**EMS AHF Survey**

***(Please, fulfil all blank squares or lines, don’t fulfil shadowed squares)***

**1.- EMS - General** (regarding the EMS responding this survey) (referred to 2016)

Country: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Region or city of EMS catchment area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Population covered by the EMS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.- Dispatch centre** (referred to 2016)

Total annual number of health care related emergence phone calls (2016): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ambulances sent to scene (2016): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Transfers by ambulances to hospital (2016): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of categories of urgency (2016): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Target times for every category from dispatch to ambulance on the scene (2016):

Highest urgency = \_\_\_\_\_\_\_\_\_ min, Second highest = \_\_\_\_\_\_\_\_min, third highest = \_\_\_\_\_\_\_\_\_

**3.- Ambulances** (referred to 2016)

Classify the type of emergency ambulances available in the field, according to how they are staffed and the resources on board, from those of higher acuity (A) to those to less acuity (C, if needed) (tentatively, two main types of ambulances have been predefined: advanced life support -ALS- and basic live support -BLS-). Please, also provide helicopter service data in the last (Z) column.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A** | **B** | **C** | **Z** |
| **Ambulances** |  |  | (if needed) |  |
| Name as this resource (ambulance) is known | ALS | BLS |  | Helicopter |
| # ambulances in your area |  |  |  |  |
| **Staff on board** |  |  |  |  |
| Doctors? *(0=Not; 1=Yes)* |  |  |  |  |
| # doctors in the ambulance |  |  |  |  |
| Nurses? *(0=Not; 1=Yes)* |  |  |  |  |
| # nurses in the ambulance |  |  |  |  |
| Paramedics? *(0=Not; 1=Yes)* |  |  |  |  |
| # paramedics in the ambulance |  |  |  |  |
| **Diagnostic arsenal on board**  *(0=Not; 1= In some ambulances; 2=Yes)* |  |  |  |  |
| Non-invasive blood pressure device |  |  |  |  |
| Pulse oxymeter |  |  |  |  |
| 12-lead ECG |  |  |  |  |
| With respect point of care for blood analysis, are they provided with: |  |  |  |  |
| -Glucometer? |  |  |  |  |
| -Blood gases analyser? |  |  |  |  |
| -Electrolytes analyser? |  |  |  |  |
| -BNP? |  |  |  |  |
| -Troponin? |  |  |  |  |
| Are ambulances equiped with ultrasound device? |  |  |  |  |
| - If yes, please describe type |  |  |  |  |
| Other diagnostic tools on board (please, name them) |  |  |  |  |
| **Treatment allowed to provide on board**  *(0=Not; 1=Permission request needed; 2=Yes/Permanent standing order)* |  |  |  |  |
| Oxygen? |  |  |  |  |
| IV diuretics? |  |  |  |  |
| IV nitro-glycerine? |  |  |  |  |
| Morphine? |  |  |  |  |
| Non-invasive ventilation or CPAP? |  |  |  |  |
| Orotracheal intubation? |  |  |  |  |
| Mechanical ventilation? |  |  |  |  |

*CPAP: continuous positive airway pressure*

**4- Specific Protocols**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MAIN SUSPECTED DIAGNOSIS IN THE SCENE** | **Dyspnea**  **(unclear or unsuspected origin)** | **AHF**  **(if AHF is highly suspected)** | **Chest paint**  **(unclear or unsuspected origin)** | **STEMI**  **(if STEMI is highly suspected)** |
| **Do you have a specific protocol for?**  *(0=Not; 1=Yes)* |  |  |  |  |
| **If yes, what of the following actions are protocolized?**  *(0=Not; 1=Permission request needed; 2=Yes/Permanent standing order)* |  |  |  |  |
| Take 12-lead ECG |  |  |  |  |
| Insert an IV line |  |  |  |  |
| Run a troponin in a POC in the scene |  |  |  |  |
| Run a BNP/NT-proBNP in a POC in the scene |  |  |  |  |
| Run a lactate in a POC in the scene |  |  |  |  |
| Do ultrasound |  |  |  |  |
| Provide oxygen |  |  |  |  |
| Provide IV diuretics |  |  |  |  |
| Provide morphine/opiates |  |  |  |  |
| Provide IV nitro-glycerine |  |  |  |  |
| Provide aspirin |  |  |  |  |
| Provide a second antiplatelet (clopidogrel / ticagrelor) |  |  |  |  |
| Provide fibrinolysis |  |  |  |  |
| Provide non-invasive ventilation or CPAP |  |  |  |  |
| Perform intubation |  |  |  |  |
| Perform mechanical ventilation |  |  |  |  |

*POC: point of care; CPAP: continuous positive airway pressure;*

**5- Perceived difficulty in getting a diagnosis**

What is your subjective feeling about how easy or difficult it is to recognize the following specific patient groups in the dispatch centre and at scene

*(Use the following Likert scale from 1 to 5 points; where* ***1 point is very easy*** *and* ***5 points is very difficult****)*

|  |  |  |
| --- | --- | --- |
| **SUSPECTED DIAGNOSIS** | **In dispatch centre**  (by data obtained from the phone interview) | **At scene**  (from the direct clinical patient prehospital assessment, before arrival to ED) |
| Stroke |  |  |
| STEMI |  |  |
| Acute coronary syndrome |  |  |
| Heart failure: chronic decompensated heart failure |  |  |
| Heart failure: *de-novo* |  |  |
| Pulmonary embolism |  |  |
| Asthma attack |  |  |
| Sepsis |  |  |

*STEMI: ST elevation myocardial infarction*