



Department of Surgery

UNIVERSITY OF WISCONSIN

SCHOOL OF MEDICINE AND PUBLIC HEALTH

MARCH 2026 PUBLICATIONS

Congratulations to all department members whose research was published in March 2026!
The following list is organized by division within the Department of Surgery.

CROSS-DIVISION COLLABORATIONS

Assessing the evidence for neoadjuvant chemotherapy in patients with resectable pancreatic adenocarcinoma using the robustness of inference to replacement.

Cher BAY, Lin Q, Frank KA, Weber SM, Minter RM, Balentine CJ, Zafar SN.

Ann Surg Oncol. 2026 Mar 12. doi: 10.1245/s10434-026-19443-1. Epub ahead of print.

PMID: [41817933](#).

Navigating the complexities of rectal cancer management: Shared decision-making and patient perspectives in critical choices.

De Roo AC, Neuman HB.

Eur J Surg Oncol. 2026 Mar 6:111738. doi: 10.1016/j.ejso.2026.111738. Epub ahead of print.

PMID: [41820181](#).

ACUTE CARE AND REGIONAL GENERAL SURGERY

Evaluation of burn depth using indocyanine green: Discrepancies between macroscopic visualization and the microenvironment.

Junak M, García H, Liu A, Donahue B, Pashaj J, Zajac J, Uselmann A, Faucher L, Pogue BW, Gibson A.

Plast Reconstr Surg. 2026 Mar 10:10.1097/PRS.0000000000013011. doi: 10.1097/PRS.0000000000013011. Epub ahead of print.

PMID: [41805739](#); PMCID: PMC13037454.

The current state of acute care surgery workforce and practice models: A joint statement by the American Association for the Surgery of Trauma, the American College of Surgeons Committee on Trauma, the Eastern Association for the Surgery of Trauma, and the Western Trauma Association.

Staudenmayer KL, Barmparas G, Barnes SL, Biffl WL, Cohen MJ, Davis KA, de Moya M, Goldberg AJ, Joseph B, Martin RS, Murphy PB, Rizzo AG, Rotondo M, Savage SA, Smith JW, Todd SR, Zarzaur BL, Bulger E.

J Trauma Acute Care Surg. 2026 Mar 1;100(3):380-385. doi: 10.1097/TA.0000000000004857. Epub 2026 Jan 20.

PMID: [41728876](#); PMCID: PMC12928815.

The educational foundation for acute care surgery: Evolution of the specialty.

Lilienstein JT, Murphy P, Pathak A, de Moya MA, Sarani B, Savage SA; with the Acute Care Surgery Committee of the AAST.

J Trauma Acute Care Surg. 2026 Mar 1;100(3):520-523. doi: 10.1097/TA.0000000000004783. Epub 2025 Aug 21.

PMID: [40836367](#).

ENDOCRINE SURGERY

Barriers to the implementation of local anesthesia for older adults undergoing inguinal hernia repair.

Mai D, Cher BAY, Lunardi N, Thornton M, Baker JG, Macdonald C, Skinner CS, Brown CJ, Marten EL, Makris K, Heredia MLM, Berger M, Cullum CM, Lee S, Pham TH, Balentine CJ.

J Am Geriatr Soc. 2026 Mar 26. doi: 10.1111/jgs.70402. Epub ahead of print.

PMID: [41885347](#).

Expectations vs reality of an intraoperative artificial intelligence intervention.

Thornton M, Cher BAY, Macdonald C, Baker JG, Marten EL, Mai D, Sankaranarayanan G, Balentine CJ.

JAMA Surg. 2026 Mar 1;161(3):234-240. doi: 10.1001/jamasurg.2025.6029.

PMID: [41533394](#); PMCID: PMC12805492.

MINIMALLY INVASIVE SURGERY

Atlas of one-carbon metabolism in conventional and germ-free mice reveals folate as a key determinant of biochemical pathways.

Williams J, Kim WS, Danner R, Cho J, Silva BF, Harris DA, Rey FE, Chaudhari SN.

Nat Metab. 2026 Mar 26. doi: 10.1038/s42255-026-01489-w. Epub ahead of print.

PMID: [41888596](#).

Rational design and evaluation of novel TGR5 agonists for diabetes.

Bhimanwar RS, Detwiler Z, Zhu JG, Saghabi ST, Winder CA, Davis DB, Mittal A, Sharma V, Harris DA, Chaudhari SN.

Molecules. 2026 Mar 26;31(7):1093. doi: 10.3390/molecules31071093.

PMID: [41976136](#); PMCID: PMC13075183.

Restriction of individual branched-chain amino acids has distinct effects on the development and progression of Alzheimer's disease in 3xTg mice.

Babygirija R, Green CL, Sonsalla MM, Le IMF, Xiao F, Yandell S, Calubag MF, Trautman ME, Tobon A, Matoska R, Yeh CY, Opara CI, Grunow I, Verstein D, Schlorf S, Knopf BA, Rigby MJ, Harris DA, Keller MP, Attie AD, Puglielli L, Jang C, Lamming DW.

Adv Sci (Weinh). 2026 Mar 12:e15220. doi: 10.1002/advs.202515220. Epub ahead of print.

PMID: [41817439](#).

Sleeve gastrectomy protects lean mice from future obesity.

Moscalu A, Babygirija R, Mathew T, Chaudhari SN, Zhang D, Zhou L, Sheu EG, Harris DA.

bioRxiv [Preprint]. 2026 Mar 11:2026.03.09.710623. doi: 10.64898/2026.03.09.710623.

PMID: [41959063](#); PMCID: PMC13060873.

PEDIATRIC SURGERY

Outcomes of pediatric blunt liver and spleen injury in 1029 patients using the ATOMAC+ Pediatric Trauma Research Network guideline.

Notrica DM, Maxson T, Stottlemire RL, Cohen AS, Bundrant N, Lawson KA, Eubanks JW 3rd, Ryan M, Letton RW, Bhatia A, Wyrick D, St Peter SD, Leys C, Ponsky T, Williams RF, Johnson JJ. *J Pediatr Surg.* 2026 Mar 24;61(7):163107. doi: 10.1016/j.jpedsurg.2026.163107. Epub ahead of print. PMID: [41887567](#).

Outcomes and surgical management of malignant rhabdoid tumor of the kidney: A report from the Pediatric Surgical Oncology Research Collaborative.

Rinehardt HN, Tracy ET, Paredes A, Beckhorn C, Leraas HJ, Fusco J, McKay KG, Kontchou NT, Kastenber ZJ, Hoyt DW, Roach J, Myers EK, Cost NG, Mullapudi B, Marchese CR, Jensen AR, Lautz TB, Carter M, Dasgupta R, Lundstedt J, Brungardt JG, Talbot L, Davidoff AM, Murphy AJ, Aldrink JH, Mansfield S, Piche N, Le-Nguyen A, Lal DR, Craig BT, Schuh JM, Cromeens BP, Mannava S, Castle S, Lopez A, Mello K, Short J, Petroze RT, Rajavel S, Thompson GR, Mattei P, Rothstein DH, Fialkowski E, Fowler K, Martchenke N, Rich BS, Glick RD, Brown EG, Doyle K, Abril P, Seemann N, Davidson J, Wilson CA, Le HD, Joshi D, Stellon M, Ahmed T, Dimmer A, Ehrlich PF, Hammoud M, Williams K, Grant CN, Gorgy M, Polites SF, Debertin J, Cameron DB, Stetson A, Kim ES, Lee WG, Barkhordar A, Austin M, Coakley BA, Kahan A, Murphy JT, Pitonak M, Boehmer C, Malek MM. *Pediatr Blood Cancer.* 2026 Mar 26:e70296. doi: 10.1002/1545-5017.70296. Epub ahead of print. PMID: [41889149](#).

Surgical management and outcomes in pediatric adrenocortical carcinoma: A Pediatric Surgical Oncology Research Collaborative study.

Srivatsa S, Aldrink JH, Haque MR, Murphy A, Gehle D, Halepota H, Newman EA, Williams K, Mattei P, Johnston WR, Hwang R, Lautz TB, Ayala SA, Piché N, Lemoine CP, Debertin J, Polites SF, Rothstein DH, Riehle KJ, Nchinda N, Malek MM, Rinehardt HN, Gestrich C, Castle SL, Lopez A, Mayes MS, Myers EK, Roach JP, Craig BT, Lal DR, Schuh J, Cromeens BP, Mannava SV, Austin MT, Mayon LK, Kastenber ZJ, Wallace M, Alexander A, Stellon MA, Le HD, Joshi DS, Chidiac C, Rhee DS, Cameron D, Stetson A, Rich BS, Glick RD, Fialkowski EA, Fowler K, Fareh R, Brown EG, Doyle K, Abril P, Grant C, Dasgupta R, Boehmer C, Mansfield SA. *Ann Surg Oncol.* 2026 Mar;33(3):2712-2728. doi: 10.1245/s10434-025-18731-6. Epub 2025 Nov 20. PMID: [41266918](#).

The low data fidelity of human-based informatics in surgical instrument waste reduction: Is it time for objective computer vision integration?

Mácola A, Poole K, Sous J, Bradley AR, Nichol PF. *BMC Health Serv Res.* 2026 Mar 6;26(1):516. doi: 10.1186/s12913-026-14290-y. PMID: [41792662](#); PMCID: PMC13077875.

PLASTIC SURGERY

A scoping review of the impact of transverse carpal ligament sectioning on the thumb carpometacarpal joint: Does it increase the risk of osteoarthritis?

Steiner Q, George R, Edalatpour A, Attaluri PK, Michelotti BF. *JPRAS Open.* 2026 Jan 23;48:980-987. doi: 10.1016/j.jptra.2026.01.029. PMID: [41756592](#); PMCID: PMC12933596.

Can electrical stimulation prevent recurrence of keloid scars? A scoping review.

George RE, Bay CC, Thornton SM, Knazze JT, Kane NC, Ludwig KA, Donnelly DT, Poore SO, Dingle AM.

Adv Wound Care (New Rochelle). 2026 Mar;15(3):157-167. doi: 10.1089/wound.2023.0203. Epub 2026 Mar 4.

PMID: [38888004](#).

Pathways to plastic surgery: Searching for hidden entrances.

Quach M, Alamo-Irizarry L, Poore SO.

Plast Reconstr Surg. 2026 Mar 18. doi: 10.1097/PRS.0000000000013048. Epub ahead of print.

PMID: [41849634](#).

Private equity: A roadmap for the practicing plastic surgeon.

Agbafé VC, Via EC, Attaluri PK, Wirth PJ, Rao VK.

Plast Reconstr Surg. 2026 Mar 11. doi: 10.1097/PRS.0000000000013016. Epub ahead of print.

PMID: [41811162](#).

SURGICAL ONCOLOGY

Characterizing social determinants of health in GI cancer surgery: Insights from the All of Us Research Program.

Al Rubaye MZ, Ahmed KS, Issaka SM, Ali MM, Cher BA, Awan AH, Owusu-Brackett N, Weber SM, Zafar SN.

Cancer Rep (Hoboken). 2026 Mar;9(3):e70518. doi: 10.1002/cnr2.70518.

PMID: [41856922](#).

Presentation of metastatic colorectal carcinoma at a tertiary care center in Pakistan.

Virani SS, Nasim MT, Adnan F, Ibrahim M, Moosajee MS, Khan MR, Ghias K, Murtaza M, Khan S, Zafar SN.

J Cancer Allied Spec. 2026 Apr 3;12(1):1-11. doi: 10.2478/jcas-2026-0001.

PMID: [41953209](#); PMCID: PMC13054196.

Resident satisfaction with feedback quantity on best and worst rotations.

Diaconescu A, White E, McLeod MC, Muñoz Wilson DD, Sarosi G, Barry C, Jones A, Minter R, Brasel K, Lindeman B.

J Am Coll Surg. 2026 Apr 1;242(4):911-919. doi: 10.1097/XCS.0000000000001799. Epub 2026 Mar 26.

PMID: [41575449](#).

Single-cell transcriptomic variance analysis reveals intercellular circadian desynchrony in the Alzheimer's affected human brain.

Hollis HC, Veltri A, Korac K, Menon V, Bennett DA, Ronnekleiv-Kelly SM, Kim J, Anafi RC.

bioRxiv [Preprint]. 2026 Mar 25:2026.03.23.713759. doi: 10.64898/2026.03.23.713759.

PMID: [41929229](#); PMCID: PMC13042062.

Survival following colorectal cancer surgery in low- and middle-income countries: A systematic review and meta-analysis.

Afolaranmi O, Diehl TM, Salim Virani S, Yang Q, Christensen L, Okwunze K, Khan AH, Akhlaq Mughal N, Schroeder D, Pourdasthi S, Khan S, Zafar SN.

J Surg Oncol. 2026 Mar 15. doi: 10.1002/jso.70235. Epub ahead of print.

PMID: [41834407](#).

TRANSPLANTATION

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. 2026 Mar;209:81-86. doi: 10.1016/j.urology.2025.12.007. Epub 2025 Dec 11.

PMID: [41389849](#).

The use of a centralized normothermic preservation and assessment center to rescue kidneys declined after standard allocation.

Holzner ML, Jaynes CL, Terlizzi K, Guerra G, Lonze BE, Goggins W, Barbas A, Kayler L, Wellen J, Lopez-Soler R, Berger JC, Ali NM, van Leeuwen L, Philip J, Shapiro R, Massie AB, Leuvenink H, Garonzik-Wang J.

Am J Transplant. 2026 Mar 6:S1600-6135(26)00125-5. doi: 10.1016/j.ajt.2026.03.001. Epub ahead of print.

PMID: [41796806](#).

VASCULAR SURGERY

From assessment to action: Five years of progress in trauma system strengthening in Hawassa, Ethiopia.

Tefera G.

J Am Coll Surg. 2026 Mar 31. doi: 10.1097/XCS.0000000000001955. Epub ahead of print.

PMID: [41914606](#).

Vascular surgery residents and fellows graduate at higher levels of proficiency in endovascular as compared to open aortic operations.

Buchanan E, Sun T, Droz N, Brooke BS, Smith BK, Weaver ML.

J Vasc Surg. 2026 Mar;83(3):710-717.e1. doi: 10.1016/j.jvs.2025.10.045. Epub 2025 Nov 6.

PMID: [41205839](#).

Who picks up the slack? Impact of interprofessional role ambiguity on resident education, team function, and patient care.

Cha JS, Tucker EL, Lauer KV, Smith B.

J Am Coll Surg. 2026 Mar 27. doi: 10.1097/XCS.0000000000001939. Epub ahead of print.

PMID: [41894467](#).

OTHER PUBLICATIONS

Defining the surgical oncology experience during general surgery residency: A multi-institutional study from the US ROPE Consortium.

Reagan AM, Montgomery KB, Woeste MR, Sutton JM, Smith SR, Postlewait LM, Farr D, Abelson JS, Cho NL, Foote DC, Meister KM, Lindeman B, Kimbrough MK, Nahmias J, Callahan ZM, Marks JA, Elsaadi A, Burton E, Richmond R, Dodwad SM, Adams SD, Buonpane CL, Patel P, Anstadt MJ, Nasim BW, Layne D, Jung S, Pratt CG, Quillin RC 3rd, Kim J, Patel JA, Cortez AR, Winer LK.

Ann Surg Oncol. 2026 Mar;33(3):2346-2355. doi: 10.1245/s10434-025-18529-6. Epub 2025 Oct 25.
PMID: [41139184](#).
