

Literatuur

1. Hill JD, O'Brien TG, Murray JJ, et al. Prolonged extracorporeal oxygenation for acute post-traumatic respiratory failure (shock-lung syndrome). Use of the Bramson membrane lung. *N Engl J Med* 1972; 286(12): 629-34.
2. Extracorporeal Life Support Organization. Extracorporeal Life Support Organization ECLS Registry Report Overall Outcomes. 2019: 11408. www.elseo.org.
3. Henry BM. COVID-19, ECMO and lymphopenia: a word of caution. *Lancet Respir Med* 2020; 8(4): e24.
4. Abrams D, Lorusso R, Vincent J-L, et al. ECMO during the COVID-19 pandemic: when is it unjustified? *Crit Care* 2020; 24(1): 507.
5. Aubron C, Cheng AC, Pilcher D, et al. Factors associated with outcomes of patients on extracorporeal membrane oxygenation support: a 5-year cohort study. *Crit Care* 2013; 17(2): R73.
6. Vaquer S, de Haro C, Peruga P, et al. Systematic review and meta-analysis of complications and mortality of veno-venous extracorporeal membrane oxygenation for refractory acute respiratory distress syndrome. *Ann Intensive Care* 2017; 7(1): 1-13.
7. Bartlett RH, Conrad SA, Brogan TV, et al. The physiology of extracorporeal life support. *Extracorporeal Life Support: The ELSO Red Book*. ELSO Red B 2017; 5: 31-47.
8. Bolliger D, Siegemund M. Between a rock and a hard place: coagulation management in venoarterial extracorporeal membrane oxygenation patients. *J Cardiothorac Vasc Anesth [Internet]*. 2019; 33(5): 1221-23.
9. Brogan TV, Lequier L, Lorusso R, et al. *Extracorporeal Life Support : The ELSO Red Book*. 2017.
10. Hayden SJ, Albert TJ, Watkins TR, et al. Anemia in critical illness: insights into etiology, consequences and management. *Am J Respir Crit Care Med* 2012; 185(10): 1049-57.
11. Corwin HL, Gettinger A, Pearl RG, et al. The CRIT study: anemia and blood transfusion in the critically ill. Current clinical practice in the United States. *Crit Care Med* 2004; 32(1): 39-52.
12. Piagnerelli M, Zouaoui Boudjeltia K, et al. Red blood cell rheology in sepsis. *Intensive Care Med* 2003; 29(7): 1052-61.
13. Omar HR, Mirsaeidi M, Socias S, et al. Plasma free hemoglobin is an independent predictor of mortality among patients on extracorporeal membrane oxygenation support. *PLoS One* 2015; 10(4).
14. Lehle K, Philipp A, Zeman F, et al. Technical-induced hemolysis in patients with respiratory failure supported with veno-venous ECMO – prevalence and risk factors. *PLoS One* 2015; 10(11).
15. Bosma M, Waanders F, Van Schaik HP, et al. Automated and cost-efficient early detection of hemolysis in patients with extracorporeal life support. Use of the hemolysis-index of routine clinical chemistry platforms. *J Crit Care* 2019; 51: 29-33.
16. Gross-Hardt S, Hesselmann F, Arens J, et al. Low-flow assessment of current ECMO/ECCO2R rotary blood pumps and the potential effect on hemocompatibility. *Crit Care* 2019; 23(1): 1-9.
17. Guimbretière G, Anselmi A, Roisne A, et al. Prognostic impact of blood transfusion in VA and VV ECMO. *Perfusion* 2018; 1-8.
18. Martucci G, Panarello G, Occhipinti G, et al. Anticoagulation and transfusions management in veno-venous extracorporeal membrane oxygenation for acute respiratory distress syndrome: assessment of factors associated with transfusion requirements and mortality. e-pub 2017; *J Intensive Care Med* 2019; 34(8): 630-39.
19. Ang AL, Teo D, Lim CH, et al. Blood transfusion requirements and independent predictors of increased transfusion requirements among adult patients on extracorporeal membrane oxygenation. A single centre experience. *Vox Sang* 2009; 96(1): 34-43.
20. Tauber H, Streif W, Fritz J, et al. Predicting transfusion requirements during extracorporeal membrane oxygenation. *J Cardiothorac Vasc Anesth* 2016; 30(3): 692-701.
21. Guidelines. ELSOA. Extracorporeal Life Support Organization (ELSO) Anticoagulation Guideline Table. Elso 2014; (ELSO Anticoagulation Guideline):1-17.
22. Martucci G, Grasselli G, Tanaka K, et al. Hemoglobin trigger and approach to red blood cell transfusions during veno-venous extracorporeal membrane oxygenation: the international TRAIN-ECMO survey. *Perfus (UK)* 2019; 34(1 suppl): 39-48.
23. De Bruin S, Scheeren TWL, Bakker J, et al. Transfusion practice in the non-bleeding critically ill. An international online survey-the TRACE survey. *Crit Care* 2019; 23(1): 1-8.
24. Mazer CD, Whitlock RP, Fergusson DA, et al. Restrictive or liberal red-cell transfusion for cardiac surgery. *N Engl J Med* 2017; 377(22): 2133-44.

25. Ducrocq G, Gonzalez-Juanatey JR, Puymirat E, et al. Effect of a restrictive vs liberal blood transfusion strategy on major cardiovascular events among patients with acute myocardial infarction and anemia: the REALITY randomized clinical trial. *JAMA* 2021; 325(6): 552-60.
26. Hebert PC, Wells G, Blajchman MA, et al. A multicenter, randomized, controlled clinical trial of transfusion requirements in critical care. *N Engl J Med* 1999; 162(1): 280.
27. Vlaar AP, Oczkowski S, De Bruin S, et al. Transfusion strategies in non-bleeding critically ill adults: a clinical practice guideline from the European Society of Intensive Care Medicine. *Intensive Care Med* 2020; 46(4): 673-96.
28. Mazzeffi M, Greenwood J, Tanaka K, et al. Bleeding, transfusion, and mortality on extracorporeal life support: ECLS Working Group on Thrombosis and Hemostasis. In: *Annals of Thoracic Surgery*. Elsevier (USA), 2016; 682-89.
29. George B, Parazino M, Omar HR, et al. A retrospective comparison of survivors and non-survivors of massive pulmonary embolism receiving veno-arterial extracorporeal membrane oxygenation support. *Resuscitation* [Internet]. 2018; 122: 1-5.
30. Bosboom JJ, Klanderman RB, Migdady Y, et al. Transfusion-associated circulatory overload: a clinical perspective. *Transfus Med Rev* 2019; 33(2): 69-77.
31. Bosboom JJ, Klanderman RB, Zijp M, et al. Incidence, risk factors, and outcome of transfusion-associated circulatory overload in a mixed intensive care unit population: a nested case-control study. *Transfusion* 2018; 58(2): 498-506.
32. Abbasciano RG, Yusuff H, Vlaar A, et al. Blood transfusion threshold in patients receiving extracorporeal membrane oxygenation support for cardiac and respiratory failure—a systematic review and meta-analysis. *J Cardiothorac Vasc Anesth* [Internet] 2020; 35(4): 1192-1202.
33. Cahill CM, Blumberg N, Schmidt AE, et al. Implementation of a standardized transfusion protocol for cardiac patients treated with venoarterial extracorporeal membrane oxygenation is associated with decreased blood component utilization and may improve clinical outcome. *Anesth Analg* 2018; 126(4): 1262-67.
34. Jiritano F, Serraino GF, Ten Cate H, et al. Platelets and extra-corporeal membrane oxygenation in adult patients: a systematic review and meta-analysis. *Intensive Care Med* [Internet] 2020; 46(6): 1154-69.
35. Weingart C, Lubnow M, Philipp A, et al. Comparison of coagulation parameters, anticoagulation, and need for transfusion in patients on interventional lung assist or veno-venous extracorporeal membrane oxygenation. *Artif Organs* 2015; 39(9): 765-73.
36. Abrams D, Baldwin MR, Champion M, et al. Thrombocytopenia and extracorporeal membrane oxygenation in adults with acute respiratory failure: a cohort study. *Intensive Care Med* 2016; 42(5): 844-52.
37. Arachchilage DRJ, Laffan M, Khanna S, et al. Frequency of thrombocytopenia and heparin-induced thrombocytopenia in patients receiving extracorporeal membrane oxygenation compared with cardiopulmonary bypass and the limited sensitivity of Pretest Probability Score. *Crit Care Med* 2020; 48(5): e371-79.
38. Bakchoul T, Marini I. Drug-associated thrombocytopenia. <https://aspublications.org>. Table 2: <https://doi.org/10.1182/asheducation-2018.1.576>
39. Weerasinghe A, Taylor KM. The platelet in cardiopulmonary bypass: what does cardiopulmonary bypass do to the platelet? *Ann Thorac Surg* 1998; 66(98): 2145-52.
40. Meyer AD, Wiles AA, Rivera O, et al. Hemolytic and thrombocytopathic characteristics of extracorporeal membrane oxygenation systems at simulated flow rate for neonates. *Pediatr Crit Care Med* 2012;13(4): e255-61.
41. Greinacher A. Clinical Practice. Heparin-induced thrombocytopenia. *N Engl J Med* 2015; 373(3): 252-61.
42. Cuker A, Arepally GM, Chong BH, et al. American Society of Hematology 2018 guidelines for management of venous thromboembolism: heparin-induced thrombocytopenia. *Blood Adv* 2018; 2(22): 3360-92.
43. Choi JH, Luc JGY, Weber MP, et al. Heparin-induced thrombocytopenia during extracorporeal life support: incidence, management and outcomes. *Ann Cardiothorac Surg* 2019; 8(1): 19-31.
44. Granja T, Hohenstein K, Schüssel P, et al. Multi-modal characterization of the coagulopathy associated with extracorporeal membrane oxygenation. *Crit Care Med* 2020; 48(5): e400-8.
45. Balle CM, Jeppesen AN, Christensen S, et al. Platelet function during extracorporeal membrane oxygenation in adult patients: a systematic review. *Front Cardiovasc Med* 2018; 5(November).
46. ELSO. General guidelines for all ECLS cases. ELSO Guidel [Internet]. 2017; August: 1-26. www.elseo.org.
47. Walsh TS, Stanworth SJ, Prescott RJ, et al. Prevalence, management, and outcomes of critically ill patients with prothrombin time prolongation in United Kingdom intensive care units. *Crit Care Med* 2010; 38(10): 1939-46.

48. Müller MCA, Straat M, Meijers JCM, et al. Fresh frozen plasma transfusion fails to influence the hemostatic balance in critically ill patients with a coagulopathy. *J Thromb Haemost* 2015; 13(6): 989-97.
49. Juffermans NP, Muller MM. Prophylactic plasma: can we finally let go? *Transfusion* 2021; 61(7): 1991-92.
50. Millar JE, Fanning JP, McDonald CI, et al. The inflammatory response to extracorporeal membrane oxygenation (ECMO): a review of the pathophysiology. *Crit Care* 2016; 20(1): 1-10.
51. Panholzer B, Meckelburg K, Huenges K, et al. Extracorporeal membrane oxygenation for acute respiratory distress syndrome in adults: an analysis of differences between survivors and non-survivors. *Perfusion (UK)* 2017; 32(6): 495-500.
52. Kalbhenn J, Wittau N, Schmutz A, et al. Identification of acquired coagulation disorders and effects of target-controlled coagulation factor substitution on the incidence and severity of spontaneous intracranial bleeding during veno-venous ECMO therapy. *Perfusion (UK)* 2015; 30(8): 675-82.
53. Bercovitz RS. An introduction to point-of-care testing in extracorporeal circulation and LVADs. *Hematol (US)* 2018; 2018(1): 516-21.
54. Spinelli E, Bartlett RH. Anemia and transfusion in critical care: physiology and management. *J Intensive Care Med* 2014; 31(5): 295-306.
55. Kuroda H, Masuda Y, Imaizumi H, et al. Successful extracorporeal membranous oxygenation for a patient with life-threatening transfusion-related acute lung injury. *J Anesth* 2009; 23(3): 424-26.
56. Lee AJ, Koyyalamudi PL, Martinez-Ruiz R. Severe transfusion-related acute lung injury managed with extracorporeal membrane oxygenation (ECMO) in an obstetric patient. *J Clin Anesth* 2008; 20(7): 549-52.
57. Semple JW, Rebetz J, Kapur R. Transfusion-associated circulatory overload and transfusion-related acute lung injury. *Blood* 2019; 133(17): 1840-53.
58. Wiersum-Osselton JC, Whitaker B, Grey S, et al. Revised international surveillance case definition of transfusion-associated circulatory overload: a classification agreement validation study. *Lancet Haematol* 2019; 6(7): e350-58.
59. Thongprayoon C, Cheungpasitporn W, Lertjitbanjong P, et al. Incidence and impact of acute kidney injury in patients receiving extracorporeal membrane oxygenation: A meta-analysis. *J Clin Med* 2019;8(7): 981.
60. Toy P, Gajic O, Bacchetti P, et al. Transfusion-related acute lung injury: incidence and risk factors. *Blood* 2012; 119(7): 1757-67.