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CONTRACTING ORGANIZATION: The Institute of Critical Care Medicine
Palm Springs, California 92262

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13. Abstract (<i>Maximum 200 Words</i>) (<i>abstract should contain no proprietary or confidential information</i>) The Sixth Wolf-Creek Conference was held at the Ritz Carlton Hotel in Rancho Mirage from June 4, 2001 to June 7, 2001. Approximately 70 internationally renowned experts on Cardiopulmonary Resuscitation attended the Conference and presented their most recent research findings. Four Army Medical officers attended and observed the Conference. The experts specifically focused on issues of optimizing waveforms and emergencies for defibrillation, mechanical options for improving blood flow during cardiac arrest, more optimal vasopressor interventions during CPR, myocardial and cerebral preservation during CPR, and outcome measurements. The proceedings of the Conference will be published in a <i>Supplement of the Journal of Critical Care Medicine</i> .				
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The Sixth

Wolf Creek Conference on

Cardiopulmonary Resuscitation

*June 4 – June 7, 2001
Ritz Carlton Hotel
Rancho Mirage, California*

*The Wolf Creek Conference
On
Cardiopulmonary Resuscitation*

The so-called Wolf Creek Conferences of CPR researchers were initiated by Doctors James Elam, James Jude, and Peter Safar. The objective was to improve the clinical practices of cardiopulmonary resuscitation by stimulating laboratory and clinical research. There was great need of objective data such that guidelines on resuscitation might be secure. The first meeting of some 10 investigators was hosted in 1975 by Dr. James Jude at his "Wolf Creek Lodge" in Georgia. The proceedings were published by Doctors Safar and Elam as part of a monograph entitled *Advances in CPR* by Springer-Verlag in 1977. The second meeting occurred approximately five years later. It was chaired by the late Dr. Joseph Redding. The proceedings appeared in *Critical Care Medicine* in 1981. The third was held approximately five years later and it was organized by Doctors Nicholas Bircher, Mickey Eisenberg and Charles Otto. The Fourth Wolf Creek Conference was held in Palm Springs, California in September 1996 convened by The Institute of Critical Care Medicine under the chairmanship of Dr. Max Harry Weil. The proceedings were published in *New Horizon*. The Fifth Conference was in Rancho Mirage, in June 1998 at the Ritz Carlton Hotel. The proceedings were published as a Supplement to *Critical Care Medicine*.

This will be the sixth of these expert conferences. The initial objective of these conferences was at least partially accomplished, and the field of resuscitation science has grown impressively. New capabilities for cardiac resuscitation with newer waveform automated external defibrillators greatly expanded capabilities for defibrillation. A number of new mechanical compression-decompression methodologies have emerged. The futility of the pulse check, the limitations of currently used vasopressor agents and anti-arrhythmic drugs, and the decreased emphasis on ventilation in settings of dysrhythmic cardiac arrest have been demonstrated. Increasingly larger emphasis on resuscitation research has prompted more vigorous clinical, laboratory, and bioengineering research more recently sparked by the impetus of the PULSE Consortium. It is, therefore, timely that another Wolf Creek Conference be held for exchanges between active research workers on CPR. Once again, we anticipate publication of the proceedings as a Supplement to *Critical Care Medicine*.

WOLF CREEK VI

Monday, June 4, 2001

6:30 PM Informal Dinner on Arrival

Tuesday, June 5, 2001

7:00 – 7:45 A.M. Breakfast

7:45 – 7:55 A.M. **MH Weil and W Tang**
Welcome and Introduction

SESSION 1 DEFIBRILLATION

8:00 – 8:10 A.M. **R. Kerber**
Beyond Biphasic Defibrillation Waveforms

8:15 – 8:25 A.M. **R. Ideker**
Efficacy of Defibrillation for Spontaneous and
Electrically Induced VF

8:30 – 8:40 A.M. **H. Halperin**
Defibrillation After Prolonged Cardiac Arrest

8:45 – 8:55 A.M. **J. Jones/O. Tovar**
Electromechanical Deterioration of Ventricular
Function During VF

9:00 – 9:10 A.M. **D. Jorgenson**
Adapting Current AEDs for CPR on Children and Infants

9:15 – 9:25 A.M. **W. Tang**
Pharmacological Defibrillation

9:30 – 9:40 A.M. **F. Sterz**
Recurrent Cardiac Arrest in 360 Survivors

9:45 – 10:15 A.M. **Coffee Break**

10:15 – 10:25 A.M. **G. Nichol**
Cost-Effectiveness of Early Defibrillation by Non-Traditional Responders to Out-of-Hospital Cardiac Arrest

10:30 – 10:40 A.M. **J. Stothert**
Prehospital Cardiac Arrest and The Low Energy Rectilinear Biphasic Waveform

10:45 A.M. – 12:15 P.M. PANEL I

OPTIMIZING WAVEFORMS AND ENERGIES FOR DEFIBRILLATION

R. White, R. Kerber (Moderators)
G. Bardy, R. Idcker, J. Jones, C. Morgan, D. Snyder, and O. Tovar.

12:15 – 1:30 P.M. **Lunch**

SESSION 2 MECHANICAL INTERVENTIONS

1:30– 1:40 P.M. **R. Berg**
Adverse Effects of Interrupting Chest Compression

- 1:45 – 1:55 P.M.** **J. Bisera**
A Protective Device For Uninterrupted
Precordial Compression
- 2:00 – 2:10 P.M.** **K. Kern**
Optimizing Compression/Ventilation Ratios.
- 2:15 – 2:25 P.M.** **MH Weil**
Expanding AEDs to Include Automated Detection of
Cardiac, Respiratory, or Cardiorespiratory Arrest
- 2:30 – 2:40 P.M.** **K. Lurie**
The Critical Role of Ventricular Preload
During CPR
- 2:45 – 2:55 P.M.** **V. Nadkarni**
Liquid Ventilation in a Pediatric Model
- 3:00 – 3:10 P.M.** **C. Young**
A Portable Device for Uninterrupted
Chest Compression
- 3:10 – 3:40 P.M.** **Break**
- 3:40 – 5:10 P.M.** **PANEL II**

MECHANICAL OPTIONS FOR IMPROVING BLOOD FLOW

G. Ewy, H. Halperin (Moderators)
R. Berg, J. Bisera, K. Kern, K. Lurie, and V. Nadkarni

5:10 P.M. **Dinner**

7:00 – 8:30PM

PANEL III

**OPTIMIZING AIRWAY MANAGEMENT AND
MECHANICAL VENTILATION DURING CPR**

P. Safar, R. Berg (Moderators)

L. Becker, N. Chandra-Strobos, A. Idris, K. Kern, and N. Paradis

Wednesday, June 6, 2001

7:00 – 8:00 A.M.

Breakfast

SESSION 3:

**PHARMACOLOGICAL
INTERVENTIONS**

8:00 – 8:10 A.M.

N. Paradis

Revisiting High-Dose Epinephrine for the
Management of Human Cardiac Arrest

8:15 – 8:25 A.M.

W. Tang

Selective α_2 Adrenergic Vasopressor Agents
for CPR

8:30 – 8:40 A.M.

V. Wenzel

Observations on the Effects of Vasopressin in Human
Victims of Cardiac Arrest

8:45 – 8:55 A.M.

R. Svedjeholm

Role of Intravenous Glutamate for CPR

9:00 – 9:30 A.M.

Break

9:30 – 11:00 A.M. **PANEL IV**

**MORE OPTIMAL VASOPRESSOR INTERVENTIONS
DURING CPR**

G. Ewy, C. Otto. (Moderators)
V. Nadkarni, J. Niemann, N. Paradis, W. Tang, and V. Wenzel.

11:00 – 11:45 A.M. **FREE DISCUSSION**
MH Weil and W. Tang (Moderators)

11:45 A.M. – 1:15 P.M **Lunch**

**SESSION 4: MYOCARDIAL
PRESERVATION**

1:15 – 1:25 P.M. **W. Tang**
Myocardial Hibernation During CPR

1:30 – 1:40 P.M. **R. Gazmuri**
Sodium Hydrogen Exchange Inhibitor for
Minimizing Post-Resuscitation Myocardial
Dysfunction

1:45 – 1:55 P.M. **A. Idris**
Oxidant Injury After Cardiac Arrest and
Reperfusion

2:00 – 2:10 P.M. **L. Becker**
Inducing Hypothermia: Cellular Rationale and
Potential Clinical Method

2:15 – 2:25 P.M. **T. Vanden Hoek**
Post-Resuscitation Oxidant Injury in
Cardiomyocytes due to RAC1 NADH Oxidase

2:30 – 3:00 P.M. **Break**

3:00 – 4:30 P.M. PANEL V

**MECHANISMS AND MANAGEMENT OF POST-
RESUSCITATION MYOCARDIAL DYSFUNCTION**

G. Sopko, M.H. Weil (Moderators)
L. Becker, N. Chandra-Strobos, R. Gazmuri, H. Halperin, K. Kern, and
W. Tang

SESSION 5 CEREBRAL RESUSCITATION

4:30 – 4:40 P.M. W. Behringer/P. Safar
Hypothermia for Cerebral Preservation
During CPR

4:45 – 4:55 P.M. B. Böttiger
Effects of Inhibition of Caspases on Neuronal
Degeneration

5:00 – 6:30 P.M. PANEL VI

CEREBRAL RESUSCITATION

P. Safar, S. Tisherman (Moderators)
W. Behringer, N. Bircher, B. Böttiger, G. Ling, and F. Sterz

6:30 – 8:00 P.M. Dinner

8:00 – 9:30 P.M. PANEL VII

**ANTI-ARRHYTHMIC DRUGS FOR
FACILITATING CPR**

N. Chandra-Strobos, V. Nadkarni (Moderator)
T. Auferderheide, P. Ding, R. Gazmuri, J. Ornato, and R. Svedjeholm

Thursday, June 7, 2001

7:15 – 8:15 A.M. **Breakfast**

SESSION 6: OUTCOME MEASUREMENTS

8:15 – 8:25 A.M. **A. Hallstrom**
Should Time to Call Be Used in Assessing Time
Gradients of Out-of-Hospital Cardiac Arrest?

8:30 – 8:40 A.M. **PY Ding**
In-Hospital Resuscitation: The Taipei Experience

8:45 – 8:55 A.M. **P. Pepe/J. Wigginton**
Gender-Related Differences in the Presentation
and Outcomes in Out-of-Hospital Cardiac Arrest

9:00 – 9:10 A.M. **S. Stratton/J. Niemann**
Impact of DNR on Survival to Discharge

9:15 – 9:25 A.M. **T. Aufderheide**
Asystolic Unwitnessed Out-of-Hospital Cardiac
Arrest As a Criterion for Waiving Resuscitation

9:30 – 9:40 A.M. **C. Babbs**
Meta-Analysis of Studies on CPR

9:45 – 10:15 A.M. **Break**

10:15 – 11:45 A.M. **PANEL VIII**

OUTCOME MEASUREMENTS

G. Nichol. (Moderator)
T. Aufderheide, C. Babbs, PY Ding, N. Chandra-Strobos, A. Idris, and
G. Sopko

11:45 A.M. – 1:15 P.M. **Lunch**

11:45 A.M. – 1:15 P.M. Lunch

1:15 – 2:45 P.M. PANEL IX

CRITERIA FOR DISCONTINUING CPR EFFORTS

N. Chandra-Strobos, P. Safar (Moderators)
R. Gazmuri, G. Nichols, J. Niemann, N. Paradis.

2:45 – 3:15 P.M. Break

3:15 – 4:45 P.M. PANEL X

**CONFIRMING CARDIAC ARREST IN REAL-TIME:
MONITORING/MEASURING THE
EFFECTIVENESS OF CPR**

G. Ewy, MH. Weil (Moderators)
B. Berg, K. Kern, V. Nadkarni, N. Paradis, C. Otto, and W. Tang

5:00 PM ADJOURNMENT OF WOLF CREEK VI

WOLF CREEK CONFERENCE VI
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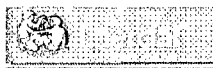
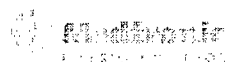
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