



Department of Surgery

UNIVERSITY OF WISCONSIN

SCHOOL OF MEDICINE AND PUBLIC HEALTH

MARCH 2025 PUBLICATIONS

Congratulations to all department members whose research was published in March 2025!
The following list is organized by division within the Department of Surgery.

CROSS-DIVISION COLLABORATIONS

Small-diameter artery grafts engineered from pluripotent stem cells maintain 100% patency in an allogeneic rhesus macaque model.

Zhang J, Tabima DM, Vereide D, Zeng W, Albano NJ, Lyon S, Nicksic PJ, Shaffrey EC, George RE, Probasco MD, Perrin ES, Xu Y, Brown ME, Stewart R, Chesler NC, Turng LS, Poore SO, Slukvin II, Thomson JA, Maufort JP.

Cell Rep Med. 2025 Mar 18;6(3):102002. doi: 10.1016/j.xcrm.2025.102002. Epub 2025 Mar 10.

PMID: [40068684](#); PMCID: PMC11970380.

Variable management of pediatric blunt renal trauma: A multicenter retrospective cohort study.

Mannava SV, Muraru R, Raymond J, Markel TA, Bergus KC, Flynn-O'Brien K, Hartman HA, Speck KE, St Peter SD, Ayala SA, Callier K, Carter S, Elman M, Foley D, Goldstein SD, Koppera S, Kotagal M, Lal DR, Leys C, Marquart JP, Mak GZ, Moody S, Pitt JB, Santucci NM, Shah NR, Stellon M, Thakkar R, Wright T, Yeh A, Landman MP; Midwest Pediatric Surgery Consortium (MWPSC).

J Trauma Acute Care Surg. 2025 Mar 20. doi: 10.1097/TA.0000000000004604. Epub ahead of print.

PMID: [40107964](#).

ACUTE CARE AND REGIONAL GENERAL SURGERY

Contemporary management of adult splenic injuries: What you need to know.

Werner NL, Zarzaur BL.

J Trauma Acute Care Surg. 2025 Mar 25. doi: 10.1097/TA.0000000000004570. Epub ahead of print.

PMID: [40128168](#).

Enrichment of microbial DNA in plasma to improve pathogen detection in sepsis: A pilot study.

Dominguez EG, McDonald BR, Zhang H, Stephens MD, Dietmann EC, Nedden M, Byington N, Thompson S, Junak M, Pepperell CS, Kisat MT.

Clin Chem. 2025 Mar 11:hvacf011. doi: 10.1093/clinchem/hvacf011. Epub ahead of print.

PMID: [40067770](#).

Kidney organ injury scaling: 2025 update.

Keihani S, Tominaga GT, Matta R, Gross JA, Cribari C, Kaups KL, Crandall M, Kozar RA, Werner NL, Zarzaur BL, Coburn M, Myers JB.
J Trauma Acute Care Surg. 2025 Mar 1;98(3):448-451. doi: 10.1097/TA.0000000000004509. Epub 2025 Jan 20.
PMID: [39836096](#).

Leveraging existing infrastructure to answer clinically important questions in trauma: Registry-based randomized clinical trials.

Ghneim M, Zarzaur BL, Murphy PB.
Trauma Surg Acute Care Open. 2025 Mar 31;10(1):e001769. doi: 10.1136/tsaco-2025-001769.
PMID: [40176782](#); PMCID: PMC11962796.

Longitudinal evaluation of the HABC monitor among trauma survivors.

Alhader A, Perkins A, Monahan PO, Zarzaur BL, Barboi C, Boustani MA.
Clin Interv Aging. 2025 Mar 4;20:245-258. doi: 10.2147/CIA.S492210.
PMID: [40060274](#); PMCID: PMC11890015.

Targeted normoxemia and supplemental oxygen-free days in critically injured adults: A stepped-wedge cluster randomized clinical trial.

Douin DJ, Rice JD, Anderson EL, Jackson CL, Cheng AC, Xiao M, Cwik J, Beaty LE, Wild JL, Daya MR, Doshi PB, Eastham SC, Goodman MD, Gunn SR, Haukoos JS, Hudson JA, Jansen JO, McMullan JT, Rizzo JA, Schreiber MA, Self WH, Semler MW, Steinwand A, Werner N, Bebart VS, Schauer SG, Ginde AA; Strategy to Avoid Excessive Oxygen (SAVE-O2) Investigators.
JAMA Netw Open. 2025 Mar 3;8(3):e252093. doi: 10.1001/jamanetworkopen.2025.2093.
PMID: [40163121](#).

The role of markedly elevated cyst carcinoembryonic antigen in risk-stratifying pancreatic cysts.

Bloomfield GC, Yusin G, Radkani P, Namgoong J, Haddad NG, Chalhoub W, Fishbein TM, Winslow ER.
J Surg Res. 2025 Mar;307:189-196. doi: 10.1016/j.jss.2025.01.027. Epub 2025 Mar 7.
PMID: [40056782](#).

CARDIOTHORACIC SURGERY

Standardized temporary atrial epicardial wire locations lead to enhanced atrial signal identification.

Atlas N, Zhang X, Torgeson JN, Hermesen J, Gibson WJ, Harmon AM, Von Bergen NH.
J Intensive Care Med. 2025 Mar;40(3):263-269. doi: 10.1177/08850666241279229. Epub 2024 Sep 19.
PMID: [39295470](#).

COLORECTAL SURGERY

Barriers to colonoscopy quality measurement in rural Wisconsin.

Schumacher JR, Weiss JM, Ties JS, Kitowski NJ, Levin JP, Gigot M, May JC, Pung DR, Lawson EH.
Dis Colon Rectum. 2025 Mar 1;68(3):373-379. doi: 10.1097/DCR.0000000000003528. Epub 2024 Nov 12.
PMID: [39530524](#); PMCID: PMC11842205.

ENDOCRINE SURGERY

Generative artificial intelligence in academic surgery: Ethical implications and transformative potential.

Robinson JR, Stey A, Schneider DF, Kothari AN, Lindeman B, Kaafarani HM, Haines KL.
J Surg Res. 2025 Mar;307:212-220. doi: 10.1016/j.jss.2024.12.059. Epub 2025 Feb 10.
PMID: [39934059](#).

MINIMALLY INVASIVE SURGERY

Proton density fat fraction for diagnosis of metabolic dysfunction associated steatotic liver disease.

Panagiotopoulos N, Wolfson T, Harris DT, Batakis D, Agni R, Ceriani L, Covarrubias Y, Hamilton G, Middleton MS, Martins VF, Gamst AC, Oechtering TH, Sappenfield R, Horgan S, Grunvald E, Funk LM, Jacobsen GR, Lidor AO, Goodman JA, Khoury SB, Sirlin CB, Reeder SB.
Hepatology. 2025 Mar 25. doi: 10.1097/HEP.0000000000001318. Epub ahead of print.
PMID: [40132140](#).

The effect of a surgeon communication strategy on treatment preference for thyroid cancer: A randomized trial.

Jensen CB, Sinco B, Saucke MC, Bushaw KJ, Antunez AG, Voils CI, Pitt SC.
Med Decis Making. 2025 May;45(4):426-436. doi: 10.1177/0272989X251325837. Epub 2025 Mar 27.
PMID: [40145501](#); PMCID: PMC11999764.

Trends in and predictors of patient pharmacogenomic test uptake in a national health care system.

Silva A, Voora D, Wu RR, Bartle B, Chanfreau-Coffinier C, Hung A, Voils CI.
Genet Med. 2025 Mar;27(3):101308. doi: 10.1016/j.gim.2024.101308. Epub 2024 Oct 29.
PMID: [39484796](#).

OTOLARYNGOLOGY-HEAD & NECK SURGERY

A unique presentation of multicentric myofibromatosis in the masseter muscle of a pediatric patient.

Padilla EP, Voelz K, Kille T.
Ear Nose Throat J. 2025 Mar;104(1_suppl):153S-157S. doi: 10.1177/01455613221125933. Epub 2022 Sep 9.
PMID: [36085035](#).

Characterizing the cellular constituents of proximal airway disease in granulomatosis with polyangiitis.

Ye W, Clark E, Talatala E, Davis R, Ramirez-Solano M, Sheng Q, Yang J, Collins S, Hillel A, Gelbard A.
Otolaryngol Head Neck Surg. 2025 Mar 10. doi: 10.1002/ohn.1197. Epub ahead of print.
PMID: [40062629](#).

Evaluating adverse outcomes after myringotomy or tube placement in head and neck cancer.

Kuppusamy K, Yang CY, Wong K, Bigelow DC, Ruckenstein MJ, Eliades SJ, Brant JA, Hwa T.
Otolaryngol Head Neck Surg. 2025 Mar 19. doi: 10.1002/ohn.1186. Epub ahead of print.

PMID: [40105435](#).

Optimizing face validity and clinical relevance of a mathematical population cancer epidemiology model using a novel advisory group approach.

Davies L, Fernandes-Taylor S, Arroyo N, Zhang Y, Alagoz O, Francis DO.

Med Decis Making. 2025 May;45(4):385-398. doi: 10.1177/0272989X251327595. Epub 2025 Mar 31.

PMID: [40165387](#).

Sensitivity and specificity of the Yale Swallow Protocol in recently extubated patients.

Marvin S, Thibeault S, Ehlenbach W.

Am J Speech Lang Pathol. 2025 Mar 10;34(2):458-468. doi: 10.1044/2024_AJSLP-23-00449. Epub 2025 Jan 27.

PMID: [39869124](#).

The role of ultrasonic vocalizations in rat laryngological investigations.

Shembel AC, Johnson AM, Ciucci MR, Lunaris CL, Morrison RA, Rudisch DM.

Physiol Behav. 2025 May 15;294:114887. doi: 10.1016/j.physbeh.2025.114887. Epub 2025 Mar 19.

PMID: [40118131](#).

Third Proceedings of The North American Airway Collaborative (NoAAC): Consensus statement on trial design for airway stenosis.

Davis RJ, Akst LM, Allen CT, Battafarano RJ, Born HL, Bryson PC, Clary MS, Crosby T, Dhillon VK, Dion G, Kavookjian H, Leahy KP, Lina I, Mirza N, Morrison RJ, Motz KM, Nelson RC, Preciado D, Sandu K, Spiegel JR, Walsh J, Hillel AT, Gelbard A.

JAMA Otolaryngol Head Neck Surg. 2025 Mar 1;151(3):263-267. doi: 10.1001/jamaoto.2024.4963.

PMID: [39847385](#).

Thyroid malignancies with thymic differentiation: Outcomes of rare SETTLE and CASTLE tumors.

Tapescu I, Kohler A, Sangal NR, Brant JA, Brody RM, Chao T, Carey RM.

Head Neck. 2025 Mar;47(3):899-905. doi: 10.1002/hed.27969. Epub 2024 Nov 4.

PMID: [39497331](#); PMCID: PMC11816565.

PEDIATRIC SURGERY

What pediatric palliative care offers to pediatric surgeons.

Halix SJ, Porter AS, Robbins AJ, VanHouwelingen L, Antiel RM, Le HD, Baertschiger RM, Cameron DB.

J Pediatr Surg. 2025 Mar;60(3):162127. doi: 10.1016/j.jpedsurg.2024.162127. Epub 2024 Dec 27.

PMID: [39755004](#).

PLASTIC SURGERY

Assessing readability of patient education materials on adult-acquired buried penis.

Thornton SM, Orgun D, Bay CC, Seitz AJ, Poore SO.

Ann Plast Surg. 2025 Mar 1;94(3):269-272. doi: 10.1097/SAP.0000000000004229. Epub 2025 Jan 27.

PMID: [39874550](#).

The anatomy of an employment contract.

Fine KS, Attaluri P, Wirth PJ, Shaffrey EC, Rao VK.

Plast Reconstr Surg Glob Open. 2025 Mar 18;13(3):e6635. doi: 10.1097/GOX.0000000000006635. PMID: [40104382](#); PMCID: PMC11918790.

Thirty-eight-year follow-up after multiple toe-to-hand transfers.

Carbullido MK, Zona EE, Thornton SM, Attaluri P, Wirth PJ, Shaffrey EC, Rao VK.
J Hand Surg Glob Online. 2024 Dec 19;7(2):242-245. doi: 10.1016/j.jhsg.2024.11.012.
PMID: [40182883](#); PMCID: PMC11962960.

SURGICAL ONCOLOGY

Commission on Cancer center performance with the new breast cancer quality measures: A review of historical data.

Fefferman ML, Thompson DM, Wilke LG, Hwang S, Bleicher R, Freedman LM, Meisel JL, Kuchta K, Yao K.
Ann Surg Oncol. 2025 Mar;32(3):2045-2055. doi: 10.1245/s10434-024-16594-x. Epub 2024 Dec 10.
PMID: [39658720](#).

Efficient nonviral integration of large transgenes into human T cells using Cas9-CLIPT.

Tommasi A, Cappabianca D, Bugel M, Gimse K, Lund-Peterson K, Shrestha H, Arutyunov D, Williams JA, Police SR, Indurthi V, Davis SZ, Murtaza M, Capitini CM, Saha K.
Mol Ther Methods Clin Dev. 2025 Feb 18;33(1):101437. doi: 10.1016/j.omtm.2025.101437.
PMID: [40123742](#); PMCID: PMC11930092.

Multi-institutional analysis of pancreaticoduodenectomy for nonfamilial periampullary adenoma: A novel risk score to guide shared decision-making.

Mavani PT, Sok C, Eng N, Marra A, Foroutani L, Alseidi A, Hariri H, Wilson G, Ahmad SA, Scoggins C, Hester C, Datta J, Merchant N, LeCompte M, Kim HJ, Sigler G, Zafar N, Weber S, Prela O, Carpizo D, Kasting C, Fields R, Sarmiento JM, Russell MC, Shah MM, Maithel SK, Kooby DA.
J Am Coll Surg. 2025 Apr 1;240(4):392-402. doi: 10.1097/XCS.0000000000001289. Epub 2025 Mar 17.
PMID: [39831703](#); PMCID: PMC11928246.

Postoperative hepatic insufficiency despite preoperative portal vein embolization: Not just about the volumetrics.

Li AY, Ahmad MU, Sofilos MC, Lee RM, Maithel SK, Lee TC, Chadavavada S, Shah SA, Acher AW, Abbott DE, Wong P, Kessler J, Melstrom LG, Kirks R, Rocha FG, Delitto DJ, Lee B, Visser BC, Poultsides GA.
Surgery. 2025 Mar 28;182:109345. doi: 10.1016/j.surg.2025.109345. Epub ahead of print.
PMID: [40157125](#).

Virus-free CRISPR knockin of a chimeric antigen receptor into KLRC1 generates potent GD2-specific natural killer cells.

Shankar K, Zingler-Hoslet I, Tabima DM, Zima S, Shi L, Gimse K, Forsberg MH, Katta V, Davis SZ, Maldonado D, Russell BE, Murtaza M, Tsai SQ, Ayuso JM, Capitini CM, Saha K.
Mol Ther. 2025 Mar 5;33(3):1014-1030. doi: 10.1016/j.ymthe.2025.01.024. Epub 2025 Jan 14.
PMID: [39815622](#); PMCID: PMC11897758.

TRANSPLANTATION

A snapshot of challenges and opportunities faced by the scientific workforce in liver transplantation - A survey of the International Liver Transplantation Society (ILTS).

Czigany Z, Putri AJ, Jiang D, Meier R, Emamaullee J, Al-Adra DP, Pang L, Kim J, Krendl FJ, Verstegen M, Meister FA, Lurje G, Mas VR, Bhat M, Bonaccorsi-Riani E, Martins PN; ILTS Basic & Translational Research Committee.

Liver Transpl. 2025 Mar 14. doi: 10.1097/LVT.0000000000000599. Epub ahead of print.

PMID: [40079696](#).

Automated abdominal CT imaging biomarkers and clinical frailty measures associated with postoperative deceased-donor liver transplant outcomes.

Liu D, Ji D, Garrett JW, Zea R, Kuchnia A, Summers RM, Mezrich JD, Pickhardt PJ.

Eur Radiol. 2025 Mar 23. doi: 10.1007/s00330-025-11523-2. Epub ahead of print.

PMID: [40121592](#).

Donor-derived ehrlichiosis caused by Ehrlichia chaffeensis from living donor kidney transplant.

Scolarici MJ, Kuehler D, Osborn R, Doyle A, Schiffman EK, Garvin A, Villalba JA, Ramos CJ, Paddock CD, Annambhotla PD, Taylor M, Salzer JS, Saddler C, Thiessen C, Kandaswamy R, Odorico J.

Emerg Infect Dis. 2025 Mar;31(3):587-590. doi: 10.3201/eid3103.241723.

PMID: [40023815](#); PMCID: PMC11878297.

Navigating challenges in recipient selection for end-chain kidneys.

Garg N, Thiessen C, Garonzik-Wang J, Mezrich J, Mandelbrot DA.

Am J Transplant. 2025 Mar;25(3):471-475. doi: 10.1016/j.ajt.2024.10.018. Epub 2024 Oct 28.

PMID: [39490413](#).

Predicted indirectly recognizable T-cell epitope (PIRCHE) load correlates with rejection events after simultaneous pancreas-kidney transplantation.

Parajuli S, Niemann M, Dale BL, Hidalgo L, Gupta G, Kaufman D, Odorico J, Mandelbrot D.

Transplant Direct. 2025 Feb 7;11(3):e1764. doi: 10.1097/TXD.0000000000001764.

PMID: [39936136](#); PMCID: PMC11810031.

Reasons for donor heart offer refusal are often unrelated to the donor itself - When, why, and the "weekend effect".

Wayda B, Luikart H, Weng Y, Zhang S, Neidlinger N, Patrick Wood R, Nieto J, Nicely B, Belcher J, Groat T, Malinoski D, Zaroff J, Khush KK.

J Heart Lung Transplant. 2025 Mar 13:S1053-2498(25)01840-6. doi: 10.1016/j.healun.2025.02.1697.

Epub ahead of print.

PMID: [40088959](#).

Simultaneous en bloc kidney and pancreas transplantation from pediatric donors: Selection, surgical strategy, management, and outcomes.

Tamburrini R, Yang CY, Philip JL, Neidlinger NA, Kaufman DB, Odorico JS.

Am J Transplant. 2025 Mar;25(3):567-573. doi: 10.1016/j.ajt.2024.11.016. Epub 2024 Nov 19.

PMID: [39566660](#).

The challenge of minding the glomerular filtration rate gap between pancreas transplant alone and simultaneous pancreas-kidney transplantation: Stuck in the middle.

Parajuli S, Mandelbrot D, Stratta RJ, Kandaswamy R, Parsons RF, Singh N, Gruessner A, Kaufman DB, Odorico J.

Transplantation. 2025 Mar 25. doi: 10.1097/TP.0000000000005390. Epub ahead of print.

PMID: [40128167](#).

The questions not addressed: Who should be performing the virtual crossmatch, how should it be classified, and how to obtain reimbursement?

Sullivan HC, Jaramillo A, Gaitonde S, Murphey C, Pandey S, Liu C, Jindra P, Hidalgo LG, Weimer ET, Alquist CR, Morris GP, Bray RA.

Am J Transplant. 2025 Mar 21:S1600-6135(25)00149-2. doi: 10.1016/j.ajt.2025.03.020. Epub ahead of print.

PMID: [40122176](#).

VASCULAR SURGERY

General surgery residents competence and autonomy in core vascular surgery procedures.

Carter TM, Weaver ML, Sun T, Smith B.

J Surg Educ. 2025 Mar;82(3):103415. doi: 10.1016/j.jsurg.2024.103415. Epub 2025 Jan 21.

PMID: [39842398](#).

Letter: Difficulty with board certification in urology is associated with adverse medical license actions.

Smith B, Lindeman B.

Urol Pract. 2025 Mar 10:101097UPJ00000000000000797. doi: 10.1097/UPJ.00000000000000797. Epub ahead of print.

PMID: [40067914](#).
