

The Austrian In-Hospital CPR Situation 2003

An Actual Inquiry

S.Schneider and the ARC In-Hospital Working Group, S.Fitzal, M.Baubin
Austrian Resuscitation Council

- **To evaluate the current situation of organisation and outcome of CPR in Austrian hospitals**
- **Prospective e-mail inquiry (06-12 2003) among in-hospital quality managers / medical directors in all austrian hospitals with 24-hours supply (n=277)**
- **Standardized questionnaire on: organization, logistic, equipment, acute response team, CPR-training and outcome**

ARC Return Rate & Evaluation

Rate of return:

overall: 41,1 % (n = 114 */277)

Acute-Hospitals: 48,6 % (n = 87/179)

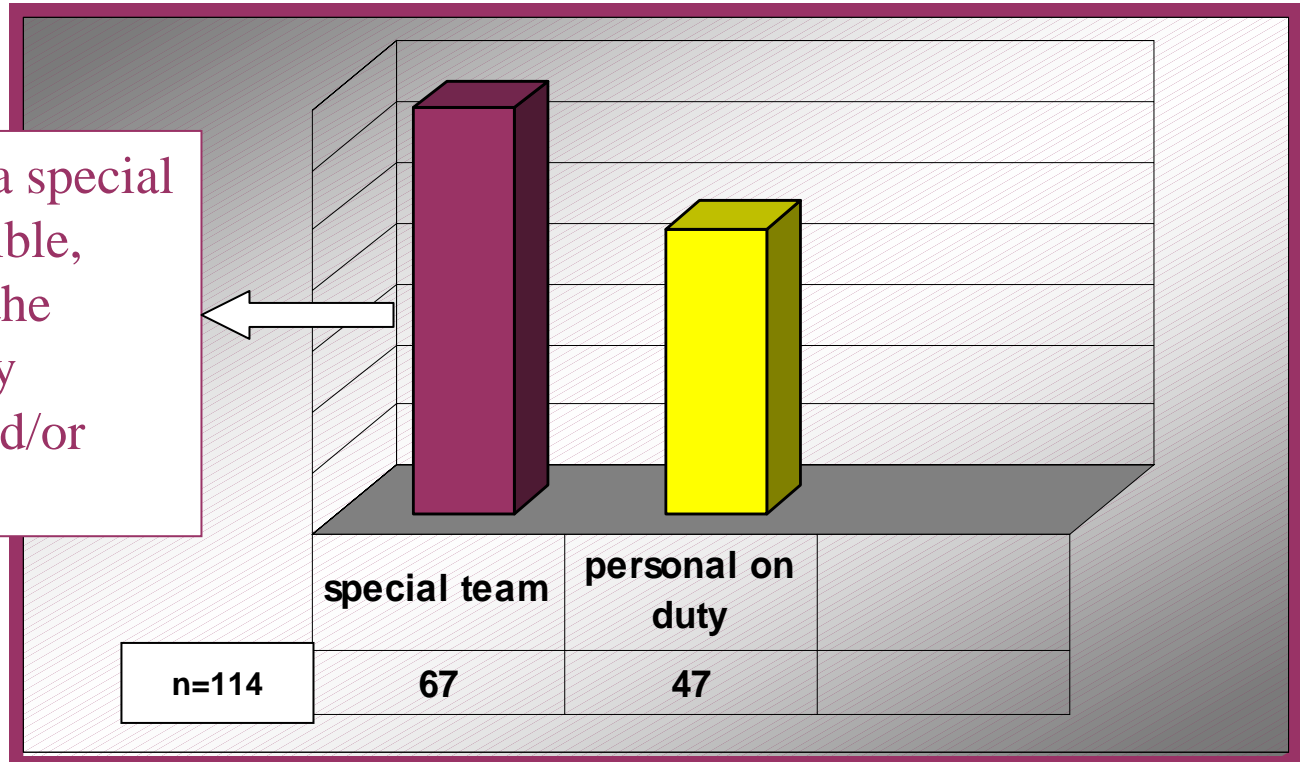
Evaluation:

Answers of 114 hospitals with a total number of
38.865 beds

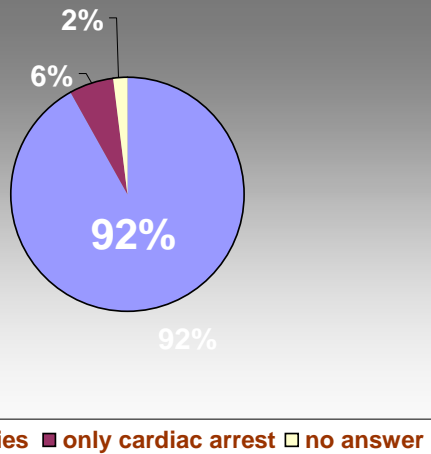
* 277 Hospitals in Austria, from them 179 acute hospitals (Reference: BMGF 3.04)

Availability of an Emergency Team?

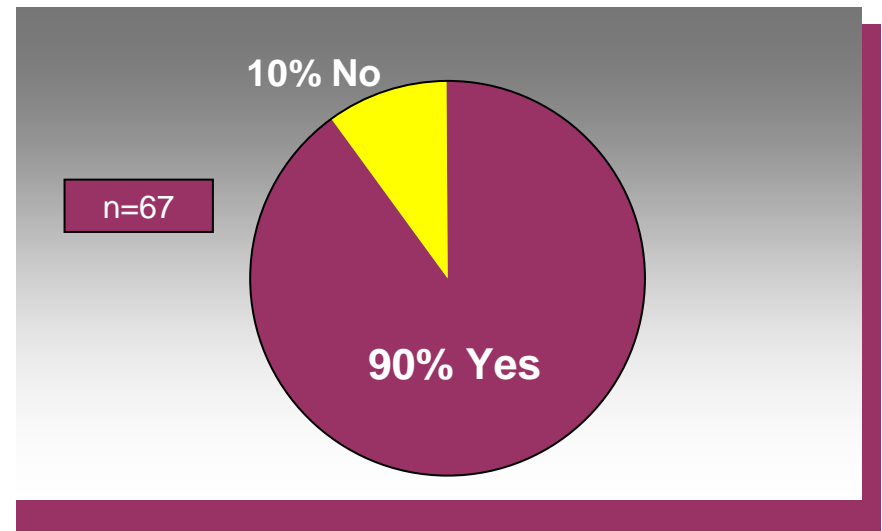
In 60% (n=67) a special team is responsible, in 40% (n=47) the personal on duty manages CA and/or emergencies



Responsibility



Response interval < 4 min



Special emergency number?

Yes: 84 % (n = 96)

No: 16 % (n = 18)

Amount of emergency calls per year?

- 5 % (n = 6) **exact** data
- 55 % (n = 63) **estimate** the number of calls
- 40 % (n = 45) **unknown**

ARC Standardized Alert Criteria?

52,6 % answered YES, (although some of these affirming hospitals did not have an organized emergency team)

58,3 % of these use pathophysiological criteria

40 % use an operator and have no direct calling

Standardized
emergency case?

86% (n=98)

Defibrillator
available on every
ward/floor

46% (n=52)

AED's in the
hospital?

45% (n=51)

- 96 % (n=109) offer CPR-training
- 86 % (n= 94) offer a repeating CPR-training, mainly every year
- 76 % (n= 83) training is obligatory
- 20 % (n= 22) have a budget for training

Who is trained?

- 27 % (n=29) whole staff
- 46 % (n=50) nursing staff only
- 34 % (n=37) doctors in training only
- 14 % (n=15) licenced physicians only

ARC Documentation & Outcome

- **39 % (n = 44) document CPR attempts**, 30/44 on a not-standardized form, 14/44 electronically
- **12,3 % (n = 14) analyse the data**

Is discharge after CA measured?

- **Detailed information** in 3,5 % (n = 4/114) hospitals
- **Estimation** in 14 % (n = 16) hospitals with a 0-100% survival rate
- **No data/no answer** in 94 hospitals

- **59 % of the Austrian hospitals have a special organized emergency team. Most of these respond not only to a cardiac arrest alarm, but to other emergencies also. There are no special alert criteria of physiological changes in patients at risk.**
- **54 % of the Austrian hospitals are equipped with less than one defibrillator per ward/floor, 45% are partially equipped with AED's.**
- **Regular (obligatory) and repeated CPR-training of the whole staff is not the rule; a budget for training is available in 20% only.**
- **Documentation is done in 39% only, on a not-standardized form and only 12 % (n = 14) of the hospitals analyze their data. Outcome is unknown in most of the hospitals**

We need an emergency system in every hospital, which manages the following key areas:

- **Providing a rapid and effective resuscitation response**
 - Regular training of the whole hospital staff (medical and non medical) in BLS+AED-techniques and selected staff in advanced life support skills
 - Standardized equipment + AED within 3 min
- **Identifying patients at risk and applying preventative strategies**
 - Standardized set of calling criteria identifying life threatening
- **Identifying futility**
 - DNR-order on the ward
- **Auditing resuscitation to achieve quality improvement**
 - Documentation of emergency calls according to Utstein-Style
 - Data analysis

Cardiac Arrest Team + Medical Emergency Team!

ARC

Thank you



Cardiac Arrest Team + Medical Emergency Team!



ARC In-Hospital Working Group

- Doz.Dr.Michael Baubin (T)
- Prof.Dr.Gernot Brunner (Stk)
- Prof.Dr.Hans Domanovits (W)
- Dr.Henrik Fischer (OÖ)
- OA Dr.Christian Helbok (V)
- OA Dr.Dieter Kopper (K)
- DGKS Lydia Kautz (B)
- OA Dr.Raimund Kraschl (K)
- OA Dr.Sigrid Ofner (S)
- Prof.Dr.Fritz Rauscha (W)
- DGKP Wilfried Schabauer (T)
- OA Dr.Rainer Schmid (W)
- Prim.Dr.Helmut Trimmel (NÖ)
- Dr.Thomas Uray (W)
- DGKS Birgit Weh (OÖ)

Conduction: Dr.Sabine Schneider (W)