

Neerav Patel, MD

Hometown: Baltimore, MD

Undergrad: University of Maryland, College Park

Surgical Specialty Interest: MIS, Vascular

Hobbies: cooking, skiing, sailing, brunch, working out

Publications:

Patel N, Abdou H, Edwards J, Elansary NN, Poe K, Richmond MJ, Madurska MJ, Rasmussen TE, Morrison JJ. Measuring Cardiac Output in a Swine Model. *J Vis Exp*. 2021 May 11;(171). doi: 10.3791/62333. PMID: 34057452.

Patel N, Harfouche M, Stonko DP, Elansary N, Scalea TM, Morrison JJ. Factors Associated With Increased Mortality in Severe Abdominopelvic Injury. *Shock*. 2022 Feb 1;57(2):175-180. doi: 10.1097/SHK.0000000000001851. PMID: 34468423.

Edwards J, Abdou H, Patel N, Madurska MJ, Poe K, Bonin JE, Richmond MJ, Rasmussen TE, Morrison JJ. The functional vascular anatomy of the swine for research. *Vascular*. 2021 Apr 4;1708538121996500. doi: 10.1177/1708538121996500. Epub ahead of print. PMID: 33813971.

Abdou H, Madurska MJ, Edwards J, Patel N, Richmond MJ, Galvagno S, Kundi R, DuBose JJ, Scalea TM, Morrison JJ. A technique for open chest selective aortic arch perfusion. *J Trauma Acute Care Surg*. 2021 Jun 1;90(6):e158-e162. doi: 10.1097/TA.0000000000003092. PMID: 33496546.

Abdou H, Patel N, Edwards J, Richmond MJ, Elansary N, Du J, Poliner D, Morrison JJ. Development of a Swine Polytrauma Model in the Absence of Fluid Resuscitation. *J Spec Oper Med*. 2021 Winter;21(4):77-82. PMID: 34969131.

Abdou H, Du J, Harfouche MN, Patel N, Edwards J, Richmond M, Elansary N, Morrison JJ. Development of an Endovascular Model of Pelvic Hemorrhage Using Volumetric Computed Tomography Validation. *J Endovasc Ther*. 2021 Aug;28(4):614-622. doi: 10.1177/15266028211016422. Epub 2021 May 21. PMID: 34018880.

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Edwards J, Abdou H, Madurska MJ, Patel N, Richmond MJ, Poliner D, White JM, Rasmussen TE, Scalea TM, Morrison JJ. Selective aortic arch perfusion versus open cardiac massage in exsanguination cardiac arrest: A comparison of coronary pressure dynamics in swine. *Resuscitation*. 2021 Apr 14;163:1-5. doi: 10.1016/j.resuscitation.2021.04.003. Epub ahead of print. PMID: 33857557.

Lang E, Abdou H, Edwards J, Patel N, Morrison JJ. State-of-the-Art Review: Sex Hormone Therapy in Trauma-Hemorrhage. *Shock*. 2022 Mar 1;57(3):317-326. doi: 10.1097/SHK.0000000000001871. PMID: 34618728.

Abdou H, Morrison JJ, Edwards J, Patel N, Lang E, Richmond MJ, Elansary N, Gopalakrishnan M, Berman J, Hubbard WJ, Scalea TM, Chaudry IH. An estrogen (17 α -ethinyl estradiol-3-sulfate) reduces mortality in a swine model of multiple injuries and hemorrhagic shock. *J Trauma Acute Care Surg*. 2022 Jan 1;92(1):57-64. doi: 10.1097/TA.0000000000003434. PMID: 34670961.

Edwards J, Abdou H, Patel N, Lang E, Richmond MJ, Rasmussen TE, Scalea TM, Morrison JJ. Open chest selective aortic arch perfusion vs open cardiac massage as a means of perfusion during in exsanguination cardiac arrest: a comparison of coronary hemodynamics in swine. *Eur J Trauma Emerg Surg*. 2022 Jan 4. doi: 10.1007/s00068-021-01810-0. Epub ahead of print. PMID: 34984495.

Endicott KM, Zettervall SL, Rettig RL, Patel N, Buckley L, Sidawy A, Knoll S, Vaziri K. Use of Structured Presentation Formatting and NSQIP Guidelines Improves Quality of Surgical Morbidity and Mortality Conference. *J Surg Res*. 2019 Jan;233:118-123. doi: 10.1016/j.jss.2018.07.059. Epub 2018 Aug 18. PMID: 30502237.

Saadin K, Burke JM, Patel NP, Zubajlo RE, White IM. Enrichment of tumor-initiating breast cancer cells within a mammosphere-culture microdevice. *Biomed Microdevices*. 2013 Aug;15(4):645-655. doi: 10.1007/s10544-013-9755-y. PMID: 23515914.