**Kristopher Barrett Deatrick, MD**110 S. Paca St., 7th Floor

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**Education and Training**

**Education**

08/1992-06/1996 High School: Sault Area High School, Sault Ste. Marie, Michigan

09/1996-05/2000 Undergraduate: A.B., with honors, University of Michigan, College of Literature, Science and the Arts, Integrated Premedical-Medical Program (Inteflex)

08/2000-06/2005 MD, with distinction in research, University of Michigan Medical School, Ann Arbor, Michigan

**Post-Doctoral Training**

06/2005-06/2006 Internship, Surgery, University of Michigan, Ann Arbor, Michigan

06/2005-06/2012 Residency, Surgery, University of Michigan, Ann Arbor, Michigan

07/2008-06/2010 Research Fellow, Vascular Biology - T32, University of Michigan, Ann Arbor, Michigan

07/2012-06/2014 Fellowship, Thoracic Surgery, University of Michigan, Ann Arbor, Michigan

07/2014-06/2015 Fellowship, Pediatric Cardiac Surgery, University of Michigan, Ann Arbor, Michigan

**Certification and Licensure**

**Certification**

04/2013-12/2023 American Board of Surgery - Surgery #58096

06/2015-12/2025 American Board of Thoracic Surgery - Thoracic Surgery #8115

06/2016-12/2026 American Board of Thoracic Surgery - Congenital Heart Surgery #177

**Licensure**

06/2016 DEA Registration

10/2016 State of Maryland, Medical License

01/2018 State of Michigan, Controlled Substance

01/2018 State of Michigan, Medical License

**Academic, Administrative, Clinical and Military Appointments**

**Academic Appointments**

07/2011-06/2012 House Officer in Surgery, University of Michigan Health System, Ann Arbor, Michigan

07/2012-06/2015 House Officer in Cardiac and Thoracic Surgery, University of Michigan Health System, Ann Arbor, Michigan

09/2015-11/2016 Clinical Lecturer in Cardiac Surgery, University of Michigan, Ann Arbor, Michigan

12/2016-06/2018 Instructor, Department of Surgery, Division of Cardiac Surgery, University of Maryland, Baltimore Maryland

7/2018-Present Assistant Professor, Department of Surgery, Division of Cardiac Surgery, University of Maryland, Baltimore, Maryland

05/2019-Present Courtesy Staff, Attending Surgeon, The Johns Hopkins Hospital, Division of Cardiac Surgery, Baltimore, Maryland

**Clinical Interests**

* Congenital heart surgery
* Cardiac surgery
* Cardiac transplantation
* Critical care
* Extracorporeal life support in neonates, infants, children and adults
* Mechanical circulatory support

**Research Interests**

* Extracorporeal life support
* Cardiopulmonary bypass
* Thrombosis and hemostasis
* Anticoagulation
* Ex vivo organ perfusion and transplantation
* Acute Lung Injury
* Mesencyhmal stem cell biology
* Xenotransplantation

**Research Experience**

2003-2004 Conrad Jobst Fellow, Jobst Vascular Research Laboratory. Mentors: Peter K. Henke MD and Gilbert R. Upchurch Jr., MD.

2008-2010 Research Fellow, Vascular Biology - T32, University of Michigan, Ann Arbor, Michigan, Jobst Vascular Research Laboratory: Mentors: Peter K. Henke, MD and Thomas W. Wakefield, MD

2015-2016 Research Fellow, University of Michigan Extracorporeal Life Support Laboratory, Department of Surgery, University of Michigan, Mentor: Robert H. Bartlett, MD

* Pediatric Artificial Lung: Developed successful survival model of pediatric pulmonary arterial hypertension and successful implantation of investigatory lung assist device.
* Prolonged Ex-Situ Normothermic Organ Perfusion (Heart). Developed techniques of prolonged cardiac perfusion and completed laboratory’s first successful orthotopic transplant of a perfused heart.
* Developed and executed model of CPB with cardioplegic arrest and recovery in rabbit model.
* Also participated in development of nonthrombotic surfaces, mitigation of CPB-associated SIRS, Development of single ventricle VAD model.

**Grants**

**Past Grants**

*Award notification dated 1/22/08:*

*Mechanistic Role of MMP-2 and -9 On Vein Wall Injury After DVT*

American Venous Forum Foundation grant #08-3687

Kristopher B. Deatrick, MD, PI
01/2008-12/2009 - $25,000

**Current Grants**

“*Stem Cell Therapy for Post-Cardiopulmonary Bypass Low Cardiac Output Syndrome”*

Children’s Heart Foundation

Kristopher B. Deatrick, MD, PI

01/2020-12/2022 - $200,000

**Honors and Awards**

**National**

2008 BSN-Jobst Corporation Research Fellowship, American Venous Forum

2010 Servier Traveling Fellowship, American Venous Forum

2009 Finalist, C. Walton Lillehei Resident Award, American Association for Thoracic Surgery

2019 Outstanding Paper / Poster, Congenital Heart Surgeons’ Society Annual Meeting

**Regional**

2005 Association for Academic Surgery Award for Surgical Research

2008 Frederick A. Coller Surgical Society Research Fellowship

2010 First prize, Resident Research Competition, Michigan Society for Thoracic and Cardiovascular Surgery

2010 Jobst Vascular Research Award, Frederick A. Coller Surgical Society

2010 Szilagyi Michigan Vascular Prize, Michigan Chapter, American College of Surgeons

**Institutional**

2005 Greenfield Award for Research Excellence in Vascular Surgery

2010 Greenfield Award for Research Excellence in Vascular Surgery

2010 S. Martin Lindenauer Award for Research and Education in Vascular Surgery

**Memberships in Professional Societies**

2005-pesent American College of Surgeons

2012-present Member, Society for Thoracic Surgery

2012 Member, Association for Academic Surgery

2016-present Extracorporeal Life Support Organization

**Editorial Positions, Boards, and Peer-Review Service**

**Journal Reviewer**

2010-present Reviewer, World Journal of Surgery (Ad Hoc)

2015-present Reviewer, Perfusion (Ad Hoc)

2015-present Reviewer, Annals of Thoracic Surgery (Ad Hoc)

2017-present Reviewer, Shock (Ad Hoc)

**Teaching**

 **Graduate Medical Education**

**07/2018 – Present** Assistant Program Director (Curriculum), University of Maryland Integrated Cardiac and Thoracic Surgery Residency

 **01/2017 – Present** Didactic resident lectures given 1-2 times monthly to residents, fellows (Cardiothoracic Surgery, General Surgery, Pediatrics and Pediatric Critical Care) and medical students at University of Maryland School of Medicine, including all aspects of Congenital Heart Disease (Atrial septal defects, Ventricular septal defects, Transposition of the Great Arteries, Atrioventricular Septal Defects, Tetralogy of Fallot, Hypoplastic Left Heart Syndrome, Aortic Coarctation, Pulmonary Atresia / Intact Ventricular Septum, Double Outlet Right Ventricle, Total Anomalous Pulmonary Venous Connection, Extracorporeal Life Support)

**Intramural Lectures:**

09/5/2019 Advanced Therapy for Pulmonary Embolism – University of Maryland Department of Anesthesiology Grand Rounds

10/29/2018 Surgical Management of Pulmonary Embolism – University of Maryland Division of Critical Care Grand Rounds

10/17/2018 Extracorporeal Life Support and Congenital Heart Surgery – University of Maryland Department of Pediatrics Grand Rounds

10/18/2018 Extracorporeal Life Support and Cardiac Failure – University of Maryland

10/8/2019 Operative Considerations in Repair of Atrioventricular Septal Defects, The Johns Hopkins Hospital, Blalock-Taussig Congenital Heart Program

11/7/2019 Keynote Address – “Pediatric Heart-Lung Transplantation and Life Support” – University of Maryland School of Nursing Critical Care Symposium

4/30/2020 Extracorporeal Life Support for COVID-19 – Division of Cardiac Surgery Grand Rounds

**Visiting Professorships, Seminars and Extramural Invited Presentations**

10/15/2018 Long Term Support for Respiratory Failure with ECMO, Seminar Extracorporeal Life Support Organization Annual Meeting.

11/16/2018 Extracorporeal Life Support and ECPR in Resuscitation – State of Maryland Emergency Medicine Update

**Students Mentored (Other than resident supervision and instruction)**

**Graduate Student**

02/2016-06/2016 Zainab Hammoud, BS, University of Michigan Physiology Masters Program

**Medical Student**

06/2015-09/2015 Julia Brennan, BS, University of Michigan Medical School

07/2015-09/2015 Daniel Mercante, BS, University of Michigan Medical School

07/2017-06/2020 Nathaniel Parchment, BS, University of Maryland Medical School

07/2020-Present Lauren Levy, BS, University of Maryland Medical School

**Resident/House Officer**

07/2015-06/2016 Azmath Mohammed, MD, William Beaumont Hospital University of Michigan Extracorporeal Life Support Laboratory

07/2017-06/2019 Laura DiChiacchio, MD, PhD, University of Maryland

07/2020-Present Bree Ann Young, MD, University of Michigan / University of Maryland

12/2016-06/2021 Gregory Bittle, MD, University of Maryland

07/2017-06/2019 Dave Morales, MD, University of Maryland

**Undergraduate Student**

07/2015-06/2016 Thomas Johnson, BS, University of Michigan College of LS&A

07/2015-06/2016 Fares Alghanem, BS, University of Michigan College of LS&A

**Visiting Scholars**

07/2015-10/2016 Catalina Ceballos-Muriel, MD, Universidad El Bosque Bogota, Colombia

**Other Educational**

**2017 – Present Founding Director, Course Director, University of Maryland Extracorporeal Membrane Oxygenation Course.** 2 day course of didactic, interactive, and simulation (including animal and cadaver lab) on the management of extracorporeal Life Support, including selection, assessment, cannulation, management and rehabilitation. This course is now offered twice annually and has been attended by all critical care fellows of the R. A. Cowley Shock Trauma Center, as well as surgical residents, and practicing surgeons, intensivists and emergency physicians from throughout the region. https://umaryland.cloud-cme.com/default.aspx?P=0&EID=9999

**Committee and Administrative Services**

**Committee Services**

**Institutional**

2008-2014 University of Michigan House Officers' Association, Representative

2011-2012 University of Michigan House Officers' Association, Treasurer

2016-Present University of Maryland Children’s Hospital, Inpatient Management Committee

2017 – Present University of Maryland Children’s Hospital: ICU Management Committee

2017 – Present University of Maryland Children’s Hospital ECMO Team (Chair)

2017 – Present University of Maryland Extracorporeal Life Support Committee (Co-Chair)

**National**

Extracorporeal Life Support Organization – Pediatric Cardiac Guidelines (Author, Lead)

Extracorporeal Life Support Organization – Thrombosis and anticoagulation

**Peer-Reviewed Journals and Publications**

1. Henke PK, Varga A, De S, **Deatrick CB,** Eliason J, Arenberg DA, Sukheepod P, Thanaporn P, Kunkel SL, Upchurch GR, Jr., Wakefield TW. Deep vein thrombosis resolution is modulated by monocyte CXCR2-mediated activity in a mouse model. Arterioscler Thromb Vasc Biol. 2004;24(6):1130-7. Epub 2004/04/24. doi: 10.1161/01.ATV.0000129537.72553.73. PubMed PMID: 15105284.
2. Varma MR, Moaveni DM, Dewyer NA, Varga AJ, **Deatrick KB**, Kunkel SL, Upchurch GR, Jr., Wakefield TW, Henke PK. Deep vein thrombosis resolution is not accelerated with increased neovascularization. J Vasc Surg. 2004;40(3):536-42. Epub 2004/09/01. doi: 10.1016/j.jvs.2004.05.023. PubMed PMID: 15337885.
3. Grigoryants V, Hannawa KK, Pearce CG, Sinha I, Roelofs KJ, Ailawadi G, **Deatrick KB**, Woodrum DT, Cho BS, Henke PK, Stanley JC, Eagleton MJ, Upchurch GR. Tamoxifen up-regulates catalase production, inhibits vessel wall neutrophil infiltration, and attenuates development of experimental abdominal aortic aneurysms. J Vasc Surg. 2005;41(1):108-14. Epub 2005/02/08. doi: 10.1016/j.jvs.2004.09.033. PubMed PMID: 15696052.
4. **Deatrick KB**, Eliason JL, Lynch EM, Moore AJ, Dewyer NA, Varma MR, Pearce CG, Upchurch GR, Wakefield TW, Henke PK. Vein wall remodeling after deep vein thrombosis involves matrix metalloproteinases and late fibrosis in a mouse model. J Vasc Surg. 2005;42(1):140-8. Epub 2005/07/14. doi: 10.1016/j.jvs.2005.04.014. PubMed PMID: 16012463.
5. Rectenwald JE, **Deatrick KB**, Sukheepod P, Lynch EM, Moore AJ, Moaveni DM, Dewyer NA, Luke CE, Upchurch GR, Jr., Wakefield TW, Kunkel SL, Henke PK. Experimental pulmonary embolism: effects of the thrombus and attenuation of pulmonary artery injury by low-molecular-weight heparin. J Vasc Surg. 2006;43(4):800-8. Epub 2006/04/18. doi: 10.1016/j.jvs.2005.12.010. PubMed PMID: 16616240.
6. Henke PK, Varma MR, **Deatrick KB**, Dewyer NA, Lynch EM, Moore AJ, Dubay DA, Sukheepod P, Pearce CG, Upchurch GR, Jr., Kunkel SL, Franz MG, Wakefield TW. Neutrophils modulate post-thrombotic vein wall remodeling but not thrombus neovascularization. Thromb Haemost. 2006;95(2):272-81. Epub 2006/02/24. doi: 10.1160/TH05-02-0099. PubMed PMID: 16493489.
7. Henke PK, Pearce CG, Moaveni DM, Moore AJ, Lynch EM, Longo C, Varma M, Dewyer NA, **Deatrick KB**, Upchurch GR, Jr., Wakefield TW, Hogaboam C, Kunkel SL. Targeted deletion of CCR2 impairs deep vein thombosis resolution in a mouse model. J Immunol. 2006;177(5):3388-97. Epub 2006/08/22. doi: 10.4049/jimmunol.177.5.3388. PubMed PMID: 16920980.
8. Henke PK, Ferguson E, Varma M, **Deatrick KB**, Wakefield GT, Woodrum DT. Proximate versus nonproximate risk factor associated primary deep venous thrombosis: clinical spectrum and outcomes. J Vasc Surg. 2007;45(5):998-1003; discussion -4; quiz 5-7. Epub 2007/05/01. doi: 10.1016/j.jvs.2007.01.042. PubMed PMID: 17466793.
9. Henke PK, Varma MR, Moaveni DK, Dewyer NA, Moore AJ, Lynch EM, Longo C, **Deatrick CB**, Kunkel SL, Upchurch GR, Jr., Wakefield TW. Fibrotic injury after experimental deep vein thrombosis is determined by the mechanism of thrombogenesis. Thromb Haemost. 2007;98(5):1045-55. Epub 2007/11/15. PubMed PMID: 18000610.
10. Ramacciotti E, Myers DD, Jr., Wrobleski SK, **Deatrick KB**, Londy FJ, Rectenwald JE, Henke PK, Schaub RG, Wakefield TW. P-selectin/ PSGL-1 inhibitors versus enoxaparin in the resolution of venous thrombosis: a meta-analysis. Thromb Res. 2010;125(4):e138-42. Epub 2009/12/08. doi: 10.1016/j.thromres.2009.10.022. PubMed PMID: 19962723; PMCID: PMC2942795.
11. Sood V, Luke CE, **Deatrick KB**, Baldwin J, Miller EM, Elfline M, Upchurch GR, Jr., Wakefield TW, Henke PK. Urokinase plasminogen activator independent early experimental thrombus resolution: MMP2 as an alternative mechanism. Thromb Haemost. 2010;104(6):1174-83. Epub 2010/10/05. doi: 10.1160/TH10-03-0184. PubMed PMID: 20886179.
12. **Deatrick KB**, Wakefield TW, Henke PK. Chronic venous insufficiency: current management of varicose vein disease. Am Surg. 2010;76(2):125-32. Epub 2010/03/27. PubMed PMID: 20336886.
13. Kabbani LS, Escobar GA, Knipp B, **Deatrick CB**, Duran A, Upchurch GR, Jr., Napolitano LM. APACHE III score on ICU admission predicts hospital mortality after open thoracoabdominal and open abdominal aortic aneurysm repair. Ann Vasc Surg. 2010;24(8):1060-7. Epub 2010/11/03. doi: 10.1016/j.avsg.2010.07.011. PubMed PMID: 21035698.
14. Deroo S, **Deatrick KB**, Henke PK. The vessel wall: A forgotten player in post thrombotic syndrome. Thromb Haemost. 2010;104(4):681-92. Epub 2010/08/10. doi: 10.1160/TH10-03-0183. PubMed PMID: 20694280.
15. Henke PK, Mitsuya M, Luke CE, Elfline MA, Baldwin JF, **Deatrick KB**, Diaz JA, Sood V, Upchurch GR, Wakefield TW, Hogaboam C, Kunkel SL. Toll-like receptor 9 signaling is critical for early experimental deep vein thrombosis resolution. Arterioscler Thromb Vasc Biol. 2011;31(1):43-9. Epub 2010/10/23. doi: 10.1161/ATVBAHA.110.216317. PubMed PMID: 20966396; PMCID: PMC3005132.
16. **Deatrick KB**, Elfline M, Baker N, Luke CE, Blackburn S, Stabler C, Wakefield TW, Henke PK. Postthrombotic vein wall remodeling: preliminary observations. J Vasc Surg. 2011;53(1):139-46. Epub 2010/09/28. doi: 10.1016/j.jvs.2010.07.043. PubMed PMID: 20869834; PMCID: PMC3010467.
17. **Deatrick KB**, Luke CE, Elfline MA, Sood V, Baldwin J, Upchurch GR, Jr., Jaffer FA, Wakefield TW, Henke PK. The effect of matrix metalloproteinase 2 and matrix metalloproteinase 2/9 deletion in experimental post-thrombotic vein wall remodeling. J Vasc Surg. 2013;58(5):1375-84 e2. Epub 2013/03/16. doi: 10.1016/j.jvs.2012.11.088. PubMed PMID: 23490298; PMCID: PMC3688659.
18. **Deatrick KB,** Obi A, Luke CE, Elfline MA, Sood V, Upchurch GR, Jr., Jaffer F, Wakefield TW, Henke PK. Matrix metalloproteinase-9 deletion is associated with decreased mid-term vein wall fibrosis in experimental stasis DVT. Thromb Res. 2013;132(3):360-6. Epub 2013/08/28. doi: 10.1016/j.thromres.2013.06.027. PubMed PMID: 23978304; PMCID: PMC3777801.
19. Laser A, Elfline M, Luke C, Slack D, Shah A, Sood V, **Deatrick B**, McEvoy B, Ostra C, Comerota A, Kunkel S, Hogaboam C, Henke PK. Deletion of cysteine-cysteine receptor 7 promotes fibrotic injury in experimental post-thrombotic vein wall remodeling. Arterioscler Thromb Vasc Biol. 2014;34(2):377-85. Epub 2013/12/07. doi: 10.1161/ATVBAHA.113.302428. PubMed PMID: 24311382; PMCID: PMC3904187.
20. Bartlett RH, **Deatrick KB**. Current and future status of extracorporeal life support for respiratory failure in adults. Curr Opin Crit Care. 2016;22(1):80-5. Epub 2015/12/26. doi: 10.1097/MCC.0000000000000274. PubMed PMID: 26702599.
21. Church JT, Antunez AG, Dean A, Matusko N, **Deatrick KB**, Attar MA, Gadepalli SK. Evidence-based management of chylothorax in infants. J Pediatr Surg. 2017;52(6):907-12. Epub 2017/03/28. doi: 10.1016/j.jpedsurg.2017.03.010. PubMed PMID: 28342580.
22. Trahanas JM, Alghanem F, Ceballos-Muriel C, Hoffman HR, Xu A, **Deatrick KB**, Cornell MS, Rojas-Pena A, Bartlett RH, Hirschl RB. Development of a Model of Pediatric Lung Failure Pathophysiology. ASAIO J. 2017;63(2):216-22. Epub 2016/11/11. doi: 10.1097/MAT.0000000000000463. PubMed PMID: 27832003; PMCID: PMC5325792.
23. Church JT, Alghanem F, **Deatrick KB**, Trahanas JM, Phillips JP, Hee Song M, Perkins EM, Bartlett RH, Rojas-Pena A, Bocks ML, Owens GE. Normothermic Ex Vivo Heart Perfusion: Effects of Live Animal Blood and Plasma Cross Circulation. ASAIO J. 2017;63(6):766-73. Epub 2017/04/11. doi: 10.1097/MAT.0000000000000583. PubMed PMID: 28394815; PMCID: PMC5630486.
24. Kaushal S, Wehman B, Pietris N, Naughton C, Bentzen SM, Bigham G, Mishra R, Sharma S, Vricella L, Everett AD, **Deatrick KB**, Huang S, Mehta H, Ravekes WA, Hibino N, Difede DL, Khan A, Hare JM. Study design and rationale for ELPIS: A phase I/IIb randomized pilot study of allogeneic human mesenchymal stem cell injection in patients with hypoplastic left heart syndrome. Am Heart J. 2017;192:48-56. Epub 2017/09/25. doi: 10.1016/j.ahj.2017.06.009. PubMed PMID: 28938963.
25. Peer SM, **Deatrick KB**, Johnson TJ, Haft JW, Pagani FD, Ohye RG, Bove EL, Rojas-Pena A, Si MS. Mechanical Circulatory Support for the Failing Fontan: Conversion to Assisted Single Ventricle Circulation-Preliminary Observations. World J Pediatr Congenit Heart Surg. 2018;9(1):31-7. Epub 2018/01/10. doi: 10.1177/2150135117733968. PubMed PMID: 29310555.
26. Beshish AG, Baginski MR, Johnson TJ, **Deatrick BK**, Barbaro RP, Owens GE. Functional Status Change Among Children With Extracorporeal Membrane Oxygenation to Support Cardiopulmonary Resuscitation in a Pediatric Cardiac ICU: A Single Institution Report. Pediatr Crit Care Med. 2018;19(7):665-71. Epub 2018/04/17. doi: 10.1097/PCC.0000000000001555. PubMed PMID: 29659415.
27. Bittle GJ, Morales D, **Deatrick KB,** Parchment N, Saha P, Mishra R, Sharma S, Pietris N, Vasilenko A, Bor C, Ambastha C, Gunasekaran M, Li D, Kaushal S. Stem Cell Therapy for Hypoplastic Left Heart Syndrome: Mechanism, Clinical Application, and Future Directions. Circ Res. 2018;123(2):288-300. Epub 2018/07/07. doi: 10.1161/CIRCRESAHA.117.311206. PubMed PMID: 29976693; PMCID: PMC6397624.
28. Menaker J, Rabinowitz RP, Tabatabai A, Tesoriero RB, Dolly K, Cornachione C, Stene E, Buchner J, Kufera J, Kon ZN, **Deatrick KB**, Herr DL, O'Connor JV, Scalea TM. Veno-Venous Extracorporeal Membrane Oxygenation for Respiratory Failure: How Long Is Too Long? ASAIO J. 2019;65(2):192-6. Epub 2018/04/03. doi: 10.1097/MAT.0000000000000791. PubMed PMID: 29608490.
29. Mazzeffi MA, Kon Z, **Deatrick K**, Menaker J. Houston, ECMO Has Landed. J Cardiothorac Vasc Anesth. 2019;33(4):908-9. Epub 2018/08/18. doi: 10.1053/j.jvca.2018.07.019. PubMed PMID: 30115518.
30. Mazzeffi MA, Tanaka K, Roberts A, Rector R, Menaker J, Kon Z, **Deatrick KB**, Kaczorowski D, Griffith B, Herr D. Bleeding, Thrombosis, and Transfusion With Two Heparin Anticoagulation Protocols in Venoarterial ECMO Patients. J Cardiothorac Vasc Anesth. 2019;33(5):1216-20. Epub 2018/09/06. doi: 10.1053/j.jvca.2018.07.045. PubMed PMID: 30181084.
31. Pasrija C, Mackowick KM, Raithel M, Tran D, Boulos FM, **Deatrick KB**, Mazzeffi MA, Rector R, Pham SM, Griffith BP, Herr DL, Kon ZN. Ambulation With Femoral Arterial Cannulation Can Be Safely Performed on Venoarterial Extracorporeal Membrane Oxygenation. Ann Thorac Surg. 2019;107(5):1389-94. Epub 2018/12/07. doi: 10.1016/j.athoracsur.2018.10.048. PubMed PMID: 30508528.
32. Kon ZN, Pasrija C, Bittle GJ, Vemulapalli S, Grau-Sepulveda MV, Matsouaka R, **Deatrick KB**, Taylor BS, Gammie JS, Griffith BP. The Incidence and Outcomes of Surgical Pulmonary Embolectomy in North America. Ann Thorac Surg. 2019;107(5):1401-8. Epub 2018/11/27. doi: 10.1016/j.athoracsur.2018.10.035. PubMed PMID: 30476479.
33. Menaker J, Galvagno S, Rabinowitz R, Penchev V, Hollis A, Kon Z, **Deatrick K**, Amoroso A, Herr D, Mazzeffi M. Epidemiology of blood stream infection in adult extracorporeal membrane oxygenation patients: A cohort study. Heart Lung. 2019;48(3):236-9. Epub 2019/01/29. doi: 10.1016/j.hrtlng.2019.01.004. PubMed PMID: 30686618.
34. Peng YW, Mohammed A, **Deatrick KB**, Major T, Cheng D, Charpie I, Charpie JR. Differential Effects of Normoxic and Hyperoxic Reperfusion on Global Myocardial Ischemia-Reperfusion Injury. Semin Thorac Cardiovasc Surg. 2019;31(2):188-98. Epub 2018/10/03. doi: 10.1053/j.semtcvs.2018.09.018. PubMed PMID: 30278268.
35. Mazzeffi M, Hasan S, Abuelkasem E, Meyer M, **Deatrick K**, Taylor B, Kon Z, Herr D, Tanaka K. Von Willebrand Factor-GP1balpha Interactions in Venoarterial Extracorporeal Membrane Oxygenation Patients. J Cardiothorac Vasc Anesth. 2019;33(8):2125-32. Epub 2019/01/01. doi: 10.1053/j.jvca.2018.11.031. PubMed PMID: 30595484.
36. **Deatrick KB**, Kaushal S. Commentary: A tale of the left ventricle. J Thorac Cardiovasc Surg. 2019;158(2):518-9. Epub 2019/07/20. doi: 10.1016/j.jtcvs.2019.04.051. PubMed PMID: 31320036.
37. Galvagno SM, Shah NG, Cornachione CR, **Deatrick KB**, Mazzeffi MA, Menaker J. Long term veno-venous extracorporeal life support without intravenous anticoagulation for diffuse alveolar hemorrhage. Perfusion. 2019;34(6):523-5. Epub 2019/02/13. doi: 10.1177/0267659119826828. PubMed PMID: 30744494.
38. DiChiacchio L, Pasrija C, Boulos FM, Ramani G, Jeudy J, **Deatrick KB**, Griffith BP, Kon ZN. Occult Chronic Thromboembolic Disease in Patients Presenting for Surgical Pulmonary Embolectomy. Ann Thorac Surg. 2019;108(4):1183-8. Epub 2019/05/06. doi: 10.1016/j.athoracsur.2019.03.088. PubMed PMID: 31055039.
39. Galvagno SM, Jr., Pelekhaty S, Cornachione CR, **Deatrick KB**, Mazzeffi MA, Scalea TM, Menaker J. Does Weight Matter? Outcomes in Adult Patients on Venovenous Extracorporeal Membrane Oxygenation When Stratified by Obesity Class. Anesth Analg. 2019. Epub 2019/10/31. doi: 10.1213/ANE.0000000000004454. PubMed PMID: 31663965.
40. Pasrija C, Bittle GJ, Zhang J, Morales D, Tran D, **Deatrick KB**, Gammie JS, Wu Z, Griffith BP, Kon ZN, Kaczorowski DJ. A novel adaptor system enables endovascular access through extracorporeal life support circuits. J Thorac Cardiovasc Surg. 2019;158(5):1359-66. Epub 2019/03/25. doi: 10.1016/j.jtcvs.2019.02.041. PubMed PMID: 30902466.
41. **Deatrick KB**, Mazzeffi MA, Galvagno SM, Jr., Tesoriero RB, Kaczoroswki DJ, Herr DL, Dolly K, Rabinowitz RP, Scalea TM, Menaker J. Outcomes of Venovenous Extracorporeal Membrane Oxygenation When Stratified by Age: How Old Is Too Old? ASAIO J. 2019. Epub 2019/11/26. doi: 10.1097/MAT.0000000000001076. PubMed PMID: 31764005.
42. **Deatrick KB**, Galvagno SM, Mazzeffi MA, Kaczoroswki DJ, Herr DL, Rector R, Hochberg E, Rabinowitz RP, Scalea TM, Menaker J. Pilot study evaluating a non-titrating, weight-based anticoagulation scheme for patients on veno-venous extracorporeal membrane oxygenation. Perfusion. 2020;35(1):13-8. Epub 2019/05/28. doi: 10.1177/0267659119850024. PubMed PMID: 31122144.
43. Pelekhaty SL, Galvagno SM, Jr., Lantry JH, Dolly KN, Herr DL, Kon ZN, **Deatrick KB**, Cornachione CR, Scalea TM, Menaker J. Are Current Protein Recommendations for the Critically Ill Adequate for Patients on VV ECMO: Experience From a High-Volume Center. JPEN J Parenter Enteral Nutr. 2020;44(2):220-6. Epub 2019/05/16. doi: 10.1002/jpen.1602. PubMed PMID: 31090949.
44. Pelekhaty S, Galvagno SM, Jr., Hochberg E, Herr DL, Lantry JH, Kon ZN, **Deatrick K**B, Menaker J. Nitrogen Balance During Venovenous Extracorporeal Membrane Oxygenation Support: Preliminary Results of a Prospective, Observational Study. JPEN J Parenter Enteral Nutr. 2020;44(3):548-53. Epub 2018/05/26. doi: 10.1002/jpen.1176. PubMed PMID: 29799136.
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