



Department of Surgery

UNIVERSITY OF WISCONSIN

SCHOOL OF MEDICINE AND PUBLIC HEALTH

DECEMBER 2025 PUBLICATIONS

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

CROSS-DIVISION COLLABORATIONS

CDK7 is a novel therapeutic target in fibrolamellar carcinoma.

Nukaya M, Carney PR, Cafferty C, Zahed K, Yun I, Al-Adra DP, Kazim NA, Farghli AR, Chan M, Stram A, Kratz JD, Berres ME, Yen A, Gujral TS, Sethupathy P, Bradfield CA, Ronnekleiv-Kelly SM.

iScience. 2025 Nov 4;28(12):113925. doi: 10.1016/j.isci.2025.113925.

PMID: [41321622](#); PMCID: PMC12663737.

ACUTE CARE AND REGIONAL GENERAL SURGERY

Emerging uses of 5-aminolevulinic-acid-induced protoporphyrin IX in medicine: A review of multifaceted, ubiquitous, molecular diagnostic, therapeutic, and theranostic opportunities.

Pogue BW, Chen B, Ochoa MI, Petusseau A, Liu A, Gibson ALF, Maytin EV, Wilson BC.

J Biomed Opt. 2025 Dec;30(Suppl 3):S34112. doi: 10.1117/1.JBO.30.S3.S34112. Epub 2025 Oct 8.

PMID: [41070141](#); PMCID: PMC12506411.

Making the case for value of acute care surgery: American Association for the Surgery of Trauma panel on overcoming local challenges.

Kim P, Murphy P, Kelly E, Haddad DN, Martin RS, Spain DA, Smith JW, Savage SA, Staudenmayer KL.

J Trauma Acute Care Surg. 2025 Dec 1;99(6):e70-e74. doi: 10.1097/TA.0000000000004781. Epub 2025 Aug 13.

PMID: [40802502](#).

MoMA: A mixture-of-multimodal-agents architecture for enhancing clinical prediction modelling.

Gao J, Rahman M, Caskey J, Oguss M, O'Rourke A, Brown R, Stey A, Mayampurath A, Churpek MM, Chen G, Afshar M.

NPJ Digit Med. 2025 Dec 9;9(1):46. doi: 10.1038/s41746-025-02219-4.

PMID: [41366502](#); PMCID: PMC12804996.

CARDIOTHORACIC SURGERY

Commentary: Long-term adult congenital heart disease outcomes are influenced by factors out of our control. Is a paradigm shift necessary?

Bartlett HL, Anagnostopoulos PV.

J Thorac Cardiovasc Surg. 2025 Dec 16:S0022-5223(25)01066-9. doi: 10.1016/j.jtcvs.2025.12.012.

Epub ahead of print.

PMID: [41412323](#).

Extracorporeal cardiopulmonary resuscitation and organ donation: A modified Delphi study exploring cumulative impact index feasibility.

Carey G, Antonini MV, McCauley M, Tonna J, Furlong-Dillard J, Hutin A, Swol J, Cho SM, Sandhu H, Zaaqoq A, Davidson M, Hermesen J, Desai A, Bělohávek J, McCarthy D, Glazer JM.

ASAIO J. 2025 Dec 30. doi: 10.1097/MAT.0000000000002640. Epub ahead of print.

PMID: [41474614](#).

Global proteoform alterations across multiple cellular compartments underlie obstructive hypertrophic cardiomyopathy.

Gao Z, Rossler KJ, Rogers HT, Gregorich ZR, Aballo TJ, Chapman EA, Price SJ, Hermesen J, de Lange WJ, Zhu Y, Zhang B, Chen J, Ralphe JC, Kamp TJ, Ge Y.

Circ Heart Fail. 2025 Dec;18(12):e012899. doi: 10.1161/CIRCHEARTFAILURE.125.012899. Epub 2025 Nov 24.

PMID: [41277423](#).

Post-transplant stroke in patients bridged to transplantation with Impella 5.5 in the era of prolonged duration of support.

Marogil P, Xia Y, Hermesen J, Johnson M, Topkara VK.

ASAIO J. 2025 Dec 1;71(12):e197-e199. doi: 10.1097/MAT.0000000000002484. Epub 2025 Jun 16.

PMID: [40521736](#).

Understanding our thoracic surgery workforce: Who, what, and where we practice.

Daniel J, DeCamp M, Romano J, Tong B, Moulton M, Mitchell J, Backer C, Cleveland J, Cooke DT, Kella R, Coselli J, Donington J, Fuller S, Husain A, Malaisrie C, Starnes S, Stulak J, Wright C, Mack M, Nguyen TC.

JTCVS Open. 2025 Sep 18;28:760-767. doi: 10.1016/j.xjon.2025.08.016.

PMID: [41473054](#); PMCID: PMC12745087.

COLORECTAL SURGERY

Fluoro-forest: A random forest workflow for cell type annotation in high-dimensional immunofluorescence imaging with limited training data.

Brand J, Zhang W, Carchman E, Dinh HQ.

Bioinform Adv. 2025 Dec 24;6(1):vbaf320. doi: 10.1093/bioadv/vbaf320.

PMID: [41523652](#); PMCID: PMC12782655.

Patient resourcefulness and caregiver burden are interlinked with quality of life.

LoConte N, Bausch A, De Roo A.

Evid Based Nurs. 2025 Dec 15;29(1):11. doi: 10.1136/ebnurs-2024-104003.

PMID: [39038927](#); PMCID: PMC11751121.

ENDOCRINE SURGERY

Prolonged survival of anaplastic thyroid carcinoma: A case report and literature review.

Andargie DG, Mengistie CT, Mengistie BT, Hunegnaw S, Bazezew A, Long K, Petersson R.
Clin Case Rep. 2025 Dec 19;13(12):e71691. doi: 10.1002/ccr3.71691.
PMID: [41425129](#); PMCID: PMC12715589.

The year in thyroidology 2025 - Basic science, clinical science, surgical science.

Davies L, Franco AT, Haugen B.
Thyroid. 2025 Dec;35(12):1353-1358. doi: 10.1177/10507256251404831. Epub 2025 Dec 3.
PMID: [41346013](#).

Variation in long-term postoperative mortality risk by race/ethnicity after major non-cardiac surgeries in the Veterans Health Administration.

Sharath SE, Balentine CJ, Berger DH, Zhan M, Zamani N, Choi JC, Kougias P.
J Racial Ethn Health Disparities. 2025 Dec;12(6):3773-3782. doi: 10.1007/s40615-024-02176-w. Epub 2024 Sep 12.
PMID: [39264540](#); PMCID: PMC12207784.

MINIMALLY INVASIVE SURGERY

A low-protein diet drives short- and long-term improvements in metabolic health in a mouse model of sleeve gastrectomy.

Illiano J, Green CL, Chao A, Zhu G, Lopez L, Schaepkens O, Jang C, Lamming DW, Harris DA.
Cell Rep Med. 2025 Dec 16;6(12):102471. doi: 10.1016/j.xcrm.2025.102471. Epub 2025 Dec 1.
PMID: [41330377](#); PMCID: PMC12765834.

Durability wins - BIOLAP and the case for synthetic mesh.

Lauer KV, Rendell VR, Funk LM.
JAMA Surg. 2025 Dec 1;160(12):1317. doi: 10.1001/jamasurg.2025.4004.
PMID: [41060635](#); PMCID: PMC12715766.

PEDIATRIC SURGERY

Calculating carbon reduction via pediatric outreach clinics from a surgical patient cohort.

Walker B, Barbosa A, Stellon M, Nichol PF.
J Surg Res. 2025 Dec 17;317:409-415. doi: 10.1016/j.jss.2025.11.044. Epub ahead of print.
PMID: [41411769](#).

Characteristics of transfusion and association with oncologic outcomes in hepatoblastoma resection.

Polites SF, Aldrink JH, Lautz TB, Vierkant RA, Ragan MV, Reiter A, Chen SY, Kim ES, Rinehardt HN, Malek MM, Fleming AM, Murphy AJ, Roach JP, Radhakrishnan S, Kastenberg ZJ, Piche N, Osman Y, Iii HNL, Tracy ET, Favela J, Le HD, Marquart J, Craig B, Lal DR, Seemann N, Petroze R, Rich BS, Glick RD, Selesner L, Yoo A, Fialkowski E, Brown EG, Boehmer C, Dasgupta R, Langham MR Jr.
Pediatr Blood Cancer. 2025 Dec;72(12):e32029. doi: 10.1002/pbc.32029. Epub 2025 Sep 3.
PMID: [40899404](#).

Is appendiceal cancer a risk of nonoperative management of pediatric uncomplicated appendicitis?

Turpin AG, Asti L, Lutz C, Saito JM, Mak GZ, Hirschl RB, Gadepalli S, Helmrath MA, Leys CM, Lal DR, Flynn-O'Brien KT, Sato TT, Landman MP, Markel TA, Kabre R, Fallat ME, Deans KJ, Minneci PC. J Surg Res. 2025 Dec 10;317:161-166. doi: 10.1016/j.jss.2025.11.030. Epub ahead of print. PMID: [41380223](#).

Percutaneous cryoneurolysis for intercostal neuralgia due to bifid rib in a pediatric patient.

Verhagen J, Sorensen A, Tracy S, Monroe E. Pediatr Radiol. 2025 Dec 12. doi: 10.1007/s00247-025-06483-0. Epub ahead of print. PMID: [41385101](#).

Renal sarcomas in children and adolescents: A retrospective, multicenter cohort study.

McKay KG, Beckhorn C, Kontchou NT, Kastenber ZJ, Roach J, Mullapudi B, Lautz TB, Dasgupta R, Talbot LJ, Aldrink JH, Piché N, Craig BT, Cromeens B, Castle SL, Short J, Petroze RT, Mattei P, Rothstein DH, Fialkowski EA, Rich BS, Brown EG, Seemann NM, Le HD, Ahmed TM, Newman EA, Grant CN, Polites SF, Cameron DB, Kim ES, Austin MT, Coakley BA, Murphy JT, Boehmer C, Malek MM, Tracy E, Lovvorn HN 3rd; Pediatric Surgical Oncology Research Collaborative. EClinicalMedicine. 2025 Dec 18;91:103713. doi: 10.1016/j.eclinm.2025.103713. PMID: [41509607](#); PMCID: PMC12775861.

Surgeon annual volume impacts recurrence rates of pediatric inguinal hernia repairs: A multi-institutional study.

Heller K, Ochoa BV, Brierley S, Padilla BE; Pediatric Inguinal Hernia Collaborative Group; Alhajjat A, Byrd E, Chao SD, Clinker C, Diaz-Miron J, Dantes G, Eldredge RS, Fialkowski EA, Guner Y, Gurria JP, Haddadin Z, Highet A, Huerta CT, Keane OA, Kelley-Quon LI, Laje P, Le H, Lee J, Leshner A, Lin S, Lym L, Pandya SR, Papastefan S, Parrado RH, Perez EA, Ramazani C, Rehner W, Russell KW, Selesner L, Shideler BL, Slater BJ, Stellon MA, Stephens C, Sutyak KM, Tsao K, Velazco CS, Weber N, Westbrook N, Wieck MM, Yu P. J Pediatr Surg. 2025 Dec 29;162890. doi: 10.1016/j.jpedsurg.2025.162890. Epub ahead of print. PMID: [41475507](#).

PLASTIC SURGERY

Imaging lymphatic function and inflammation response through hypoxia via endogenous biomarker.

Ochoa MI, Cao X, Reed MS, Matkovic E, Zeng W, Poore SO, Pogue BW. J Biomed Opt. 2026 Jan;31(1):016003. doi: 10.1117/1.JBO.31.1.016003. Epub 2025 Dec 29. PMID: [41473766](#); PMCID: PMC12747121.

SURGICAL ONCOLOGY

Commission on Cancer quality measures: Time to breast operation quality measure.

Bleicher RJ, Hwang ES, Wilke LG, Freedman LM, Froix AJ, Ray EM, Sala CM, Park KU, Yao KA. J Am Coll Surg. 2025 Dec 12. doi: 10.1097/XCS.0000000000001731. Epub ahead of print. PMID: [41384625](#).

Experience with EPAs during the year of progressive engagement.

Brasel KJ, Scott-Smith C, Barry C, Lindeman B, Sarosi G, Minter R, Jones A, Mellinger J, Buyske J. J Surg Educ. 2025 Dec;82(12):103713. doi: 10.1016/j.jsurg.2025.103713. Epub 2025 Oct 18.

PMID: [41109804](#).

PancreaSeq Genomic Classifier (PancreaSeq GC) improves pancreatic cyst classification and detection of advanced neoplasia: A multi-institutional validation study.

Singhi AD, Wald AI, Smith K, Wolkenstein L, Bubar RD, Diaz-Aragon R, Grupillo M, Guckin D, Lai YT, Brand RE, McGrath K, Park WG, Pfau PR, Polanco PM, Kubiliun N, DeWitt J, Easler JJ, Dam A, Mok SR, Wallace MB, Boone BA, Marsh W, Thakkar S, Fairley KJ, Afghani E, Bhat Y, Ramrakhiani S, Nasr J, Thiruvengadam NR, Khalid A, Fasanella K, Chennat J, Das R, Singh H, Slivka A, Gabbert C, Sawas T, Tielleman T, Vanderveldt HD, Tavakkoli A, Smith LM, Singhi AH, Singhi SA, Romutis S, Mahmood S, Hosmer AE, McNabb-Baltar J, Lennon AM, Hruban RH, Shaker N, Panிக்கா A, Zureikat A, Lee KK, Ongchin M, Zeh H, Minter R, Schmidt CM, He J, Nikiforova MN.

Ann Surg Oncol. 2025 Dec 12. doi: 10.1245/s10434-025-18848-8. Epub ahead of print.

PMID: [41388172](#).

TRANSPLANTATION

De novo letermovir after cytomegalovirus seropositive kidney transplant improves toxicity and mycophenolate tolerance over the current standard of care.

Kleiboeker HL, Jorgenson MR, Sclarici MJ, Descourouez JL, Levenson GE, Saddler C, Mandelbrot D, Al-Adra D.

Clin Transplant. 2025 Dec;39(12):e70423. doi: 10.1111/ctr.70423.

PMID: [41408959](#).

Health-related quality of life after living kidney donation: Insights from a contemporary meta-analysis.

Garg N, Thiessen C, Mandelbrot DA.

Am J Kidney Dis. 2025 Dec 20:S0272-6386(25)01177-1. doi: 10.1053/j.ajkd.2025.11.002. Epub ahead of print.

PMID: [41420641](#).

Hematuria and fever following kidney transplantation.

Kinard C, Zajac J, Zhong W, Thiessen C.

Am J Transplant. 2025 Dec;25(12):2658-2660. doi: 10.1016/j.ajt.2025.10.003.

PMID: [41314770](#).

Importing pancreata for transplantation: A single-center experience across evolving allocation eras.

Tamburrini R, Hidalgo S, Levenson G, Kaufman DB, Neidlinger NA, Al-Adra DP, Aufhauser DD, Thiessen C, Mandelbrot D, Parajuli S, Odorico JS.

Front Transplant. 2025 Dec 18;4:1698617. doi: 10.3389/frtra.2025.1698617.

PMID: [41488372](#); PMCID: PMC12756387.

Outcomes of patients with localized renal cell carcinoma on immunosuppression following solid organ transplantation.

Shah PV, Abel EJ, Mezrich JD, Carey AZ, Taylor AK, Bregman A, Al-Adra D, Aufhauser D, Collins KM, Mandelbrot D, Lotan P, Lee FT Jr, Hinshaw JL, Allen GO, Jarrard DF, Richards KA, Koehne EL, Risk MC, Shapiro DD.

Urology. 2025 Dec 11:S0090-4295(25)01360-3. doi: 10.1016/j.urology.2025.12.007. Epub ahead of print.

PMID: [41389849](#).

Rethinking the use of immunotherapy post-liver transplantation: Standardized protocols with low risk of rejection.

Al-Adra DP.

Liver Transpl. 2025 Dec 12. doi: 10.1097/LVT.0000000000000786. Epub ahead of print.

PMID: [41396577](#).

Rituximab-based antibody mediated rejection therapy modestly reduces xenoreactive antibodies: Implications for pig-to-human xenotransplantation.

Yeh ST, Marshall NA, Lehman BP, Rubinstein CD, Shanmuganayagam D, Meudt JJ, Redfield RR 3rd, Hidalgo LG, Dominko T, Aufhauser DD.

Transpl Immunol. 2025 Dec 14;94:102343. doi: 10.1016/j.trim.2025.102343. Epub ahead of print.

PMID: [41401855](#).

VASCULAR SURGERY

The ICU Care Plan: Human-centered design of a tool to support time-limited trials for older adults with critical illness.

Mortenson SM, McCartney JM, Moy JX, Palmer GM, Goldberg JH, Solomon DB, Polley M, Grover N, Schwarze ML, Campbell TC, Holl JL, Esmond SL, Kruser JM.

J Am Geriatr Soc. 2025 Dec;73(12):3747-3756. doi: 10.1111/jgs.70155. Epub 2025 Oct 13.

PMID: [41081376](#); PMCID: PMC12650797.

The roles of incretin hormones GIP and GLP-1 in metabolic and cardiovascular health: A comprehensive review.

Yamanouchi D.

Int J Mol Sci. 2025 Dec 19;27(1):27. doi: 10.3390/ijms27010027.

PMID: [41515907](#); PMCID: PMC12785922.
