ratings: Low = Antennas and bracing in poor condition, there are no protective measures; Average = Antennas and bracing are in fair condition, some measures provide partial protection; High = Antennas and bracing are in good condition, well-secured and protection measures are in place.</i> <i>IF THERE ARE NO ANTENNAS, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
49. Condition and safety of low- and extra-low-voltage systems (internet and telephone) <i>Safety ratings: Low = Low voltage systems in poor condition, there are no protective measures; Average = Low voltage systems in fair condition, some measures provide partial protection; High = Good condition, well-secured and other protection measures in place.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50. Alternate communication systems <i>Safety ratings: Low = Alternate communications systems do not exist, are in poor condition, or do not function; Average = Hospital-wide alternate communications system in fair condition, but is not tested on an annual basis; High = Alternate communication system in good condition and tested at least annually.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
51. Condition and safety of telecommunications equipment and cables <i>Safety ratings: Low = Telecommunications equipment and cables are in poor condition; there are no protective measures; Average = Equipment and cables are in fair condition; some measures provide partial protection; High = In good condition, well-secured and protected from hazards.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
52. Effect of external telecommunications systems on hospital communications <i>Safety ratings: Low = External telecommunications systems cause major interference with hospital communications; Average = External telecommunications system cause moderate interference with hospital communications; High = External communications cause no interference with hospital communications.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.3.2 Telecommunications systems	Safety level			Observations (evaluators' comments)
	Low	Average	High	
53. Safety of sites for telecommunication systems <i>Safety ratings: Low = Sites for telecommunications systems are in poor condition, at high risk of failure due to hazards; there are no protective measures; Average = Sites in fair condition, some measures provide partial protection; High = Good condition, well-secured and other protective measures in place.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
54. Condition and safety of internal communications systems <i>Safety ratings: Low = Internal communications systems do not exist or are in poor condition; Average = Internal communications systems are in fair condition, but there are no alternate systems; High = Internal communications and back-up systems are in good working order.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55. Emergency maintenance and restoration of standard and alternate communications systems <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3.3 Water supply system				
56. Water reserves for hospital services and functions <i>Safety ratings: Low = Sufficient for 24 hours or less or water tank does not exist; Average = Sufficient for more than 24 hours but less than 72 hours; High = Guaranteed to cover at least 72 hours.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57. Location of water storage tanks <i>Safety ratings: Low = The site is vulnerable with high risk of failure (e.g. structural, architectural and/or system vulnerabilities); Average = The site is exposed to moderate risk of failure (e.g. structural, architectural and/or system vulnerabilities); High = The site is not exposed to visually identifiable risks (e.g. structural, architectural and/or system vulnerabilities).</i> <i>IF THE HOSPITAL DOES NOT HAVE A WATER STORAGE TANK, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58. Safety of the water distribution system <i>Safety ratings: Low = Less than 60% are in good operational condition; Average = Between 60% and 80% are in good condition; High = Above 80% are in good condition.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
59. Alternate water supply to the regular water supply <i>Safety ratings: Low = Provides less than 30% of daily demand in an emergency or disaster scenario; Average = Provides 30–80% of daily demand in an emergency or disaster scenario; High = Provides more than 80% of daily demand in an emergency or disaster scenario.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
60. Supplementary pumping system <i>Safety ratings: Low = There is no back-up pump and operational capacity does not meet minimum daily demand; Average = Supplementary pumps are in fair condition but would not meet the minimum daily demand for water; High = All supplementary pumps and back-up systems are operational and would meet the minimum demand for water.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.3.3 Water supply system	Safety level			Observations (evaluators' comments)
	Low	Average	High	
61. Emergency maintenance and restoration of water supply systems <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3.4 Fire protection system				
62. Condition and safety of the fire protection (passive) system <i>Safety ratings: Low = Element(s) are subject to damage, and damage would impede the function of this and other elements, systems or operations; Average = Element(s) are subject to damage but damage would not impede function; High = No or minor potential for damage that would impede the function of this and other elements, systems or operations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63. Fire/smoke detection systems <i>Safety ratings: Low = No system has been installed; Average = System is partially installed, or infrequently maintained and tested; High = System is installed and well-maintained and tested frequently.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
64. Fire suppression systems (automatic and manual) <i>Safety ratings: Low = No system has been installed; inspections do not occur; Average = System is partially installed, or system is installed, but no maintenance or testing; inspections are incomplete or outdated; High = System is fully installed and regularly maintained and tested frequently; inspections are complete and up to date.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
65. Water supply for fire suppression <i>Safety ratings: Low = A source of permanent supply which could be used for fire suppression does not exist; Average = A source of permanent supply of water is available for fire suppression; there is limited capacity available, and no maintenance and testing has been conducted; High = A source of permanent water supply with significant capacity for fire suppression is available, regularly maintained and frequently tested.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
66. Emergency maintenance and restoration of the fire protection system <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3.5 Waste management systems				
67. Safety of nonhazardous wastewater systems <i>Safety ratings: Low = System for nonhazardous wastewater disposal does not exist or is in poor condition; Average = System is in fair condition, but little or no evidence of compliance and maintenance; High = Wastewater disposal system is in good condition with good capacity and evidence of compliance and maintenance.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
68. Safety of hazardous wastewater and liquid waste <i>Safety ratings: Low = System for hazardous wastewater disposal does not exist or is in poor condition; Average = System is in fair condition but little or no evidence of compliance and maintenance; High = Disposal system has good capacity and evidence of compliance and maintenance.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.3.5 Waste management systems	Safety level			Observations (evaluators' comments)
	Low	Average	High	
69. Safety of nonhazardous solid waste system <i>Safety ratings: Low = System for solid waste disposal does not exist or is in poor condition; Average = System is in fair condition, but little or no evidence of compliance and maintenance; High = Disposal system is in good condition with good capacity and evidence of compliance and maintenance.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
70. Safety of hazardous solid waste system <i>Safety ratings: Low = System for hazardous waste disposal does not exist or is in poor condition; Average = System is in fair condition but little or no evidence of compliance and maintenance; High = Disposal system is in good condition with good capacity and evidence of compliance and maintenance.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
71. Emergency maintenance and restoration of all types of hospital waste management systems <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3.6 Fuel storage systems (e.g. gas, gasoline and diesel)				
72. Fuel reserves <i>Safety ratings: Low = Sufficient for 24 hours or less, or fuel tank does not exist; Average = Sufficient for more than 24 hours but less than 72 hours; High = Guaranteed to cover at least 72 hours.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
73. Condition and safety of above-ground fuel tanks and/or cylinders <i>Safety ratings: Low = Tanks are in poor condition; there are no anchors or tank enclosure; tanks are not safely located with respect to hazards; Average = Tanks are in fair condition, anchors and bracing are inadequate for major hazards; tank enclosure has some safety and security measures; High = Tanks are in good condition; anchors and bracing are in good condition for major hazards; the tank enclosure has adequate safety and security.</i> <i>IF THE HOSPITAL DOES NOT HAVE THESE SERVICES, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
74. Safe location of fuel storage away from hospital buildings <i>Safety ratings: Low = Fuel storage is not accessible and is not located in a secure site; Average = Site in fair condition and in fair location in relation to hazards; some measures provide partial protection; High = In good condition and good location, well-secured and other protection measures in place; fuel tanks are accessible.</i> <i>IF THERE IS NO FUEL TANK, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75. Condition and safety of the fuel distribution system (valves, hoses, connections) <i>Safety ratings: Low = Less than 60% of the system is in safe operational condition; Average = between 60% and 90% of the system is in good operational condition and has automatic shut-off valves; High = More than 90% of the system is in good operational condition and has automatic shut-off valves.</i> <i>IF THERE IS NO FUEL DISTRIBUTION TANK, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.3.6 Fuel storage systems (e.g. gas, gasoline and diesel)	Safety level			Observations (evaluators' comments)
	Low	Average	High	
76. Emergency maintenance and restoration of fuel reserves <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.3.7 Medical gases systems				
77. Location of storage areas for medical gases <i>Safety ratings: Low = No sites reserved for medical gases, or sites for medical gases are at high risk of failure due to hazards; there are no protective measures, and storage is not accessible; Average = Reserved areas in fair condition and fair location; some measures provide partial protection; High = In good condition, well-secured and other protective measures in place; storage is accessible.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78. Safety of storage areas for medical gas tanks and/or cylinders <i>Safety ratings: Low = Medical gas tanks and cylinders in storage areas are poor condition; no protection measures, not secured; personnel are not trained to operate medical gas and fire extinguishing equipment; Average = Medical gas tanks and cylinders in storage areas are in fair condition, some measures provide partial protection; the quality of anchors and braces is inadequate; personnel are trained to operate equipment; High = Good condition, well-secured and protected, anchors are of good quality for major hazards; medical gas and fire extinguishing equipment operated by qualified personnel.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
79. Condition and safety of medical gas distribution system (e.g. valves, pipes, connections) <i>Safety ratings: Low = Less than 60% of the system is in good working condition; Average = Between 60% and 80% of the system is in good working condition; High = More than 80% of the system is in good working condition.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
80. Condition and safety of medical gas cylinders and related equipment in the hospital <i>Safety ratings: Low = Medical gas tanks and cylinders in hospital areas are in poor condition, no protective measures; not secured; Average = Medical gas tanks and cylinders are in fair condition; the quality of anchors and braces is inadequate; some measures provide partial protection; High = Good condition, well-secured and protected; anchors are of good quality for major hazards.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81. Availability of alternative sources of medical gases <i>Safety ratings: Low = Alternative sources are not available; Average = Alternative sources in place but delivery of supplies takes longer than 15 days; High = Sufficient alternative sources are available at short notice (less than 15 days).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
82. Emergency maintenance and restoration of medical gas systems <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, and personnel have been trained, but resources are not available; High = Procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Continue >>

(Continued) 3.3.7 Medical gases systems	Safety level			Observations (evaluators' comments)
	Low	Average	High	
3.3.8 Heating, ventilation, and air-conditioning (HVAC) systems				
83. Adequate location of enclosures for HVAC equipment <i>Safety ratings: Low = HVAC enclosures are not accessible and they are not located in a safe site; there are no protective measures; Average = HVAC enclosures are accessible, located at a safe site; some measures provide partial protection from hazards; High = HVAC enclosures are accessible, in a safe location and protected from hazards.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
84. Safety of enclosures for HVAC equipment <i>Safety ratings: Low = HVAC equipment is not accessible; no protection measures for safe operation and maintenance; Average = HVAC is accessible; some measures provide partial protection; High = HVAC equipment is accessible, wide range of protection measures in place.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
85. Safety and operating condition of HVAC equipment (e.g. boiler, exhaust) <i>Safety ratings: Low = HVAC equipment in poor condition, not maintained; Average = HVAC equipment in fair condition; some measures provide partial protection, but no regular maintenance; High = Good condition, well-secured and protected from hazards (e.g. anchors are of good quality); regular maintenance and testing of controls and alarms conducted.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
86. Adequate supports for ducts and review of flexibility of ducts and piping that cross expansion joints <i>Safety ratings: Low = Supports are lacking and connections are rigid; Average = Supports are in fair condition or connections are flexible; High = Supports are in good condition and connections are flexible.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
87. Condition and safety of pipes, connections and valves <i>Safety ratings: Low = Less than 60% of pipes are in good condition; limited protective measures against hazards; Average = Between 60% and 80% are in good condition; some measures provide partial protection against hazards; High = Above 80% are in good condition and are well-secured and protected against hazards.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
88. Condition and safety of air-conditioning equipment <i>Safety ratings: Low = Air-conditioning units in poor condition, not secured; Average = Air-conditioning units are in fair condition; some measures provide partial protection (e.g. quality of anchors and braces is inadequate); High = Good condition, well-secured and protected from hazards (e.g. anchors are of good quality).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
89. Operation of air-conditioning system (including negative pressure areas) <i>Safety ratings: Low = Air-conditioning system has no capability for establishing zones of the hospital; Average = Air-conditioning system can establish zones, but has no capacity to separate air circulating between high-risk areas and other areas of the hospital; High = Air-conditioning system can isolate air from high-risk areas; negative pressure rooms are available.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
90. Emergency maintenance and restoration of HVAC systems <i>Safety ratings: Low = Documented procedures and maintenance/inspection records do not exist; Average = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, but resources are not available; High = Documented procedures exist, maintenance/inspection records are up to date, personnel have been trained, and resources are in place for implementing emergency maintenance and restoration.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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3.4 Equipment and supplies	Safety level			Observations (evaluators' comments)
	Low	Average	High	
3.4.1 Office and storeroom furnishings and equipment (fixed and movable)				
91. Safety of shelving and shelf contents <i>Safety ratings: Low = Shelving is not safely located (or in seismic and wind-prone areas not attached to walls in more than 20% of cases); Average = Shelving is safely located (and attached to walls in seismic and wind-prone areas) and contents are secured in 20–80% of cases; High = More than 80% of shelving and the contents of shelves are safely located, attached to walls, and contents are secured.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
92. Safety of computers and printers <i>Safety ratings: Low = No measures to protect computers from hazards are in place; Average = Computers are in safe locations, some measures offer partial protection from hazards; High = Computers are in safe locations, well-secured and good protective measures in place.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.4.2 Medical and laboratory equipment and supplies used for diagnosis and treatment				
93. Safety of medical equipment in operating theatres and recovery rooms <i>Safety ratings: Low = The operating theatres are in an unsafe location, equipment is lacking or in poor condition or there are no protective measures; Average = The operating theatres are in a safe location, equipment is in fair condition, and some measures provide partial protection; High = Operating theatres are in a safe location, equipment is in good condition, is well-secured and measures provide protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
94. Condition and safety of radiology and imaging equipment <i>Safety ratings: Low = The radiology and imaging equipment is not in a safe location, equipment is lacking or in poor condition, or there are no protective measures; Average = The equipment is in a safe location, is in fair condition, and some measures offer partial protection; High = Equipment is in a safe location, is in good condition, well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
95. Condition and safety of laboratory equipment and supplies <i>Safety ratings: Low = Biosafety measures are poor, laboratory equipment is lacking or in poor condition, or there are no protective measures; Average = Biosafety measures are in place, the equipment is in fair condition, and some measures provide partial protection; High = Biosafety measures are in place, equipment is in good condition, well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
96. Condition and safety of medical equipment in emergency care services unit <i>Safety ratings: Low = The medical equipment is lacking or in poor condition or there are no protective measures; Average = The equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
97. Condition and safety of medical equipment in intensive or intermediate care unit <i>Safety ratings: Low = The medical equipment is lacking or in poor condition, or there are no protective measures; Average = The equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, is well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
98. Condition and safety of equipment and furnishings in the pharmacy <i>Safety ratings: Low = The equipment in the pharmacy is lacking or in poor condition, or there are no protective measures; Average = The equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, is well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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(Continued) 3.4.2 Medical and laboratory equipment and supplies used for diagnosis and treatment	Safety level			Observations (evaluators' comments)
	Low	Average	High	
99. Condition and safety of equipment and supplies in the sterilization services <i>Safety ratings: Low = Equipment is lacking or in poor condition, or there are no protective measures; Average = Equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, is well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
100. Condition and safety of medical equipment for obstetric emergencies and neonatal care <i>Safety ratings: Low = Equipment is lacking or in poor condition, or there are no protective measures; Average = Equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, is well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
101. Condition and safety of medical equipment and supplies for emergency care for burns <i>Safety ratings: Low = Equipment is lacking, is in poor condition, or there are no protective measures; Average = Equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, is well-secured and measures provide good protection.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
102. Condition and safety of medical equipment for nuclear medicine and radiation therapy <i>Safety ratings: Low = Equipment is lacking, is in poor condition, or there are no protective measures; Average = Equipment is in fair condition and some measures provide partial protection; High = Equipment is in good condition, is well-secured and measures provide good protection.</i> <i>IF THE HOSPITAL DOES NOT HAVE THESE SERVICES, LEAVE BOXES BLANK AND PROVIDE COMMENT.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
103. Condition and safety of medical equipment in other services <i>Safety ratings: Low = More than 30% of equipment is at risk of material or functional failure and/or equipment puts the entire service's operation at direct or indirect risk; Average = Between 10% and 30% of equipment is at risk of loss; High = Less than 10% of equipment is at risk of loss.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
104. Medicines and supplies <i>Safety ratings: Low = Nonexistent; Average = Supply covers less than 72 hours at maximum capacity; High = Supply guaranteed for at least 72 hours at maximum hospital capacity.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
105. Sterilized instruments and other materials <i>Safety ratings: Low = Nonexistent; Average = Supply cover less than 72 hours at maximum capacity; High = Supply is guaranteed for at least 72 hours at maximum hospital capacity.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
106. Medical equipment specifically used in emergencies and disasters <i>Safety ratings: Low = Nonexistent; Average = Supply covers less than 72 hours at maximum hospital capacity; High = Supply guaranteed for at least 72 hours at maximum hospital capacity.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
107. Supply of medical gases <i>Safety ratings: Low = Less than 10 days' supply; Average = Supply for between 10 and 15 days; High = Supply for at least 15 days.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
108. Mechanical volume ventilators <i>Safety ratings: Low = Nonexistent; Average = Supply covers less than 72 hours at maximum hospital capacity; High = Supply guaranteed for at least 72 hours at maximum hospital capacity.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Module 4: Emergency and disaster management

4.1 Coordination of emergency and disaster management activities	Safety level			Observations (evaluators' comments)
	Low	Average	High	
<p>112. Hospital Emergency/Disaster Committee <i>Safety ratings: Low = Committee does not exist, or 1–3 departments or disciplines represented; Average = Committee exists with 4–5 departments or disciplines represented, but is not fulfilling functions effectively; High = Committee exists with 6 or more departments or disciplines represented and is fulfilling functions effectively.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>113. Committee member responsibilities and training <i>Safety ratings: Low = Committee does not exist or members are untrained and responsibilities not assigned; Average = Members have received training and have been officially assigned; High = All members are trained and are actively fulfilling their roles and responsibilities.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>114. Designated emergency and disaster management coordinator <i>Safety ratings: Low = There is no staff member who has been assigned responsibilities as the emergency/disaster management coordinator; Average = Emergency/disaster management coordination tasks have been assigned to a staff member, but it is not his/her main task; High = A staff member is assigned the emergency and disaster management coordination responsibilities as his/her main task, is fulfilling the role of implementing the hospital's preparedness programme.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>115. Preparedness programme for strengthening emergency and disaster response and recovery <i>Safety ratings: Low = A programme for strengthening preparedness, response and recovery does not exist or, if it exists, no preparedness activities are being implemented; Average = A programme for strengthening preparedness, response and recovery exists and some activities are being implemented; High = A programme for strengthening preparedness, response and recovery is being fully implemented under the leadership of the Hospital Emergency/Disaster Committee.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>116. Hospital incident management system <i>Safety ratings: Low = No arrangements for hospital incident management exist; Average = Staff assigned to key hospital incident management positions but with no written procedures to operationalize its functions; High = Hospital incident management procedures exist and are fully operational with properly trained personnel to assume different coordination roles and responsibilities.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>117. Emergency Operations Centre (EOC) <i>Safety ratings: Low = The EOC is not designated or is in an unsafe or insecure location; Average = The designated EOC is in a safe, secure and accessible location, but would have limited operational capacity immediately in an emergency; High = The EOC is in a safe, secure, and accessible location with immediate operational capacity.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>118. Coordination mechanisms and cooperative arrangements with local emergency/disaster management agencies <i>Safety ratings: Low = No arrangements exist; Average = Arrangements exist but are not fully operational; High = Arrangements exist and are fully operational.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>119. Coordination mechanisms and cooperative arrangements with the health-care network <i>Safety ratings: Low = No arrangements exist; Average = Arrangements exist but are not fully operational; High = Arrangements exist and are fully operational.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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4.2 Hospital emergency and disaster response and recovery planning	Safety level			Observations (evaluators' comments)
	Low	Average	High	
120. Hospital emergency or disaster response plan <i>Safety ratings: Low = Plan is not documented; Average = Documented plan is complete, but is not easily accessible, not up to date (more than 12 months since the last update); High = Plan is complete, easily accessible, reviewed/updated at least annually, and resources are available to implement the plan.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
121. Hospital hazard-specific subplans <i>Safety ratings: Low = Hazard-specific response subplans are not documented; Average = Documented plans are complete but not easily accessible, not up to date (more than 12 months since last review/update); High = Documented plans are complete, reviewed/updated at least annually, and resources are available to implement the plans.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
122. Procedures to activate and deactivate plans <i>Safety ratings: Low = Procedures do not exist or exist only as a document; Average = Procedures exist, personnel have been trained, but procedures are not updated or tested annually; High = Up-to-date procedures exist, personnel have been trained, and procedures have been tested at least annually.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
123. Hospital emergency and disaster response plan exercises, evaluation and corrective actions <i>Safety ratings: Low = Response plan and subplans have not been tested; Average = Response plan or subplans are tested, but are not tested at least annually; High = Response plan or subplans are tested at least annually and updated according to the exercise results.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
124. Hospital recovery plan <i>Safety ratings: Low = Recovery plan is not documented; Average = Documented plan is complete, but not easily accessible, not up-to-date (more than 12 months since last review/update); High = Documented plan is complete, easily accessible, and reviewed/updated at least annually.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Communication and information management				
125. Emergency internal and external communication <i>Safety ratings: Low = Central internal and external communication system functions inconsistently or incompletely; operators are not trained in emergency communication; Average = System functions appropriately, operators have received some training in emergency communication, tests are not conducted at least annually; High = System functions completely and operators are fully trained in emergency use, and tests of the system are conducted at least annually.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
126. External stakeholder directory <i>Safety ratings: Low = Directory of external stakeholders does not exist; Average = Directory exists but is not current (more than 3 months since it was updated); High = Directory is available, is up to date and is held by key emergency response staff.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
127. Procedures for communicating with the public and media <i>Safety ratings: Low = Procedures do not exist, no spokesperson nominated; Average = Procedures exist and nominated spokespersons have been trained; High = Procedures exist, nominated spokespersons have been trained, and procedures have been tested at least annually.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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(Continued) 4.3 Communication and information management	Safety level			Observations (evaluators' comments)
	Low	Average	High	
128. Management of patient information <i>Safety ratings: Low = Procedures for emergency situations do not exist; Average = Procedures for emergency situations exist and personnel have been trained but no resources are available; High = Procedures for emergency situations exist, personnel have been trained, and resources are in place for implementation.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.4 Human resources				
129. Staff contact list <i>Safety ratings: Low = Contact list does not exist; Average = List exists, but is not current (more than 3 months since it was updated); High = List is available and up to date.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
130. Staff availability <i>Safety ratings: Low = Less than 50% of staff are available to run each department adequately; Average = 50–80% of staff are available; High = 80–100% of staff are available.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
131. Mobilization and recruitment of personnel during an emergency or disaster <i>Safety ratings: Low = Procedures do not exist or exist only in a document; Average = Procedures exist and personnel have been trained, but the human resources for an emergency situation are not available; High = Procedures exist, personnel have been trained, and the human resources are available to meet anticipated needs in an emergency.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
132. Duties assigned to personnel for emergency or disaster response and recovery <i>Safety ratings: Low = Emergency assignments do not exist or are not documented; Average = Duties are identified, some (but not all) personnel receive written assignments or training; High = Written duties are assigned, and training or an exercise is conducted for all personnel at least annually.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
133. Well-being of hospital personnel during an emergency or disaster <i>Safety ratings: Low = A designated space and measures do not exist; Average = Space has been designated, but measures cover less than 72 hours; High = Measures are ensured for at least 72 hours.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.5 Logistics and finance				
134. Agreements with local suppliers and vendors for emergencies and disasters <i>Safety ratings: Low = No arrangements exist; Average = Arrangements exist, but are not fully operational; High = Arrangements exist and are fully operational.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
135. Transportation during an emergency <i>Safety ratings: Low = Ambulances and other vehicles and modes of transportation are not available; Average = Some vehicles are available, but not in sufficient numbers for a major emergency or disaster; High = Appropriate vehicles in sufficient numbers are available during emergencies/disasters.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
136. Food and drinking-water during an emergency <i>Safety ratings: Low = Procedures for food and drinking-water for emergencies are non-existent; Average = Procedures exist, food and drinking-water is guaranteed for less than 72 hours; High = Food and drinking-water for emergencies is guaranteed for at least 72 hours.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
137. Financial resources for emergencies and disasters <i>Safety ratings: Low = Emergency budget or mechanism to access emergency funds is not in place; Average = Funds are budgeted and mechanisms are available but cover less than 72 hours; High = Sufficient funds are guaranteed for 72 hours or more.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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4.6 Patient care and support services	Safety level			Observations (evaluators' comments)
	Low	Average	High	
138. Continuity of emergency and critical care services <i>Safety ratings: Low = Procedures do not exist or exist only as a document; Average = Procedures exist, personnel have been trained but would not be available at all times; High = Procedures exist, personnel have been trained, and resources are available to implement procedures at maximum hospital capacity for emergency and disaster situations at all times.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
139. Continuity of essential clinical support services <i>Safety ratings: Low = Procedures do not exist or exist only as a document; Average = Procedures exist and personnel have been trained but would not be available at all times; High = Procedures exist, personnel have been trained, and resources are available to implement procedures at maximum hospital capacity for emergency and disaster situations at all times.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
140. Expansion of usable space for mass casualty incidents <i>Safety ratings: Low = Space for expansion has not been identified; Average = Space has been identified; equipment, supplies and procedures are available to carry out the expansion and staff have been trained, but testing has not been conducted; High = Procedures exist and have been tested, personnel have been trained, and equipment, supplies and other resources are available to carry out the expansion of space.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
141. Triage for major emergencies and disasters <i>Safety ratings: Low = Designated triage location or procedures do not exist; Average = Triage location and procedures exist and personnel have been trained, but procedures have not been tested for emergency and disaster situations; High = Location and procedures exist and have been tested, personnel have been trained, and resources are in place to implement at maximum hospital capacity in emergency and disaster situations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
142. Triage tags and other logistical supplies for mass casualty incidents <i>Safety ratings: Low = Nonexistent; Average = Supply covers less than 72 hours of maximum hospital capacity; High = Supply guaranteed for at least 72 hours of maximum hospital capacity.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
143. System for referral, transfer and reception of patients <i>Safety ratings: Low = Procedures do not exist or exist only as a document; Average = Procedures exist and personnel have been trained, but procedures have not been tested for emergency or disaster situations; High = Procedures exist and have been tested, personnel have been trained, and resources are available to implement measures at maximum hospital capacity in emergency or disaster situations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
144. Infection surveillance, prevention and control procedures <i>Safety ratings: Low = Policies and procedures do not exist; standard precautions for infection prevention and control are not followed routinely; Average = Policies and procedures exist, standard precautions are routinely followed, personnel have been trained, but the level of resources required for emergency and disaster situations, including epidemics, is not available; High = Policies and procedures exist, infection prevention and control measures are in place, personnel have been trained, and resources are available to implement measures at maximum hospital capacity in emergency and disaster situations.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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(Continued) 4.6 Patient care and support services	Safety level			Observations (evaluators' comments)
	Low	Average	High	
<p>145. Psychosocial services <i>Safety ratings: Low = Procedures do not exist or exist only as a document; Average = Procedures exist and personnel have been trained, but the level of resources required for emergency and disaster situations is not available; High = Procedures exist, personnel have been trained, and resources are available for implementation of procedures at maximum hospital capacity in emergency and disaster situations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>146. Post-mortem procedures in a mass fatality incident <i>Safety ratings: Low = Procedures for a mass fatality incident do not exist or exist only as a document; Average = Procedures exist and personnel have been trained, but the level of resources required for emergency and disaster situations is not available; High = Procedures exist, personnel have been trained, and resources are available for implementation of procedures at maximum hospital capacity in emergency and disaster situations.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.7 Evacuation, decontamination and security				
<p>147. Evacuation plan <i>Safety ratings: Low = Plan does not exist or exists only as a document; Average = Plan exists and personnel have been trained in procedures, but tests are not conducted regularly; High = Plan exists, personnel have been trained, and evacuation drills are held at least annually.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>148. Decontamination for chemical and radiological hazards <i>Safety ratings: Low = No personal protective equipment is available for immediate use by hospital staff, or no decontamination area exists; Average = Personal protective equipment is available for immediate use, decontamination areas are established, staff training and drills are not conducted annually; High = Personal protective equipment is available for immediate use, decontamination areas are established and personnel are trained and tested at least annually.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>149. Personal protection equipment and isolation for infectious diseases and epidemics <i>Safety ratings: Low = No personal protective equipment is available for immediate use by hospital staff, or no isolation area exists; Average = Supply is available for immediate use, but is sufficient for less than 72 hours of maximum hospital capacity, isolation areas are established, staff training and testing of procedures are not conducted annually; High = Supply is guaranteed for at least 72 hours of maximum hospital capacity and alternate sources are in place for resupply, isolation areas are established, staff training and testing of procedures are conducted at least annually.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>150. Emergency security procedures <i>Safety ratings: Low = Emergency security procedures do not exist or exist only as a document; Average = Documented procedures exist and personnel have been trained in emergency security procedures but testing is not conducted at least annually; High = Personnel are trained and tests of the documented procedures are held at least annually.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>151. Computer system network security <i>Safety ratings: Low = The hospital does not have a computer security system plan and procedures in place; Average = The hospital has a basic cyber security plan in place but it is not monitored and updated regularly; High = The hospital has a cyber security plan in place and it is updated regularly.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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