

The Journal of
EXTRACORPOREAL
Technology

Volume 53, Number 1, March 2021

FROM THE EDITOR

Promoting Awareness of Disparities in Perfusion Research and Reporting

Raymond K. Wong

J. ExtraCorp Tech 2021; 53(1): 5–6

ORIGINAL ARTICLES

International Pediatric Perfusion Practice: 2016 Survey Results

Ashley Walczak, Thomas Klein, Jordan Voss, Vincent Olshove, Rajeev Gupta, Tatiana Averina, Luiz Caneio, and Robert Groom

J. ExtraCorp Tech 2021; 53(1): 7–26

Zero-Balance Ultrafiltration during Cardiopulmonary Bypass Is Associated with Decreased Urine Output

Alfred H. Stammers, Eric A. Tesdahl, Linda B. Mongero, Kirti P. Patel, Courtney C. Petersen, Jennifer Arriola Vucovich, and Jeffrey P. Jacobs

J. ExtraCorp Tech 2021; 53(1): 27–39

Clinical and Hematological Outcomes of Aminocaproic Acid Use During Pediatric Cardiac ECMO

Madison Coleman, Joel Davis, Kevin O. Maher, and Shriprasad R. Deshpande

J. ExtraCorp Tech 2021; 53(1): 40–5

Antiphospholipid Syndrome and Cardiac Bypass: The Careful Balance between Clotting and Bleeding

Kelly Ural and Jaelyn Edelson

J. ExtraCorp Tech 2021; 53(1): 46–9

Effects of Modified Ultrafiltration on Thromboelastographic Profile after Pediatric Cardiac Surgery

Umair Abbas, Rohit S. Loomba, Cynthia Urbas, Yi Li, and Chawki El-Zein

J. ExtraCorp Tech 2021; 53(1): 50–6

Point-of-Care Measurement of Kaolin Activated Clotting Time during Cardiopulmonary Bypass: A Single Sample Comparison between ACT Plus and i-STAT

Nousjka P. A. Vranken, Amber J. A. J. Theelen, Tamar Orbons, Paul J. C. Barenbrug, and Patrick W. Weerwind

J. ExtraCorp Tech 2021; 53(1): 57–61

Intraoperative Cell Saving: Is the Solution the Actual Problem?

Krishnan Pillay and Shobashini Perumal

J. ExtraCorp Tech 2021; 53(1): 62–7

Amiodarone Extraction by the Extracorporeal Membrane Oxygenation Circuit

C. Griffin McDaniel, C. Cole Honeycutt, and Kevin M. Watt

J. ExtraCorp Tech 2021; 53(1): 68–74

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Hematic Antegrade Repriming: A Reproducible Method to Decrease the Cardiopulmonary Bypass Insult

Juan Blanco-Morillo, José María Arribas-Leal, Piero Farina, Angel Luis Fernández-González, Ángel Sornichero-Caballero, Pablo Ramírez-Romero, Tyler N. Chen, Diego Salmerón-Martínez, and Sergio Juan Cánovas-Lpez

J. ExtraCorp Tech 2021; 53(1): 75–9

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Better Together: The 2021 STS/SCA/AmSECT/SABM Patient Blood Management Update

David Fitzgerald and Robert A. Baker

J. ExtraCorp Tech 2021; 53(2): 95–6

ORIGINAL ARTICLES

STS/SCA/AmSECT/SABM Update to the Clinical Practice Guidelines on Patient Blood Management

Pierre Tibi, R. Scott McClure, Jiapeng Huang, Robert A. Baker, David Fitzgerald, C. David Mazer, Marc Stone, Danny Chu, Alfred H. Stammers, Tim Dickinson, Linda Shore-Lesserson, Victor Ferraris, Scott Firestone, Kalie Kissoon, and Susan Moffatt-Bruce

J. ExtraCorp Tech 2021; 53(2): 97–124

Correlation among Hemolysis Biomarkers in Pediatric Patients Undergoing Extracorporeal Membrane Oxygenation

Stephanie Ghaleb, James A. Reagor, Cristina Tarango, Alexis Bencoter, Reanna Smith, and Jonathan W. Byrnes

J. ExtraCorp Tech 2021; 53(2): 125–9

A Novel Approach to Identifying How Equipment Disrupts the Airflow Patterns in the Operating Room

Carl J. Gisnarian, Daniel S. Fusco, and Michael Arciszewski

J. ExtraCorp Tech 2021; 53(2): 130–6

CASE REPORT

The Successful Use of an Exchange Transfusion in a Child with Hereditary Spherocytosis Undergoing Congenital Cardiac Surgery

Berkeley Stevens, Klayton Buckley, Randall Schwartz, and Harold Burkhardt

J. ExtraCorp Tech 2021; 53(2): 137–9

TECHNIQUE ARTICLE

Neonatal Cardiopulmonary Bypass Circuit Blood Prime Quality Analysis

Barbara B. Hendrix, James A. Reagor, and James S. Tweddell

J. ExtraCorp Tech 2021; 53(2): 140–5

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ECMO Remains a Major Part of Our Scope of Practice

Raymond Wong

J. ExtraCorp Tech 2021; 53(3): 159–60

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Cell Saver Blood Reinfusion Up to 24 Hours Post Collection in Pediatric Cardiac Surgical Patients Does Not Increase Incidence of Hospital-Acquired Infections or Mortality

Laura Boulos, Joseph D. Kuebler, Ron Angona, Dawn Sweeney, Hongyue Wang, Elizabeth Nocera, and Jill M. Cholette
J. ExtraCorp Tech 2021: 53(3): 161–9

Can the Minimum Protamine Dose to Neutralize Heparin at the Completion of Cardiopulmonary Bypass be Significantly Lower than the Conventional Practice?

Min-Ho Lee, William Riley, and Kenneth G. Shann
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Current Application of NIRS and CPB Initiation Times in German Cardiac Surgery Centers: A Survey

Jan Turra, Jake Wojdyla, and Christoph Eisner
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Spectrum Medical Quantum or Terumo CDI 500: Which Device Measures Hemoglobin and Oxygen Saturation Most Accurately When Compared to a Benchtop Blood Analyzer?

James A. Reagor, Zhiqian Gao, and James S. Tweddell
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CASE REPORTS

Hybrid Left Heart Bypass Circuit for Repair of the Descending Aorta in an 8-kg Williams Syndrome Patient

Gregory S. Matte, William L. Regan, Kevin R. Connor, Dima G. Daaboul, David M. Hoganson, and Luis G. Quinonez
J. ExtraCorp Tech 2021: 53(3): 186–92

A Novel Method to Safely De-Air a HeartWare System in a Single-Ventricle Patient by Utilizing ECMO and a Minimized CPB Circuit

Tiffany M. Robb, Blake Denison, Michelle Mizrahi, Richard Owens, and Charles D. Fraser
J. ExtraCorp Tech 2021: 53(3): 193–8

Extracorporeal Membrane Oxygenation Rescue for Severe Aspiration Pneumonitis in Two Patients after Roux-en-y Gastric Bypass Procedure

Melissa M. Felinski, Daniyal Abbas, Peter A. Walker, John A. Primomo, Tanyaradzwa M. Kajese, Biswajit Kar, Igor D. Gregoric, Igor Banjac, Lisa Janowiak, Sriram Nathan, Rahat Hussain, Sheilendra S. Mehta, Kulvinder S. Bajwa, Shinil K. Shah, and Bindu Akkanti
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ECMO Support in Pre-B-Cell ALL for Disseminated Legionnaire's Disease

Hannah K. Bauer, and Matthew P. Malone
J. ExtraCorp Tech 2021: 53(3): 204–7

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A High-Fidelity Percutaneous Model Used to Demonstrate ECMO Cannulation

David Palmer, Marit Aspenleiter, Jose da Silva, Luciana Da Fonseca da Silva, Mario Medina-Castro, Melissa Grayson, Victor Morell, Amber Palmer, Mahesh Sharma, Jamie Stebler, and Melita Viegas
J. ExtraCorp Tech 2021: 53(3): 208–13

In-Vitro and In-Vivo Comparison of Hemoglobin and Electrolytes Following the Collection of Cell Saver Blood Washed with Either Normal Saline or Plasma-Lyte A

Jill M. Cholette, Hannah L. McRae, Ron Angona, Christine Cahill, Michael F. Swartz, George M. Alfieri, and Majed A. Refaai
J. ExtraCorp Tech 2021: 53(3): 214–9

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Arterial and Venous Air Emboli in Health Care

Gerard J. Myers
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In Defense of Science

David Sidebotham
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The Effectiveness of Three Different Curricular Models to Teach Fundamental ECMO Specialist Skills to Entry Level Perfusionists

Jeffrey B. Riley, Bruce E. Searles, Edward M. Darling, Dawn M. Oles, and Hani Aiash
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The Fundamental Skills and Deconstructed Sub-Steps of Pediatric Cardiopulmonary Bypass

Isabel Centner, Bruce Searles, Jeffrey Riley, Hani Aiash, and Edward Darling
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Objective Content Validation of the Hemodynamic and Technical Parameters of the Orpheus™ Cardiopulmonary Bypass Simulator

Bruce E. Searles, Edward M. Darling, Jeffrey B. Riley, Jacob McNinch, Erik Ruffa, and Jason R. Wiles
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Risk and Safety Perceptions Contribute to Transfusion Decisions in Coronary Artery Bypass Grafting

Joshua L. Bourque, Raymond J. Strobel, Joyce Loh, Darin B. Zahuranec, Gaetano Paone, Robert S. Kramer, Alphonse Delucia, Warren D. Behr, Min Zhang, Milo C. Engoren, Richard L. Prager, Xiaoting Wu, and Donald S. Likosky
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To RAP or Not to RAP: A Retrospective Comparison of the Effects of Retrograde Autologous Priming

Emily Foreman, Morgan Eddy, Jenny Holdcombe, Phoebe Warren, Lisa Gebicke, Pamela Raney, Wilson Clements, and James Zellner
J. ExtraCorp Tech 2021; 53(4): 279–85

Alternative Input for Perfusion Management Devices: Voice Recognition for Data Input and the Effects on Charting and Perioperative Calculation Use

Kara Lung, Brandi Brummer, Scott Sanderson, and David W. Holt
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The Use of Extracorporeal Membrane Oxygenation in COVID-19 Patients with Severe Cardiorespiratory Failure: The Influence of Obesity on Outcomes

Linda B. Mongero, Alfred H. Stammers, Eric A. Tesdahl, Courtney Petersen, Kirti Patel, and Jeffrey P. Jacobs
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Deep Hypothermic Circulatory Arrest for Emergency Repair of Type A Aortic Dissection in a Patient with Cold Agglutinins

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Bifurcated Arterial Circulation for Hybrid Aortic Reconstruction: A Novel Technique

Joshua Blessing and Gabor Bagamari
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Central Partial Bypass Management Technique for Distal Arch Surgery

Amanda Cornelius, Krithika Ramaprabhu, Elizabeth Stephens, Nishant Saran, and Alberto Pochettino
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LETTER TO THE EDITOR

Encouraging Quality Improvement through the Use of a National Perfusion Database

Matthew S. Mosca
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