



**BERÉNYI TAMÁS DR.**

MSOTKE X. KONGRESSZUSA – BUDAPEST, 2011. NOVEMBER 5.

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REVIEW ARTICLE

CURRENT CONCEPTS

# Rapid-Response Teams

Daryl A. Jones, M.D., M.B., B.S., Michael A. DeVita, M.D.,  
and Rinaldo Bellomo, M.D., M.B., B.S.

**Table 1.** Comparison between a Traditional Code Team and a Rapid-Response Team.\*

Feature	Traditional Code Team	Rapid-Response Team
Typical criteria for calling the team	No recordable pulse, no recordable blood pressure, absence of respiratory effort, unresponsive	Low blood pressure, rapid heart rate, respiratory distress, altered consciousness
Typical conditions that the team assesses and treats	Cardiac arrest, respiratory arrest, airway obstruction	Sepsis, pulmonary edema, arrhythmias, respiratory failure
Typical team composition	Anesthesia fellow, ICU fellow, internal-medicine house staff, ICU nurse	ICU fellow, ICU nurse, respiratory therapist, internal-medicine house staff
Typical call rate (no./1000 admissions)	0.5–5	20–40
Typical in-hospital mortality (%)	70–90	0–20

\* ICU denotes intensive care unit.

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# A Review of Current and Emerging Approaches to Address Failure-to-Rescue

Andreas H. Taenzer, M.D., M.S.,\* Joshua B. Pyke, B.E.,† Susan P. McGrath, Ph.D.‡

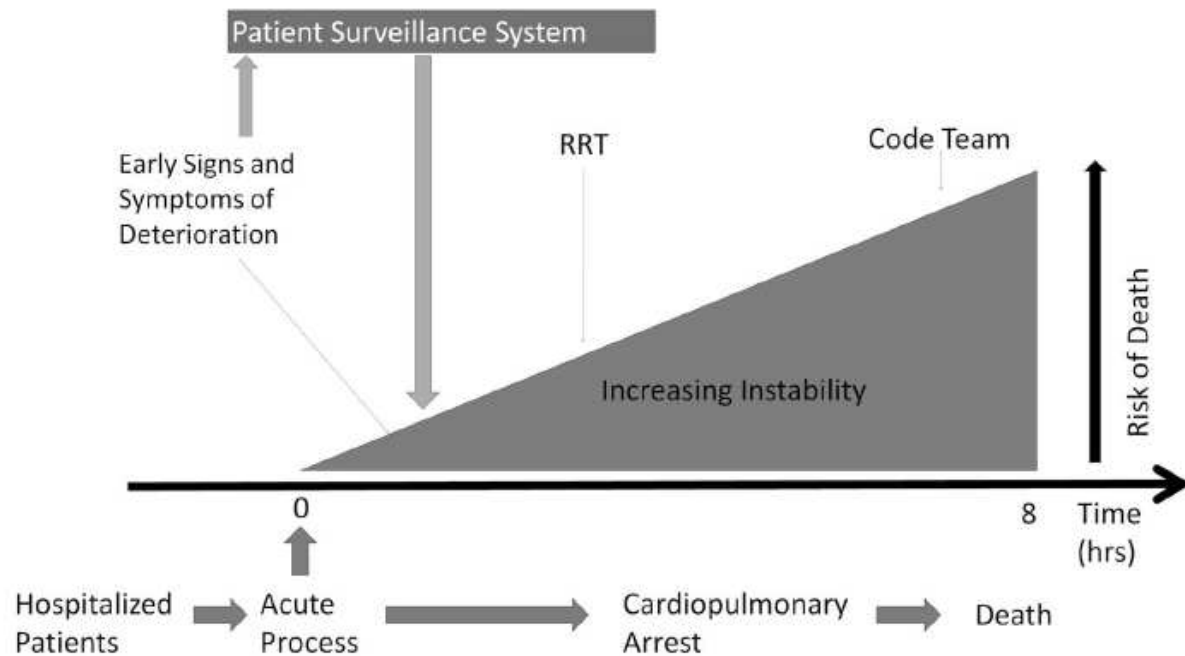


Fig. 1. Representation of physiologic state deterioration and opportunities for intervention. RRT = Rapid Response Team.



## Clinical antecedents to in-hospital cardiopulmonary arrest.

R M Schein, N Hazday, M Pena, B H Ruben and C L Sprung

*Chest* 1990;98;1388-1392

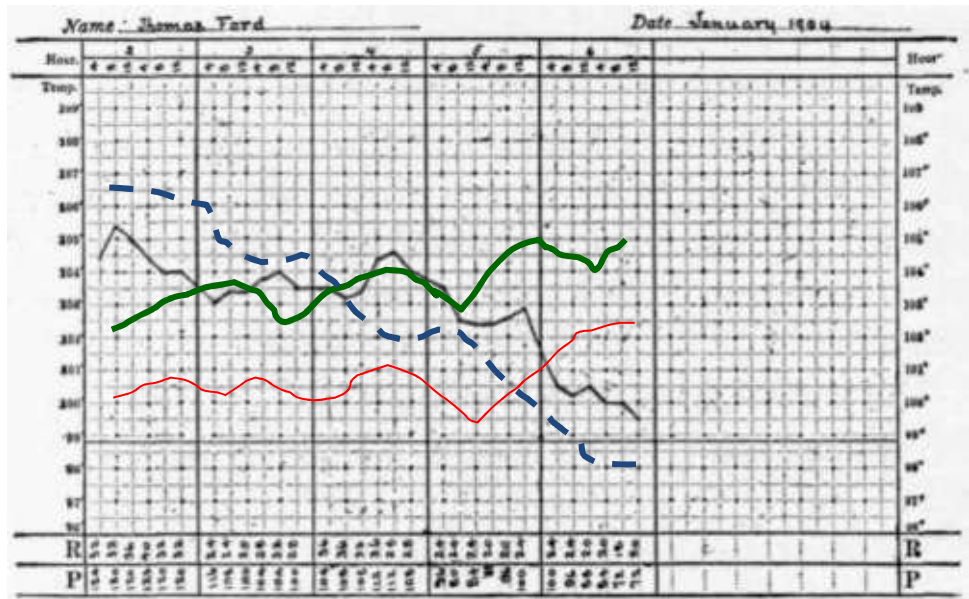
DOI 10.1378/chest.98.6.1388



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TALANO

City: San Antonio, TX Phone: 512-341-1111

DATE	DESCRIPTION	OFFICE CALL	INJECTION	DRUGS	DOCTOR SERVICES	RABIES AND L.	D. H. L.	SURGERY	DENTAL	X-RAY	LAB	BOARD	MISC.	TOTAL CHARGES	PAID	BALANCE
JUL 17 1986	5 uni clonidine, Hydrochlorazid Act Vestibular (May 1985) 7# T-KH4 Pz- Syndrome for records for Ad 2mg Dex for MID per Diabetic prob. 2-4 wks Bis 2mg/13 comp 3 @ 11.50 x/10 18 <sup>00</sup> 115 <sup>00</sup>												450	34.00	34.00	0
JUL 24 1986	follow up, 2mg Dex 5a to 6 No clonidine .75 c/b/d												1200 91 <sup>00</sup> 95 <sup>00</sup>	42.70	42.70	0
OCT 21 1986	shot/fluids 22 5 Da 3 in 10cc 100 50 base 1.74 : 1mg 6.8a	1800	33 <sup>00</sup>					59 <sup>00</sup>						105.00	105.00	0
FEB 08 1987	Fluies? shot --- was antibody yesterday 100 mg 100 Bact/10 15.50	1800	28 <sup>00</sup>											44.50	44.50	0
5-3-87	KID small cans / Favor													25.22	25.22	0
AUG 2 1987	shot (steroid) fluids cosequin 25 cc/amp 1m for attack 500 cc 100/10 for 7# 105-0k ren 100 cc 100 50 / 100 cc 100	1900	23 <sup>00</sup> 46 <sup>00</sup>										999	112.99	112.99	0
JAN 3 1988	lower 100 cc 100 10 7.4# seal forth 10 7.0 10 small cose 10	1900	11 <sup>00</sup>										1972	65.22	65.22	0
JUN 26 1988	bloodwork 6.7# Coc. med 7.1#	1900	11 <sup>00</sup>										1092	116.00	116.00	0

szent imre kórház



Sürgősségi Beteglátó Centrum

# INTRAAARREST

*Weisfeldt M.L : 3-phase Time Sensitive Model  
JAMA 2002; 288:3035-3038*

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INTRAARREST

# POSTARREST

2	24	48	72
ACIDOSIS – ENERGIA ZAVAR			
EAA KIÁRAMLÁS			
OXYDATIV STRESS			
HYPOPERFUSIO			
GÉN EXPRESSIO			
PROTEIN SYNTHESIS GÁTLÁS			
APOPTOSIS			

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PREARREST

INTRAARREST

POSTARREST

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## Clinician blood pressure documentation of stable intensive care patients: An intelligent archiving agent has a higher association with future hypotension

Caleb W. Hug, PhD; Gari D. Clifford, PhD; Andrew T. Reisner, MD

(Crit Care Med 2011; 39:1006–1014)

**A VÉRNYOMÁS SZOROS – IT SZINTEN TÁMOGATOTT – MONITORIZÁLÁSA, ATERND MEGFELELŐ ÉRTÉKELÉSE JÓ HAQTÁSFOKKAL JELZI ELŐRE A STABIL KRITIKUS ÁLLAPOTÚ BETEG ELKÖVETKEZŐ DECOM PENSATIOJÁT.**

## Respiratory rate: the neglected vital sign

Michelle A Cretikos, Rinaldo Bellomo, Ken Hillman, Jack Chen, Simon Finfer and Arthas Flabouris

MJA 2008; 188: 657–659

### Respiratory rate as an indicator of serious illness

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**PETER SAFAR (1974)**

**CRITICAL CARE IS NOT LOCATION, IT IS A PROCESS.  
IT CAN TAKE PLACE NOT ONLY IN THE ICU, EVERYWHERE**

## **Critical care without walls**

Ken Hillman, MBBS, FRCA(Eng), FANZCA, FJFICM

Curr Opin Crit Care 2002,

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# Detecting critical illness outside the ICU: the role of track and trigger systems

Jan O. Jansen and Brian H. Cuthbertson

Current Opinion in Critical Care 2010,  
16:184–190

**Table 2 MERIT study medical emergency team calling criteria**

---

Airway

If threatened

Breathing

All respiratory arrests

Respiratory rate per minute

<5 or >36

Circulation

All cardiac arrests

Pulse rate per minute

<40 or >140

Systolic blood pressure (mmHg)

<90

Neurology

Fall in Glasgow coma scale >2 points

Repeated or extended seizures

Other

Any patient you are seriously worried  
about who does not fit the above criteria

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# MET

MEDICAL  
EMERGENCY  
TEAM

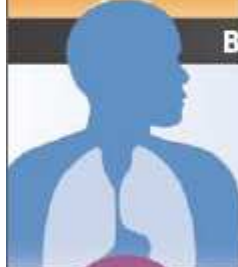
Call 7777 and state  
“MET CALL WARD \_\_\_\_”

if you are worried about any patient  
OR  
if you notice any acute changes in



## AIRWAY

- Obstructed airway
- Noisy breathing or stridor
- Problem with a tracheostomy tube



## BREATHING

- Any difficulty breathing
- Breathing <8 breaths a minute
- Breathing >25 breaths a minute
- Oxygen saturation  $\leq 90\%$ , despite high-flow oxygen

IF PATIENT IS NOT BREATHING, CALL A CODE BLUE



## CIRCULATION

- Pulse <40 beats a minute
- Pulse >120 beats a minute
- Low blood pressure (systolic <90 mm Hg)
- Urine output <50 ml over 4 hours

IF PATIENT HAS NO PULSE, CALL A CODE BLUE



## CONSCIOUS STATE

- Sudden change in conscious state
- Patient cannot be roused



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**AFFERENT**



**EFFERENT**

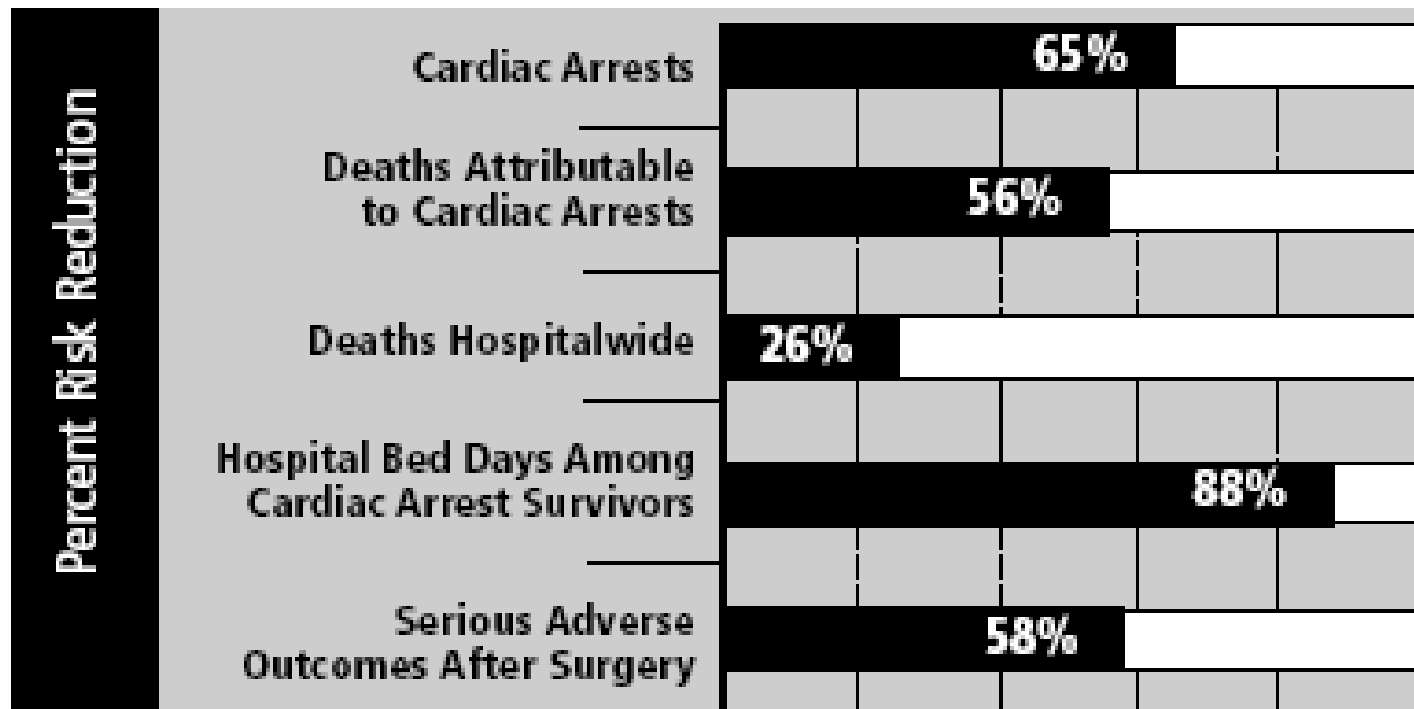
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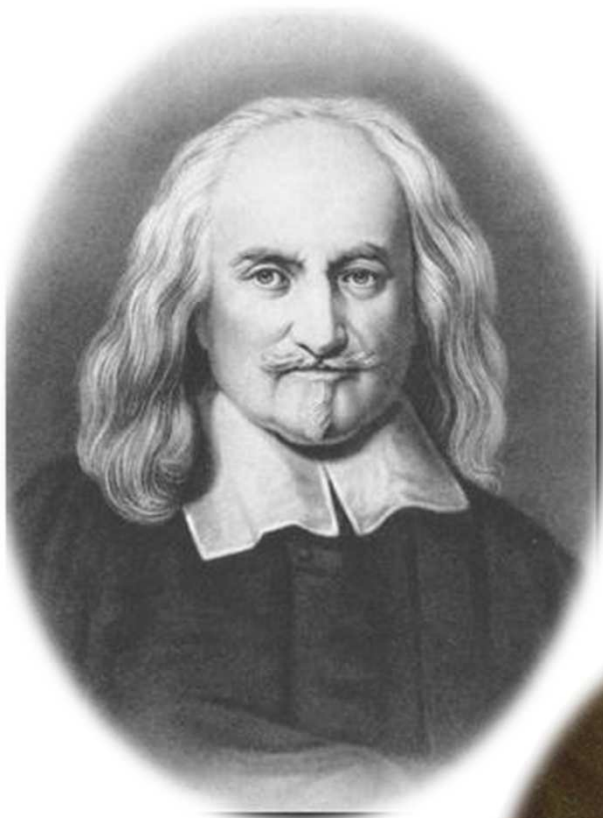


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Prospective controlled trial of effect of medical emergency team on postoperative morbidity and mortality rates\*

Rinaldo Bellomo, MD; Donna Goldsmith, RN; Shigehiko Uchino, MD; Jonathan Buckmaster, MD; Graeme Hart, MD; Helen Opdam, MD; William Silvester, MD; Laurie Doolan, MD; Geoffrey Gutteridge, MD





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### The medical emergency team, evidence-based medicine and ethics

Ross K Kerridge and W Peter Saul

Nem kétséges, a "legjobb rendelkezésre álló bizonyíték" egy fontos eleme az orvos döntési folyamatának. EBM-re úgy kell tekinteni, mint egy hatékony módszerre. Az EBM-hez vezető folyamat célja hogy jelölje a legjobb rendelkezésre álló bizonyítékot és ezzel is segítse a döntéshozatalt. Azonban, az EBM nem pártatlan vagy érték-semleges, egy kétélű fegyver!

Nem megengedhető, hogy az EBM akadályá legyen olyan változásoknak, mely a betegek érdekét, biztonságát, komfortját szolgálják!

**A gyógyítás számos területén végre kell hajtani a racionális , egyszerű változtatásokat akkor is, ha nincs rájuk magas evidencia szintű bizonyíték. Az is lehet, hogy etikátlan késleltetni egy változást nem megfelelő szintű bizonyíték hiányára hivatkozva. Hány embernek kell szenvednie, vagy meghalnia I-A ajánlás hiányában, annak ellenére, hogy az elvárható gondosság és a racionalitás megoldási lehetőséget kínálna?**



*(MJA 2003; 179: 313-315)*

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**FIGYELEM, FIGYELEM!  
FOKOZOTT RENDŐRSÉGI ELLENŐRZÉS.**

☺ TRAFFIPAX ☺



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# Introduction of the medical emergency team (MET) system: a cluster-randomised controlled trial



MERIT study investigators\*

## Summary

**Background** Patients with cardiac arrests or who die in general wards have often received delayed or inadequate care. We investigated whether the medical emergency team (MET) system could reduce the incidence of cardiac arrests, unplanned admissions to intensive care units (ICU), and deaths.

**Methods** We randomised 23 hospitals in Australia to continue functioning as usual (n=11) or to introduce a MET system (n=12). The primary outcome was the composite of cardiac arrest, unexpected death, or unplanned ICU admission during the 6-month study period after MET activation. Analysis was by intention to treat.

**Findings** Introduction of the MET increased the overall calling incidence for an emergency team (3.1 vs 8.7 per 1000 admissions, p=0.0001). The MET was called to 30% of patients who fulfilled the calling criteria and who were subsequently admitted to the ICU. During the study, we recorded similar incidence of the composite primary outcome in the control and MET hospitals (5.86 vs 5.31 per 1000 admissions, p=0.640), as well as of the individual secondary outcomes (cardiac arrests, 1.64 vs 1.31, p=0.736; unplanned ICU admissions, 4.68 vs 4.19, p=0.599; and unexpected deaths, 1.18 vs 1.06, p=0.752). A reduction in the rate of cardiac arrests (p=0.003) and unexpected deaths (p=0.01) was seen from baseline to the study period for both groups combined.

**Interpretation** The MET system greatly increases emergency team calling, but does not substantially affect the incidence of cardiac arrest, unplanned ICU admissions, or unexpected death.

*Lancet* 2005; 365: 2091–97

Correspondence to:  
Prof Ken Hillman, University of  
New South Wales, Division of  
Critical Care, Liverpool Hospital,  
Locked Bag 7103, Sydney 187  
Australia  
K.Hillman@unsw.edu.au

\*Investigators listed at end of  
report

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Research

Open Access

## Using Medical Emergency Teams to detect preventable adverse events

Akshai Iyengar<sup>1</sup>, Alan Baxter<sup>2</sup> and Alan J Forster<sup>1,3</sup>

*Critical Care* 2009, **13**:R126 (doi:10.1186/cc7983)

- ☞ **A VILÁG SZÁMOS KÓRHÁZÁBAN MŰKÖDIK MET RENDSZER**
- ☞ **A MET RIASZTÁSOK INDIKÁTORKÉNT IS MŰKÖDNEK – EBBEN A RELÁCIÓBAN AZ OKTATÁS, FEJLESZTÉS MEGHATÁROZÓ ELEMEI**
- ☞ **A METHEZ KAPCSOLÓDÓ ADATGYŰJTÉS, AZ ADATOK ÉRTÉKELÉSE AZ ALAPJA A FEJLESZTÉSNEK, A NEM KÍVÁNATOS ESEMÉNYEK ELKERÜLHETŐSÉGÉNEK**
- ☞ **A BETEG BIZTONSÁGI RENDSZER MEGHATÁROZÓ ELEME**

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# The relationship between early emergency team calls and serious adverse events\*

Jack Chen, MBBS, PhD, MBA (Exec); Rinaldo Bellomo, FRACP, FJFICM, MD;  
Arthas Flabouris, MBBS, FJFICM, FANZCA, PostGrad Dip Aviation Med;  
Ken Hillman, MBBS, FRCA, FACA, FJFICM, MD; Simon Finfer, MBBS, FRCA, FRCP, FJFICM;  
the MERIT Study Investigators for the Simpson Centre and the ANZICS Clinical Trials Group

(Crit Care Med 2009; 37:148–153)

**POST HOC ANALYSIS ALAPJÁN A „MET-RIASZTÁS” ÉS A NEM KÍVÁNATOS SÚLYOS ESEMÉNYEK KÖZÖTTI ÖSSZEFÜGGÉS FORDÍTOTT .**

# Resident and RN perceptions of the impact of a medical emergency team on education and patient safety in an academic medical center\*

Babak Sarani, MD; Seema Sonnad, PhD; Meredith R. Bergey, MSc, MPH; Joanne Phillips, RN, MSN;  
Mary Kate Fitzpatrick, RN, MSN, CRNP; Ara A. Chalian, MD; Jennifer S. Myers, MD

(Crit Care Med 2009; 37: 3091–3096)

Table 1. Criteria for medical emergency team activation

- Respiratory
  - Respiratory rate <8 breaths/min or >32 breaths/min
  - Oxygen saturation <85% for >5 min
  - Acute increase in FiO<sub>2</sub> need to >50% by face mask
  - Acute dyspnea
- Cardiac
  - Pulse <40 or >140 beats/min
  - Systolic blood pressure <80 or >200 mm Hg
  - Diastolic blood pressure >110 mm Hg
  - New-onset chest pain
- Neurologic
  - Seizure
  - Acute change in mental status
- Other
  - Uncontrolled bleeding
  - Inability to contact house staff
  - Nurse concern/discretion
  - Physician discretion

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**COMMENTARY**

Rapid response systems: you won't know there is a problem until you measure it



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# Immediate and long-term impact of medical emergency teams on cardiac arrest prevalence and mortality: A plea for periodic basic life-support training programs\*

Glória Campello, MD; Cristina Granja, MD, PhD; Flávia Carvalho, RN; Cláudia Dias, Bsc;  
Luís-Filipe Azevedo, MD; Altamiro Costa-Pereira, MD, PhD

**Conclusions:** Widening criteria for hospital emergency calls together with an integrated training program may reduce cardiac arrest prevalence and mortality in at-risk patients. Program effectiveness was critically related to the staff education, awareness, and responsiveness to physiologic instability of the patients. Long-term effectiveness of the program may decrease in the absence of periodic and continued implementation of educational interventions. (Crit Care Med 2009; 37:3054–3061)

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ELSEVIER

STATEMENT PAPER

RESUSCITATION



[www.elsevier.com/locate/resuscitation](http://www.elsevier.com/locate/resuscitation)

**Recommended guidelines for monitoring, reporting, and conducting research on medical emergency team, outreach, and rapid response systems: An Utstein-style scientific statement  
A Scientific Statement from the International Liaison Committee on Resuscitation; the American Heart Association Emergency Cardiovascular Care Committee; the Council on Cardiopulmonary, Perioperative, and Critical Care; and the Interdisciplinary Working Group on Quality of Care and Outcomes Research<sup>☆</sup>**

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**Response Team Data Collection: Case Form (to be filled out for each encounter)**

**1. CASE IDENTIFICATION AND DEMOGRAPHICS**

**Patient Category:**  
 Medical  
 Surgical  
 Obstetric  
 Pediatric  
 Other: \_\_\_\_\_

**Location:**  
 Emergency Department  
 Operating Room/Post-Operative Anesthetic Care Unit  
 Critical Care Area  
 Intermediate Care/ Step-down Area  
 General Inpatient Unit or Ward Area  
 Outpatient Area  
 Procedure or Intervention Area  
 Other: \_\_\_\_\_

**MEDICAL RECORD NUMBER:** \_\_\_\_\_

**Patient Name:** \_\_\_\_\_

**Date of Birth:** \_\_\_/\_\_\_/\_\_\_ **Age:** \_\_\_\_\_

**Date of Hospital Admission:** \_\_\_/\_\_\_/\_\_\_ **Gender:**  
 Male  Female

**TEAM ACTIVATION**

Date: \_\_\_/\_\_\_/\_\_\_ (dd/mm/yyyy) Time: \_\_\_:\_\_\_ (hh:mm)

**TEAM COMPLETION**

Date: \_\_\_/\_\_\_/\_\_\_ (dd/mm/yyyy) Time: \_\_\_:\_\_\_ (hh:mm)

**2. PRE-EVENT DATA**

**Primary reason for team activation:**  
 Physiologic criteria  Staff provider worried/concerned

**Patient status at team activation:**  
 Transferred within 24 hrs from Critical Care Area  
 Transferred within 24 hrs from Emergency Department  
 Transferred within 24 hrs from another acute care hospital / facility

**Level of consciousness (AVPU score OR ACDU – Select one):**  
 Alert  Alert  
 Respond to verbal stimuli  Confused  
 Respond to painful stimuli  Drowsy  
 Unresponsive  Unresponsive

**Glasgow Coma Scale:**  
 GCS: \_\_\_ E \_\_\_ M \_\_\_ V \_\_\_

**Patient clinical status at activation:**

Heart rate: \_\_\_\_\_

Blood pressure: \_\_\_\_\_ / \_\_\_\_\_

Respiratory rate: \_\_\_\_\_

Temperature: \_\_\_\_\_ °C  
 Axillary  Oral  
 Rectal  Tympanic

Pulse oximetry: \_\_\_\_\_ %  
 Oxygen delivery \_\_\_\_\_ (l/min)  
 Nasal prongs  
 Oxygen mask  
 High flow-oxygen

**Supplemental Data**

**List specific activation criteria:**  
 Symptom trigger: mental status change  
 Symptom trigger: respiratory distress  
 Symptom trigger: chest pain  
 Primary medical team not responding  
 Staff provider worried/concerned  
 Blood test result abnormality  
 Respiratory arrest  
 Cardiac arrest  
 Vital sign criteria

Heart rate: Less than \_\_\_\_\_ or greater than \_\_\_\_\_

Respiratory rate: Less than \_\_\_\_\_ or greater than \_\_\_\_\_

Blood pressure: Less than \_\_\_\_\_ or greater than \_\_\_\_\_

Temperature: Less than \_\_\_\_\_ or greater than \_\_\_\_\_

**Level of consciousness (AVPU score OR ACDU – Select one):**  
 Alert  Alert  
 Respond to verbal stimuli  Confused  
 Respond to painful stimuli  Drowsy  
 Unresponsive  Unresponsive

**Glasgow Coma Scale:**  
 GCS: \_\_\_ E \_\_\_ M \_\_\_ V \_\_\_

**Patient Clinical Status 6 hrs before activation (or closest time with assessment, \_\_\_\_\_ hrs before activation):**

**Supplemental Data**

Heart rate: \_\_\_\_\_ Pulse oximetry: \_\_\_\_\_ %  
 Oxygen delivery \_\_\_\_\_ (l/min)  
 Nasal prongs  
 Oxygen mask  
 High flow-oxygen

Blood pressure: \_\_\_\_\_ / \_\_\_\_\_

Respiratory rate: \_\_\_\_\_

Temperature: \_\_\_\_\_ °C  
 Axillary  Oral  
 Rectal  Tympanic

**Level of consciousness (AVPU Score OR ACDU – Select one):**  
 Alert  Alert  
 Respond to verbal stimuli  Confused  
 Respond to painful stimuli  Drowsy  
 Unresponsive  Unresponsive

**Glasgow Coma Scale:**  
 GCS: \_\_\_ E \_\_\_ M \_\_\_ V \_\_\_

**3. TEAM INTERVENTION DURING EVENT**

**During Event (check all that apply):**  
 Non-medication therapy initiated  
 Medication therapy initiated  
 Treatment limitation initiated  
 Advice or consultation only

**Treatment limitation initiated:**  
 Initiation of a DNAR/NFR order  
 Treatment limitation order documented

**Medication therapy:**  
 Yes  
 No

**Non-Medication Therapy:**  
 Supplemental oxygen administration or Increase in oxygen administration  
 Bag-valve-mask ventilation  
 CPAP/ NIPPV administration  
 Intubation/ Airway adjunct  
 External chest compression  
 Defibrillation  
 Cardioversion  
 Bolus fluid administration

**Patient Clinical Status at time of call completion:**

**Supplemental Data**

Heart rate: \_\_\_\_\_ Pulse oximetry: \_\_\_\_\_ %  
 Oxygen delivery \_\_\_\_\_ (l/min)  
 Nasal prongs  
 Oxygen mask  
 High flow-oxygen

Blood pressure: \_\_\_\_\_ / \_\_\_\_\_

Respiratory rate: \_\_\_\_\_

Temperature: \_\_\_\_\_ °C  
 Axillary  Oral  
 Rectal  Tympanic

**Level of consciousness (AVPU Score OR ACDU – Select one):**  
 Alert  Alert  
 Respond to verbal stimuli  Confused  
 Respond to painful stimuli  Drowsy  
 Unresponsive  Unresponsive

**Glasgow Coma Scale:**  
 GCS: \_\_\_ E \_\_\_ M \_\_\_ V \_\_\_

**Other team interventions (narrative/comments):**  
 \_\_\_\_\_

**4. OUTCOME MEASURES**

**Patient status at end of call:**  
 Alive  
 Dead

**If Alive:**  
 Remained in same location  
 Transferred to critical care area  
 Transferred to intermediate/ Step-down area  
 Transferred to cardiac monitoring area  
 Transferred to another area for procedure/operation/ intervention  
 Transferred to another acute care hospital

**Date of acute hospital discharge or of death:**  
 \_\_\_/\_\_\_/\_\_\_ (dd/mm/yyyy)

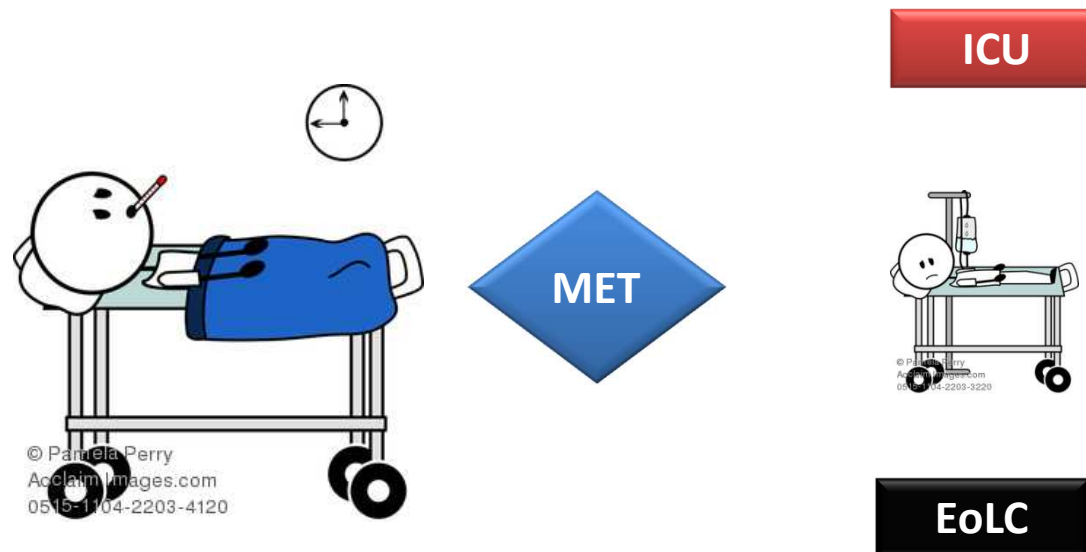
**Patient status at acute hospital discharge:**  
 Alive  
 Dead

**Form Prepared by:** \_\_\_\_\_ **PRINT** \_\_\_\_\_ **SIGNATURE** \_\_\_\_\_ **Date:** \_\_\_/\_\_\_/\_\_\_

# Continuum of hospital care: the role of intensive care

Ken Hillman<sup>a</sup>, Jack Chen<sup>a</sup> and Anders Aneman<sup>b</sup>

Current Opinion in Critical Care 2010,  
16:505–509



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# The role of the medical emergency team in end-of-life care: A multicenter, prospective, observational study

Daryl A. Jones, MBBS, MD; Sean M. Bagshaw, MD; Jonathon Barrett, MBBS;  
Rinaldo Bellomo, MBBS, MD, PG Dip Echo; Gaurav Bhatia, MD; Tracey K. Bucknall, PhD;

***Conclusions:* Issues around end-of-life care and limitations of medical therapy arose in approximately one-third of calls, suggesting a mismatch between patient needs for end-of-life care and resources at participating hospitals. These calls frequently occur in elderly medical patients and out of hours. Many such patients do not return home, and half die in hospital. There is a need for improved advanced care planning in our hospitals, and to confirm our findings in other organizations. (Crit Care Med 2012; 40:000 – 000)**

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**IDŐ-DEPENDENCIA**

**INTEGRÁCIÓ**

**ALLOKÁCIÓ**

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*M. Florkins '99*

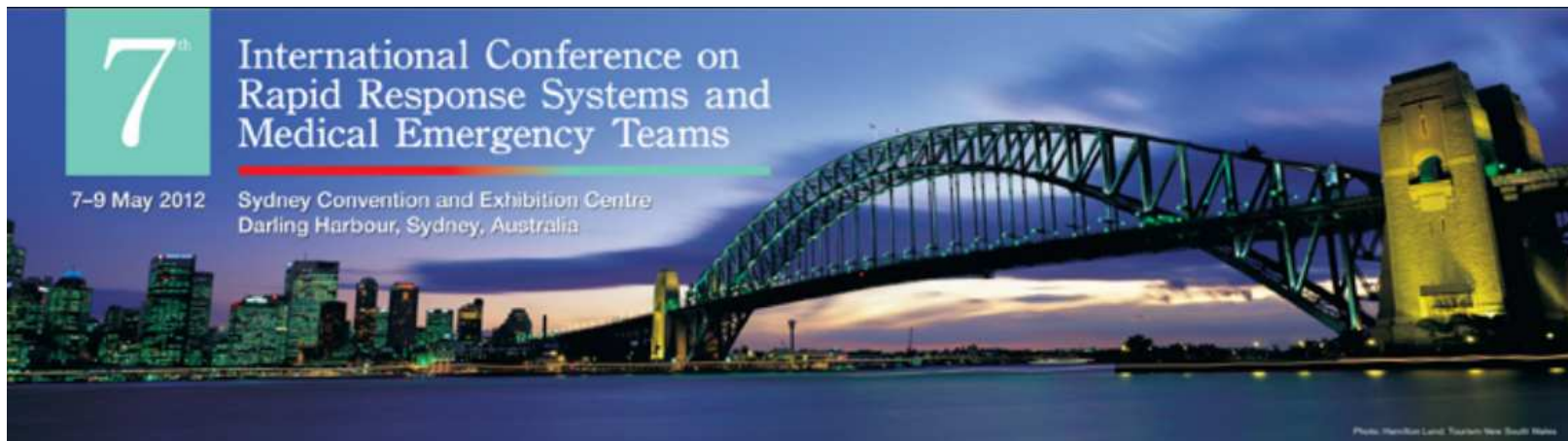
TO BE  
CONTINUED...

7<sup>th</sup>

International Conference on  
Rapid Response Systems and  
Medical Emergency Teams

7-9 May 2012

Sydney Convention and Exhibition Centre  
Darling Harbour, Sydney, Australia



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