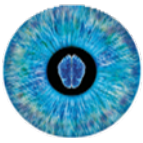




Bibliography: Critical Care Clinical Publications

1. Al-Obaidi SZ, Atem FD, Stutzman SE, Olson DM: Impact of increased intracranial pressure on pupillometry: a replication study. *Critical Care Explorations*: October 2019, Volume 1, Issue 10, p e0054. DOI: 10.1097/CCE.0000000000000054
2. Al-Obaidi SZ, Atem FD, Stutzman SE, Aiyagari V, Olson DM: Investigating the association between eye colour and the Neurological Pupil index. *Australian Critical Care*: October 2019, <https://doi.org/10.1016/j.aucc.2019.10.001>
3. Anderson M, Elmer J, Shutter L, Puccio A, Alexander S: Integrating quantitative pupillometry into regular care in a neurotrauma intensive care unit. *Journal of Neuroscience Nursing*, 50(1): 30-36, 2018. DOI: 10.1097/JNN.0000000000000333.
4. Aoun SG, et al.: Detection of delayed cerebral ischemia using objective pupillometry in patients with aneurysmal subarachnoid hemorrhage. *Journal of neurosurgery*, 1: 1-6, 2019.
5. Aoun SG, et al.: Objective pupillometry as an adjunct to prediction and assessment for oculomotor nerve injury and recovery: Potential for practical applications. *World neurosurgery*, 121: e475-e480, 2019.
6. Bader MK: Gizmos and gadgets for the neuroscience intensive care unit. *Journal of Neuroscience Nursing*, 38(4): 248, 2006.
7. Behrends M, Niemann CU, Larson MD: Infrared pupillometry to detect the light reflex during cardiopulmonary resuscitation: A case series. *Resuscitation*, 83(10): 1223-1228, 2012.
8. Boev AN, Fountas KN, Karampelas I, Boev C, Machinis TG, Feltes C, Okosun I, Dimopoulos V, Troup C: Quantitative pupillometry: Normative data in healthy pediatric volunteers. *Journal of Neurosurgery: Pediatrics*, 103(6): 496-500, 2005.
9. Breckwoldt J, Arntz H-R, *Infrared pupillometry during cardiopulmonary resuscitation for prognostication--a new tool on the horizon?* 2012.
10. Brown JT, Connelly M, Nickols C, Neville KA: Developmental changes of normal pupil size and reactivity in children. *Journal of pediatric ophthalmology and strabismus*, 52(3): 147-151, 2015.
11. Chen JW, Gombart ZJ, Rogers S, Gardiner SK, Cecil S, Bullock RM: Pupillary reactivity as an early indicator of increased intracranial pressure: The introduction of the neurological pupil index. *Surgical neurology international*, 2: 82, 2011.
12. Chen JW, Vakil-Gilani K, Williamson KL, Cecil S: Infrared pupillometry, the neurological pupil index and unilateral pupillary dilation after traumatic brain injury: Implications for treatment paradigms. *Springerplus*, 3(1): 548, 2014.
13. Du R, Meeker M, Bacchetti P, Larson MD, Holland MC, Manley GT: Evaluation of the portable infrared pupillometer. *Neurosurgery*, 57(1): 198-203, 2005.
14. Dundaroz R, Turkbay T, Erdem U, Congologlu A, Sakallioğlu O, Tascilar E: Pupillometric assessment of autonomic nervous system in children with functional enuresis. *International urology and nephrology*, 41(2): 231, 2009.
15. Emelifeonwu JA, Reid K, Rhodes JK, Myles L: Saved by the pupillometer!—a role for pupillometry in the acute assessment of patients with traumatic brain injuries? *Brain Injury*, 32(5): 675-677, 2018. DOI: 10.1080/02699052.2018.1429021.
16. Filipe JAC, Falcao-Reis F, Castro-Correia J, Barros H: Assessment of autonomic function in high level athletes by pupillometry. *Autonomic Neuroscience*, 104(1): 66-72, 2003.
17. Fountas KN, Kapsalaki EZ, Machinis TG, Boev AN, Robinson JS, Troup EC: Clinical implications of quantitative infrared pupillometry in neurosurgical patients. *Neurocritical care*, 5(1): 55-60, 2006.



18. Jahns F-P, Miroz JP, Messerer M, Daniel RT, Taccone FS, Eckert P, Oddo M: Quantitative pupillometry for the monitoring of intracranial hypertension in patients with severe traumatic brain injury. *Critical Care*, 23(1): 155, 2019.
19. Kerr RG, Bacon AM, Baker LL, Gehrke JS, Hahn KD, Lillegraven CL, Renner CH, Spilman SK: Underestimation of pupil size by critical care and neurosurgical nurses. *American Journal of Critical Care*, 25(3): 213-219, 2016. DOI: 10.4037/ajcc2016554.
20. Kim TJ, Ko S-B: Implication of neurological pupil index for monitoring of brain edema. *Acute and Critical Care*, 33(1): 57-60, 2018.
21. Kim TJ, Park S-H, Jeong H-B, Ha EJ, Cho WS, Kang H-S, Kim JE, Ko S-B: Neurological Pupil Index as an Indicator of Neurological Worsening in Large Hemispheric Strokes. *Journal of Neurocritical Care*, February, 2020.
22. Larson MD: Mechanism of opioid-induced pupillary effects. *Clinical Neurophysiology*, 119(6): 1358-1364, 2008.
23. Larson MD, Muhiudeen I: Pupillometric analysis of the 'absent light reflex'. *Archives of neurology*, 52(4): 369-372, 1995.
24. Lussier BL, Stutzman SE, Atem F, Venkatachalam AM, Perera AC, Barnes A, Aiyagari V, Olson DM: Distributions and reference ranges for automated pupillometer values in neurocritical care patients. *Journal of Neuroscience Nursing*, December 2019, Volume 51, Issue 6, p 335–340. DOI: 10.1097/JNN.0000000000000478.
25. Manley GT, Larson MD: Infrared pupillometry during uncal herniation. *Journal of neurosurgical anesthesiology*, 14(3): 223-228, 2002.
26. Marshall M, Deo R, Childs C, Ali A: Feasibility and variability of automated pupillometry among stroke patients and healthy participants: Potential implications for clinical practice. *Journal of Neuroscience Nursing*, 51(2): 84-88, 2019.
27. Martínez-Ricarte F, Castro A, Poca M, Sahuquillo J, Expósito L, Arribas M, Aparicio J: Infrared pupillometry. Basic principles and their application in the non-invasive monitoring of neurocritical patients. *Neurología (English Edition)*, 28(1): 41-51, 2013.
28. Matouskova O, Slanar O, Chytil L, Perlik F: Infrared pupilometry as a biomarker of drug effects. *Pharmacology*, 149(2): 66-68, 2010.
29. McNett M, Moran C, Grimm D, Gianakis A: Pupillometry trends in the setting of increased intracranial pressure. *Journal of Neuroscience Nursing*, 50(6): 357-361, 2018.
30. McNett M, Moran C, Janki C, Gianakis A: Correlations between hourly pupillometer readings and intracranial pressure values. *Journal of Neuroscience Nursing*, 49(4): 229-234, 2017. DOI: 10.1097/JNN.0000000000000290.
31. Meeker M, Du R, Bacchetti P, Privitera CM, Larson MD, Holland MC, Manley G: Pupil examination: Validity and clinical utility of an automated pupillometer. *J Neurosci Nurs*, 37(1): 34-40, 2005.
32. Miroz JP, Ben-Hamouda N, Bernini A, Romagnosi F, Bongiovanni F, Roumy A, Kirsch M, Liaudet L, Eckert P, Oddo M: Neurological Pupil index for Early Prognostication After Venous Arterial Extracorporeal Membrane Oxygenation. *Chest Journal*, February, 2020
33. Murillo R, Crucilla C, Schmittner J, Hotchkiss E, Pickworth W: Pupillometry in the detection of concomitant drug use in opioid-maintained patients. *Methods Find Exp Clin Pharmacol*, 26(4): 271-275, 2004.
34. Oddo M, et al.: Quantitative versus standard pupillary light reflex for early prognostication in comatose cardiac arrest patients: An international prospective multicenter double-blinded study. *Intensive Care Medicine*, 44(12): 2102-2111, 2018. DOI: 10.1007/s00134-018-5448-6.
35. Olson DM, Fishel M: The use of automated pupillometry in critical care. *Critical Care Nursing Clinics*, 28(1): 101-107, 2016. DOI: 10.1016/j.cnc.2015.09.003.
36. Olson DM, Stutzman S, Saju C, Wilson M, Zhao W, Aiyagari V: Interrater reliability of pupillary assessments. *Neurocritical care*, 24(2): 251-257, 2016. DOI: 10.1007/s12028-015-0182-1.



37. Olson DM, Stutzman SE, Atem F, Kincaide JD, Ho T-T, Carlisle BA, Aiyagari V: Establishing normative data for pupillometer assessment in neuroscience intensive care: The “end-panic” registry. *Journal of Neuroscience Nursing*, 49(4): 251-254, 2017. DOI: 10.1097/JNN.0000000000000296.
38. Ong C, Hutch M, Barra M, Kim A, Zafar S, Smirnakis S: Effects of osmotic therapy on pupil reactivity: Quantification using pupillometry in critically ill neurologic patients. *Neurocritical care*, 30(2): 307-315, 2019.
39. Osman M, Stutzman SE, Atem F, Olson D, Hicks AD, Ortega-Perez S, Aoun SG, Salem A, Aiyagari V: Correlation of objective pupillometry to midline shift in acute stroke patients. *Journal of Stroke and Cerebrovascular Diseases*, 2019.
40. Papangelou A, Zink EK, Chang W-TW, Frattalone A, Gergen D, Gottschalk A, Geocadin RG: Automated pupillometry and detection of clinical transtentorial brain herniation: A case series. *Military medicine*, 183(1-2): e113-e121, 2018. DOI: 10.1093/milmed/usx018.
41. Patwari PP, Stewart TM, Rand CM, Carroll MS, Kuntz NL, Kenny AS, Brogadir CD, Weese-Mayer DE: Pupillometry in congenital central hypoventilation syndrome (cchs): Quantitative evidence of autonomic nervous system dysregulation. *Pediatric research*, 71(3): 280, 2012.
42. Payen J, Isnardon S, Lavolaine J, Bouzat P, Vinclair M, Francony G. *Pupillometry in anesthesia and critical care*. in *Annales francaises d'anesthesie et de reanimation*. 2012.
43. Riker R, Sawyer M, Fischman V, May T, Lord C, Eldridge A, Seder D: Neurological pupil index and pupillary light reflex by pupillometry predict outcome early after cardiac arrest. *Neurocritical Care*, 2019.
44. Rollins MD, Feiner JR, Lee JM, Shah S, Larson M: Pupillary effects of high-dose opioid quantified with infrared pupillometry. *Anesthesiology: The Journal of the American Society of Anesthesiologists*, 121(5): 1037-1044, 2014.
45. Shoyombo I, Aiyagari V, Stutzman SE, Atem F, Hill M, Figueroa SA, Miller C, Howard A, Olson DM: Understanding the relationship between the neurologic pupil index and constriction velocity values. *Scientific reports*, 8(1): 6992, 2018.
46. Taylor WR, et al.: Quantitative pupillometry, a new technology: Normative data and preliminary observations in patients with acute head injury. *Journal of neurosurgery*, 98(1): 205-213, 2003.
47. Tokuda Y, Nakazato N, Stein G: Pupillary evaluation for differential diagnosis of coma. *Postgraduate medical journal*, 79(927): 49-51, 2003.
48. Witting MD: Validity of simple measurement to diagnose pupillary dilation. *The American journal of emergency medicine*, 23(2): 155-158, 2005.
49. Witting MD, Goyal D: Interrater reliability in pupillary measurement. *Annals of emergency medicine*, 41(6): 832-837, 2003.
50. Zafar SF, Suarez JI: Automated pupillometer for monitoring the critically ill patient: A critical appraisal. *Journal of critical care*, 29(4): 599-603, 2014.
51. Zhao W, Stutzman S, DaiWai O, Saju C, Wilson M, Aiyagari V: Inter-device reliability of the npi-100 pupillometer. *Journal of Clinical Neuroscience*, 33: 79-82, 2016.