

## References

- [1] Schmaier, A. H., & Lazarus, H. M. (2012). Concise guide to hematology. Chichester, West Sussex, UK: Wiley-Blackwell.
- [2] Hemodilution. (n.d.). Retrieved from <https://www.merriam-webster.com/dictionary/hemodilution>
- [3] Perel, A. (2017). Iatrogenic hemodilution: A possible cause for avoidable blood transfusions? *Critical Care*,21(1). doi:10.1186/s13054-017-1872-1
- [4]Cervera, A. L., & Moss, G. (1974). Crystalloid Distribution Following Hemorrhage And Hemodilution. *The Journal of Trauma: Injury, Infection, and Critical Care*,14(6), 506-520. doi:10.1097/00005373-197406000-00007
- [5]Wadström, J., & Gerdin, B. (1990). Effect of Bleeding and Hypervolaemic Haemodilution on Traumatic Vasospasm in Rabbits. *Scandinavian Journal of Plastic and Reconstructive Surgery and Hand Surgery*,24(2), 107-111. doi:10.3109/02844319009004529
- [6]Hannon, J., Wade, C., Bossone, C., Hunt, M., Coppes, R., & Loveday, J. (1990). Blood gas and acid-base status of conscious pigs subjected to fixed-volume hemorrhage and resuscitated with hypertonic saline dextran. *Resuscitation*,20(3), 265-266. doi:10.1016/0300-9572(90)90015-7
- [7]Kowalenko, T., Stern, S., Wang, X., Dronen, S., & Hurst, J. M. (1991). Improved Outcome With “Hypotensive” Resuscitation Of Uncontrolled Hemorrhagic Shock In A Swine Model. *The Journal of Trauma: Injury, Infection, and Critical Care*,31(7), 1032. doi:10.1097/00005373-199107000-00068
- [8]Hwang, N. C. (2015). Preventive Strategies for Minimizing Hemodilution in the Cardiac Surgery Patient During Cardiopulmonary Bypass. *Journal of Cardiothoracic and Vascular Anesthesia*,29(6), 1663-1671. doi:10.1053/j.jvca.2015.08.002
- [9] Muraki, R., Hiraoka, A., Nagata, K., Nakajima, K., Oshita, T., Arimichi, M., . . . Sakaguchi, T. (2018). Novel method for estimating the total blood volume: The importance of adjustment using the ideal body weight and age for the accurate prediction of haemodilution during cardiopulmonary bypass. *Interactive CardioVascular and Thoracic Surgery*. doi:10.1093/icvts/ivy173

- [10]Perel, A. (2018). The relationship between the decrease in haemoglobin concentration and the volume of fluids administered during resuscitation from septic shock may not be so “weak”. *Critical Care*,22(1). doi:10.1186/s13054-018-2118-6
- [11]Paydar, S., Bazrafkan, H., Golestani, N., Roozbeh, J., Akrami, A., & Moradi, A. M. (2014). Effects of Intravenous Fluid Therapy on Clinical and Biochemical Parameters of Trauma Patients. *Emergency*, 2(2), 90–95.
- [12]Ross, S. W., Christmas, A. B., Fischer, P. E., Holway, H., Seymour, R., Huntington, C. R., . . . Sing, R. F. (2018). Defining Dogma: Quantifying Crystalloid Hemodilution in a Prospective Randomized Control Trial with Blood Donation as a Model for Hemorrhage. *Journal of the American College of Surgeons*,227(3), 321-331. doi:10.1016/j.jamcollsurg.2018.05.005
- [13] Johnson AEW, Pollard TJ, Shen L, Lehman L, Feng M, Ghassemi M, Moody B, Szolovits P, Celi LA, Mark RG. MIMIC-III, a freely accessible critical care database. *Scientific Data* (2016).
- [14] Goldberger AL, Amaral LAN, Glass L, Hausdorff JM, Ivanov PCh, Mark RG, Mietus JE, Moody GB, Peng C-K, Stanley HE. PhysioBank, PhysioToolkit, and PhysioNet: Components of a New Research Resource for Complex Physiologic Signals. *Circulation* 101(23):e215-e220 [Circulation Electronic Pages; <http://circ.ahajournals.org/content/101/23/e215.full>]; 2000 (June 13).
- [15] Pollard, T. (n.d.). Getting Started. Retrieved from <https://eicu-crd.mit.edu/>  
Lai CW, Starkie T, Creanor S, Struthers RA, Portch D, Erasmus PD, Mellor N, Hosie KB, Sneyd JR, Minto G. Randomized controlled trial of stroke volume optimization during elective major abdominal surgery in patients stratified by aerobic fitness. *Br J Anaesth*. 2015;115:578–89.
- [16] Nguyen BV, Bota DP, Melot C, Vincent JL. Time course of hemoglobin concentrations in nonbleeding intensive care unit patients. *Crit Care Med*. 2003;31:406–410. doi: 10.1097/00003246-200301001-00001.
- [17] Acute Normovolemic Hemodilution Reduces Allogeneic Red Blood Cell Transfusion in Cardiac Surgery: A Systematic Review and Meta-analysis of Randomized Trials.  
Barile L1, Fominskiy E, Di Tomasso N, Alpizar Castro LE, Landoni G, De Luca M, Bignami E, Sala A, Zangrillo A, Monaco F.
- [18] Michael Mayer (2018). missRanger: Fast Imputation of Missing Values. R package version 1.0.3. <https://CRAN.R-project.org/package=missRanger>

[19] Breiman, L. (2001). Random Forests. *Machine Learning*, 45(1), 5-32.  
doi:10.1023/a:1010933404324

[20] Marvin N. Wright, Andreas Ziegler (2017). ranger: A Fast Implementation of Random Forests for High Dimensional Data in C++ and R. *Journal of Statistical Software*, 77(1), 1-17. doi:10.18637/jss.v077.i01

[21] David Meyer, Evgenia Dimitriadou, Kurt Hornik, Andreas Weingessel and Friedrich Leisch (2018). e1071: Misc Functions of the Department of Statistics, Probability Theory Group (Formerly: E1071), TU Wien. R package version 1.7-0.  
<https://CRAN.R-project.org/package=e1071>

[22] Brandon Greenwell, Bradley Boehmke, Jay Cunningham and GBM Developers (2018). gbm: Generalized Boosted Regression Models. R package version 2.1.4.  
<https://CRAN.R-project.org/package=gbm>

[23] Max Kuhn. Contributions from Jed Wing, Steve Weston, Andre Williams, Chris Keefer, Allan Engelhardt, Tony Cooper, Zachary Mayer, Brenton Kenkel, the R Core Team, Michael Benesty, Reynald Lescarbeau, Andrew Ziem, Luca Scrucca, Yuan Tang, Can Candan and Tyler Hunt. (2018). caret: Classification and Regression Training. R package version 6.0-81.  
<https://CRAN.R-project.org/package=caret>

[24] S. SCHULMAN C. KEARON Definition of major bleeding in clinical investigations of antihemostatic medicinal products in non-surgical patients. First published: 04 April 2005  
<https://doi-org.ezp-prod1.hul.harvard.edu/10.1111/j.1538-7836.2005.01204.x>

[25] A Population-Based Study of Hemoglobin, Race, and Mortality in Elderly Persons XinQi Dong Carlos Mendes de Leon Andrew Artz YuXiao Tang Raj Shah Denis Evans. *The Journals of Gerontology: Series A*, Volume 63, Issue 8, 1 August 2008, Pages 873–878,  
<https://doi.org/10.1093/gerona/63.8.873>



