



Department of Surgery

UNIVERSITY OF WISCONSIN

SCHOOL OF MEDICINE AND PUBLIC HEALTH

MARCH 2024 PUBLICATIONS

Congratulations to all department members whose research was published in March 2024! The following list is organized by division within the Department of Surgery.

CROSS-DIVISION COLLABORATIONS

Heterotopic auxiliary whole liver rat transplant model utilizing a hepaticoureterostomy for allograft rejection studies.

Verhoven B, Zeng W, Chlebeck P, Matkowskyj K, Jennings H, Poore S, Al-Adra D.

J Vis Exp. 2024 Mar 8;(205):10.3791/66516.

[PubMed ID: [38526116](#)]

ACUTE CARE AND REGIONAL GENERAL SURGERY

High-grade liver injuries with contrast extravasation managed initially with interventional radiology versus observation: A secondary analysis of a WTA multicenter study.

Aryan N, Grigorian A, Tay-Lasso E, Cripps M, Carmichael H, McIntyre R Jr, Urban S, Velopulos C, Cothren Burlew C, Ballow S, Dirks RC, LaRiccia A, Farrell MS, Stein DM, Truitt MS, Grossman Verner HM, Mentzer CJ, Mack TJ, Ball CG, Mukherjee K, Mladenov G, Haase DJ, Abdou H, Schroepfel TJ, Rodriguez J, Bala M, Keric N, Crigger M, Dhillon NK, Ley EJ, Egodage T, Williamson J, Cardenas TC, Eugene V, Patel K, Costello K, Bonne S, Elgammal FS, Dorlac W, Pederson C, Werner NL, Haan JM, Lightwine K, Semon G, Spoor K, Harmon LA, Samuels JM, Spalding MC, Nahmias J.

Am J Surg. 2024 Mar 26:S0002-9610(24)00179-X. Epub ahead of print.

[PubMed ID: [38553335](#)]

Multi-center study of intra-abdominal abscess formation after major operative hepatic trauma.

Smith AA, Cone JT, McNickle AG, Mitchao DP, Kostka R, Martinez B, Schroepfel T, Cavalea A, Shahan CP, Axtman B, Braverman MA; Multi-Institutional Trial Liver Study Group.

J Surg Res. 2024 Mar;295:746-752. Epub 2023 Dec 25.

[PubMed ID: [38147760](#)]

Survival disparities in rural versus urban patients with pancreatic neuroendocrine tumor: A multi-institutional study from the US neuroendocrine tumor study group.

Mirza MB, Baechle JJ, Marincola Smith P, Dillhoff M, Poultsides G, Rocha FG, Cho CS, Winslow ER, Fields RC, Maithel SK, Idrees K.

Am J Surg. 2024 Mar 11:S0002-9610(24)00163-6. Epub ahead of print.

[PubMed ID: [38492993](#)]

CARDIOTHORACIC SURGERY

Mesothelioma: Pleural, version 1.2024.

Stevenson J, Ettinger DS, Wood DE, Aisner DL, Akerley W, Bauman JR, Bharat A, Bruno DS, Chang JY, Chirieac LR, DeCamp M, Desai A, Dilling TJ, Dowell J, Durm GA, Garassino MC, Gettinger S, Grotz TE, Gubens MA, Lackner RP, Lanuti M, Lin J, Loo BW Jr, Lovly CM, Maldonado F, Massarelli E, Morgensztern D, Mullikin TC, Ng T, Otterson GA, Owen D, Patel SP, Patil T, Polanco PM, Riely GJ, Riess J, Shapiro TA, Singh AP, Tam A, Tanvetyanon T, Yanagawa J, Yang SC, Yau E, Gregory K, Hang L.

J Natl Compr Canc Netw. 2024 Mar;22(2):72-81.

[PubMed ID: [38503043](#)]

Surgically induced aortic coarctation in a neonatal porcine model allows for longitudinal assessment of cardiovascular changes.

Stellon M, Gober L, Culver MA, Hermesen J, Irrer D, Witzenburg C, Roldán-Alzate A, Lamers L.

Am J Physiol Heart Circ Physiol. 2024 May 1;326(5):H1117-H1123. Epub 2024 Mar 15.

[PubMed ID: [38488518](#)]

ENDOCRINE SURGERY

Assessing a structured mental fitness program for academic acute care surgeons: A pilot study.

Bhat SG, Nagaraj M, Balentine C, Hogan T, Meier J, Prince H, Abdelfattah K, Zeh H, Levi B.

J Surg Res. 2024 Mar;295:9-18. Epub 2023 Nov 11.

[PubMed ID: [37956507](#)]

Don't chase the adenoma: A probabilistic approach to imaging before parathyroidectomy.

Lunardi N, Jacob A, Elfenbein D, Schneider DF, Long K, Holoubek SA, MacKinney E, Chiu A, Sippel RS, Balentine CJ.

Surgery. 2024 May;175(5):1299-1304. Epub 2024 Mar 2.

[PubMed ID: [38433078](#)]

Outcomes of preoperative medical therapy for thyroidectomy in autoimmune thyroid disease.

Braafladt SM, Baumgartner TC, Allison HR, Blumenthaler AN, Ritter HE, Mariash CN, Elfenbein DM, McDow AD.

J Surg Res. 2024 Mar;295:318-326. Epub 2023 Dec 6.

[PubMed ID: [38061236](#)]

Validated predictive model for treatment and prognosis of adrenocortical carcinoma.

Zuber SM, Kuchta K, Holoubek SA, Khokar A, Moo-Young T, Prinz RA, Winchester DJ.

Surgery. 2024 Mar;175(3):743-751. Epub 2023 Nov 11.

[PubMed ID: [37953139](#)]

MINIMALLY INVASIVE SURGERY

A low-burden, self-weighting intervention to prevent weight gain in adults with obesity who do not enroll in comprehensive treatment.

McVay MA, Carrera Seoane M, Rajoria M, Dye M, Marshall N, Muenyi S, Alkanderi A, Scotti KB, Ruiz J, Voils CI, Ross KM.
Obes Sci Pract. 2024 Mar 20;10(2):e745.
[PubMed ID: [38510333](#)]

Moving from scores to solutions: Lessons learned from the social vulnerability index and disparities in surgical outcomes.

Jawara D, Funk LM.
Am J Surg. 2024 Mar;229:24-25. doi: 10.1016/j.amjsurg.2023.11.012. Epub 2023 Nov 17.
[PubMed ID: [38008649](#)]

Primary outcomes from Partner2Lose: A randomized controlled trial to evaluate partner involvement on long-term weight loss.

Voils C, Shaw R, Gavin K, Hetzel S, Lewis M, Pabich S, Johnson H, Elwert F, Mao L, Gray K, Yuroff A, Garza K, Yancy W, Porter L.
Res Sq [Preprint]. 2024 Mar 11:rs.3.rs-4001003.
[PubMed ID: [38559225](#)]

Racial disparities in selected micronutrient deficiencies after bariatric surgery: A systematic review.

Jawara D, Ufearo DM, Murtha JA, Fayanju OM, Gannon BM, Ravelli MN, Funk LM.
Surg Obes Relat Dis. 2024 Mar;20(3):283-290. Epub 2023 Sep 27.
[PubMed ID: [37891101](#)]

OTOLARYNGOLOGY-HEAD & NECK SURGERY

Altered tongue muscle contractile properties coincide with altered swallow function in the adult Ts65Dn mouse model of down syndrome.

Glass TJ, Russell JA, Fisher EH, Ostadi M, Aori N, Yu YE, Connor NP.
Front Neurol. 2024 Mar 22;15:1384572.
[PubMed ID: [38585362](#)]

Anxiety, depression, and posttraumatic stress disorder in patients with induced laryngeal obstruction.

Fujiki RB, Fujiki AE, Thibeault SL.
JAMA Otolaryngol Head Neck Surg. 2024 Mar 14:e240133. Epub ahead of print.
[PubMed ID PMID: [38483372](#)]

Differential impact of unilateral stroke on the bihemispheric motor cortex representation of the jaw and tongue muscles in young and aged rats.

Cullins MJ, Connor NP.
Front Neurol. 2024 Mar 20;15:1332916.
[PubMed ID: [38572491](#)]

Functionality of bone marrow mesenchymal stromal cells derived from head and neck cancer patients - A FDA-IND enabling study regarding MSC-based treatments for radiation-induced xerostomia.

Blitzer GC, Paz C, Glassey A, Ganz OR, Giri J, Pennati A, Meyers RO, Bates AM, Nickel KP, Weiss M, Morris ZS, Mattison RJ, McDowell KA, Croxford E, Chappell RJ, Glazer TA, Rogus-Pulia NM, Galipeau J, Kimple RJ.
Radiother Oncol. 2024 Mar;192:110093. Epub 2024 Jan 13.
[PubMed ID: [38224919](#)]

Impact of procedural variation in endoscopic dilation for idiopathic subglottic stenosis.

Santapuram P, Tierney WS, Huang LC, Chen SC, Berry LD, Francis DO, Gelbard A.

Laryngoscope. 2024 Mar 19. Epub ahead of print.

[PubMed ID: [38501339](#)]

Modeling thyroid cancer epidemiology in the United States using papillary thyroid carcinoma microsimulation model.

Alagoz O, Zhang Y, Arroyo N, Fernandes-Taylor S, Yang DY, Krebsbach C, Venkatesh M, Hsiao V, Davies L, Francis DO.

Value Health. 2024 Mar;27(3):367-375. Epub 2023 Dec 22.

[PubMed ID: [38141816](#)]

Nonlinear dynamic analysis and perturbation measurement used for discriminating pathological voices and their correlations with perceptual evaluation.

Zhang F, Liu B, Wu P, Johnson C, Bouharati M, Zhang Y, He P, Jiang JJ.

J Voice. 2024 Mar 7:S0892-1997(23)00320-X. Epub ahead of print.

[PubMed ID: [38458820](#)]

Prodromal Parkinson disease signs are predicted by a whole-blood inflammatory transcriptional signature in young Pink1^{-/-} rats.

Lechner SA, Barnett DGS, Gammie SC, Kelm-Nelson CA.

BMC Neurosci. 2024 Mar 4;25(1):11.

[PubMed ID: [38438964](#)]

Similarity network analysis of the adaptive immune response in the proximal airway.

Clark E, Talatala ERR, Ye W, Davis RJ, Collins SL, Hillel AT, Ramirez-Solano M, Sheng Q, Wanjalla CN, Mallal SA, Gelbard A.

Laryngoscope. 2024 Mar 7. Epub ahead of print.

[PubMed ID: [38450771](#)]

Tongue and laryngeal exercises improve tongue strength and vocal function outcomes in a Pink1^{-/-} rat model of early Parkinson disease.

Broadfoot CK, Hoffmeister JD, Lechner SA, Krasko MN, Lambert E, Russell JA, Szot JC, Glass TJ, Connor NP, Kelm-Nelson CA, Ciucci MR.

Behav Brain Res. 2024 Mar 5;460:114754. Epub 2023 Nov 20.

[PubMed ID: [37981125](#)]

PEDIATRIC SURGERY

Comparison of outcomes between surveillance ultrasound and completion lymph node dissection in children and adolescents with sentinel lymph node-positive cutaneous melanoma.

Scoville SD, Stanek JR, Rinehardt H, Sutthartarn P, Abdelhafeez AH, Talbot LJ, Malek M, Leraas HJ, Tracy ET, Chen SY, Kim ES, Lotakis DM, Ehrlich PF, Favela JG, Le HD, Davidson J, Wilson CA, Seemann NM, Osman Y, Piche N, Hoang V, Petroze RT, Polites SF, McKay KG, Correa H, Lovvorn HN 3rd, Lee YM, Balagani A, Dasgupta R, Aldrink JH.

Ann Surg. 2024 Mar 1;279(3):536-541. Epub 2023 Jul 24.

[PubMed ID: [37487006](#)]

PLASTIC SURGERY

A 16-year analysis of aesthetic surgery volume and its association with US economic performance.

Bay CC, Wirth PJ, Shaffrey EC, Thornton SM, Rao VK.
Aesthet Surg J Open Forum. 2024 Mar 27;6:ojae019.
[PubMed ID: [38633727](#)]

Eyeing risks: a critical analysis of the use of periorbital steroids in fronto-orbital advancement.

Cho DY, Blum JD, Kurnik N, Swanson JW, Susarla SM, Taylor JA, Hopper RA, Bartlett S, Birgfeld CB.
Cleft Palate Craniofac J. 2024 Mar 28;10556656241241963. Epub ahead of print.
[PubMed ID: [38545721](#)]

Patient outcomes and complications following various maxillomandibular fixation techniques: A systematic review and meta-analysis.

Kalluri MH, Edalatpour A, Thadikonda KM, Blum JD, Garland CB, Cho DY.
J Plast Reconstr Aesthet Surg. 2024 Mar 6;92:151-176. Epub ahead of print.
[PubMed ID: [38520780](#)]

Picture perfect: Standardizing and safekeeping clinical photography in plastic surgery.

Thornton SM, Attaluri PK, Wirth PJ, Shaffrey EC, George RE, Carbullido MK, Rao VK.
Aesthet Surg J Open Forum. 2024 Mar 20;6:ojae012.
[PubMed ID: [38510270](#)]

Postnatal myelomeningocele closure in smallest reported neonate: Illustrative case.

Mohis MM, Cordeiro K, Larson S, Garland C, Stadler JA.
J Neurosurg Case Lessons. 2024 Mar 4;7(10):CASE23556. doi: 10.3171/CASE23556.
[PubMed ID: [38437685](#)]

The looming future of private equity in plastic surgery.

Shaffrey EC, Attaluri PK, Wirth PJ, Rao VK.
Aesthet Surg J. 2024 Mar 15;44(4):428-435.
[PubMed ID: [38150274](#)]

SURGICAL ONCOLOGY

An image-rich educational review of breast pain.

Bui AH, Smith GJ, Dyrstad SW, Robinson KA, Herman CR, Owusu-Brackett N, Fowler AM.
J Breast Imaging. 2024 Mar 27:wbae001. Epub ahead of print.
[PubMed ID: [38538078](#)]

ATA risk stratification in papillary thyroid microcarcinoma has low positive predictive value when identifying recurrence.

Tran A, Weigel RJ, Beck AC.
Am J Surg. 2024 Mar;229:106-110. Epub 2023 Nov 2.
[PubMed ID: [37968147](#)]

DNAJB1-PRKACA fusion protein-regulated LINC00473 promotes tumor growth and alters mitochondrial fitness in fibrolamellar carcinoma.

Ma RK, Tsai PY, Farghli AR, Shumway A, Kanke M, Gordan JD, Gujral TS, Vakili K, Nukaya M, Noetzli L, Ronnekleiv-Kelly S, Broom W, Barrow J, Sethupathy P.

PLoS Genet. 2024 Mar 21;20(3):e1011216.

[PubMed ID: [38512964](#)]

Expanded indications for nipple-sparing mastectomy and immediate breast reconstruction in patients older than 60 years.

King CA, Shaposhnik G, Sayyed AA, Bartholomew AJ, Bozzuto LM, Sosin M, Greenwalt IT, Fan KL, Song D, Tousimis EA.

Ann Plast Surg. 2024 Mar 1;92(3):279-284.

[PubMed ID: [38394268](#)]

Faculty entrustment and resident entrustability.

Millar JK, Matusko N, Evans J, Baker SJ, Lindeman B, Jung S, Minter RM, Weinstein E, Goodstein F, Cook MR, Brasel KJ, Sandhu G.

JAMA Surg. 2024 Mar 1;159(3):277-285.

[PubMed ID: [38198146](#)]

Multimodality imaging review of metastatic melanoma involving the breast.

Brodhead M, Woods RW, Fowler AM, Roy M, Neuman H, Gegios A.

Curr Probl Diagn Radiol. 2024 Mar-Apr;53(2):289-296. Epub 2024 Jan 20.

[PubMed ID: [38307731](#)]

Nanodrug-bacteria conjugates-mediated oncogenic collagen depletion enhances immune checkpoint blockade therapy against pancreatic cancer.

Li Z, Mo F, Guo K, Ren S, Wang Y, Chen Y, Schwartz PB, Richmond N, Liu F, Ronnekleiv-Kelly SM, Hu Q.

Med. 2024 Apr 12;5(4):348-367.e7. Epub 2024 Mar 22.

[PubMed ID: [38521069](#)]

Preoperative anemia: impact on short- and long-term outcomes following curative-intent resection of gastroenteropancreatic neuroendocrine tumors.

Xiang JX, Nan YL, He J, Lopez-Aguilar AG, Poultides G, Rocha F, Weber S, Fields R, Idrees K, Cho C, Maithel SK, Lv Y, Zhang XF, Pawlik TM.

J Gastrointest Surg. 2024 Mar 13:S1091-255X(24)00366-4. Epub ahead of print.

[PubMed ID: [38538480](#)]

Validity of entrustable professional activities in a national sample of general surgery residency programs.

Montgomery KB, Mellinger JD, Jones A, McLeod MC, Zmijewski P, Sarosi GA Jr, Brasel KJ, Klingensmith ME, Minter RM, Buyske J, Lindeman B.

J Am Coll Surg. 2024 Apr 1;238(4):376-384. Epub 2024 Mar 15.

[PubMed ID: [38224150](#)]

TRANSPLANTATION

Banff 2022 pancreas transplantation multidisciplinary report: Refinement of guidelines for T cell-mediated rejection, antibody-mediated rejection and islet pathology. Assessment of duodenal cuff biopsies and noninvasive diagnostic methods.

Drachenberg CB, Buettner-Herold M, Aguiar PV, Horsfield C, Mikhailov AV, Papadimitriou JC, Seshan SV, Perosa M, Boggi U, Uva P, Rickels M, Grzyb K, Arend L, Cuatrecasas M, Toniolo MF, Farris AB, Renaudin K, Zhang L, Roufousse C, Gruessner A, Gruessner R, Kandaswamy R, White S, Burke G, Cantarovitch D, Parsons RF, Cooper M, Kudva YC, Kukla A, Haririan A, Parajuli S, Merino-Torres JF, Argente-Pla M, Meier R, Dunn T, Ugarte R, Rao JS, Vistoli F, Stratta R, Odorico J.

Am J Transplant. 2024 Mar;24(3):362-379. Epub 2023 Oct 21.
[PubMed ID: [37871799](#)]

Immunosuppression withdrawal in living-donor renal transplant recipients following induction with antithymocyte globulin and rituximab: Results of a prospective clinical trial.

Markmann JF, Burrell BE, Bromberg JS, Hartono C, Kaufman DB, Posselt AM, Naji A, Bridges ND, Breeden C, Kanaparthi S, Pardo J, Kopetskie H, Mason K, Lim N, Chandran S.
Am J Transplant. 2024 Mar 11:S1600-6135(24)00202-8. Epub ahead of print.
[PubMed ID: [38467375](#)]

Incidence, risk factors, and outcomes of posttransplant erythrocytosis among simultaneous pancreas-kidney transplant recipients.

Gibes ML, Astor BC, Odorico J, Mandelbrot D, Parajuli S.
Transplant Direct. 2024 Mar 7;10(4):e1607.
[PubMed ID: [38464426](#)]

Indications, techniques, and barriers for pancreas transplant biopsy: A consensus perspective from a survey of US centers.

Singh N, Lentine KL, Fleetwood VA, Woodside KJ, Odorico J, Axelrod D, Alhamad T, Maher K, Xiao H, Fridell J, Kukla A, Pavlakis M, Shokouh-Amiri HM, Zibari G, Cooper M, Parsons RF.
Transplantation. 2024 Mar 12. Epub ahead of print.
[PubMed ID: [38467588](#)]

Premalignant lesions in the kidney transplant candidate.

Schroder PM, Biesterveld BE, Al-Adra DP.
Semin Nephrol. 2024 Mar 14:151495. Epub ahead of print.
[PubMed ID: [38490902](#)]

Resource use and financial impact of oral step-down therapy for resistant cytomegalovirus in solid organ transplant recipients.

Kleiboeker H, Descourouez JL, Schulz LT, Mandelbrot DA, Odorico JS, Saddler CM, Smith JA, Jorgenson MR.
Transplant Proc. 2024 Mar;56(2):434-439. Epub 2024 Feb 14.
[PubMed ID: [38355369](#)]

Strategies to improve the utilization and function of DCD livers.

Kim SC, Foley DP.
Transplantation. 2024 Mar 1;108(3):625-633. Epub 2023 Jul 27.
[PubMed ID: [37496117](#)]

The Banff 2022 Kidney Meeting report: Reappraisal of microvascular inflammation and the role of biopsy-based transcript diagnostics.

Naesens M, Roufosse C, Haas M, Lefaucheur C, Mannon RB, Adam BA, Aubert O, Böhmig GA, Callemeyn J, Clahsen-van Groningen M, Cornell LD, Demetris AJ, Drachenberg CB, Einecke G, Fogo AB, Gibson IW, Halloran P, Hidalgo LG, Horsfield C, Huang E, Kikić Ž, Kozakowski N, Nankivell B, Rabant M, Randhawa P, Riella LV, Sapir-Pichhadze R, Schinstock C, Solez K, Tambur AR, Thauinat O, Wiebe C, Zielinski D, Colvin R, Loupy A, Mengel M.
Am J Transplant. 2024 Mar;24(3):338-349. Epub 2023 Oct 28.
[PubMed ID: [38032300](#)]

Waitlist outcomes for exception and non-exception liver transplant candidates in the United States following implementation of the Median MELD at Transplant (MMA_T)/250-mile Policy.

Ishaque T, Beckett J, Gentry S, Garonzik-Wang J, Karhadkar S, Lonze BE, Halazun KJ, Segev D, Massie AB.

Transplantation. 2024 Mar 29. Epub ahead of print.

[PubMed ID: [38548691](#)]

What is hot and new in basic and translational science in liver transplantation in 2023? Report of the Basic and Translational Research Committee of the International Liver Transplantation Society.

Bonaccorsi-Riani E, Ghinolfi D, Czigany Z, Dondossola D, Emamaullee J, Yuksel M, Boteon YL, Al-Adra D, Ho CM, Abdelrahim M, Pang L, Barbas A, Meier R, MacParland S, Sayed BA, Pavan-Guimaraes J, Brüggewirth IMA, Zarrinpar A, Mas VR, Selzner M, Martins PN, Bhat M.

Transplantation. 2024 May 1;108(5):1043-1052. Epub 2024 Mar 18.

[PubMed ID: [38494468](#)]
