



## Department of Surgery

UNIVERSITY OF WISCONSIN

SCHOOL OF MEDICINE AND PUBLIC HEALTH

### APRIL 2025 PUBLICATIONS

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

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#### **CROSS-DIVISION COLLABORATIONS**

**Children with facial differences experience deficits in emotion skills.**

Fujiki RB, Zhao F, Garland CB, Niedenthal PM, Thibeault SL.

Emotion. 2025 Apr;25(3):621-632. doi: 10.1037/emo0001432. Epub 2024 Oct 10.

PMID: [39388096](#); PMCID: PMC11908934.

**Laser hair removal may be a primary treatment of pilonidal disease: A pilot study.**

Janecek KC, Kenfield M, Stafford LC, Stalter L, Carchman E, Leys CM, Nichol P, Brinkman A, Arkin LM, Le HD.

J Pediatr Surg. 2025 Apr;60(4):162182. doi: 10.1016/j.jpedsurg.2025.162182. Epub 2025 Jan 25.

PMID: [39893840](#); PMCID: PMC11993338.

**Rectal cancer disparities among the American Indian/Alaskan Native populations.**

Kelley BS, Carroll CB, Hampton JM, Walker MR, Zafar SN, Hayden D, Schiefelbein A, Vidri RJ, Thompson BB, LoConte NK.

Cancer Med. 2025 Apr;14(8):e70892. doi: 10.1002/cam4.70892.

PMID: [40251934](#); PMCID: PMC12008663.

**Subclonal response heterogeneity to define cancer organoid therapeutic sensitivity.**

Kratz JD, Rehman S, Johnson KA, Gillette AA, Sunil A, Favreau PF, Pasch CA, Miller D, Zarling LC, Yeung AH, Clipson L, Anderson SJ, Steimle AK, Sprackling CM, Lemmon KK, Abbott DE, Burkard ME, Bassetti MF, Eickhoff JC, Foley EF, Heise CP, Kimple RJ, Lawson EH, LoConte NK, Lubner SJ, Mulkerin DL, Matkowskyj KA, Sanger CB, Uboha NV, McIlwain SJ, Ong IM, Carchman EH, Skala MC, Deming DA.

Sci Rep. 2025 Apr 9;15(1):12072. doi: 10.1038/s41598-025-96204-2.

PMID: [40200028](#); PMCID: PMC11978853.

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#### **ACUTE CARE AND REGIONAL GENERAL SURGERY**

**Cultivating rural surgeons: An analysis of the current rural surgery graduate medical education landscape and a roadmap to program creation.**

Abid M, Rodefeld L, Adhikari M, Jarman B, McDougall L, O'Rourke AP, Amiri F, Hawes EM.

J Surg Educ. 2025 Apr;82(4):103446. doi: 10.1016/j.jsurg.2025.103446. Epub 2025 Feb 15. Erratum in: J Surg Educ. 2025 May;82(5):103503. doi: 10.1016/j.jsurg.2025.103503. PMID: [39956080](#).

**Establishing an ex vivo porcine skin model to investigate the effects of broad spectrum antiseptic on viable skin microbial communities.**

Townsend EC, Xu K, De La Cruz K, Huang L, Sandstrom S, Meudt J, Shanmuganayagam D, Huttenlocher A, Gibson ALF, Kalan L.  
bioRxiv [Preprint]. 2025 Apr 3:2025.04.03.647100. doi: 10.1101/2025.04.03.647100.  
PMID: [40236253](#); PMCID: PMC11996500.

**Important nutritional concepts and recommendations at the level of medical school education.**

Benavides H, Busch R, Liston C, Mahmood Z, Openshaw S, Palchaudhuri S, Pandey A, Wood D, Rocha J.  
Curr Nutr Rep. 2025 Apr 9;14(1):59. doi: 10.1007/s13668-025-00648-x.  
PMID: [40202556](#).

**Is it the holy grail or snake oil?**

Gibson ALF, Faucher LD.  
Ann Surg. 2025 Apr 1;281(4):559-560. doi: 10.1097/SLA.0000000000006556. Epub 2024 Oct 3.  
PMID: [39360408](#).

**Still not sterile: Viability-based assessment of the skin microbiome following pre-surgical application of a broad-spectrum antiseptic reveals transient pathogen enrichment and long-term recovery.**

Townsend EC, Xu K, De La Cruz K, Huang L, Sandstrom S, Arend D, Gromek O, Scarborough J, Huttenlocher A, Gibson ALF, Kalan LR.  
Microbiol Spectr. 2025 Apr 10;13(5):e0287324. doi: 10.1128/spectrum.02873-24. Epub ahead of print.  
PMID: [40207941](#); PMCID: PMC12054058.

**The effect of ridesharing services on motor vehicle crash outcomes: A systematic review and practice management guideline from the Eastern Association for the Surgery of Trauma.**

Kaufman EJ, Jung HS, Teichman A, Colosimo C, Brewer JM, Perea LL, Dultz L, Dvorak J, Lu N, Weston R, Kartiko S, Qiu KM, Rakhit S, Murphy P.  
J Trauma Acute Care Surg. 2025 Apr 4. doi: 10.1097/TA.0000000000004614. Epub ahead of print.  
PMID: [40181210](#).

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## **CARDIOTHORACIC SURGERY**

**Anastomotic leak after esophagectomy: Analysis of the STS General Thoracic Surgery Database.**

Axtell AL, Angeles C, McCarthy DP, Maloney JD, Leverson GE, DeCamp MM.  
Ann Thorac Surg. 2025 Apr;119(4):796-804. doi: 10.1016/j.athoracsur.2024.12.019. Epub 2025 Jan 24.  
PMID: [39864771](#).

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## **COLORECTAL SURGERY**

**Expert commentary on declining colorectal cancer operations after neoadjuvant therapy: Having the difficult conversations.**

De Roo AC.

Dis Colon Rectum. 2025 Apr 8. doi: 10.1097/DCR.0000000000003782. Epub ahead of print.  
PMID: [40197425](#).

**National analysis of more than 48,000 veterans with HIV demonstrates CD4/CD8 ratio as a risk marker for anal intraepithelial lesions and anal cancer.**

Hewitt AJ, Freeman MJ, Levenson GE, Bailey HH, Carchman EH, Striker R, Sanger CB.  
Dis Colon Rectum. 2025 Apr 1;68(4):399-407. doi: 10.1097/DCR.0000000000003611. Epub 2025 Jan 2.  
PMID: [39745282](#).

**On demonstrating reliable, patient-centered surgical decision making.**

Berian JR.  
J Am Coll Surg. 2025 Apr 9. doi: 10.1097/XCS.0000000000001407. Epub ahead of print.  
PMID: [40202201](#).

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## **ENDOCRINE SURGERY**

**Predicting disease-specific survival in patients undergoing active surveillance for papillary thyroid carcinoma.**

Nielsen S, Kuchta K, Huang G, Zuber S, Holoubek S, Karcioğlu A, Khokar A, Prinz R, Moo-Young T.  
World J Surg. 2025 Apr;49(4):1011-1021. doi: 10.1002/wjs.12434. Epub 2024 Dec 19.  
PMID: [39702859](#); PMCID: PMC11994147.

**Response regarding: "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 Apr 17:S0022-4804(25)00133-7. doi: 10.1016/j.jss.2025.03.012. Epub ahead of print.  
PMID: [40251046](#).

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## **MINIMALLY INVASIVE SURGERY**

**Response regarding: Using machine learning to predict weight gain in adults: An observational analysis from the All of Us research program.**

Lauer KV, Jawara D, Stalter LN, Hanlon B, Churpek MM, Funk LM.  
J Surg Res. 2025 Apr 12:S0022-4804(25)00131-3. doi: 10.1016/j.jss.2025.03.011. Epub ahead of print.  
PMID: [40222865](#).

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## **OTOLARYNGOLOGY-HEAD & NECK SURGERY**

**Defining pharyngeal and upper esophageal sphincter disorders on high-resolution manometry-impedance: The Leuven Consensus.**

Omari TI, Maclean JCF, Cock C, McCulloch TM, Nativ-Zeltzer N, O'Rourke AK, Szczesniak MM, Wu PI, Allen J, Aoyagi Y, Bayona HHG, Carrión S, Ciucci MR, Davidson K, Dhar SI, Hamdy S, Howell R, Jones C, Knigge MA, Moonen A, Postma GN, Puntil-Sheltman J, Rameau A, Regan J, Schar M, Rommel N.  
Neurogastroenterol Motil. 2025 Apr 9:e70042. doi: 10.1111/nmo.70042. Epub ahead of print.  
PMID: [40202098](#).

**Effects of sustained semi-occluded vocal tract exercises in non-disordered populations.**

Holm JR, Wischhoff OP, Gilvydis TK, Prosser BD, Bhowmik A, Bienhold GJ, Jiang JJ.

J Voice. 2025 Apr 25:S0892-1997(25)00152-3. doi: 10.1016/j.jvoice.2025.04.003. Epub ahead of print.

PMID: [40287308](#).

**Efficacy of a Tesla valve straw in a semi-occluded vocal tract exercise in a normal-voiced population.**

Wischhoff OP, Holm JR, Shankar SSR, Bienhold GJ, Jiang JJ.

J Voice. 2025 Apr 16:S0892-1997(25)00128-6. doi: 10.1016/j.jvoice.2025.03.036. Epub ahead of print.

PMID: [40246614](#).

**Laryngeal aerodynamics, acoustics, and hypernasality in children with cleft palate.**

Fujiki RB, Munday J, Johnson R, Thibeault SL.

J Speech Lang Hear Res. 2025 Apr 8;68(4):1676-1690. doi: 10.1044/2024\_JSLHR-24-00763. Epub 2025 Feb 28.

PMID: [40020658](#).

**Lasers in office-based laryngology.**

Schoeff S, Dailey SH, Chau S.

Otolaryngol Clin North Am. 2025 Apr 14:S0030-6665(25)00040-4. doi: 10.1016/j.otc.2025.03.004. Epub ahead of print.

PMID: [40234171](#).

**National trends in treatment of acute unilateral vocal fold paralysis at tertiary care voice centers.**

Ring S, Colwell N, Bowen AJ, Arroyo N, Lakpa KL, Faus J, Rasmussen M, Nordby P, Zhao J, Francis DO; CoPE Collaborative.

Laryngoscope Investig Otolaryngol. 2025 Apr 2;10(2):e70135. doi: 10.1002/liv.70135.

PMID: [40177257](#); PMCID: PMC11963072.

**Patient selection for efficacious mandibular advancement device therapy in obstructive sleep apnea: An institutional outcomes analysis.**

Nanda N, Robertson A, Upton DC.

Ann Otol Rhinol Laryngol. 2025 Apr 26:34894251334725. doi: 10.1177/00034894251334725. Epub ahead of print.

PMID: [40285532](#).

**Practice patterns in speech-language pathologist treatment of induced laryngeal obstruction.**

Fujiki RB, Venkatraman A, Thibeault SL.

Am J Speech Lang Pathol. 2025 May 6;34(3):1269-1288. doi: 10.1044/2025\_AJSLP-24-00430. Epub 2025 Apr 21.

PMID: [40258115](#); PMCID: PMC12083767.

**Pregnancy and parity as risk factors for recurrence in idiopathic subglottic stenosis.**

Awadallah AS, Fearington FW, Khalil YH, Bowen AJ, Ali HM, Li Y, Francis DO, Dailey SH, Edell ES, Koster MJ, Bayan SL, Ekbohm DC.

Otolaryngol Head Neck Surg. 2025 Apr 10. doi: 10.1002/ohn.1255. Epub ahead of print.

PMID: [40211691](#).

**Protein aggregation identified in olfactory neuronal cells is associated with cognitive impairments in a subset of living schizophrenia patients.**

Nucifora LG, Ishizuka K, El Demerdash N, Lee BJ, Imai MT, Ayala-Grosso C, Yenokyan G, Cascella NG, Lin S, Schretlen DJ, Harvey PD, Margolis RL, Ross CA, Sawa A, Nucifora FC Jr.

Mol Psychiatry. 2025 Apr 3. doi: 10.1038/s41380-025-02956-8. Epub ahead of print.

PMID: [40181190](#).

**Recurrent inflammatory reaction to laryngeal hyaluronic acid injection.**

Kreuser H, Fletcher KC, Davis RJ.

Ann Otol Rhinol Laryngol. 2025 Apr;134(4):291-293. doi: 10.1177/00034894241304489. Epub 2024 Nov 30.

PMID: [39614754](#).

**RNA-sequencing demonstrates transcriptional differences between human vocal fold fibroblasts and myofibroblasts.**

Bretl M, Cheng L, Kendzierski C, Thibeault SL.

BMC Genomics. 2025 Apr 7;26(1):347. doi: 10.1186/s12864-025-11533-w.

PMID: [40197133](#); PMCID: PMC11974177.

**Side-lying position is associated with improved swallow outcomes when compared to semi-upright position in infants with dysphagia.**

Fujiki RB, Nimtz A, Thibeault SL.

Am J Speech Lang Pathol. 2025 May 6;34(3):1366-1379. doi: 10.1044/2025\_AJSLP-24-00473. Epub 2025 Apr 21.

PMID: [40258117](#); PMCID: PMC12083765.

**Submucosal thyroarytenoid myectomy with arytenoidectomy in treating bilateral vocal fold immobility.**

Damazo B, Nanda N, Dailey S.

Laryngoscope. 2025 Apr;135(4):1460-1464. doi: 10.1002/lary.31890. Epub 2024 Nov 6.

PMID: [39503468](#); PMCID: PMC11903930.

**Surgical recurrence across endoscopic surgical techniques in idiopathic subglottic stenosis.**

Bowen AJ, Awadallah AS, Ali H, McCalla M, Roitman A, Levenson G, Khalil YH, Ring S, Edell E, Bayan S, Koster M, Xie K, Davis R, Francis DO, Dailey SH, Ekbom D.

Laryngoscope. 2025 Apr 15. doi: 10.1002/lary.32181. Epub ahead of print.

PMID: [40231755](#).

**The San Diego consensus for laryngopharyngeal symptoms and laryngopharyngeal reflux disease.**

Yadlapati R, Weissbrod P, Walsh E, Carroll TL, Chan WW, Gartner-Schmidt J, Guadagnoli L, Jette M, Myers JC, O'Rourke A, Sweis R, Wu J, Barkmeier-Kraemer JM, Cates D, Chen CL, Coss-Adame E, Dion G, Francis D, Kaneko M, Lechien JR, Misono S, Rameau A, Roman S, Vertigan A, Xiao Y, Zerbib F, Greytak M, Pandolfino JE, Gyawali CP.

Am J Gastroenterol. 2025 Apr 8. doi: 10.14309/ajg.0000000000003482. Epub ahead of print.

PMID: [40197644](#).

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**PEDIATRIC SURGERY**

**Roles of pediatric surgeons in palliative pediatric oncology.**

Le HD, Braungart S, Shalkow-Klincovstein J, Piché N.

Pediatr Blood Cancer. 2025 Apr;72 Suppl 2:e31354. doi: 10.1002/pbc.31354. Epub 2024 Oct 4.

PMID: [39367580](#).

**Screening ultrasound for deep vein thrombosis detection in high-risk pediatric trauma.**

Witte AB, Van Arendonk K, Falcone RA Jr, Moody S, Hartman HA, Evans E, Thakkar R, Patterson KN, Minneci PC, Mak GZ, Slidell MB, Johnson M, Landman MP, Markel TA, Leys CM, Cherney Stafford L, Draper J, Foley DS, Downard C, Skaggs TM, Lal DR, Ehrlich PF, Gourlay D.

Pediatr Surg Int. 2025 Apr 24;41(1):124. doi: 10.1007/s00383-025-06027-5.  
PMID: [40272548](#).

**Stress and strain: Ergonomic practices and associated injuries among pediatric surgeons.**

Tan SF, Stellon M, Joshi D, Hellner J, Ignacio RC, Van Arendonk KJ, Rich BS, Raval MV, Perrone EE, Moriarty KP, Walsh DS, Fisher JC, Buchmiller TL, Gow KW, Le HD.

J Surg Res. 2025 Apr 21;310:1-7. doi: 10.1016/j.jss.2025.03.037. Epub ahead of print.

PMID: [40262229](#).

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## **PLASTIC SURGERY**

**A comprehensive approach to Robin sequence.**

Shakir S, Garland CB.

Clin Plast Surg. 2025 Apr;52(2):245-258. doi: 10.1016/j.cps.2024.10.005. Epub 2025 Jan 9.

PMID: [39986886](#).

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## **SURGICAL ONCOLOGY**

**Advancing the evaluation and management of CDH1-associated gastric cancer.**

Lerner BA, Gupta S, Burke CA, Kupfer S, Katona BW, Grady WM, Samadder JJ, Yurgelun MB, Kelly KJ, Moreno Prats M, Joseph N, Idos GE, Swanson BJ, Kieber-Emmons A, Weiss JM, Llor X.

J Natl Compr Canc Netw. 2025 Apr;23(4):e257006. doi: 10.6004/jnccn.2025.7006.

PMID: [40203872](#).

**Diagnostic advances and novel therapeutics in peritoneal metastasis.**

Sigler GI, Murtha J, Varley PR.

Surg Oncol Clin N Am. 2025 Apr;34(2):173-194. doi: 10.1016/j.soc.2024.12.005. Epub 2025 Jan 27.

PMID: [40015798](#).

**DNAJ-PKAc fusion heightens PLK1 inhibitor sensitivity in fibrolamellar carcinoma.**

Chan M, Zhu S, Nukaya M, Ferreira LT, Ronnekleiv-Kelly SM, Riehle KJ, Scott JD, Yeung RS, Gujral TS.

Gut. 2025 Apr 24;gutjnl-2024-334274. doi: 10.1136/gutjnl-2024-334274. Epub ahead of print.

PMID: [40274389](#).

**Feedback perceived by general surgery residents: What is the influence of program characteristics?**

Akhund R, Wilson DDM, McLeod MC, Jones AT, Sarosi G, Brasel K, Minter RM, Mellinger J, Buyske J, Lindeman B.

J Surg Educ. 2025 Jun;82(6):103508. doi: 10.1016/j.jsurg.2025.103508. Epub 2025 Apr 2.

PMID: [40179797](#).

**Frailty and survival for diagnoses feasibly managed operatively or nonoperatively.**

Mosher E, Nassereldine H, McKibben JC, Johanning J, Arya S, Massarweh NN, Shah R, Shinall M, Shireman P, Varley PR, George EL, Youk A, Backhus L, Brown AJ, Christie N, Dhupar R, Donnellan N, Giori NJ, Goede MR, Guido R, Lee J, Griffin Miller JL, Siebler JC, Tonetti DA, Vincent SA, Reitz KM, Hall DE.

Ann Surg. 2025 Apr 28. doi: 10.1097/SLA.0000000000006739. Epub ahead of print.

PMID: [40293277](#).

**Machine learning to predict early death despite pancreaticoduodenectomy.**

Ahmed KS, Marcinak CT, Issaka SM, Ali MM, Zafar SN.

J Surg Res. 2025 Apr 26;310:186-193. doi: 10.1016/j.jss.2025.03.047. Epub ahead of print.

PMID: [40288090](#).

**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.

**Predicting severe postoperative complications after CRS-HIPEC: An externally validated machine-learning tool.**

Ashraf Ganjouei A, Wang J, Yi C, Romero-Hernandez F, Alseidi A, Abbott D, Zafar SN, Fournier KF, Staley CA, Dineen S, Raoof M, Bartlett DL, Cloyd JM, Choudry HM, Adam MA.

World J Surg. 2025 Apr 28. doi: 10.1002/wjs.12601. Epub ahead of print.

PMID: [40295427](#).

**Risk of recurrence and cancer stem cell marker CD133 expression vary in males versus females with papillary thyroid cancer.**

Chang J, Alzayadneh EM, Rajan A, Tran A, Weigel RJ, Beck AC.

Ann Surg Oncol. 2025 Apr 11. doi: 10.1245/s10434-025-17256-2. Epub ahead of print.

PMID: [40214912](#).

**Sumoylated Etv1 establishes mouse mammary cancer stem cells that support tumorigenesis by non-stem cancer cells.**

Li Z, Koch KE, Thompson DT, Van der Heide DM, Chang J, Franke CM, Suraju MO, Beck AC, Lorenzen AW, White JR, Bartschat NI, Kulak MV, Meyerholz DK, Kenny C, Weigel RJ.

Dev Cell. 2025 Apr 25:S1534-5807(25)00207-2. doi: 10.1016/j.devcel.2025.04.005. Epub ahead of print.

PMID: [40315856](#).

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## **TRANSPLANTATION**

**Chronic rejection after kidney transplantation.**

Diebold M, Mayer KA, Hidalgo L, Kozakowski N, Budde K, Böhmig GA.

Transplantation. 2025 Apr 1;109(4):610-621. doi: 10.1097/TP.0000000000005187. Epub 2024 Aug 28.

PMID: [39192468](#); PMCID: PMC11927446.

**Kidney delayed graft function in simultaneous pancreas-kidney transplant recipients is associated with inferior outcomes.**

Firmino SN, Fedorova E, Alshaikh EA, Kaufman D, Odorico J, Mandelbrot D, Astor BC, Parajuli S.

Transplant Direct. 2025 Apr 17;11(5):e1797. doi: 10.1097/TXD.0000000000001797.

PMID: [40256683](#); PMCID: PMC12007875.

**Proteome-wide investigation of proline hydroxylation in pancreatic ductal adenocarcinoma using DiLeu isobaric labeling strategy.**

Wu F, Tabang DN, Wang D, Odorico JS, Li L.

Mol Cell Proteomics. 2025 Apr 9;100969. doi: 10.1016/j.mcpro.2025.100969. Epub ahead of print.



PMID: [40216311](#).

**The impact of HLA-DQαβ heterodimer mismatch on living donor kidney allograft outcomes.**

Charnaya O, Ishaque T, Hallett A, Morris GP, Coppage M, Schmitz JL, Timofeeva O, Lázár-Molnár E, Zhang A, Krummey S, Hidalgo L, Segev DL, Tambur AR, Massie AB.

Transplantation. 2025 Apr 1;109(4):720-728. doi: 10.1097/TP.0000000000005198. Epub 2024 Sep 5.

PMID: [39233325](#); PMCID: PMC11880352.

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**VASCULAR SURGERY**

**A study of internal structure validity for the American Board of Surgery in training examination.**

Carter TM, Sun T, Jones A, Smith BK.

Am J Surg. 2025 Apr;242:116184. doi: 10.1016/j.amjsurg.2025.116184. Epub 2025 Jan 3.

PMID: [39826310](#).

**Further beyond the representational view: Response to commentaries.**

Clapp JT, Kruser JM, Schwarze ML, Hadler RA.

Am J Bioeth. 2025 Apr;25(4):W22-W24. doi: 10.1080/15265161.2025.2479367. Epub 2025 Apr 7.

PMID: [40192667](#).

**Language in bioethics: Beyond the representational view.**

Clapp JT, Kruser JM, Schwarze ML, Hadler RA.

Am J Bioeth. 2025 Apr;25(4):41-53. doi: 10.1080/15265161.2024.2337394. Epub 2024 Apr 16. Update in: Am J Bioeth. 2025 Apr;25(4):71-74. doi: 10.1080/15265161.2025.2470682.

PMID: [38626326](#).

**Toward competency based medical education: A plea to synergize frameworks and tools.**

Smith BK, Caretta-Weyer H, Alseidi A.

Ann Surg. 2025 Apr 11. doi: 10.1097/SLA.0000000000006729. Epub ahead of print.

PMID: [40211960](#).

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