

## 2011 Publications

1. Su XW, Guan Y, Barnes M, Clark JB, Myers JL, Ündar A. Improved cerebral oxygen saturation and blood flow pulsatility with pulsatile perfusion during pediatric cardiopulmonary bypass. *Pediatric Research* 2011; 70(2): 181-185.
2. Clark JB, Qui F, Guan Y, Woitas KR, Myers JL, Ündar A. Microemboli detection and classification during pediatric cardiopulmonary bypass. *World Journal for Pediatric and Congenital Heart Surgery* 2011; 2(1): 111-114.
3. Qiu F, Talor J, Ündar A. An in vitro comparison of the ability of three commonly used pediatric cardiopulmonary bypass circuits to filter gaseous microemboli. [Letter to the editor] *Perfusion* 2011;26(2) 167–168.
4. Khan S, Vasavada R, Qiu, Kunselman A, Ündar A. Extracorporeal life support systems: alternative vs. conventional circuits. *Perfusion* 2011:26 (3): 191-198.
5. Clark JB, Guan Y, McCoach R, Kunselman AR, Myers JL, Ündar A. An investigational study of minimum rotational pump speed to avoid retrograde flow in three centrifugal pumps in a pediatric extracorporeal life support model. *Perfusion* 2011:26(3) 185–190.
6. Talor J, Ündar A. Pediatric cardiopulmonary bypass. Does perfusion mode Matter? *World Journal for Pediatric and Congenital Heart Surgery* 2011: 2(2) 296-300.
7. Qiu F, Khan S, Talor J, Kunselman A, Ündar A. Evaluation of two pediatric polymethyl pentene membrane oxygenators with pulsatile and nonpulsatile perfusion. *Perfusion* 2011:26 (3) 229-238.
8. Vasavada R, Khan S, Qiu, Kunselman A, Ündar A. Impact of oxygenator selection on hemodynamic energy indicators under pulsatile and non-pulsatile flow in a neonatal ECLS model. *Artificial Organs* 2011;35(6): E101-E107.
9. Vasavada R, Qiu, Ündar A. Current Status of Pediatric/Neonatal Extracorporeal Life Support: Clinical Outcomes, Circuit Evolution, and Translational Research. *Perfusion* 2011; 26 (4): 294 - 301.
10. Feng Qiu, MD, Jonathan Talor, BSE, Jeffrey Zahn, PhD, Linda Pauliks, MD, Allen R. Kunselman, MA, David Palanzo, CCP, Larry Baer, CCP, Karl Woitas, CCP, Robert Wise, CCP, Robert McCoach, RN, CCP, Bonnie Weaver, RN, MSN, CCRN, Elizabeth Carney, DVM, Yulong Guan, MD, Nikkole Haines, BS, Mehmet C. Uluer, ScM, Kiana Aran, BS Lawrance A. Sasso, BS Tijen Alkan-Bozkaya, MD, Atif Akcevin, MD, Yulong Guan, MD, Shigang Wang, MD, Mehmet Ağırbaşı, MD, J. Brian Clark, MD, John L. Myers, MD, Akif Ündar, PhD Translational Research in Pediatric Extracorporeal Life Support Systems and Cardiopulmonary Bypass Procedures: 2011 Update. *World Journal for Pediatric and Congenital Heart Surgery* 2011;2 (3): 476-481.

11. Üндar A, Palanzo D, Qiu F, Alkan-Bozkaya T, Akcevin A, Talor J, Baer L, Woitas K, Wise R, McCoach R, Guan Y, Haines N, Wang S, Clark JB, Myers JL. Benefits of Pulsatile Flow in Pediatric Cardiopulmonary Bypass Procedures: From Conception to Conduction [Invited review]. *Perfusion* 2011 (in press)
12. Üндar A. Penn State Hershey Pediatric Cardiovascular Research Center: 2011 Update [Invited Editorial]. *Artificial Organs* 2011; 35(4): 358-360.
13. Üндar A, Ravishankar C, Gaynor WJ, Baer LD, Clark JB, Wernowsky G, Myers, JL. Seventh international conference on pediatric mechanical circulatory support systems and pediatric cardiopulmonary perfusion [Invited Editorial]. *Artificial Organs* 2011; 35(4): 361-362.
14. Su XW, Qiu F, Üндar A. Brain protection during pediatric cardiopulmonary bypass. *Chinese Journal of Extracorporeal Circulation* 2011; 9(1): 40-48. [Chinese]
15. Qiu F, Clark JB, Kunselman AR, Üндar A, Myers JL. Hemodynamic evaluation of arterial and venous cannulae in a simulated neonatal ECLS circuit. *Perfusion* 2011; 26 (4): 276 – 283.
16. Pauliks LB and Üндar A. Heart transplantation for congenital heart disease. [Invited Review]. *World Journal for Pediatric and Congenital Heart Surgery* 2011 (in press).
17. Aran K, Fok A, Sasso LA, Kamdar N, Guan Y, Sun Q, Üндar A, Zahn JD. Microfiltration Platform for Continuous Blood Plasma Protein Extraction from Whole Blood during Cardiac Surgery. *Lab on a Chip* 2011; 11:2858-2868.
18. Reed-Thurston D, Shenberger J, Qiu F, Üндar A. Neonatal extracorporeal life support: will the newest technology reduce morbidity? *Artificial organs*. 2011 (in press).
19. Qiu F, Lu CK, Palanzo D, Baer L, Myers JL, Üндar A. Hemodynamic evaluation of the Avalon Elite Bi-Caval Lumen Cannulae. *Artificial Organs*. 7 SEP 2011. DOI: 10.1111/j.1525-1594.2011.01340.x [Published Online First].
20. Clark JB, Barnes ML, Myers JL, Üндar A. Multimodality neuromonitoring for pediatric cardiac surgery: our approach and a critical appraisal of the available evidence [Invited Review]. *World Journal for Pediatric and Congenital Heart Surgery* 2011 (in press).
21. Üндar A, Sertaç Haydin S, Yivli P, Weaver B, Pauliks L, Cicek A, Erek E, Saşmazel A, Ađırbaşlı MA, Alkan-Bozkaya T, Akçevin A, Bakir I. Istanbul Symposiums On Pediatric Extracorporeal Life Support Systems [Invited editorial]. *Artificial Organs* 2011 (in press).
22. Karaci AR, Sasmazel A, Aydemir NA, Saritas T, Harmandar B, Tuncel, Z, Üндar A. The comparison of parameters for detection of splanchnic hypoxia in children undergoing CPB with pulsatile vs. non-pulsatile normothermia or hypothermia during congenital heart surgeries. *Artificial Organs* 2011 (in press)

23. Ündar A, Ravishankar C, Gaynor JW, Baer LD, Clark JB, Wernowsky G, Myers JL. Outcomes of the seventh international conference on pediatric mechanical circulatory support systems and pediatric cardiopulmonary perfusion and second annual meeting of the international society for pediatric mechanical cardiopulmonary support. *Artificial Organs* 2011 (in press).
24. Ündar A. *The Proceedings of the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion* [Editor]. 2011; 7: 1-121.
25. Ündar A. *The Proceedings of the Penn State Hershey Pediatric Cardiovascular Research Center: 2011 Update* [Editor]. 2011; 1: 1-218.