

Category : **Emergency room**

**A235 - Indications and measures of medical emergency teams - an evaluation of in-hospital emergency operations of the german resuscitation registry**

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**Introduction:**

The present study examines the characteristics and measures of in-hospital emergency interventions by Medical Emergency Teams (MET) using data from the German Resuscitation Registry.

**Methods:**

Between 2014-2019, all in-hospital emergencies outside the operation theatre or intensive care unit from hospitals with established MET, defined as proportion of resuscitations to all MET calls <50% in patients ≥18 years of age, were included. These were analyzed for age, gender, the emergency event as per the ABCDE scheme, the arrival and care times as well as the performed interventions (intubation, invasive blood pressure measurement, catecholamine therapy). The study was approved by the ethics committee of the University of Kiel (Ref. No.: D 648/20).

**Results:**

Between 2014-2019, a total of 14,166 in-hospital emergencies (male 8,033 (57%); mean age 64±18 years) were treated by MET from 62 German hospitals. The causes for MET activation were mostly C-problems (5,760 (41%)), followed by D-problems (4,076 (29%)). A B-problem caused a MET-activation in 26% (n=3,649) and an A-problem in 11% (n=1,589). The MET arrived after 4±3 minutes with a time of care of 24±23 minutes. Table 1 shows selected invasive and therapeutic measures by MET. 201 (11%) had a difficult airway (> 1 intubation attempt and/or change of procedure) with a need for coniotomy in 8 of these patients (4%).

**Conclusion:**

In-hospital emergency care is demanding and requires advanced competencies in invasive haemodynamic and airway interventions of the attending physicians. Taking these special features into account, there is a need for specific recommendations regarding training and equipment of MET, that need to consider the resources and the patient population of the respective hospitals.

**Table:**

	Overall [n(%)]	A-B [n(%)]	C [n(%)]	D [n(%)]
Intubation	1757(12)	937(24)	459(17)	488(18)
Invasive Blood Pressure	1074(8)	514(13)	394(15)	234(9)
Catecholamine therapy	2421(17)	1060(27)	1060(27)	492(18)
Epinephrine	430(3)	195(5)	205(8)	42(2)
Norepinephrine	1.520(11)	735(19)	729(27)	342(13)
Others	820(6)	316(8)	439(16)	199(7)

*Legend 1*