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SPECIALITY

- Stroke
- Intensive Care
- Neurocritical Care
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CERTIFICATIONS

- American Board of Psychiatry and Neurology, Neurology
- American Board of Psychiatry and Neurology, Vascular Neurology
- United Council for Neurologic Subspecialties, Neurocritical Care

EDUCATION

- M.D., Wayne State University School of Medicine, Detroit, Mich.
- Internship, Internal Medicine, Henry Ford Health Systems, Detroit, Mich.
- Residency, Neurology, University Hospitals of Cleveland, Ohio
- Fellowship, Neurocritical Care and Vascular Neurology, University Hospitals of Cleveland, Ohio
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JOURNAL PUBLICATIONS

1. Laurie SS, Greenwald SH, Marshall-Goebel K, Pardon LP, Gupta A, Lee SMC, et al. Optic disc edema and chorioretinal folds develop during strict 6 degrees head-down tilt bed rest with or without artificial gravity. *Physiol Rep*. 2021;9(15):e14977. PMID: 34355874.
2. Torrealba-Acosta G, Martin JC, Huttenbach Y, Garcia CR, Sohail MR, Agarwal SK, et al. Acute encephalitis, myoclonus and Sweet syndrome after mRNA-1273 vaccine. *BMJ Case Rep*. 2021;14(7):. PMID: 34312136.
3. Bershada EM, Marshall-Goebel K, Damani R. In reply: Brain physiological response and adaptation during spaceflight. *Neurosurgery*. 2020;86(2):E250-E251. PMID: 31792527.
4. Escamilla-Ocanas CE, Venkatasubba Rao CP, Bershada E, Damani R. Temporal relationship between hyponatremia and development of cerebral vasospasm in aneurysmal subarachnoid hemorrhage patients: A retrospective observational study. *J Stroke Cerebrovasc Dis*. 2020;:104789. PMID: 32205028.
5. Salazar P, Di Napoli M, Jafari M, Jafarli A, Ziai W, Petersen A, et al. Exploration of multiparameter hematoma 3D image analysis for predicting outcome after intracerebral hemorrhage. *Neurocrit Care*. 2020;32(2):539-49. PMID: 31359310.
6. Jafari M, Di Napoli M, Datta YH, Bershada EM, Divani AA. The role of serum calcium level in intracerebral hemorrhage hematoma expansion: Is there any? *Neurocrit Care*. 2019;31(1):188-95. PMID: 29951959.
7. Jafari M, Di Napoli M, Lattanzi S, Mayer SA, Bachour S, Bershada EM, et al. Serum magnesium level and hematoma expansion in patients with intracerebral hemorrhage. *J Neurol Sci*. 2019;398:39-44. PMID: 30682519.
8. Marshall-Goebel K, Damani R, Bershada EM. Brain physiological response and adaptation during spaceflight. *Neurosurgery*. 2019;85(5):E815-E821. PMID: 31215633.
9. Marshall-Goebel K, Damani R, Bershada EM. In reply: Brain physiological response and adaptation during spaceflight. *Neurosurgery*. 2019;85(6):E1138-E1139. PMID: 31541241.
10. Basner M, Nasrini J, Hermsillo E, McGuire S, Dinges DF, Moore TM, et al. Effects of -12 degrees head-down tilt with and without elevated levels of CO2 on cognitive performance: The SPACECOT study. *J Appl Physiol* (1985). 2018;124(3):750-60. PMID: 29357516.
11. Hamarat Y, Bartusis L, Deimantavicius M, Siaudvytyte L, Januleviciene I, Ragauskas A, et al. Graphical and statistical analyses of the oculocardiac reflex during a non-invasive intracranial pressure measurement. *PLoS One*. 2018;13(4):e0196155. PMID: 29672564.
12. Hevesi M, Bershada EM, Jafari M, Mayer SA, Selim M, Suarez JI, et al. Untreated hypertension as predictor of in-hospital mortality in intracerebral hemorrhage: A multi-center study. *J Crit Care*. 2018;43:235-9. PMID: 28934706.
13. Mahmoudi J, Majdi A, Lattanzi S, Di Napoli M, Bershada EM, Rodrigues CMP, et al. Imidazoline receptor agonists for managing hypertension may hold promise for treatment of intracerebral hemorrhage. *Curr Mol Med*. 2018;18(4):241-51. PMID: 30259814.
14. Marshall-Goebel K, Stevens B, Rao CV, Suarez JI, Calvillo E, Arbeille P, et al. Internal jugular vein volume during head-down tilt and carbon dioxide exposure in the SPACECOT study. *Aerosp Med Hum Perform*. 2018;89(4):351-6. PMID: 29562964.
15. Venkatasubba Rao CP, Bershada EM, Calvillo E, Maldonado N, Damani R, Mandayam S, et al. Real-time noninvasive monitoring of intracranial fluid shifts during dialysis using volumetric integral phase-shift spectroscopy (VIPS): a proof-of-concept study. *Neurocrit Care*. 2018;28(1):117-26. PMID: 28547320.
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19. Marshall-Goebel K, Mulder E, Bershada E, Laing C, Eklund A, Malm J, et al. Intracranial and intraocular pressure during various degrees of head-down tilt. *Aerosp Med Hum Perform*. 2017;88(1):10-6. PMID: 28061916.
20. Marshall-Goebel K, Mulder E, Donoviel D, Strangman G, Suarez JI, Venkatasubba Rao C, et al. An international collaboration studying the physiological and anatomical cerebral effects of carbon dioxide during head-down tilt bed rest: The SPACECOT study. *J Appl Physiol* (1985). 2017;122(6):1398-405. PMID: 28235859.
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23. Suarez JI, Martin RH, Hohmann SF, Calvillo E, Bershada EM, Venkatasubba Rao CP, et al. Human Albumin Use

- in Adults in U.S. Academic Medical Centers. *Crit Care Med.* 2017;45(1):e16-e22. PMID: 27632679.
24. Yin EB, Tan B, Nguyen T, Salazar M, Putney K, Gupta P, et al. Safety and effectiveness of factor viii inhibitor bypassing activity (FEIBA) and fresh frozen plasma in oral anticoagulant-associated intracranial hemorrhage: a retrospective analysis. *Neurocrit Care.* 2017;27(1):51-9. PMID: 28243997.
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 40. Zaidat OO, Fitzsimmons BF, Woodward BK, Wang Z, Killer-Oberpfalzer M, Wakhloo A, et al. Effect of a balloon-expandable intracranial stent vs medical therapy on risk of stroke in patients with symptomatic intracranial stenosis: The VISSIT randomized clinical trial. *Jama.* 2015;313(12):1240-8. PMID: 25803346.
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24378920.

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53. Suarez JI, Martin RH, Calvillo E, Dillon C, Bershada EM, Macdonald RL, et al. The Albumin in Subarachnoid Hemorrhage (ALISAH) multicenter pilot clinical trial: Safety and neurologic outcomes. *Stroke.* 2012;43(3):683-90. PMID: 22267829.
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55. Faridar A, Bershada EM, Emiru T, Iazzo PA, Suarez JI, Divani AA. Therapeutic hypothermia in stroke and traumatic brain injury. *Front Neurol.* 2011;2:80. PMID: 22207862.
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57. Bershada EM, Suarez JI. Prothrombin complex concentrates for oral anticoagulant therapy-related intracranial hemorrhage: A review of the literature. *Neurocrit Care.* 2010;12(3):403-13. PMID: 19967567.
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61. Bershada EM, Humphreis WE, 3rd, Suarez JI. Intracranial hypertension. *Semin Neurol.* 2008;28(5):690-702. PMID: 19115175.
62. Bershada EM, Suarez JI. Recent advances in intra-arterial thrombolysis. *Ann Indian Acad Neurol.* 2008;11:S30-8.
63. Feen ES, Bershada EM, Suarez JI. Status epilepticus. *South Med J.* 2008;101(4):400-6. PMID: 18360338.
64. Knight RA, Nagaraja TN, Ewing JR, Nagesh V, Whitton PA, Bershada E, et al. Quantitation and localization of blood-to-brain influx by magnetic resonance imaging and quantitative autoradiography in a model of transient focal ischemia. *Magn Reson Med.* 2005;54(4):813-21. PMID: 16142715.
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BOOKS and VOLUMES

1. Suarez JI, Bershada EM, Rao CPV, editors. *Critical care neurology and neurosurgery.* 2nd ed. Totowa (NJ): Humana Press; 2021. (in press). p. 1-700.

BOOK CHAPTERS and OTHER PUBLICATIONS

1. Bershada E, Suarez JI. Management of the acute ischemic stroke patient beyond 24 hours. In: Torbey MT, Selim MH, editors. *The stroke book.* 2nd ed. New York: Cambridge University Press; 2013. p. 185-203.
2. Bershada EM, Suarez JI. Aneurysmal subarachnoid hemorrhage. In: Mohr JP, Wolf PA, Grotta JC, Moskowitz MA, Mayberg M, von Kummer R, editors. *Stroke: Pathophysiology, diagnosis, and management.* 5th ed. Philadelphia: Elsevier Saunders; 2011. p. 589-615.
3. Bershada EM, Suarez JI. Subarachnoid hemorrhage. In: Bhardwaj A, Mirski MA, editors. *Handbook of neurocritical care.* 2nd ed. New York: Springer; 2010. p. 371-388.

4. Bershad EM, Suarez JI. Neurology. In: Bambakidis NC, Megerian CA, Spetzler RE, editors. Surgery of the cerebellopontine angle. Shelton, CT: People's Medical Publishing House; 2009. p. 45-52.
5. Bershad EM. Acalculia. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
6. Bershad EM. Agnosia. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
7. Bershad EM. Alexia. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
8. Bershad EM. Balint's syndrome. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
9. Bershad EM. Idiopathic intracranial hypertension. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
10. Bershad EM. Moya moya. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
11. Bershad EM. Nutritional deficiency syndromes. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
12. Bershad EM. Optic nerve. In: Zaidat OO, Lerner AJ, editors. The little black book of neurology. Mobile medicine series. 5th ed. Philadelphia: Saunders (Elsevier); 2008.
13. Bershad E, Suarez JI. Ischemic stroke in the first 24 hr. In: Torbey MT, Selim MH, editors. The stroke book. New York: Cambridge University Press; 2007. p. 167-187.
14. Bershad EM, Suarez JI. Avoid using incentive spirometry in myasthenia gravis patients; use intrapulmonary percussive ventilation or flutter valve instead. In: Marcucci L, Martinez EA, Haut ER, Slonim AD, Suarez JI, editors. Avoiding common ICU errors. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2007. p. 511-512.
15. Bershad EM, Suarez JI. Have a low threshold for obtaining an initial and repeat head compute tomography scan after subarachnoid hemorrhage. In: Marcucci L, Martinez EA, Haut ER, Slonim AD, Suarez JI, editors. Avoiding common ICU errors. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2007. p. 482-485.
16. Bershad EM, Suarez JI. Ischemic stroke beyond the first 24 hours. In: Torbey MT, Selim MH, editors. The stroke book. New York: Cambridge University Press; 2007. p. 167-187.
17. Bershad EM, Suarez JI. Know the alternatives routes of administration of cardiopulmonary resuscitation medications. In: Marcucci L, Martinez EA, Haut ER, Slonim AD, Suarez JI, editors. Avoiding common ICU errors. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2007. p. 97-98.
18. Bershad EM, Suarez JI. Obtain a head computed tomography scan and lumbar puncture in patients with human immunodeficiency virus or acquired immunodeficiency syndrome and new-onset mental status changes. In: Marcucci L, Martinez EA, Haut ER, Slonim AD, Suarez JI, editors. Avoiding common ICU errors. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2007. p. 479-481.
19. Bershad EM, Suarez JI. Remember that failure to recognize pituitary apoplexy can result in a neurologic catastrophe. In: Marcucci L, Martinez EA, Haut ER, Slonim AD, Suarez JI, editors. Avoiding common ICU errors. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins; 2007. p. 495-497.

POSTER and PLATFORM PRESENTATIONS

1. Torrealba-Acosta G, Escamilla-Ocanas C, Mandava P, Bershad E, Hirzallah M, Venkatasubba Rao C, et al. Implementation of systematic safety checklists in a neurointensive care unit: A quality and improvement study. *Neurology*. 2022;98(18 suppl):. [Oral Presentation]
2. Bershad E, Hirzallah M, Damani R, Venkatasubba Rao C, Urquieta E, Wu J, et al. CADRE: Commercial astronaut data repository. Presented at the National Aeronautics and Space Administration (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022). [Oral Presentation]
3. Bershad E, Marshall-Goebel K, Laurie S, Greenwald S, Pardon L, Macias B, et al. SPACE-CENT: Studying the physiological and anatomical cerebral effects of centrifugation and head down tile bed rest: 2021 update. Presented at the National Aeronautics and Space Administration (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022).
4. Fall D, Lee A, Bershad E, Kramer L, Mader T, Clark J, et al. A review of optic nerve sheath diameter use in spaceflight and analogues with qualitative analysis and future directions. Presented at the National Aeronautics and Space Administration (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022).
5. Hirzallah M, Urquieta E, Wu J, Basner M, Shelhamer M, Sargsyan A, et al. Governance and institutional review board challenges for the Inspiration4 mission's crew health research program (MESH -i4 and CADRE). Presented at the National Aeronautics and Space Administration (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022). [Oral Presentation]
6. Thoolen S, Zhang Q, Ivkovic V, Voss S, Moestl S, Frett T, et al. BRAIN-SANS: Brain-related assessments for investigating the neurophysiology of SANS. Presented at the National Aeronautics and Space Administration

- (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022). [Oral Presentation]
7. Williams M, Bershada E, Levine B, Clark J, Furman D, Hu X, et al. Zero G and ICP: Invasive and noninvasive ICP monitoring and SANS biomarker identification. Presented at the National Aeronautics and Space Administration (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022).
 8. Zwart S, Macias B, Melin M, Bershada E, Young M, Smith S. Exploring endothelial function risk factors and optic disc edema changes during strict 6° head-down tilt bed rest. Presented at the National Aeronautics and Space Administration (NASA), Virtual 2022 Human Research Program Investigators' Workshop (Feb. 7-10, 2022).
 9. Cuesta Isabel IJ, Damani R, Bershada E, Venkatasubba Rao CP, Hirzallah M, Desai A, et al. The use of point of care compression ultrasound as a screening tool for lower extremity deep vein thrombosis in the neurocritical care unit. *Neurocrit Care*. 2021;35:S409.
 10. Greenwald SH, Laurie S, Marshall-Goebel K, Pardon LP, Lee SMC, Stern C, et al. Optic disc edema and chorioretinal folds develop during strict head-down tilt bedrest with and without artificial gravity. *Invest Ophthalmol Vis Sci*. 2021;62(8):2276.
 11. Hafeez MU, Siddiqui K, Ahmad A, Bershada E, Hirzallah MI, Venkatasubba Rao CP, et al. Adverse neurological events amongst patients undergoing Extracorporeal Membrane Oxygenation (ECMO). *Neurology*. 2021;96(15 Suppl):2600.
 12. Siddiqui K, Hafeez MU, Ahmad A, Bershada E, Hirzallah MI, Venkatasubba Rao CP, et al. EEG findings in patients undergoing extracorporeal membrane oxygenation (ECMO). *Neurology*. 2021;96(15 Suppl):2726.
 13. Bershada EM, Marshall-Goebel K, Laurie SS, Greenwald S, Pardon L, Macias BR, et al. SPACE-CENT: Studying the physiological and anatomical effects of centrifugation and head down tilt — Updated results. Presented at the National Aeronautics and Space Administration (NASA), Virtual 2021 Human Research Program Investigators' Workshop (Feb. 1-3, 2021). [Oral Presentation]
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