Template for reporting pre-hospital medical major incident management

○ Indicates that only one option can be ticked.
□ Indicates that several options can be ticked.

Pre-incident data
Free text. Maximum number of words: 500.
Please provide following minimum information: in which country/ies did the major incident occur. The population and population density (number of people living per unit of an area) in the affected area. Information on pre-existing infrastructure stating accessibility in the area (by road, train, boat, foot) and the telecommunications network. You should also describe any special conditions in the country and area.

EMS background

<table>
<thead>
<tr>
<th>1</th>
<th>Was an EMS coordinating centre (the centre responsible for dispatching and coordinating EMS units on-scene) available in the affected country/ies before the incident?</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Yes</td>
<td>○ No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>Does a dialling number to Emergency Services exist?</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Yes</td>
<td>○ No</td>
</tr>
</tbody>
</table>

If yes: a single and unique dialling number to EMS or one common dialling number for all Emergency Services (fire, police and EMS)?
If no: please specify how EMS is alerted.

<table>
<thead>
<tr>
<th>3</th>
<th>Can a major incident be declared directly by the person receiving an alert at the EMS coordinating centre?</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Yes</td>
<td>○ No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4</th>
<th>What is the background of staff in the every-day/normal staffing of EMS services? Please tick for all options that apply.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Basic Life Support by non-EMS professional</td>
<td></td>
</tr>
<tr>
<td>☐ Basic Life Support by EMS professionals, non-physician</td>
<td></td>
</tr>
<tr>
<td>☐ Advanced Life Support by EMS professional, non-physician</td>
<td></td>
</tr>
<tr>
<td>☐ Advanced Life Support on-scene by physician</td>
<td></td>
</tr>
<tr>
<td>☐ Other/unknown</td>
<td></td>
</tr>
<tr>
<td>If other please specify.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>What other resources are routinely available to assist the EMS service in a normal setting? Please tick for all options that apply.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Fire brigade</td>
<td></td>
</tr>
<tr>
<td>☐ Police</td>
<td></td>
</tr>
<tr>
<td>☐ Voluntary organizations.</td>
<td></td>
</tr>
<tr>
<td>☐ Coast guard</td>
<td></td>
</tr>
<tr>
<td>☐ Military</td>
<td></td>
</tr>
<tr>
<td>☐ Civil protection</td>
<td></td>
</tr>
<tr>
<td>☐ Other/unknown</td>
<td></td>
</tr>
<tr>
<td>If other please specify.</td>
<td></td>
</tr>
</tbody>
</table>

If voluntary organizations are available please specify which and if these require authorisation from police or other authorities to participate in the response phase.
### Incident characteristics

1. **What other resources can be mobilized in a major incident?**
   - Fire brigade
   - Police
   - Voluntary organizations
   - Coast guard
   - Military
   - Civil protection
   - Other/unknown
   - If other please specify
   - If voluntary organizations are available please specify which and if these require authorisation from police or other authorities to participate in the response phase.

2. **How many and what type of hospitals exist within the EMS catchment system that was affected by the major incident?**
   - Regional hospital with trauma specialty
   - Regional hospital without trauma specialty
   - Local hospital without trauma specialty
   - Other types of hospitals. Please specify
   - Please state whether the numbers are estimated or exact.

3. **Is a pre-hospital on-scene triage system in use daily on a national level?**
   - Yes
   - No
   - Unknown
   - If yes please specify which triage system/s.

4. **Is a pre-hospital on-scene triage system in use daily on regional levels?**
   - Yes
   - No
   - Unknown
   - If yes please specify which triage system/s.

5. **Is there a pre-hospital on-scene triage system for major incidents in use on a national level?**
   - Yes
   - No
   - Unknown
   - If yes please specify which triage system/s.

6. **Is there a pre-hospital on-scene triage system for major incidents in use on regional levels?**
   - Yes
   - No
   - Unknown
   - If yes please specify which triage system/s.

7. **Does the pre-hospital on-scene triage system for major incidents include direct tagging/labelling of patients?**
   - Yes
   - No
   - Unknown
   - N/A

8. **For those employees within the pre-hospital EMS system who are intended to work on-scene: is major incident training mandatory?**
   - Yes
   - No
   - Unknown

---

**Incident characteristics**

9. **What was the mechanism/external factor that caused the incident?**
   - Transport accident
   - Extreme weather
   - Seismic incident
   - Fire
   - Mass gathering
   - Explosive
   - Industrial accident
   - Nuclear or radiological incident
   - Biological incident
   - Chemical incident
   - Other: Please specify
   - If extreme weather please choose one of the options below:
     - Avalanche
     - Flooding
     - Thunderstorm
     - Hurricane
     - Extreme heat
     - Extreme cold
     - Other: Please specify

   - Is this incident coupled to another incident?
     - Yes
     - No
     - If yes, which incident?
### Incident characteristics

#### EMS response data

- **Unit of an area** in the affected area.
- Information on pre-existing infrastructure stating

#### Was there damage to infrastructure that affected EMS response? Please tick for all options that apply.
- Urban area
- Rural/countryside area
- Offshore/maritime (ocean, river, lake)
- Mountain
- Road
- Air
- Airport
- Educational facility
- Public facility
- Health care facility
- Building
- Mass gathering
- Other/unknown

If other please specify.

#### What was the EMS’ mode of access to treat patients at incident scene? Please tick for all options that apply.
- Wheeled vehicles
- Rail
- Air
- Boat
- Foot
- Other. Please specify

For each ticked alternative please specify if there was a delay in accessing the patient in order to start evaluation/treatment and why this occurred.

Reasons for delay could include reasons such as: security issues, congested roads due to traffic, weather conditions.

#### What was the EMS’ mode of evacuating patients from the incident scene? Please tick for all options that apply.
- Wheeled vehicles
- Rail
- Air
- Boat
- Foot
- Other. Please specify

For each ticked alternative please specify if there was a delay in the evacuation of the patient/s and why this occurred.

Reasons for delay could include reasons such as: entrapment, lack of transport capacity, weather conditions etc.

#### Was there damage to infrastructure that affected EMS response? Please tick for all options that apply.
- Power
- Telecommunication
- Other modes of communication
- Road
- Rail
- Damage to the EMS or health structure
- Other damage. Please specify

For each ticked alternative please state what the damage was and how it affected the EMS response.

#### How many sites required separate EMS infrastructure (such as on-scene leadership and casualty clearing stations) in the response phase?

Please state whether the number is estimated or exact.

#### Which hazards existed for rescuers on scene? Please tick for all options that apply.
- On going violence or risk of further violence
- Fire
- Collapsing building/s
- Climate
- Lack of electricity
- Lack of water/food
- Other. Please specify

For each ticked alternative please specify what the hazard was and how it affected the rescuers on-scene.

#### Which hazards existed for patients on scene? Please tick for all options that apply.
- On going violence or risk of further violence
- Fire
- Collapsing building/s
- Climate
- Lack of electricity
- Lack of water/food
- Other. Please specify

For each ticked alternative please specify what the hazard was and how it affected the patients on-scene.
EMS response data

The following questions are regarding on-scene initial actions by first medical team to arrive on-scene.

Did the first medical team to arrive on-scene:
- Assume the role of on-scene medical commander?
- Begin to make an assessment of scene safety?
- Communicate a situation report to EMS coordinating centre?
- If yes was this done according to a pre-existing system or mnemonic? (e.g. METHANE).
- Request additional resources?
- If yes please specify what types of resources were requested.
- Initiate any safety related actions?
- If yes please describe which.
- Delegate responsibility for other tasks on scene?
- If yes please describe other tasks.
For each ticked alternative the responder will be asked to provide time for each action (provided as date: year/month/day and time: hh:mm) and state whether the time provided is exact or estimated.

What kind of medical personnel assumed the role of on-scene medical commander?

The following questions are regarding system-level medical coordination.

What time was summoning of additional medical staff to participate in the medical response initiated?
- (provided as date: year/month/day and time: hh:mm)
Were additional medical staff who responded to the major incident summoned by:
- First medical team to arrive on-scene?
- On-scene medical commander?
- EMS coordinating centre?
- Other means? Please specify.
Were medical pre-hospital resources used in the major incident response coordinated by:
- First medical team to arrive on-scene?
- On-scene medical commander?
- EMS coordinating centre?
- Other means? Please specify.
Who was responsible for briefing medical staff of the situation during the pre-hospital major incident medical response?
- First medical team to arrive on-scene?
- On-scene medical commander?
- EMS coordinating centre?
- Other. Please specify.

The following questions are regarding medical communication

Was communication achieved between medical personnel at the incident:
- Yes
- No
- Unknown

If yes was this communication managed by:
- First medical team to arrive on-scene?
- On-scene medical commander?
- EMS coordinating centre?
- Written reports?
- Other means? Please, specify.

If yes, where possible please provide time for initiating the action (provided as date: year/month/day and time: hh:mm).
If no: why was communication not achieved?

Was communication achieved between the different task forces involved (police, fire fighters, health, political leaders etc)?
- Yes
- No, between none of the task forces
- Unknown

If yes: was communication achieved between all of the task forces or only between some of the task forces?
Follow up questions will be provided to specify between whom it was or was not achieved, and between whom it should have been achieved.

Was communication achieved between the scene and the EMS coordinating centre:
- Yes
- No
- Unknown

If yes was communication managed by:
- First medical team to arrive on-scene?
- On-scene medical commander?
- EMS coordinating centre?
- Written reports?
- Other means? Please, specify.

If yes, where possible please provide time for initiating the action (provided as date: year/month/day and time: hh:mm).
If no: why was communication not achieved?
Incident characteristics

Pre-incident data

- Was there damage to infrastructure that affected EMS response? Please tick for all options that apply.
- What was the mechanism/external factor that caused the incident? Please tick for all options that apply.
- What was the EMS’ mode of evacuating patients from the incident scene? Please tick for all options that apply.
- Was there any over-or undertriage?

Emergency response

- What was the number of deaths on-scene before any medical care was provided?
- What was the number of units in each transport category that responded to the major incident? Returning units are to be returned.

EMS performance

- What was the total number of patients admitted to hospital?
- How many patients sustained minor injuries? Is the number given estimated or exact and from which data source do these figures originate?
- For each category please specify if the numbers are estimated or exact.

EMS resource mobilization

- What other resources can be mobilized in a major incident? Please tick for all options that apply.

Medical incident command

- Please describe any delays in the timings mentioned in question 26 (free-text).
- What was the number of persons in each category who were present at scene during the EMS response to the incident?
- For each ticked option please state whether the number is estimated or exact.

Medical communications

- Describe the structure of the medical incident command during the major incident (free text).
- The following questions are regarding modes of communication

- Which mode/s of communication were used during the major incident response? Please tick for all options that apply.
- Are the same communication systems mentioned above in use on a daily basis?

Medical operational performance

- Please provide timings for the following (provided as date: year/month/day. Time: hh:mm):
- Incident time
- Emergency Medical Service (EMS) notification
- First EMS arrival
- Major incident declared
- Medical command established
- Time of first meeting between police /fire / medical command
- 1st patient evacuated by EMS (time of leaving incident scene)
- Last patient evacuated by EMS (time of leaving incident scene)
- 1st patient arriving in hospital
- Last patient arriving in hospital

- Please state if the timings are estimated or exact.

Medical operational outcomes

- Please describe any delays in the timings mentioned in question 26 (free-text).
- The following questions are regarding on-scene resources

- What was the number of persons in each category who were present at scene during the EMS response to the incident?
- For each ticked option please state whether the number is estimated or exact.
Patient characteristics

33 What was the estimated number of population at risk from the major incident? (e.g. number of passengers on a train/ship)?

Please explain how the above number of population at risk was reached?

34 Gender

- Males
- Females
- Unidentified/missing victims at the time of writing this report

For each category please provide the number and if the numbers are estimated or exact.

35 Were there children requiring the attention of EMS?

Yes
No
Unknown

If yes number of:
- Neonates (0-30 days)
- Infants (1 month-2 years)
- Young child (2-6 years)
- Adolescent (12-18 years)

For each category please state if the number is estimated or exact.

36 What was the number of deaths on-scene before any medical care was provided?
### Incident characteristics

Please provide following minimum information:

- In which country/ies did the major incident occur?
- What was the EMS' mode of evacuating patients from the incident scene? Please tick for all options that apply.
- What was the location of the incident scene? Please tick for all options that apply.
- If available: what was the 30-day mortality of those admitted to hospital? Please state whether figures are estimated or exact, and if data collection of 30-day mortality of those admitted to hospital is considered complete.

### Pre-incident data

- Number of patients in each category upon first assessment on scene
  - Red = immediate
  - Yellow = urgent
  - Green = minor/delayed
  - Black = deceased
  - Other categories? Please specify.

  For each category please state if the number is estimated or exact.

- Which triage system was used?
- Were any patients attended by EMS or medical staff at a primary health care facility and not admitted to hospital?
  - Yes
  - No
  - Unknown

  If yes:
  - How many patients sustained minor injuries? Is the number given estimated or exact and from which data source do these numbers originate?

- Was there any over- or undertriage?
  - Yes
  - No
  - Unknown

  If yes: what was the % of overtriage, what was the % of undertriage. Please state any definition for triage precision calculations as well as the data source.

### During the pre-hospital emergency medical response

- What was the total number of patients seeking care at a hospital?
- What was the total number of patients admitted to hospital?
- How many of the admitted patients were discharged within 24 hours?
  - Please state whether figures are estimated or exact and provide the data source [e.g.: hospital records].

### Did any patients sustain the following types of injury?

- Blunt trauma
- Penetrating trauma
- Burns
- Drowning
- Asphyxiation
- Hypothermia
- Intoxication/poisoning
- Infectious disease
- Acute psychiatric symptoms
- Nuclear or radiological injury
- Biological injury
- Chemical injury
- Other types of injury

If possible: for each ticked alternative please specify the number, if the number is estimated or exact and please state the data source for which the numbers derive.

### Were any patients admitted to critical care area?

- Yes
- No
- Unknown

If yes:
- Please state the number of patients admitted to critical care area, if the number is estimated or exact and state the data source. Please explain how you define critical care.
### Key lessons

<table>
<thead>
<tr>
<th>47</th>
<th>During the pre-hospital emergency medical response to this major incident, were there any particular problems that may be improved in future major incidents?</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Yes</td>
</tr>
<tr>
<td>☐</td>
<td>No</td>
</tr>
<tr>
<td>If yes: In what area/s did the problem/s occur?</td>
<td></td>
</tr>
<tr>
<td>☐</td>
<td>Issues related to pre-incident situation in the country/region</td>
</tr>
<tr>
<td>☐</td>
<td>Issues related to EMS situation before the major incident</td>
</tr>
<tr>
<td>☐</td>
<td>Nature of the incident itself</td>
</tr>
<tr>
<td>☐</td>
<td>The EMS response</td>
</tr>
<tr>
<td>☐</td>
<td>Characteristics of the patients</td>
</tr>
<tr>
<td>☐</td>
<td>Other – please specify</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>48</th>
<th>During the pre-hospital emergency medical response to this major incident, were there any particular successes that may enhance the response to future major incidents?</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Yes</td>
</tr>
<tr>
<td>☐</td>
<td>No</td>
</tr>
<tr>
<td>If yes: In what area/s did the problem/s occur?</td>
<td></td>
</tr>
<tr>
<td>☐</td>
<td>Issues related to pre-incident situation in the country/region</td>
</tr>
<tr>
<td>☐</td>
<td>Issues related to EMS situation before the major incident</td>
</tr>
<tr>
<td>☐</td>
<td>Nature of the incident itself</td>
</tr>
<tr>
<td>☐</td>
<td>The EMS response</td>
</tr>
<tr>
<td>☐</td>
<td>Characteristics of the patients</td>
</tr>
<tr>
<td>☐</td>
<td>Other – please specify</td>
</tr>
</tbody>
</table>