

## BIOGRAPHICAL SKETCH

NAME Ristagno, Giuseppe		POSITION TITLE Senior Research Scientist	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Palermo, Italy	M.D.	2003	Medicine and Surgery
University of Trieste, Department of Perioperative Medicine, Intensive Care and Emergency	Specialty	2003-2007	Anesthesia and Intensive Care
Weil Institute of Critical Care Medicine	Fellowship	2005-2007	Cardiopulmonary Resuscitation
Weil Institute of Critical Care Medicine	Assistant Professor	2008	Cardiopulmonary Resuscitation

### A. Positions and Honors

#### Positions and Employment

- 2003-2007 Medical Residency, Anesthesia and Intensive Care Medicine, Trieste University Hospital, Italy
- 2005-2007 Fellowship in cardiopulmonary resuscitation, Weil Institute of Critical Care Medicine, Rancho Mirage, CA
- 2008-Present Assistant Professor, Weil Institute of Critical Care Medicine, Rancho Mirage, CA

#### Honors

- 2006 'Young Investigator Award', American Heart Association 2006, Resuscitation Science Symposium, Chicago (IL, USA), for "Gasping Augments Carotid Blood Flow During Cardiac Arrest".
- 2006 'Young Investigator Award', American Heart Association 2006, Resuscitation Science Symposium, Chicago (IL, USA), for "Effects Of Variable Depth Of Chest Compression On Outcomes Of CPR".
- 2006 'Young Investigator Award', American Heart Association 2006, Resuscitation Science Symposium, Chicago (IL, USA), for "Initial CPR And Delayed Defibrillation Do Not Compromise Outcomes".
- 2006 'Best Abstract Award', American Heart Association 2006, Resuscitation Science Symposium, Chicago (IL, USA), for "Comparison Between Cerebral Microcirculatory Blood Flow Following Epinephrine and Vasopressin During CPR"
- 2007 'Young Investigator Award', American Heart Association 2007, Resuscitation Science Symposium, Orlando (FL, USA), for "Comparison between Mechanical Active Chest Compression/Decompression and Standard Mechanical Chest Compression".
- 2009 'Annual Scientific Award', Society of Critical Care Medicine annual meeting 2009, Nashville, Tennessee, for the work "Hypothermia improves ventricular myocyte contractility".

### B. Selected Peer-reviewed Publications

- Gullo A, Iscra F, Di Capua G, Berlot G, Lucangelo U, Chierigo ML, Ristagno G, Peratoner A, Fasiolo S, Consales C, De Martino G, Tufano R. Sepsis and organ dysfunction: an ongoing challenge. *Minerva Anestesiol* 2005;71(11):671-699.
- Ristagno G, Gullo A, Tang W, Weil MH. New cardiopulmonary resuscitation guidelines 2005: importance of uninterrupted chest compression. *Crit Care Clin* 2006;22(3):531-538.
- Ristagno G, Tang W, Sun S, Weil MH. Role of buccal PCO<sub>2</sub> to manage fluid resuscitation during hemorrhagic shock. *Crit Care Med* 2006;34(12 Suppl):S442-S446.
- Ristagno G, Tang W, Chang YT, Jorgenson D, Russell JK, Huang L, Wang T, Sun S, Weil MH. The quality of chest compressions during CPR overrides importance of timing of defibrillation. *Chest* 2007;132(1):70-75.
- Ristagno G, Tang W, Xu T, Sun S, Weil MH. Outcomes of CPR in the presence of partial occlusion of left anterior descending coronary artery. *Resuscitation* 2007; 75(2):357-365.
- Ristagno G, Sun S, Tang W, Weil MH. Spontaneous gasping produces carotid blood flow during untreated cardiac arrest. *Resuscitation* 2007; 75(2):366-371.

7. Ristagno G, Gullo A. Is ventricular fibrillation waveform analysis suitable for optimizing timing of ventricular defibrillation? Yes it is. *Crit Care Med*, 2007; 35(7):1804-1805.
8. Ristagno G, Sun S, Tang W, Castillo C, Weil MH. Effects of epinephrine and vasopressin on cerebral microcirculatory flows during CPR and after resuscitation. *Crit Care Med* 2007;35(9):2145-2149.
9. Wang T, Tang W, Sun S, Ristagno G, Huang Z, Weil MH. Intravenous infusion of bone marrow mesenchymal stem cells improves myocardial function in a rat model of myocardial ischemia. *Crit Care Med* 2007; 35(11):2587-2593.
10. Xu T, Tang W, Ristagno G, Sun S, Wang H, Weil MH. Myocardial performance index following electrically induced or ischemically induced cardiac arrest. *Resuscitation*, 2008; 76(1):103-7.
11. Chang YT, Tang W, Russell JK, Ristagno G, Sun S, Weil MH. Exclusion of a patient assessment interval and extension of the CPR both mitigate post-resuscitation dysfunction in a swine model of cardiac arrest. *Resuscitation*, 2008; 76(2):285-90.
12. Ristagno G, Castillo C, Tang W, Sun S, Bisera J, Weil MH. Miniaturized mechanical chest compressor. A new option for cardiopulmonary resuscitation. *Resuscitation*, 2008; 76(2):191-7.
13. Xu T, Tang W, Ristagno G, Wang H, Sun S. Post resuscitation myocardial diastolic dysfunction following prolonged ventricular fibrillation and CPR. *Crit Care Med* 2008; 36(1):188-92.
14. Li Y, Ristagno G, Bisera J, Tang W, Deng Q, Weil MH. Electrocardiogram waveforms for monitoring effectiveness of chest compression during cardiopulmonary resuscitation. *Crit Care Med* 2008; 36(1):211-15.
15. Ristagno G, Gullo A, Berlot G, Lucangelo U, Geheb F, Bisera J. Electrocardiographic analysis for prediction of successful defibrillation in human victims of out of hospital cardiac arrest. *Anaesth Intensive Care* 2008; 36(1):46-50.
16. Ristagno G, Tang W, Sun S, Weil MH. Cerebral cortical microvascular flow during and following cardiopulmonary resuscitation after short duration of cardiac arrest. *Resuscitation*. 2008; 77(2):229-34.
17. Ristagno G, Gullo A. Rationale of the Use of Vasopressor Agents for Cardiopulmonary Resuscitation. Is Epinephrine the Correct First Choice? Maybe Not. *Am J Emerg Med* 2008; 26(3):368-70.
18. Antonaglia V, Ristagno G, Berlot G. Procedural and Clinical Data plus Electrocardiographic Guidance Greatly Reduce the Need for Routine Chest Radiograph Following Central Line Placement. *J Trauma* 2008; 64(4):1146.
19. Ristagno G, Antonaglia V, Gullo A. Does Orthogonal Polarization Spectral imaging really visualize the "micro"-vasculature? Yes it does! *Crit Care Med* 2008; 36(5):1689-90
20. Ristagno G, Gullo A. Letter by Ristagno and Gullo regarding article, "Survival is similar after standard treatment and chest compression only in out-of-hospital bystander cardiopulmonary resuscitation". *Circulation* 2008; 117(17):e325
21. Ristagno G, Tang W, Weil MH. Reply to Letter: Cerebral cortical microvascular flow during and following cardiopulmonary resuscitation after short duration of cardiac arrest. *Resuscitation* 2008; 79(1):171
22. Ristagno G, Tang W, Russell JK, Jorgenson D, Wang H, Sun S, Weil MH. Minimal interruption of cardiopulmonary resuscitation for a single shock as mandated by automated external defibrillations does not compromise outcomes in a porcine model of cardiac arrest and resuscitation. *Crit Care Med* 2008 Nov;36(11):3048-53
23. Ristagno G, Wang T, Tang W, Sun S, Castillo C, Weil MH. High-energy defibrillation impairs myocyte contractility and intracellular calcium dynamics. *Crit Care Med* 2008;36(11 Suppl.): S422-S427
24. Tsai MS, Sun S, Tang W, Ristagno G, Chen WJ, Weil MH. Free radicals mediate postshock contractile impairment in cardiomyocytes. *Crit Care Med* 2008 Dec;36(12):3213-9
25. Wang H, Tang W, Ristagno G, Li Y, Sun S, Wang T, Weil MH. The potential mechanisms of reduced incidence of ventricular fibrillation as the presenting rhythm in sudden cardiac arrest. *Crit Care Med*. 2009;37(1):26-31
26. Wang T, Tang W, Sun S, Ristagno G, Xu T, Weil MH. Improved outcomes of cardiopulmonary resuscitation in rats with myocardial infarction treated with allogenic bone marrow mesenchymal stem cells. *Crit Care Med* 2009;37(3):833-839.
27. Ristagno G, Tang W, Huang L, Fymat A, Chang YT, Sun S, Castillo C, Weil MH. Epinephrine reduces cerebral perfusion during cardiopulmonary resuscitation. *Crit Care Med* 2009; 37(4):1408-15.

### C. Funding

American Heart Association - Scientist Development Grant 2009 National Scientist Development