

Daftar Pustaka

- Abdelaziz, A.A., ElGendy, F.M., Hegazy, A.A., Hussein, M. and Ghazy, R.M., 2023. Prognostic value of combined central venous oxygen saturation and lactate in pediatric patients after cardiac surgery. *Egyptian Pediatric Association Gazette*, 71(1), p.84.
- Ait-Oufella, H., Bige, N., Boelle, P. Y., Pichereau, C., Alves, M., Bertinchamp, R., Baudel, J. L., Galbois, A., Maury, E., & Guidet, B. 2014. Capillary refill time exploration during septic shock. *Intensive Care Medicine*, 40(7), 958–964. <https://doi.org/10.1007/s00134-014-3326-4>.
- Bailey, S. M., Prakash, S. S., Verma, S., Desai, P., Kazmi, S., & Mally, P. V. 2022. Near-infrared spectroscopy in the medical management of infants. *Current Problems in Pediatric and Adolescent Health Care*, 52(11). <https://doi.org/10.1016/j.cppeds.2022.101291>.
- Bateman, S. T., Borasino, S., Asaro, L. A., Cheifetz, I. M., Diane, S., Wypij, D., & Curley, M. A. Q. 2016. Early high-frequency oscillatory ventilation in pediatric acute respiratory failure: A propensity score analysis. *American Journal of Respiratory and Critical Care Medicine*, 193(5), 495–503. <https://doi.org/10.1164/rccm.201507-1381OC>.
- Brassard, P., Seifert, T. and Secher, N.H., 2009. Is cerebral oxygenation negatively affected by infusion of norepinephrine in healthy subjects?. *British journal of anaesthesia*, 102(6), pp.800-805.
- Bernard, G. R., & Artigas, A. 2016. The definition of ARDS revisited: 20 years later. In *Intensive Care Medicine* (Vol. 42, Issue 5, pp. 640–642). Springer Verlag. <https://doi.org/10.1007/s00134-016-4281-z>.
- Bronicki, R. A., Fortenberry, J., Schreiber, M., Checchia, P. A., & Anas, N. G. 2015. Multicenter randomized controlled trial of inhaled nitric oxide for pediatric acute respiratory distress syndrome. *Journal of Pediatrics*, 166(2), 365-369.e1. <https://doi.org/10.1016/j.jpeds.2014.10.011>.
- Borg, U., Katilius, J.Z. and Addison, P.S., 2023. Near-Infrared Spectroscopy Monitoring to Detect Changes in Serebral and Renal Perfusion During Hypovolemic Shock, Volume Resuscitation, and Vasoconstriction. *Military Medicine*, 188(Supplement_6), pp.369-376. <https://doi.org/10.1093/milmed/usad158>.
- Bush, B., Sam, K. and Rosenblatt, K., 2019. The role of near-infrared spectroscopy in cerebral autoregulation monitoring. *Journal of neurosurgical anesthesiology*, 31(3), pp.269-270.
- Caine, D., & Watson, J. D. G. 2000. Neuropsychological and neuropathological sequelae of serebral anoxia: A critical review. In *Journal of the International Neuropsychological Society* (Vol. 6, Issue 1, pp. 86–99). <https://doi.org/10.1017/S1355617700611116>.
- Calfee, C. S., Ware, L. B., Eisner, M. D., Parsons, P. E., Thompson, B. T., Wickersham, N., & Matthay, M. A. 2008. Plasma receptor for advanced glycation end products and clinical outcomes in acute lung injury. *Thorax*, 63(12), 1083–1089. <https://doi.org/10.1136/thx.2008.095588>.

- Casado-Flores, J., De Azagra, A. M., Ruiz-López, M. J., Ruiz, M., & Serrano, A. 2002. Pediatric ARDS: Effect of supine-prone postural changes on oxygenation. *Intensive Care Medicine*, 28(12), 1792–1796. <https://doi.org/10.1007/s00134-002-1527-8>.
- Chairy, A., Nurnaningsih, & Prawirohartono, E. P. 2014. Factors associated with oxygenation improvement in children with ARDS. *Paediatrica Indonesiana*, 54.
- Chakravarti, S.B., Mittnacht, A.J., Katz, J.C., Nguyen, K., Joashi, U., & Srivastava, S., 2009. Multisite near-infrared spectroscopy predicts elevated blood lactate level in children after cardiac surgery. *Journal of cardiothoracic and vascular anesthesia*, 23(5), pp.663-667. <https://doi.org/10.1053/j.jvca.2009.03.014>.
- Ciliberti, P., Cardim, D., Giardina, A., Groznik, M., Ball, L., Giovannini, M., Battaglini, D., Beqiri, E., Matta, B., Smielewski, P., & Czosnyka, M., 2023. Effects of short-term hyperoxemia on cerebral autoregulation and tissue oxygenation in acute brain injured patients. *Frontiers in Physiology*, 14, p.1113386.
- Coppalini, G., Duvigneaud, E., Diosdado, A., Migliorino, E., Schuind, S., Creteur, J., Taccone, F.S. and Gouvêa Bogossian, E., 2022. Effect of inotropic agents on oxygenation and cerebral perfusion in acute brain injury. *Frontiers in Neurology*, 13, p.963562.
- Das, B.P., Sharma, M., Bansal, S., Philip, M. and Rao, G.S.U., 2020. Prognostic value of tissue oxygen monitoring and regional serebral oxygen saturation monitoring and their correlation in neurological patients with sepsis: a preliminary, prospective, observational study. *Journal of neurosurgical anesthesiology*, 32(1), pp.77-81.
- Davies, D.J., Su, Z., Clancy, M.T., Lucas, S.J., Dehghani, H., Logan, A. and Belli, A., 2015. Near-infrared spectroscopy in the monitoring of adult traumatic brain injury: a review. *Journal of neurotrauma*, 32(13), pp.933-941.
- Dent, C. L., Spaeth, J. P., Jones, B. V., Schwartz, S. M., Glauser, T. A., Hallinan, B., Pearl, J. M., Khoury, P. R., & Kurth, C. D. 2006. Brain magnetic resonance imaging abnormalities after the Norwood procedure using regional serebral perfusion. *Journal of Thoracic and Cardiovascular Surgery*, 131(1), 190–197. <https://doi.org/10.1016/j.jtcvs.2005.10.003>
- Dexter, F. and Hindman, B.J., 1995. Theoretical Analysis of Cerebral Venous Blood Hemoglobin Oxygen Saturation as an Index of Cerebral Oxygenation during Hypothermic Cardiopulmonary Bypass: A Counterproposal to the "Luxury Perfusion" Hypothesis. *The Journal of the American Society of Anesthesiologists*, 83(2), pp.405-412.
- Deschamps, A., Hall, R., Grocott, H., Mazer, C.D., Choi, P.T., Turgeon, A.F., de Medicis, E., Bussièrès, J.S., Hudson, C., Syed, S. and Seal, D., 2016. Serebral oximetry monitoring to maintain normal serebral oxygen saturation during high-risk cardiac surgery: a randomized controlled feasibility trial. *Anesthesiology*, 124(4), pp.826-836.
- Desmond, F. A., & Namachivayam, S. 2016. Does near-infrared spectroscopy play a role in paediatric intensive care? *BJA Education*, 16(8), 281–285. <https://doi.org/10.1093/bjaed/mkv053>
- Diamond, M., Peniston, H. L., Sanghavi, D. K., & Mahapatra, S. 2024. Acute respiratory distress syndrome. In *StatPearls [Internet]*. StatPearls Publishing.

- DiSilvio, B., Young, M., Gordon, A., Malik, K., Singh, A., & Cheema, T. 2019. Complications and outcomes of acute respiratory distress syndrome. *Critical care nursing quarterly*, 42(4), 349-361.
- Dix, L. M. L., van Bel, F., & Lemmers, P. M. A. 2017. Monitoring serebral oxygenation in neonates: An update. In *Frontiers in Pediatrics* (Vol. 5). Frontiers Media S.A. <https://doi.org/10.3389/fped.2017.00046>.
- Donnelly, J. and Czosnyka, M., 2018. Getting hot under the collar: temperature and cerebral autoregulation. *Journal of Emergency and Critical Care Medicine*, 2.
- Drago, B. B., Kimura, D., Rovnaghi, C. R., Schwingshackl, A., Rayburn, M., Meduri, G. U., & Anand, K. J. S. 2015. Double-Blind, Placebo-Controlled Pilot Randomized Trial of Methylprednisolone Infusion in Pediatric Acute Respiratory Distress Syndrome. *Pediatric Critical Care Medicine*, 16(3), e74-e81. <https://doi.org/10.1097/PCC.0000000000000349>.
- Eisner, M. D., Parsons, P., Matthay, M. A., Ware, L., & Greene, K. 2003. Plasma surfactant protein levels and clinical outcomes in patients with acute lung injury. *Thorax*, 58(11), 983-988. <https://doi.org/10.1136/thorax.58.11.983>.
- El-Atawi, K.M., Osman, M.F., Hassan, M., Siwji, Z.A., Hassan, A.A., Abed, M.Y., & Elsayed, Y., 2023. Predictive Utility of Near-Infrared Spectroscopy for the Outcomes of Hypoxic-Ischemic Encephalopathy: A Systematic Review and Meta-Analysis. *Cureus*, 15(12).
- Emeriaud, G., López-Fernández, Y. M., Iyer, N. P., Bembea, M. M., Agulnik, A., Barbaro, R. P., Baudin, F., Bhalla, A., Brunow De Carvalho, W., Carroll, C. L., Cheifetz, I. M., Chisti, M. J., Cruces, P., Curley, M. A. Q., Dahmer, M. K., Dalton, H. J., Erickson, S. J., Essouri, S., Fernández, A., Khemani, R. G. 2023. Executive Summary of the Second International Guidelines for the Diagnosis and Management of Pediatric Acute Respiratory Distress Syndrome (PALICC-2). *Pediatric Critical Care Medicine*, 24(2), 143-168. <https://doi.org/10.1097/PCC.0000000000003147>.
- Fang, B., Qian, S., Zeng, J., Li, K., Xu, F., Lu, G., Ren, X., Zhang, Y., Jin, Y., Wang, Y., & Liu, C. 2022. Analysis of the effectiveness of pulmonary surfactant in the treatment of moderate and severe acute respiratory distress syndrome in infants and toddlers-a multicenter prospective study. <https://doi.org/10.21203/rs.3.rs-1963064/v1>.
- Fioretto, J. R., Ribeiro, C. F., Carpi, M. F., Bonatto, R. C., Moraes, M. A., Fioretto, E. B., & Fagundes, D. J. 2015. Comparison between noninvasive mechanical ventilation and standard oxygen therapy in children up to 3 years old with respiratory failure after extubation: A pilot prospective randomized clinical study. *Pediatric Critical Care Medicine*, 16(2), 124-130. <https://doi.org/10.1097/PCC.0000000000000309>.
- Gan, C. S., Wong, J. J. M., Samransamruajkit, R., Chuah, S. L., Chor, Y. K., Qian, S., Anantasit, N., Feng, X., Ong, J. S. M., Phuc, P. H., Phumeetham, S., Sultana, R., Loh, T. F., Lum, L. C. S., & Lee, J. H. 2018. Differences between pulmonary and extrapulmonary pediatric acute respiratory distress syndrome: A multicenter analysis. *Pediatric Critical Care Medicine*, 19(10), E504-E513. <https://doi.org/10.1097/PCC.0000000000001667>.

- Guérin, C., Reignier, J., Richard, J.-C., Beuret, P., Gacouin, A., Boulain, T., Mercier, E., Badet, M., Mercat, A., Baudin, O., Clavel, M., Chatellier, D., Jaber, S., Rosselli, S., Mancebo, J., Sirodot, M., Hilbert, G., Bengler, C., Richecoeur, J., Ayzac, L. 2013. Prone Positioning in Severe Acute Respiratory Distress Syndrome. *New England Journal of Medicine*, 368(23), 2159–2168. <https://doi.org/10.1056/nejmoa1214103>.
- Hadinegoro, S. R. S., Chairulfatah, A., Latief, A., H. Pudjiadi, A., Malisie, R. F., & Alam, A. 2016. Diagnosis dan tatalaksana sepsis pada anak. *Pedoman Nasional Pelayanan Kedokteran Ikatan Dokter Anak Indonesia*, 1–47.
- Hansen, M. L., Hyttel-Sørensen, S., Jakobsen, J. C., Gluud, C., Kooi, E. M. W., Mintzer, J., de Boode, W. P., Fumagalli, M., Alarcon, A., Alderliesten, T., & Greisen, G. 2021. The clinical effects of serebral near-infrared spectroscopy monitoring (NIRS) versus no monitoring: a protocol for a systematic review with meta-analysis and trial sequential analysis. *Systematic Reviews*, 10, Article 111. <https://doi.org/10.1186/s13643-021-01660-2>
- Hasanin, A., Mukhtar, A., & Nassar, H. 2017. Perfusion indices revisited. In *Journal of Intensive Care* (Vol. 5, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s40560-017-0220-5>.
- He, H., Long, Y., Liu, D., Wang, X., & Zhou, X. 2015. Clinical classification of tissue perfusion based on the central venous oxygen saturation and the peripheral perfusion index. *Critical Care*, 19(1). <https://doi.org/10.1186/s13054-015-1057-8>.
- Heidemann, S. M., Nair, A., Bulut, Y., & Sapru, A. 2017. Pathophysiology and Management of Acute Respiratory Distress Syndrome in Children. In *Pediatric Clinics of North America* (Vol. 64, Issue 5, pp. 1017–1037). W.B. Saunders. <https://doi.org/10.1016/j.pcl.2017.06.004>.
- Hernandez, G., Luengo, C., Bruhn, A., Kattan, E., Friedman, G., Ospina-Tascon, G. A., Fuentealba, A., Castro, R., Regueira, T., Romero, C., Ince, C., & Bakker, J. 2014. When to stop septic shock resuscitation: clues from a dynamic perfusion monitoring. *Apidologie*, 4(1), 1–9. <https://doi.org/10.1186/s13613-014-0030-z>.
- Hoit, B. D. 2011. Strain and strain rate echocardiography and coronary artery disease. *Circulation: Cardiovascular Imaging*, 4(2), 179–190. <https://doi.org/10.1161/CIRCIMAGING.110.959817>.
- Hon, K. L., Leung, K. K. Y., Oberender, F., & Leung, A. K. C. 2021. Paediatrics: How to manage acute respiratory distress syndrome. In *Drugs in Context* (Vol. 10). Bioexcel Publishing LTD. <https://doi.org/10.7573/DIC.2021-1-9>.
- Hopkins, R. O., Gale, S. D., & Weaver, L. K. 2006. Brain atrophy and cognitive impairment in survivors of acute respiratory distress syndrome. *Brain Injury*, 20(3), 263–271. <https://doi.org/10.1080/02699050500488199>
- Huang, M., Gedansky, A., Hassett, C.E., Price, C., Fan, T.H., Stephens, R.S., Nyquist, P., Uchino, K. and Cho, S.M. 2021. Pathophysiology of brain injury and neurological outcome in acute respiratory distress syndrome: a scoping review of preclinical to clinical studies. *Neurocritical care*, 35, pp.518-527.
- Hutabarat, S.S., Lubis, A.P. and Wijaya, D.W., 2023. Perbedaan Nilai Near Infrared Spectroscopic antara Posisi Head Up 15° dan Head Up 30° pada Pasien yang Dirawat di Ruang Intensive Care Unit. *Jurnal Anestesi Perioperatif*, 11(3), pp.139-145.

- Hutapea, E. I., Dewi, R., Yuniar, I., Pudjiadi, A. H., Handryastuti, R. A. S., Wahidiyat, P. A. 2019. Peran Pengukuran Saturasi Oksigen Regional Otak Menggunakan Near Infrared Spectroscopy (Nirs) Serebral pada Renjatan Anak dan Hubungannya dengan Parameter Hemodinamik Non Invasif= Measurement of *Regional oxygen saturation* using Cerebral Near Infrared Spectroscopy in Pediatric Shock and Its Correlation with Noninvasive Hemodynamic Measurements.
- Islamia, I., & Rahman, L. O. A. 2023. Near Infra-Red Spectroscopy As Daily Monitoring In Nicu: A Literature Review. *Jurnal Inovasi Kesehatan Adaptif*, 5(5).
- Jakob, S., & Takala, J. 2002. ARDS Monitoring Tissue Perfusion. *Critical Care Clinics*, 18, 143–159.
- Janz, D. R., & Ware, L. B. 2015. The role of red blood cells and cell-free hemoglobin in the pathogenesis of ARDS. In *Journal of Intensive Care* (Vol. 3, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s40560-015-0086-3>.
- Janz, D. R., Zhao, Z., Koyama, T., May, A. K., Bernard, G. R., Bastarache, J. A., Young, P. P., & Ware, L. B. 2013. Longer storage duration of red blood cells is associated with an increased risk of acute lung injury in patients with sepsis. *Annals of Intensive Care*, 3(1), 1–9. <https://doi.org/10.1186/2110-5820-3-33>.
- Jouvet, P., Thomas, N. J., Willson, D. F., Erickson, S., Khemani, R., Smith, L., Zimmerman, J., Dahmer, M., Flori, H., Quasney, M., Sapru, A., Cheifetz, I., Rimensberger, P. C., Kneyber, M., Tamburro, R. F., Curley, M. A. Q., Nadkarni, V., Valentine, S., Emeriaud, G., & Bembea, M. 2015. Pediatric Acute Respiratory Distress Syndrome: Consensus Recommendations from the Pediatric Acute Lung Injury Consensus Conference. *Pediatric Critical Care Medicine*, 16(5), 428–439. <https://doi.org/10.1097/PCC.0000000000000350>.
- Kahl, U., Yu, Y., Nierhaus, A., Frings, D., Sensen, B., Daubmann, A., Kluge, S., & Fischer, M., 2021. Cerebrovascular autoregulation and arterial carbon dioxide in patients with acute respiratory distress syndrome: a prospective observational cohort study. *Annals of Intensive Care*, 11, pp.1-12.
- Khan, J.M., Shore, A., Lee, K.F., Wood, M.D., Maslove, D.M., Hunt, M., Georgescu, I., Muscedere, J. and Boyd, J.G., 2024. Cerebral autoregulation-based mean arterial pressure targets and delirium in critically ill adults without brain injury: a retrospective cohort study. *Canadian Journal of Anesthesia/Journal canadien d'anesthésie*, 71(1), pp.107-117.
- Kaufman, J., Almodovar, M. C., Zuk, J., & Friesen, R. H. 2008. Correlation of abdominal site near-infrared spectroscopy with gastric tonometry in infants following surgery for congenital heart disease. *Pediatric Critical Care Medicine*, 9(1), 62–68. <https://doi.org/10.1097/01.PCC.0000298640.47574.DA>.
- Khemani, R. G., Smith, L., Lopez-Fernandez, Y. M., Kwok, J., Morzov, R., Klein, M. J., Yehya, N., Willson, D., Kneyber, M. C. J., Lillie, J., Fernandez, A., Newth, C. J. L., Jouvet, P., Thomas, N. J., Abaleke, E., Ackerman, K. G., Acuña, C., Adu-Darko, M., Affolter, J. T., & Zurek, J. 2019. Paediatric acute respiratory distress syndrome incidence and epidemiology (PARDIE): an international, observational study. *The Lancet Respiratory Medicine*, 7(2), 115–128. [https://doi.org/10.1016/S2213-2600\(18\)30344-8](https://doi.org/10.1016/S2213-2600(18)30344-8).
- Knoester, H., Bronner, M. B., Bos, A. P., & Grootenhuis, M. A. 2008. Quality of life in children three and nine months after discharge from a paediatric intensive care unit:

- A prospective cohort study. *Health and Quality of Life Outcomes*, 6. <https://doi.org/10.1186/1477-7525-6-21>.
- Kurita, T., Kawashima, S., Morita, K. and Nakajima, Y., 2020. Spinal cord autoregulation using near-infrared spectroscopy under normal, hypovolemic, and post-fluid resuscitation conditions in a swine model: a comparison with cerebral autoregulation. *Journal of Intensive Care*, 8, pp.1-10.
- Lemmers, P. M. A., Toet, M., Van Schelven, L. J., & Van Bel, F. 2006. Serebral oxygenation and serebral oxygen extraction in the preterm infant: The impact of respiratory distress syndrome. *Experimental Brain Research*, 173(3), 458–467. <https://doi.org/10.1007/s00221-006-0388-8>.
- Lima, A., Jansen, T. C., Van Bommel, J., Ince, C., & Bakker, J. 2009. The prognostic value of the subjective assessment of peripheral perfusion in critically ill patients. *Critical Care Medicine*, 37(3), 934–938. <https://doi.org/10.1097/CCM.0b013e31819869db>.
- Lima, A., López, A., Van Genderen, M. E., Hurtado, F. J., Angulo, M., Grignola, J. C., Shono, A., & Van Bommel, J. 2015. Interrater Reliability and Diagnostic Performance of Subjective Evaluation of Sublingual Microcirculation Images by Physicians and Nurses: A Multicenter Observational Study. *Shock*, 44(3), 239–244. <https://doi.org/10.1097/SHK.0000000000000401>.
- Marhong, J., & Fan, E. 2014. Carbon dioxide in the critically ill: too much or too little of a good thing?. *Respiratory Care*, 59(10), 1597-1605.
- Marin, T., & Moore, J. 2011. Understanding near-infrared spectroscopy. *Advances in Neonatal Care*, 11(6), 382–388. <https://doi.org/10.1097/ANC.0b013e3182337ebb>
- Matyas, M., Iancu, M., Hasmasanu, M., Man, A. & Zaharie, G., 2022. Association Analysis of the Cerebral Fractional Tissue Oxygen Extraction (cFTOE) and the Cerebral Oxygen Saturation (crSaO2) with Perinatal Faktors in Preterm Neonates: A Single Centre Study. *Journal of Clinical Medicine*, 11(12), p.3546.
- Merkel, C.A., Brady, K.M., Votava-Smith, J.K. & Tran, N.N., 2023. A pilot study: Comparing a novel noninvasive measure of cerebrovascular stability index with an invasive measure of cerebral autoregulation in neonates with congenital heart disease. *Journal of Clinical and Translational Science*, 7(1), p.e165.
- Mesquida, J., Caballer, A., Cortese, L., Vila, C., Karadeniz, U., Pagliuzzi, M., Zanoletti, M., Pacheco, A. P., Castro, P., García-de-Acilu, M., Mesquita, R. C., Busch, D. R., Durduran, T., Durduran, T., Pagliuzzi, M., Cortese, L., Zanoletti, M., Karadeniz, U., Mesquida, J., & Lívio-Emidio, G. 2021. Peripheral microcirculatory alterations are associated with the severity of acute respiratory distress syndrome in COVID-19 patients admitted to intermediate respiratory and intensive care units. *Critical Care*, 25(1). <https://doi.org/10.1186/s13054-021-03803-2>.
- Mokhtari, M., Amirdosara, M., Goharani, R., Zangi, M., Tafrishinejad, A., Nashibi, M., Dabbagh, A., Sadeghi, H., Nateghinia, S., Hajiesmaeili, M. and Yousefi-Banaem, H., 2022. The predictive power of near-infrared spectroscopy in improving cognitive problems in patients undergoing brain surgeries: a systematic review. *Anesthesiology and Pain Medicine*, 12(1).
- Mol, A., Meskers, C.G., Sanders, M.L., Müller, M., Maier, A.B., van Wezel, R.J., Claassen, J.A. and Elting, J.W.J., 2021. Cerebral autoregulation assessed by near-infrared spectroscopy: validation using transcranial Doppler in patients with

- controlled hypertension, cognitive impairment and controls. *European journal of applied physiology*, 121, pp.2165-2176.
- Orbegozo Cortés, D., Rahmania, L., Irazabal, M., Santacruz, C., Fontana, V., De Backer, D., Creteur, J., & Vincent, J. L. 2016. Microvascular reactivity is altered early in patients with acute respiratory distress syndrome. *Respiratory Research*, 17(1). <https://doi.org/10.1186/s12931-016-0375-y>.
- Orfanos, S. E., Armaganidis, A., Glynos, C., Psevdi, E., Kaltsas, P., Sarafidou, P., Catravas, J. D., Dafni, U. G., Langleben, D., & Roussos, C. 2000. *Pulmonary Capillary Endothelium-Bound Angiotensin-Converting Enzyme Activity in Acute Lung Injury*. <http://www.circulationaha.org>.
- Orwoll, B. E., Spicer, A. C., Zinter, M. S., Alkhouli, M. F., Khemani, R. G., Flori, H. R., Neuhaus, J. M., Calfee, C. S., Matthay, M. A., & Sapru, A. 2015. Elevated soluble thrombomodulin is associated with organ failure and mortality in children with acute respiratory distress syndrome (ARDS): A prospective observational cohort study. *Critical Care*, 19(1). <https://doi.org/10.1186/s13054-015-1145-9>
- Pavlek, L.R., Mueller, C., Jebbia, M.R., Kiehl, M.J. and Fathi, O., 2021. Near-infrared spectroscopy in extremely preterm infants. *Frontiers in Pediatrics*, 8, p.624113.
- Payne, S. J., Mohammad, J., Tisdall, M. M., & Tachtsidis, I. 2011. Effects of arterial blood gas levels on cerebral blood flow and oxygen transport. *Biomedical optics express*, 2(4), 966-979.
- Quasney, M. W., López-Fernández, Y. M., Santschi, M., & Watson, R. S. 2015. The outcomes of children with pediatric acute respiratory distress syndrome: Proceedings from the Pediatric Acute Lung Injury Consensus Conference. *Pediatric Critical Care Medicine*, 16(5), S118–S131. <https://doi.org/10.1097/PCC.0000000000000438>.
- Rahmani, E. T., Kumara, I. F., Nurnaningsih. 2021. Faktor prediktor mortalitas pada pasien anak dengan pediatric acute respiratory distress syndrome . *Http://Etd.Repository.Ugm.Ac.Id*.
- Rees, G., Gledhill, J., Garralda, M. E., & Nadel, S. 2004. Psychiatric outcome following paediatric intensive care unit (PICU) admission: A cohort study. *Intensive Care Medicine*, 30(8), 1607–1614. <https://doi.org/10.1007/s00134-004-2310-9>.
- Rivera, V.A., 2015. *Studi Penggunaan Obat Inotropik dan Vasopresor pada Penderita Syok Kardiogenik* (Doctoral dissertation, UNIVERSITAS AIRLANGGA).
- Robba, C., Cho, S. M., & Sekhon, M. S. 2024. Managing the cerebral complications of acute respiratory distress syndrome. *Intensive Care Medicine*, 1-3.
- Roldán, M., & Kyriacou, P. A. 2021. Near-infrared spectroscopy (NIRS) in traumatic brain injury (TBI). *Sensors*, 21(5), 1586.
- Rugytė, D.Č. and Strumylaitė, L. 2020. Potential relationship between cerebral fractional tissue oxygen extraction (FTOE) and the use of sedative agents during the perioperative period in neonates and infants. *Children*, 7(11), p.209.
- Salvagno, M., Geraldini, F., Coppalini, G., Robba, C., Gouvea Bogossian, E., Annoni, F., Vitali, E., Sterchele, E.D., Balestra, C. and Taccone, F.S., 2024. The Impact of Inotropes and Vasopressors on Cerebral Oxygenation in Patients with Traumatic Brain Injury and Subarachnoid Hemorrhage: A Narrative Review. *Brain sciences*, 14(2), p.117.

- Sapru, A., Curley, M. A. Q., Brady, S., Matthay, M. A., & Flori, H. 2010. Elevated PAI-1 is associated with poor clinical outcomes in pediatric patients with acute lung injury. *Intensive Care Medicine*, 36(1), 157–163. <https://doi.org/10.1007/s00134-009-1690-2>.
- Schneider, N., & Johnson, M. 2022. Management of paediatric acute respiratory distress syndrome. In *BJA Education* (Vol. 22, Issue 9, pp. 364–370). Elsevier Ltd. <https://doi.org/10.1016/j.bjae.2022.04.004>.
- Schwaberg, B., Pichler, G., Binder, C., Avian, A., Pocivalnik, M., & Urlesberger, B. 2014. Even mild respiratory distress alters tissue oxygenation significantly in preterm infants during neonatal transition. *Physiological Measurement*, 35(10), 2085–2099. <https://doi.org/10.1088/0967-3334/35/10/2085>
- Silvera, F., Gagliardi, T., Vollono, P., Fernández, C., García-Bayce, A., Berardi, A., Badía, M., Beltrán, B., Cabral, T., Abella, P. and Farías, L. 2022. Study of the relationship between regional cerebral saturation and pCO₂ changes during mechanical ventilation to evaluate modifications in cerebral perfusion in a newborn piglet model. *Brazilian Journal of Medical and Biological Research*, 55, p.e11543.
- Silvestre, C., & Vyas, H. 2021. Paediatric acute respiratory distress syndrome (PARDS). In *Paediatrics and Child Health (United Kingdom)* (Vol. 31, Issue 6, pp. 229–232). Churchill Livingstone. <https://doi.org/10.1016/j.paed.2021.03.001>.
- Sinto, R. and Suwato, S., 2014. Parameter akhir resusitasi makrosirkulasi dan mikrosirkulasi pada sepsis berat dan renjatan septik. *Jurnal Penyakit Dalam Indonesia*, 1(1), p.9.
- Toy, P., Gajic, O., Bacchetti, P., Looney, M. R., Gropper, M. A., Hubmayr, R., Lowell, C. A., Norris, P. J., Murphy, E. L., Weiskopf, R. B., Wilson, G., Koenigsberg, M., Lee, D., Schuller, R., Wu, P., Grimes, B., Gandhi, M. J., Winters, J. L., Mair, D., Matthay, M. A. 2012. *Transfusion-related acute lung injury: incidence and risk factors*. <https://doi.org/10.1182/blood-2011-08>.
- Van Genderen, M. E., Klijn, E., Lima, A., De Jonge, J., Visser, S. S., Voorbeijtel, J., Bakker, J., & Van Bommel, J. 2014. Microvascular perfusion as a target for fluid resuscitation in experimental circulatory shock. *Critical Care Medicine*, 42(2). <https://doi.org/10.1097/CCM.0b013e3182a63fbf>.
- Van Genderen, M. E., Paauwe, J., de Jonge, J., van der Valk, R. J. P., Lima, A., Bakker, J., & van Bommel, J. 2014. Clinical assessment of peripheral perfusion to predict postoperative complications after major abdominal surgery early: A prospective observational study in adults. *Critical Care*, 18(3). <https://doi.org/10.1186/cc13905>.
- Vermeulen Windsant, I. C., de Wit, N. C. J., Sertorio, J. T. C., Beckers, E. A. M., Tanus-Santos, J. E., Jacobs, M. J., & Buurman, W. A. 2012. Blood transfusions increase circulating plasma free hemoglobin levels and plasma nitric oxide consumption: A prospective observational pilot study. *Critical Care*, 16(3). <https://doi.org/10.1186/cc11359>
- Vesoulis, Z.A., Lust, C.E., Liao, S.M., Trivedi, S.B. and Mathur, A.M., 2016. Early hyperoxia burden detected by cerebral near-infrared spectroscopy is superior to pulse oximetry for prediction of severe retinopathy of prematurity. *Journal of perinatology*, 36(11), pp.966-971.

- Vesoulis, Z.A., Sharp, D.P., Lalos, N., Swofford, D.P. and Chock, V.Y., 2024. Cerebral Near-Infrared Spectroscopy Use in Neonates: Current Perspectives. *Research and Reports in Neonatology*, pp.85-95.
- Weyrich, A. S., & Zimmerman, G. A. 2013. Platelets in lung biology. In *Annual Review of Physiology* (Vol. 75, pp. 569–591). <https://doi.org/10.1146/annurev-physiol-030212-183752>
- Wolfsberger, C.H., Pichler-Stachl, E., Höller, N., Mileder, L.P., Schwabegger, B., Avian, A., Urlesberger, B., & Pichler, G., 2023. Cerebral oxygenation immediately after birth and long-term outcome in preterm neonates—a retrospective analysis. *BMC pediatrics*, 23(1), p.145.
- Wong, J. J. M., Jit, M., Sultana, R., Mok, Y. H., Yeo, J. G., Koh, J. W. J. C., Loh, T. F., & Lee, J. H. 2019. Mortality in Pediatric Acute Respiratory Distress Syndrome: A Systematic Review and Meta-Analysis. *Journal of Intensive Care Medicine*, 34(7), 563–571. <https://doi.org/10.1177/0885066617705109>.
- Wong, J. J. M., Tan, H. L., Sultana, R., Ma, Y. J., Aguilan, A., Lee, S. W., Kumar, P., Mok, Y. H., & Lee, J. H. 2022. The longitudinal course of pediatric acute respiratory distress syndrome and its time to resolution: A prospective observational study. *Frontiers in Pediatrics*, 10. <https://doi.org/10.3389/fped.2022.993175>
- Wong, J. J. M., Dang, H., Gan, C. S., Phan, P. H., Kurosawa, H., Aoki, K., & Lee, J. H. 2024. Lung-Protective Ventilation for Pediatric Acute Respiratory Distress Syndrome: A Nonrandomized Controlled Trial. *Critical Care Medicine*, 52(10), 1602-1611.
- Xu, F., Liu, P., Pascual, J. M., Xiao, G., & Lu, H. 2012. Effect of hypoxia and hyperoxia on cerebral blood flow, blood oxygenation, and oxidative metabolism. *Journal of Cerebral Blood Flow & Metabolism*, 32(10), 1909-1918.
- Yoon, S., Zuccarello, M. and Rapoport, R.M., 2012. pCO₂ and pH regulation of cerebral blood flow. *Frontiers in physiology*, 3, p.365.
- Yu, M., Morita, S. Y., Daniel, S. R., Chapital, A., Waxman, K., & Severino, R. 2006. Transcutaneous pressure of oxygen: A noninvasive and early detector of peripheral shock and outcome. *Shock*, 26(5), 450–456. <https://doi.org/10.1097/01.shk.0000228798.18174.6a>.
- Zabrocki, L. A., Brogan, T. V., Statler, K. D., Poss, W. B., Rollins, M. D., & Bratton, S. L. 2011. Extracorporeal membrane oxygenation for pediatric respiratory failure: Survival and predictors of mortality. *Critical Care Medicine*, 39(2), 364–370. <https://doi.org/10.1097/CCM.0b013e3181fb7b35>.
- Zhong, W., Ji, Z., & Sun, C. 2021. A review of monitoring methods for serebral blood oxygen saturation. In *Healthcare (Switzerland)* (Vol. 9, Issue 9). MDPI. <https://doi.org/10.3390/healthcare9091104>.
- Ziaka, M., & Exadaktylos, A. 2022. ARDS associated acute brain injury: from the lung to the brain. In *European Journal of Medical Research* (Vol. 27, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s40001-022-00780-2>.
- Zimmerman, J. J., Akhtar, S. R., Caldwell, E., & Rubenfeld, G. D. 2009. Incidence and outcomes of pediatric acute lung injury. *Pediatrics*, 124(1), 87–95. <https://doi.org/10.1542/peds.2007-2462>.

- Zinter, M. S., Orwoll, B. E., Spicer, A. C., Alkhouli, M. F., Calfee, C. S., Matthay, M. A., & Sapru, A. 2017. Incorporating inflammation into mortality risk in pediatric acute respiratory distress syndrome. *Critical Care Medicine*, 45(5), 858–866. <https://doi.org/10.1097/CCM.0000000000002370>.
- Zhu, N., Huang, J., Zhuang, L., Kong, X., Zhang, S., Feng, Z., & Liu, J. 2021. Cerebral Oxygenation in Very Preterm Newborn Neonates Measured During the First Three Days of Life: Correlation with the Index of Arterial Blood Gas. *Jianmei, Cerebral Oxygenation in Very Preterm Newborn Neonates Measured During the First Three Days of Life: Correlation with the Index of Arterial Blood Gas*.