



Department of Surgery
UNIVERSITY OF WISCONSIN
SCHOOL OF MEDICINE AND PUBLIC HEALTH

February 2022 Publications

Congratulations to all department members whose research was published in February 2022! The following list is organized by division within the Department of Surgery, with cross-division collaborations noted at the top.

CROSS-DIVISION COLLABORATIONS

Contrasting recruitment of skin-associated adipose depots during cold challenge of mouse and human.

Kasza I, Kühn JP, Völzke H, Hernando D, Xu YG, Siebert JW, Gibson ALF, Yen CE, Nelson DW, MacDougald OA, Richardson NE, Lamming DW, Kern PA, Alexander CM.

J Physiol. 2022 Feb;600(4):847-868.

[PubMed ID: [33724479](#)]

Gender differences in entrustable professional activity evaluations of General Surgery Residents.

Padilla EP, Stahl CC, Jung SA, Rosser AA, Schwartz PB, Aiken T, Acher AW, Abbott DE, Greenberg JA, Minter RM. Ann Surg. 2022 Feb 1;275(2):222-229.

[PubMed ID: [33856381](#)]

Protocol for the MobiMD trial: A randomized controlled trial to evaluate the effect of a self-monitoring mobile app on hospital readmissions for complex surgical patients.

Diehl TM, Barrett JR, Abbott DE, Cherney Stafford LM, Hanlon BM, Yang Q, Van Doorn R, Weber SM, Voils CI. Contemp Clin Trials. 2022 Feb;113:106658.

[PubMed ID: [34954099](#)]

Time heals most wounds - perceptions of thyroidectomy scars in patients with thyroid cancer.

Bach K, Prince S, Pitt SC, Robbins S, Connor NP, Macdonald C, Sippel RS, Long KL.

J Surg Res. 2022 Feb;270:437-443.

[PubMed ID: [34798426](#)]

ACUTE CARE AND REGIONAL GENERAL SURGERY

Antibiotic Therapy in the Intensive Care Unit.

Kisat M, Zarzaur B.

Surg Clin North Am. 2022 Feb;102(1):159-167.

[PubMed ID: [34800384](#)]

Emergency General Surgery quality improvement: A review of recommended structure and key issues.

Ross SW, Reinke CE, Ingraham AM, Holena DN, Havens JM, Hemmila MR, Sakran JV, Staudenmayer KL, Napolitano LM, Coimbra R.

J Am Coll Surg. 2022 Feb 1;234(2):214-225.

[PubMed ID: [35213443](#)]

Major Surgery and long term cognitive outcomes: The effect of postoperative delirium on Dementia in the year following discharge.

Mohanty S, Gillio A, Lindroth H, Ortiz D, Holler E, Azar J, Boustani M, Zarzaur B.

J Surg Res. 2022 Feb;270:327-334.

[PubMed ID: [34731730](#)]

CARDIOTHORACIC SURGERY

Commentary: Will the next improvement in the care of single ventricle patients come from focusing on patient selection for the cavopulmonary shunt?

Bartlett HL, Anagnostopoulos PV.

J Thorac Cardiovasc Surg. 2022 Feb;163(2):410-411.

[PubMed ID: [33993999](#)]

Practice patterns of female cardiothoracic surgeons older than age 58 years: Are we making progress?

Ferrel MN, Gerhard EF, Johnstad CM, Nesbitt K, Pereira SJ, Fiedler AG.

J Thorac Cardiovasc Surg. 2022 Feb 10:S0022-5223(22)00130-1.

[PubMed ID: [35249755](#)]

Unconventional use of total artificial heart in a patient with severe, destructive prosthetic valve endocarditis.

Johnstad C, Bomareddi S, Hermesen JL, Smith JW, Fiedler AG.

J Card Surg. 2022 Feb;37(2):443-444.

[PubMed MID: [34766385](#)]

COLORECTAL SURGERY

PI3K/mTOR inhibition prevents anal cancer in mice with established low-grade anal dysplasia.

Gunder LC, Moyer TH, Rademacher BL, Auyeng AS, Levenson G, Zhang W, Matkowskyj KA, Carchman EH.

Exp Mol Pathol. 2022 Feb 18;125:104752.

[PubMed ID: [35183509](#)]

Research perspective on prognostic significance of lymphocyte-to-monocyte and platelet-to-lymphocyte Ratio in rectal cancer: A systematic review, meta-analysis, and meta-regression.

Sanger CB.

Dis Colon Rectum. 2022 Feb 1;65(2):188.

[PubMed ID: [34784316](#)]

ENDOCRINE SURGERY

Risk stratifying indeterminate thyroid nodules with machine learning.

Luong G, Idarraga AJ, Hsiao V, Schneider DF.

J Surg Res. 2022 Feb;270:214-220.

[PubMed ID: [34706298](#)]

OTOLARYNGOLOGY-HEAD & NECK SURGERY

Correlation between EAT-10 and aspiration risk differs by dysphagia etiology.

Bartlett RS, Kenz MK, Wayment HA, Thibeault SL.

Dysphagia. 2022 Feb;37(1):11-20.

[PubMed ID: [33486590](#)]

Differences in dopamine and opioid receptor ratios in the nucleus accumbens relate to physical contact and undirected song in pair-bonded zebra finches.

Alger SJ, Stevenson SA, Vega AA, Kelm-Nelson CA, Juang CV, Ritters LV.

Behav Neurosci. 2022 Feb;136(1):72-83.

[PubMed ID: [34618494](#)]

Manipulation of vocal communication and anxiety through pharmacologic modulation of norepinephrine in the Pink1-/- rat model of Parkinson disease.

Hoffmeister JD, Kelm-Nelson CA, Ciucci MR.

Behav Brain Res. 2022 Feb 10;418:113642.

[PubMed ID: [34755639](#)]

Marrow-derived autologous stromal cells for the restoration of salivary hypofunction (MARSH): Study protocol for a phase 1 dose-escalation trial of patients with xerostomia after radiation therapy for head and neck cancer: MARSH: Marrow-derived autologous stromal cells for the restoration of salivary hypofunction.

Blitzer GC, Rogus-Pulia NM, Mattison RJ, Varghese T, Ganz O, Chappell R, Galipeau J, McDowell KA, Meyers RO, Glazer TA, Kimple RJ.

Cytotherapy. 2022 Feb 16:S1465-3249(21)00886-0.

[PubMed ID: [35183442](#)]

Progressive inflammatory process of the mandible and surrounding soft tissues.

Qadadha YM, Gauthier GM, Hartig GK.

JAMA Otolaryngol Head Neck Surg. 2022 Feb 1;148(2):193-194.

[PubMed ID: [34882226](#)]

Sensitivity of palpation for detection of thyroid nodules with attention to size.

Hsiao V, Arroyo N, Fernandes-Taylor S, Chiu AS, Davies L, Francis DO.

Thyroid. 2022 Feb 25.

[PubMed ID: [35216527](#)]

The radial forearm snake flap: An underutilized technique for fasciocutaneous and osteocutaneous forearm flaps with primary closure.

Gessert TG, Pflum ZE, Thompson JD, Hoffman MR, Sanchez R, Glazer TA, Wieland AM, McCulloch TM, Hartig GK.

Head Neck. 2022 Feb 14.

[PubMed ID: [35165977](#)]

PEDIATRIC SURGERY

Acid suppression duration does not alter anastomotic stricture rates after esophageal atresia with distal tracheoesophageal fistula repair: A prospective multi-institutional cohort study.

Bowder AN, Bence CM, Rymeski BA, Gadepalli SK, Sato TT, Szabo A, Arendonk KV, Minneci PC, Downard CD, Hirschl RB, Markel T, Courtney CM, Deans KJ, Fallat ME, Fraser JD, Grabowski JE, Helmrath MA, Kabre RD, Kohler JE, Landman MP, Lawrence AE, Leys CM, Mak G, Port E, Saito J, Silverberg J, Slidell MB, St Peter SD, Troutt M, Wright TN, Lal DR; Midwest Pediatric Consortium.

J Pediatr Surg. 2022 Feb 14:S0022-3468(22)00142-7.

[PubMed ID: [35304025](#)]

Impact of "Stay-at-Home" orders on non-accidental trauma: A multi-institutional study.

Collings AT, Farazi M, Van Arendonk K, Fallat ME, Minneci PC, Sato TT, Speck KE, Deans KJ, Falcone RA, Foley DS, Fraser JD, Keller MS, Kotagal M, Landman MP, Leys CM, Markel T, Rubalcava N, St Peter SD, Flynn-O'Brien KT; Midwest Pediatric Surgery Consortium.

J Pediatr Surg. 2022 Feb 14:S0022-3468(22)00130-0.

[PubMed ID: [35292165](#)]

Interhospital variability in localization techniques for small pulmonary nodules in children: A pediatric surgical oncology research collaborative study.

Morgan KM, Anderson KT, Johnston ME, Dasgupta R, Crowley JJ, Fahy AS, Lapidus-Krol E, Baertschiger RM, Lautz TB, Many BT, Marquart JP, Gainer H, Lal DR, Rich BS, Glick RD, MacArthur TA, Polites SF, Kastenberger ZJ, Short SS, Meyers RL, Talbot L, Abdelhafeez A, Prajapati H, Davidoff AM, Rubaclava N, Newman E, Ehrlich PF, Rothstein DH, Roach JP, Ladd P, Janek KC, Le HD, Leraas HJ, Tracy ET, Bisset L, Mora MC, Warren P, Aldrink JH, Malek MM.

J Pediatr Surg. 2022 Feb 23:S0022-3468(22)00139-7.

[PubMed ID: [35307194](#)]

Laparoscopy versus laparotomy for pediatric ovarian dermoids.

Knaus ME, Onwuka AJ, Afrazi A, Breech L, Corkum KS, Dillon PA, Ehrlich PF, Fallat ME, Fraser JD, Gadepalli SK, Grabowski JE, Hertweck SP, Kabre R, Lal DR, Landman MP, Lawrence AE, Leys CM, Mak GZ, Markel TA, Merchant N, Elliott Overman R, Rademacher BL, Raiji MT, Rymeski B, Sato TT, Scannell M, Schikler AG, Sujka JA, Wright T, Aldrink JH, Hewitt GD, Minneci PC, Deans KJ; Midwest Pediatric Surgery Consortium.

J Pediatr Surg. 2022 Feb 12:S0022-3468(22)00134-8.

[PubMed ID: [35292164](#)]

Multi-institutional review of the preoperative diagnostic accuracy for pediatric ovarian mature cystic teratomas.

Knaus ME, Onwuka AJ, Afrazi A, Breech L, Corkum KS, Dillon PA, Ehrlich PF, Fallat ME, Fraser JD, Gadepalli SK, Grabowski JE, Hertweck SP, Kabre R, Lal DR, Landman MP, Lawrence AE, Leys CM, Mak GZ, Markel TA, Merchant N, Overman RE, Rademacher BL, Raiji MT, Rymeski B, Sato TT, Scannell M, Schikler AG, Sujka JA, Wright T, Aldrink JH, Hewitt GD, Minneci PC, Deans KJ; Midwest Pediatric Surgery Consortium.

J Pediatr Adolesc Gynecol. 2022 Feb 3:S1083-3188(22)00031-6.

[PubMed ID: [35124214](#)]

PLASTIC SURGERY

Diversity in Plastic Surgery authorship: A 14-year analysis of 2688 articles published in Plastic and Reconstructive Surgery.

Gunderson KA, Edalatpour A, Wood KL, Nkana ZH, Bentz ML, Afifi AM.

Plast Reconstr Surg. 2022 Feb 1;149(2):313e-322e.

[PubMed ID: [35077432](#)]

Electronic bone growth stimulators for augmentation of Osteogenesis in In Vitro and In Vivo models: A narrative review of electrical stimulation mechanisms and device specifications.

Nicksic PJ, Donnelly DT, Hesse M, Bedi S, Verma N, Seitz AJ, Shoffstall AJ, Ludwig KA, Dingle AM, Poore SO. Front Bioeng Biotechnol. 2022 Feb 14;10:793945.

[PubMed ID: [35237571](#)]

To Zoom or not to Zoom: Weighing the pros and cons of the virtual Plastic Surgery Residency interview.

Zhang R, Schappe A, Salyapongse N, Bentz M. Plast Reconstr Surg. 2022 Feb 1;149(2):365e-366e.

[PubMed ID: [34958642](#)]

SURGICAL ONCOLOGY

ASO author reflections: Understanding the broader implications of the volume-outcome impact on pancreas cancer surgery.

Acher AW, Weber SM, Pawlik TM. Ann Surg Oncol. 2022 Feb;29(2):1269-1270.

[PubMed ID: [34537896](#)]

Development of a prognostic nomogram and nomogram software application tool to predict overall survival and disease-free survival after curative-intent gastrectomy for gastric cancer.

Spolverato G, Capelli G, Lorenzoni G, Gregori D, Squires MH, Poultides GA, Fields RC, Bloomston MP, Weber SM, Votanopoulos KI, Acher AW, Jin LX, Hawkins WG, Schmidt CR, Kooby DA, Worhunsky DJ, Saunders ND, Levine EA, Cho CS, Maithel SK, Pucciarelli S, Pawlik TM. Ann Surg Oncol. 2022 Feb;29(2):1220-1229.

[PubMed ID: [34523000](#)]

Does the volume-outcome association in pancreas cancer surgery justify regionalization of care? A review of current controversies.

Acher AW, Weber SM, Pawlik TM. Ann Surg Oncol. 2022 Feb;29(2):1257-1268.

[PubMed ID: [34522998](#)]

Imaging assessment of pancreatic cancer resectability after neoadjuvant therapy: AJR expert panel narrative review.

Soloff EV, Al-Hawary MM, Dessler TS, Fishman EK, Minter RM, Zins M. AJR Am J Roentgenol. 2022 Feb 9:1-12.

[PubMed ID: [34851713](#)]

Increased intraoperative faculty entrustment and resident entrustability does not compromise patient outcomes after general surgery procedures.

Williams AM, Karmakar M, Thompson-Burdine J, Matusko N, Ji S, Kamdar N, Seiler K, Minter RM, Sandhu G. Ann Surg. 2022 Feb 1;275(2):e366-e374.

[PubMed ID: [32541221](#)]

Prognostic significance of preoperative tumor markers in Pseudomyxoma peritonei from low-grade appendiceal mucinous neoplasm: a study from the US HIPEC Collaborative.

Nizam W, Fackche N, Pessoa B, Kubi B, Cloyd JM, Grotz T, Fournier K, Dineen S, Veerapong J, Baumgartner JM, Clarke C, Patel SH, Wilson GC, Lambert L, Abbott DE, Vande Walle KA, Lee B, Raoof M, Maithel SK, Russell MC, Zaidi MY, Johnston FM, Greer JB.

J Gastrointest Surg. 2022 Feb;26(2):414-424.

[PubMed ID: [34506026](#)]

Surgical treatment of neuroendocrine tumors of the terminal ileum or cecum: ileocectomy versus right hemicolectomy.

Li MX, Lopez-Aguilar AG, Poultides G, Rocha F, Weber S, Fields R, Idrees K, Cho C, Maithel SK, Zhang XF, Pawlik TM.

J Gastrointest Surg. 2022 Feb 11.

[PubMed ID: [35149952](#)]

TRANSPLANTATION

Antibody response to an mRNA SARS-CoV-2 vaccine following initial vaccination with Ad.26.COV2.S in solid organ transplant recipients: A case series.

Chang A, Alejo JL, Abedon AT, Mitchell J, Chiang TP, Boyarsky BJ, Avery RK, Tobian AAR, Levan ML, Warren DS, Massie AB, Garonzik-Wang JM, Segev DL, Werbel WA.

Transplantation. 2022 Feb 1;106(2):e161-e162.

[PubMed ID: [34789691](#)]

Association of transplant center market concentration and local organ availability with deceased donor kidney utilization.

Husain SA, King KL, Cron DC, Neidlinger NA, Ng H, Mohan S, Adler JT.

Am J Transplant. 2022 Feb 25.

[PubMed ID: [35213789](#)]

Cross-decoration of dendritic cells by non-inherited maternal antigen-containing extracellular vesicles: Potential mechanism for PD-L1-based tolerance in cord blood and organ transplantation.

Lema DA, Jankowska-Gan E, Nair A, Kanaan SB, Little CJ, Foley DP, Raza Naqvi A, Wang J, Hong S, Nelson JL, Al-Adra D, Burlingham WJ, Sullivan JA.

Am J Transplant. 2022 Feb 10.

[PubMed ID: [35143105](#)]

Fever, skin nodules, and hyperintense intramuscular leg lesions in a liver transplant patient.

Thiessen C, Ling I, Horvai A, Kang SM.

Am J Transplant. 2022 Feb;22(2):658-661.

[PubMed ID: [35113491](#)]

Improved antibody response after a fifth dose of a SARS-CoV-2 vaccine in solid organ transplant recipients: A case series.

Abedon AT, Teles MS, Alejo JL, Kim JD, Mitchell J, Chiang TPY, Avery RK, Tobian AAR, Levan ML, Warren DS, Massie AB, Garonzik-Wang JM, Segev DL, Werbel WA.

Transplantation. 2022 Feb 15.

[PubMed ID: [35175241](#)]

Letemovir conversion after valganciclovir treatment in cytomegalovirus high-risk abdominal solid organ transplant recipients may promote development of cytomegalovirus-specific cell mediated immunity.

Jorgenson MR, Kleiboeker H, Garg N, Parajuli S, Mandelbrot DA, Odorico JS, Saddler CM, Smith JA.
Transpl Infect Dis. 2022 Feb;24(1):e13766.
[PubMed ID: [34799964](#)]

Surgical complications after living and deceased donor liver transplant: The NSQIP transplant experience.

Amara D, Parekh J, Sudan D, Elias N, Foley DP, Conzen K, Grieco A, Braun HJ, Greenstein S, Byrd C, Ko C, Hirose R.
Clin Transplant. 2022 Feb 10:e14610.
[PubMed ID: [35143698](#)]

Utility of protocol pancreas biopsies for De Novo donor-specific antibodies.

Parajuli S, Mandelbrot D, Odorico J.
Transplant Direct. 2022 Feb 11;8(3):e1287.
[PubMed ID: [35187214](#)]

VASCULAR SURGERY

"You have to be sure that the patient has the full picture": Adaptation of the best case/worst case communication tool for geriatric oncology.

Wong ML, Nicosia FM, Smith AK, Walter LC, Lam V, Cohen HJ, Loh KP, Mohile SG, Ursem CJ, Schwarze ML.
J Geriatr Oncol. 2022 Feb 2:S1879-4068(22)00015-7.
[PubMed ID: [35123919](#)]

Deciphering cell-cell communication in abdominal aortic aneurysm from single-cell RNA transcriptomic data.

Yang H, DeRoo E, Zhou T, Liu B.
Front Cardiovasc Med. 2022 Feb 4;9:831789.
[PubMed ID: [35187133](#)]

Mycobacterium bovis causing mycotic aneurysm secondary to intravesical treatment with Bacillus Calmette-Guérin: A case report.

Zaza SI, Ghasemzadeh A, Bennett KM.
Ann Vasc Surg. 2022 Feb;79:437.e1-437.e6.
[PubMed ID: [34644643](#)]

The American College of Surgeons as an advocate for global surgery awareness.

Bell N, Tefera G, Melone M, Bass B.
Surgeon. 2022 Feb;20(1):61-65.
[PubMed ID: [34961700](#)]

Understanding who benefits from endovascular aortic repair in those deemed unfit for open repair.

Khoury MK, Heid CA, Rectenwald JE, Acher CW, Tsai S, Ramanan B, Timaran CH, Modrall JG.
J Vasc Surg. 2022 Feb 25:S0741-5214(22)00382-2.
[PubMed ID: [35227800](#)]