

SC2I PUBLICATIONS

2026

Windham IH, Kimbrel JA, Boykin OA, Wylie MR, Simons MP, Schobel SA, Rouse M, Stanbro J, Huber J, Upadhyay MM, Melton-Celsa AR, Elster EA, Dente CJ, Be NA, Merrell DS. Characterization of *Pseudomonas aeruginosa* and *Acinetobacter calcoaceticus-baumannii* complex traumatic wound isolates. *Microbiology Spectrum*, 14(7), e02644-25. <https://doi.org/10.1128/spectrum.02644-25>

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Rindler RS, Robertson H, Yampert LD, Khatri V, Texakalidis P, Eshraghi S, Grey S, Schobel SA, Elster EA, Boulis N, Grossberg JA. Predicting Vasospasm and Early Mortality in Severe TBI: A Model Using Serum, Cytokines, Neuronal Proteins, and Clinical Data. *Neurosurgery* 96(5) 1133-1145. <https://doi.org/10.1227/neu.00000000000003224>

Rouse M, Gann ER, Brandsma J, Sugiharto VA, Robertson H, Genzor P, Chen HW, Simons MP, Schobel SA, Chenoweth JG, Jenkins SA, Clark DV, DellaVolpe J, Chitty S, Rivera I, Lewis M, Park C, Parikh A, Vir P, Stewart IJ, Pratt K. Seraph-100 hemoperfusion for management of severe COVID-19: Assessment of serum and plasma analytes pre- and post-filtration. *Blood Purif* (2025) 54(3): 200-210. <https://doi.org/10.1159/000542995>

Haines KL, Li R, Grey S, Kim HE, Gann E, Almond C, Rouse M, Joshi MB, Schobel SA, Agarwal S, Kirk A, Elster EA, Fernandez-Moure JS. Exploratory Cluster Analysis of IL2RA and Associated Biomarkers and Complications After Blunt Chest Trauma, *JTACS* 98(6) 899-906. <https://doi.org/10.1097/TA.00000000000004313>

Kimbrel J, Thissen JB, Lisboa FA, Mabery S, Jaing CJ, Elster EA, Schobel SA, Be NA. High-Quality *Acinetobacter* Genomes Recovered from Combat Wounds Via Metagenomic Sequencing Resemble the Genomes from Isolates. *Microbiol Spectr* 14:e01876-25. <https://doi.org/10.1128/spectrum.01876-25>

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Rowe CJ, Nwaolu U, Martin L, Huang BJ, Mang J, Salinas D, Schlaff CD, Ghenbot S, Lansford JL, Potter BK, Schobel SA, Gann ER, Davis TA. Systemic inflammation following traumatic injury and its impact on neuroinflammatory gene expression in the rodent brain. *J Neuroinflammation* 21:211 <https://doi.org/10.1186/s12974-024-03205-5>

Choudhary T, Upadhyaya P, Davis CM, Yang P, Tallowin S, Lisboa FA, Schobel SA, Coopersmith CM, Elster EA, Buchman TG, Dente CJ, Kamaleswaran R. Derivation and Validation of Generalized Sepsis-induced Acute Respiratory Failure Phenotypes Among Critically Ill Patients: A Retrospective Study. *Critical Care* 28:321 <https://doi.org/10.1186/s13054-024-05061-4>

Upadhyaya P, Wang J, Mathew DT, Ali A, Tallowin S, Gann E, Lisboa FA, Schobel SA, Elster EA, Buchman TG, Dente CJ, Kamaleswaran R. Predicting Sepsis Induced Hypotension Patient Attributes for Restrictive vs Liberal Fluid Strategy. *Shock: Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches*, 63(3), 399–405.
<https://doi.org/10.1097/SHK.0000000000002506>

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<https://doi.org/10.1097/TA.0000000000004128>

Wang J, de Vale JS, Gupta S, Upadhyaya P, Lisboa FA, Schobel SA, Elster EA, Dente CJ, Buchman TG, Kamaleswaran R. ClotCatcher: a novel natural language model to accurately adjudicate venous thromboembolism from radiology reports. *BMC Med Inform Decis Mak* 23, 262 (2023). <https://doi.org/10.1186/s12911-023-02369-z>

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Crum RJ, Johnson SA, Jiang P, Jui JH, Zamora R, Cortes D, Kulkarni M, Prabahar A, Bolin J, Gann E, Elster E, Schobel SA, Larie D, Cockrell C, An G, Brown B, Hauskrecht M, Vodovotz Y, Badylak SF. Transcriptomic, proteomic, and morphologic characterization of healing in volumetric muscle loss. *Tissue Engineering Part A*, 28(21-22), 941–957.
<https://doi.org/10.1089/ten.tea.2022.0113>

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Vicente D, Grey SF, Chasse S, Schobel S, Dente CJ, Elster E. Cellular microRNAs correlate with clinical parameters in polytrauma patients. *JTACS* 93(2), 241–248. <https://doi.org/10.1097/TA.0000000000003668>

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Avila-Herrera A, Thissen JB, Mulakken N, Schobel SA, Morrison MD, Zhou X, Grey SF, Lisboa FA, Unselt D, Mabery S, Upadhyay MM, Jaing CJ, Elster EA, Be NA. Metagenomic features of bioburden serve as outcome indicators in combat extremity wounds. *Scientific Reports* (2022) 12:13816. doi.org/10.1038/s41598-022-16170-x

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Gunasingha RMKD, Grey SF, Munoz B, Schobel S, Lee J, Erwin C, Irons T, McMillan E, Unselt D, Elster E, Bradley M. To Scan or Not to Scan: Development of a Clinical Decision Support Tool to Determine If Imaging Would Aid in the Diagnosis of Appendicitis. *World Journal of Surgery*, 45(10), 3056–3064. <https://doi.org/10.1007/s00268-021-06246-6>

Breslin AW, Limkakeng AT, Silvius E, Staton CA, Almond C, Joshi MB, Adams B, Johnston B, McGowan L, Kirk AD, Elster E. Immune response profiling in patients with traumatic injuries associated with alcohol ingestion. *Clin Transl Sci.* 2021 Sep;14(5):1791-1798. <https://doi.org/10.1111/cts.13022>

Gelbard RB, Hensman H, Schobel S, Stempora LL, Moris D, Dente CJ, Buchman TG, Kirk AD, Elster E. An integrative model using flow cytometry identifies nosocomial infection after trauma. *JTACS* 91(1):47-53. <https://doi.org/10.1097/TA.0000000000003148>

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Ronaldi, Alley E. MD; Polcz, Jeanette E. MD; Robertson, Henry T. PhD; Walker, Patrick F. MD; Bozzay, Joseph D. MD; Dubose, Joseph J. MD; White, Paul W. MD; Rasmussen, Todd E. MD; White, Joseph M. MD. A multi-registry analysis of military and civilian penetrating cervical carotid artery injury. *Journal of Trauma and Acute Care Surgery* 91(2S):p S226-S232. <https://doi.org/10.1097/TA.0000000000003296>

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McKinley T, Lisboa F, Horan A, Gaski G, Mehta S Precision Medicine Applications to Manage Multiply Injured Patients With Orthopaedic Trauma. J Orthop Trauma. 2019 Jun;33 Suppl 6:S25-S29. <https://doi.org/10.1097/bot.0000000000001468>

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