

Prehospital incoming calls for Chest pain: Which factors do we need to set off the alarm?

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Background:

Non traumatic chest pain (NTCP) is a common complaint in emergency medical department (EMD). It overlies a wide spectrum of different etiologies, requiring a specific therapeutic attitude. As such, the symptom analysis becomes delicate, particularly in prehospital care as variable clinical presentations might cover a single diagnosis and vice versa.

The aim of our study is to reveal the factors influencing the prioritization of incoming calls for a NTCP as well as indication of medical transport.

Materials and methods:

Our study is a transverse prospective survey accomplished at the prehospital emergency medical service (EMS) 03 of Sahloul University hospital, during a 2months period running from January the In contrast, neither gender nor aged 1st to February the 28th, 2017. It included all conditioned prehospital medicalisation. the incoming calls for NTCP from the Tunisian East-central area.

Data were collected via a form listing patient's social and demographic

features, EMS characteristics, clinical praticians' attitude and subsequent patient' evolution.

Statistical analysis was realized meaning SPSS 22.0 program.

Results:

Overall, 274 calls for NTCP were saved patients were included. The and 198 symptomatology was considered as vital functions-threatening (priority 1) in 40,9%, and urgent (priority 2) in 28,8% of cases. The decicion of medical transport was but 71.3% remained unenforceable in 16.2 % of cases because of technical means unavailability.

The elderly patients were usually assigned to priority 1 and 2 (prioritization 1 and 2: 64 +/- 14 years vs. prioritization 3 and 4: 58 +/- 18, 7 years, p=0, 01).

Diabetes was the single factor significantly associated to a higher Medical transport (diabetic subjects 84, 4% vs. non diabetic ones 64%, p=0,009). Similarly, priorities 1

and 2 were more frequently attributed to diabetic individuals (diabetics 84,4% vs. 61,5%, p=0,004) and to smokers (smokers: 83,3% vs. weaned smokers: 69% vs. lifelong nonsmokers: 60,3%, p=0,045). retrosternal, epigastric, Heavy, spontaneous/effort triggered as well as constrictive/burning chest were pain significantly associated to priorities 1 and 2, hence to medical intervention. Similar facts were concluded for NTCP combined with ST segment elevation myocardial infarction revealed on initial ECG.

Conclusion:

scrutinizing for cardiovascular risk factors and for functional signs is essential for determining the urgency level in the setting of an incoming call for a chest pain. Mdical regulation plays a substantial role in calls analysis and holds the key to a better resources management through a convenient detection of high-risk patients, therefore limiting interventions on fake emergencies.