

Park Lab | Program for Hospital and Intensive Care Informatics

Select Publications

Listing of relevant publications. For More Complete Bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/1jC6vxijdi-56/bibliography/public/>

2023

1. Foreman B, Kapinos G, Wainwright M, Ngwenya LB, O'Phelan KH, LaRovere K, Kirschen MP, Appavu B, Lazaridis C, Alkhachroum A, Maciel CB, Amorim E, Chang JJ, Gilmore EJ, Rosenthal ES, Park S. Practice Standards for the Use of Multimodality Neuromonitoring: A Delphi Consensus Process. *Accepted to Critical Care Medicine, in Press*.
2. Kwon SB, Megjhani M, Nametz D, Agarwal S, Park S. Heart Rate and Heart Rate Variability as a Prognosticating Feature for Functional Outcome after Cardiac Arrest: A Scoping Review. *Accepted to Resuscitation Plus, in Press*.
3. Weinerman B, Cheung E, Park S. Risk Factors and Post-Operative Management for the Bidirectional Glenn: A Literature Review. *Accepted to Current Pediatrics Reports, in Press*.
4. Megjhani M, Terilli K, Nametz D, Kwon SB, Weinerman B, Velazquez A, Ghoshal S, Roh D, Agarwal S, Connolly ES Jr, Claassen J, Park S. Automatic Identification of Intracranial Pressure Waveform during External Ventricular Drain Clamping: Segmentation via Wavelet Analysis. *Physiol Meas*. 2023 Jul 4;44(6). PMID: 37327793.
5. Ranard BL, Chow CC, Megjhani M, Asgari S, Park S*, Vodovotz Y* (*co-senior authors). A Mathematical Model of SARS-CoV-2 Immunity Predicts Paxlovid Rebound. *J Med Virol*. 2023 Jun;95(6):e28854. PMID:37287404. PMC10254150.
6. Megjhani M, Terilli K, Weinerman B, Nametz D, Kwon SB, Velazquez A, Ghoshal S, Roh DJ, Agarwal S, Connolly Jr ES, Claassen J, Park S. A Deep Learning Framework for Deriving Non-Invasive Intracranial Pressure Waveforms from Transcranial Doppler. *Ann Neurol*. 2023 Jul;94(1):196-202. Epub 2023 Jun 1. PMID: 37189299. PMC10330695.
7. Kastenholz N, Megjhani M, Conzen-Dilger C, Albanna W, Veldeman M, Nametz D, Kwon SB, Schulze-Steinen H, Ridwan H, Clusmann H, Schubert GA, Park S, Weiss M. The Oxygen Reactivity Index indicates disturbed local perfusion regulation after aneurysmal subarachnoid hemorrhage: an observational cohort study. *Crit Care*. 2023 Jun 13;27(1):235. PMID: 37312192, PMC10265851.
8. Park S*, Robba C*, Sonnevile R.* (*equally contributing co-authors) Neuromonitoring for prognostication under ECMO. *Intensive Care Med*. 2023 Apr;49(4):451-454. Epub 2023 Feb 15. PMID: 36790513.

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1. Tas J, Czosnyka M, van der Horst ICC, Park S, van Heugten C, Sekhon M, Robba C, Menon DK, Zeiler FA, Aries MJH. Cerebral multimodality monitoring in adult neurocritical care patients with acute brain injury: a narrative review. *Front Physiol*. 2022 Dec 1;13:1071161. eCollection 2022. PMID: 36531179. PMCID9751622.

2. Megjhani M*, Weiss M*, Ford J, Terilli K, Kastenholz N, Nametz D, Kwon SB, Velazquez A, Agarwal S, Roh DJ, Conzen-Dilger C, Albanna W, Veldeman M, Connolly Jr ES, Claassen J, Aries M, Schubert GA, Park S. Optimal Cerebral Perfusion Pressure and Brain Tissue Oxygenation in Aneurysmal Subarachnoid Hemorrhage. *co-first authors (equal contribution). Stroke. 2023 Jan;54(1):189-197. Epub 2022 Oct 31. PMID: 36314124.
3. Mainali S, Park S. Artificial Intelligence and Big Data Science in Neurocritical Care. Crit Care Clin. 2023 Jan;39(1):235-242. Epub 2022 Oct 9. PMID: 36333034.
4. Gomez LA, Shen Q, Doyle K, Vrosgou A, Velazquez A, Megjhani M, Ghoshal S, Roh D, Agarwal S, Park S, Claassen J, Kleinberg S. Classification of Level of Consciousness in a Neurological ICU using Physiologic Data. Neurocrit Care. 2023 Feb;38(1):118-128. Epub 2022 Sep 15. PMID: 36109448.
5. Claassen J, Park S. Spontaneous Subarachnoid Haemorrhage. Lancet. 2022 Sep 10;400(100355):846-862. Epub 2022 Aug 16. PMID: 35985353.
6. Ranard BL, Megjhani M, Terilli K, Yarmohammadi H, Ausiello J, Park S. Heart rate variability and adrenal size provide clues to sudden cardiac death in hospitalized COVID-19 patients. J Crit Care. 2022 Jul 18;71:154114. PMID: 35863211 PMCID: PMC9291038.
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12. Cao H, Finer J, Megjhani M, Nametz DC, Lorenzi V, Mamykina L, Meyers R, Rossetti SC, Park S. Machine Learning Model Deployment Using Real-Time Physiological Monitoring: Use Case of Detecting Delayed Cerebral Ischemia. 2022 IEEE Healthcare Innovations and Point of Care Technologies (HI-POCT), 2022, pp 42-45, doi:10.1109/HI-POCT54491.2022.9744076.

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