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Trauma Quality Improvement Program (TQIP) Bibliography

The following bibliography includes citations found through PubMed searches, as well as those supplied by TQIP researchers in response to follow up surveys and e-mails. The list below includes publications, articles in press, and presentations in which TQIP is mentioned. This list is not exhaustive. If you have an TQIP-related publication that is not listed below, please provide the citation to traumaquality@facs.org.

Year	Citation	Subject/Keywords
2019	Harfouche M, Beard J, Mason L, Maher Z, Dauer E, Santora T, Goldberg A, Pathak A. Outcomes in Trauma Patients With Behavioral Health Disorders. <i>J Surg Res.</i> 2019 Jul 18;244:425-429. doi: 10.1016/j.jss.2019.06.061. [Epub ahead of print]	<i>Behavioral Health, Patient Outcomes</i>
2019	Hanna K, Khalid A, Hamidi M, Gries L, Haddadin Z, Kulvatunyou N, Zeeshan M, Joseph B. Chronic Alcohol Consumption and Risk of Deep Venous Thrombosis: A Propensity-Matched Analysis. <i>J Surg Res.</i> 2019 Jul 10;244:251-256. doi: 10.1016/j.jss.2019.06.067. [Epub ahead of print]	<i>Alcohol Use Disorder, VTE</i>
2019	Skarupa D, Hanna K, Zeeshan M, Madbak F, Hamidi M, Haddadin Z, Northcutt A, Gries L, Kulvatunyou N, Joseph B. Is Early Chemical Thromboprophylaxis in Patients with Solid Organ Injury a Solid Decision? <i>J Trauma Acute Care Surg.</i> 2019 Jul 9. doi: 10.1097/TA.0000000000002438. [Epub ahead of print]	<i>Nonoperative Management, CTP, Patient Outcomes</i>
2019	Lin B, Matsushima K, De Leon L, Piccinini A, Recinos G, Love B, Inaba K, Demetriades D. Early Venous Thromboembolism Prophylaxis for Isolated High-Grade Blunt Splenic Injury. <i>J Surg Res.</i> 2019 Jul 2;243:340-345. doi: 10.1016/j.jss.2019.05.060. [Epub ahead of print]	<i>VTE prophylaxis, Nonoperative Management</i>
2019	Gribben JL, Ilonzo N, Neifert S, Hubert M, Leitman IM. Characteristics and Outcomes of Abdominal and Pelvic Trauma Patients With Psychiatric Illness. <i>J Surg Res.</i> 2019 Jul 4;243:440-446. doi: 10.1016/j.jss.2019.05.051. [Epub ahead of print]	<i>Psychiatric Comorbidity, Patient Outcomes</i>
2019	Butler EK, Mills BM, Arbabi S, Bulger EM, Vavilala MS, Groner JI, Stansbury LG, Hess JR, Rivara FP. Association of Blood Component Ratios With 24-Hour Mortality in Injured Children Receiving Massive Transfusion. <i>Crit Care Med.</i> 2019 Jul;47(7):975-983. doi: 10.1097/CCM.0000000000003708.	<i>Pediatric, Massive Transfusion, FFP, PRBC</i>

2019	Grigorian A, Lekawa M, Dolich M, Schubl SD, Doben AR, Kuza CM, Barrios C, Nahmias J. Smoking is associated with an improved short-term outcome in patients with rib fractures. <i>Eur J Trauma Emerg Surg.</i> 2019 May 18. doi: 10.1007/s00068-019-01152-y. [Epub ahead of print]	<i>Smoking, Rib Fractures, In-Hospital Mortality</i>
2019	Jasperse N, Grigorian A, Delaplain P, Jutric Z, Schubl SD, Kuza CM, Nahmias J. Predictors of discharge against medical advice in adult trauma patients. <i>Surgeon.</i> 2019 May 2. pii: S1479-666X(19)30041-1. doi: 10.1016/j.surge.2019.04.001. [Epub ahead of print]	<i>AMA Discharge, AMA Prevention</i>
2019	Hanna K, Palmer J, Castanon L, Zeeshan M, Hamidi M, Kulvatunyou N, Gries L, Joseph B. Racial and Ethnic Differences in Limiting Life-Sustaining Treatment in Trauma Patients. <i>Am J Hosp Palliat Care.</i> 2019 May 5:1049909119847970. doi: 10.1177/1049909119847970. [Epub ahead of print]	<i>LLST, Racial Differences, Ethnic Differences</i>
2019	Ahl R, Sarani B, Sjolín G, Mohseni S. The Association of Intracranial Pressure Monitoring and Mortality: A Propensity Score-Matched Cohort of Isolated Severe Blunt Traumatic Brain Injury. <i>J Emerg Trauma Shock.</i> 2019 Jan-Mar;12(1):18-22. doi: 10.4103/JETS.JETS_59_18.	<i>Severe TBI, ICP Monitoring, Patient Outcomes</i>
2019	Livingston JK, Grigorian A, Kuza CM, Lekawa M, Bernal N, Allen A, Nahmias J. Non-accidental trauma increases length of stay and mortality in pediatric trauma. <i>Pediatr Surg Int.</i> 2019 May 10. doi: 10.1007/s00383-019-04482-5. [Epub ahead of print]	<i>Pediatrics, Child Abuse</i>
2019	Grigorian A, Nahmias J, Chin T, Allen A, Kuncir E, Dolich M, Joe V, Lekawa M. Patients with gunshot wounds to the torso differ in risk of mortality depending on treating hospital. <i>Updates Surg.</i> 2019 Apr 22. doi: 10.1007/s13304-019-00657-w. [Epub ahead of print]	<i>Firearm, Trauma Level</i>
2019	Dawes AJ, Sacks GD, Needleman J, Brook RH, Mittman BS, Ko CY, Cryer HG; Los Angeles County Trauma Consortium. Injury-Specific Variables Improve Risk Adjustment and Hospital Quality Assessment in Severe Traumatic Brain Injury. <i>J Trauma Acute Care Surg.</i> 2019 Apr 5. doi: 10.1097/TA.0000000000002297. [Epub ahead of print]	<i>Severe TBI, Risk Adjustment</i>
2019	Nordin A, Shi J, Wheeler K, Xiang H, Kenney B. Age-adjusted shock index: From injury to arrival. <i>J Pediatr Surg.</i> 2019 Feb 27. pii: S0022-3468(19)30086-7. doi: 10.1016/j.jpedsurg.2019.01.049. [Epub ahead of print]	<i>Pediatric, Shock Index, SIPA</i>
2019	Escobar MA Jr, Wallenstein KG, Christison-Lagay ER, Naiditch JA, Petty JK. Child abuse and the pediatric surgeon: A position statement from the Trauma Committee, the Board of Governors and the Membership of the American Pediatric Surgical Association. <i>J Pediatr Surg.</i> 2019 Mar 21. pii: S0022-3468(19)30211-8. doi: 10.1016/j.jpedsurg.2019.03.009. [Epub ahead of print]	<i>Child Abuse, Pediatric</i>
2019	Jenkins PC, Painter S, Bell TM, Kline JA, Zarzaur BL. The conference effect: National surgery meetings are associated with increased mortality at trauma centers without American College of Surgeons verification. <i>PLoS One.</i> 2019 Mar 26;14(3):e0214020. doi: 10.1371/journal.pone.0214020. eCollection 2019.	<i>Patient Outcomes, Mortality, ACS Verification</i>

2019	Gotlib Conn L, Hoeft C, Neal M, Nathens A. Use of performance reports among trauma medical directors and programme managers in the American College of Surgeons' Trauma Quality Improvement Program: a qualitative analysis. <i>BMJ Qual Saf</i> . 2019 Mar 28. pii: bmjqs-2018-008797. doi: 10.1136/bmjqs-2018-008797. [Epub ahead of print]	<i>Performance Improvement, TQIP Reports</i>
2019	Zeeshan M, Hamidi M, Feinstein AJ, Gries L, Jehan F, Sakran J, Northcutt A, O'Keeffe T, Kulvatunyou N, Joseph B. 4-Factor Prothrombin Complex Concentrate is associated with Improved Survival in Trauma Related Hemorrhage: A Nationwide Propensity Matched Analysis. <i>J Trauma Acute Care Surg</i> . 2019 Mar 15. doi: 10.1097/TA.0000000000002262. [Epub ahead of print]	<i>Massive Transfusion Protocol, 4F-PCC</i>
2019	Joseph B, Zeeshan M, Sakran JV, Hamidi M, Kulvatunyou N, Khan M, O'Keeffe T, Rhee P. Nationwide Analysis of Resuscitative Endovascular Balloon Occlusion of the Aorta in Civilian Trauma. <i>JAMA Surg</i> . 2019 Mar 20. doi: 10.1001/jamasurg.2019.0096. [Epub ahead of print]	<i>REBOA, Patient Outcomes</i>
2019	Hamidi M, Zeeshan M, Leon-Risemberg V, Nikolich-Zugich J, Hanna K, Kulvatunyou N, Saljuqi AT, Fain M, Joseph B. Frailty as a prognostic factor for the critically ill older adult trauma patients. <i>Am J Surg</i> . 2019 Feb 22. pii: S0002-9610(18)31690-8. doi: 10.1016/j.amjsurg.2019.01.035. [Epub ahead of print]	<i>Geriatric Outcomes, Frailty</i>
2019	Losh J, Duncan TK, Diaz G, Lee H, Romero J. Multidisciplinary Patient Management Improves Mortality in Geriatric Trauma Patients. <i>Am Surg</i> . 2019 Feb 1;85(2):230-233.	<i>Geriatric Outcomes, Quality Improvement</i>
2019	Benjamin E, Aiolfi A, Recinos G, Inaba K, Demetriades D. Timing of venous thromboprophylaxis in isolated severe pelvic fracture: Effect on mortality and outcomes. <i>Injury</i> . 2019 Feb 14. pii: S0020-1383(19)30084-1. doi: 10.1016/j.injury.2019.02.009. [Epub ahead of print]	<i>VTE Prophylaxis, Pelvis</i>
2019	Leonard JM, Polites SF, Martin ND, Glasgow AE, Habermann EB, Kaplan LJ. Comfort care in trauma patients without severe head injury: In-hospital complications as a trigger for goals of care discussions. <i>Injury</i> . 2019 Jan 14. pii: S0020-1383(19)30024-5. doi: 10.1016/j.injury.2019.01.024. [Epub ahead of print]	<i>Withdrawal of Life-Sustaining Treatment, Mortality</i>
2019	Rosenfeld EH, Lau P, Cunningham ME, Zhang W, Russell RT, Naik-Mathuria B, Vogel AM. Defining Massive Transfusion in Civilian Pediatric Trauma With Traumatic Brain Injury. <i>J Surg Res</i> . 2018 Dec 4;236:44-50. doi: 10.1016/j.jss.2018.10.053. [Epub ahead of print]	<i>Pediatrics, Transfusion, Severe TBI</i>
2019	Keller PR, Schneeberger S, Drolet BC, Al Kassis S, Bennett Pearce F, Perdakis G. Implementation of a Trauma Quality Improvement Program Communications Package Decreases Time-to-Operation for Facial Trauma. <i>Ann Plast Surg</i> . 2019 Jan 28. doi: 10.1097/SAP.0000000000001818. [Epub ahead of print]	<i>Communications, Facial Trauma</i>
2019	Brown KL, Ashcraft AS. Comfort or Care: Why Do We Have to Choose? Implementing a Geriatric Trauma Palliative Care Program. <i>J Trauma Nurs</i> . 2019 Jan/Feb;26(1):2-9. doi: 10.1097/JTN.0000000000000410.	<i>Geriatrics, Palliative Care, Best Practice Guidelines</i>

2019	Tessler RA, Rangel MM, Rosser ML, Rivara FP, Bulger E, Vavilala MS, Reed MJ, Arbabi S. Complication in low-risk older adult trauma patients: A case-control study. <i>J Trauma Acute Care Surg</i> . 2019 Jan 10. doi: 10.1097/TA.0000000000002204. [Epub ahead of print]	<i>Geriatrics, Complications, Consultation</i>
2018	Skarupa DJ, Khan M, Hsu A, Madbak FG, Ebler DJ, Yorkgitis B, Rahmathulla G, Alcindor D, Joseph B. Trends in civilian penetrating brain injury: A review of 26,871 patients. <i>Am J Surg</i> . 2018 Nov 27. pii: S0002-9610(18)30662-7. doi: 10.1016/j.amjsurg.2018.11.034. [Epub ahead of print]	<i>Penetrating Traumatic Brain Injury, Firearm</i>
2018	Hamidi M, Zeeshan M, Kulvatunyou N, Adun E, O'Keeffe T, Zakaria ER, Gries L, Joseph B. Outcomes After Massive Transfusion in Trauma Patients: Variability Among Trauma Centers. <i>J Surg Res</i> . 2019 Feb;234:110-115. doi: 10.1016/j.jss.2018.09.018. Epub 2018 Oct 6.	<i>Transfusion, Trauma Center Analysis</i>
2018	Weyerbacher J, Jacobson L, Saxe J. Do contradictions in TQIP measures affect perceptions of quality. An analysis of TQIP definitions on quality outcomes for placement of ICP monitoring at a single level one trauma center. <i>Am J Surg</i> . 2018 Oct 28. pii: S0002-9610(18)31046-8. doi: 10.1016/j.amjsurg.2018.10.033. [Epub ahead of print]	<i>Cerebral Monitoring, Program Assessment</i>
2018	Regner JL, Shaver CN; SWSC Multicenter Trials Group. Determining the impact of culture on venous thromboembolism prevention in trauma patients: A Southwestern Surgical Congress Multicenter trial. <i>Am J Surg</i> . 2018 Nov 20. pii: S0002-9610(18)30396-9. doi: 10.1016/j.amjsurg.2018.11.005. [Epub ahead of print]	<i>VTE Prophylaxis, Chemoprophylaxis, Heparin</i>
2018	Cunningham ME, Rosenfeld EH, Zhu H, Naik-Mathuria BJ, Russell RT, Vogel AM. A High Ratio of Plasma: RBC Improves Survival in Massively Transfused Injured Children. <i>J Surg Res</i> . 2019 Jan;233:213-220. doi: 10.1016/j.jss.2018.08.007. Epub 2018 Aug 31.	<i>Pediatric, Transfusion, Blood Product Ratio</i>
2018	Khan M, Jehan F, O'Keeffe T, Hamidi M, Kulvatunyou N, Tang A, Gries L, Joseph B. Oral Xa Inhibitors Versus Low Molecular Weight Heparin for Thromboprophylaxis After Nonoperative Spine Trauma. <i>J Surg Res</i> . 2018 Dec;232:82-87. doi: 10.1016/j.jss.2018.06.022. Epub 2018 Jul 3.	<i>Spine, Orthopedic, Thromboprophylaxis</i>
2018	Taylor BN, Rasnake N, McNutt K, McKnight CL, Daley BJ. Rapid Ground Transport of Trauma Patients: A Moderate Distance From Trauma Center Improves Survival. <i>J Surg Res</i> . 2018 Dec;232:318-324. doi: 10.1016/j.jss.2018.06.055. Epub 2018 Jul 17.	<i>EMS Transport</i>
2018	Joseph B, Khan M, Jehan F, Latifi R, Rhee P. Improving survival after an emergency resuscitative thoracotomy: a 5-year review of the Trauma Quality Improvement Program. <i>Trauma Surg Acute Care Open</i> . 2018 Oct 9;3(1):e000201. doi: 10.1136/tsaco-2018-000201. eCollection 2018.	<i>ERT, Survival Rates</i>

2018	Hamidi M, Zeeshan M, Sakran JV, Kulvatunyou N, O'Keeffe T, Northcutt A, Zakaria ER, Tang A, Joseph B. Direct Oral Anticoagulants vs Low-Molecular-Weight Heparin for Thromboprophylaxis in Nonoperative Pelvic Fractures. <i>J Am Coll Surg</i> . 2018 Oct 8. pii: S1072-7515(18)32079-9. doi: 10.1016/j.jamcollsurg.2018.09.023. [Epub ahead of print]	<i>Anticoagulants, Heparin, Pelvic Fractures, Patient Outcomes</i>
2018	Loewenstern J, Kessler RA, Caridi J. Diabetes Comorbidity Increases Risk of Postoperative Complications in Traumatic Thoracic Vertebral Fracture Repair: A Propensity Score Matched Analysis. <i>World Neurosurg</i> . 2018 Oct 9. pii: S1878-8750(18)32280-0. doi: 10.1016/j.wneu.2018.09.225. [Epub ahead of print]	<i>Spine Fracture, Diabetes, Complications</i>
2018	Sathya C, Alali AS, Wales PW, Langer JC, Kenney BD, Burd RS, Nance ML, Nathens AB. Computed tomography rates and estimated radiation-associated cancer risk among injured children treated at different trauma center types. <i>Injury</i> . 2018 Sep 19. pii: S0020-1383(18)30541-2. doi: 10.1016/j.injury.2018.09.036. [Epub ahead of print]	<i>Cancer, Pediatrics, Radiation</i>
2018	Shelton T, Hecht G, Slee C, Wolinsky P. A Comparison of Geriatric Hip Fracture Databases. <i>J Am Acad Orthop Surg</i> . 2018 Sep 13. doi: 10.5435/JAAOS-D-17-00696. [Epub ahead of print]	<i>Hip Fracture, Geriatrics, NSQIP</i>
2018	Jensen AR, McLaughlin C, Wong CF, McAuliff K, Nathens AB, Barin E, Meeker D, Ford HR, Burd RS, Upperman JS. Simulation-based training for trauma resuscitation among ACS TQIP-Pediatric centers: Understanding prevalence of use, associated center characteristics, training factors, and implementation barriers. <i>Am J Surg</i> . 2018 Jun 18. pii: S0002-9610(18)30371-4. doi: 10.1016/j.amjsurg.2018.06.009. [Epub ahead of print]	<i>Pediatrics, Simulation-based Training</i>
2018	Hemmila MR, Cain-Nielsen AH, Jakubus JL, Mikhail JN, Dimick JB. Association of Hospital Participation in a Regional Trauma Quality Improvement Collaborative With Patient Outcomes. <i>JAMA Surg</i> . 2018 May 2. doi: 10.1001/jamasurg.2018.0985. [Epub ahead of print]	<i>Collaborative, Patient Outcomes</i>
2018	McCredie VA, Alali AS, Scales DC, Rubenfeld GD, Cuthbertson BH, Nathens AB. Impact of ICU Structure and Processes of Care on Outcomes After Severe Traumatic Brain Injury: A Multicenter Cohort Study. <i>Crit Care Med</i> . 2018 Apr 6. doi: 10.1097/CCM.0000000000003149. [Epub ahead of print]	<i>Severe TBI, Intensive Care Unit, Protocols</i>
2018	Zeeshan M, Khan M, O'Keeffe T, Pollack N, Hamidi M, Kulvatunyou N, Sakran JV, Gries L, Joseph B. Optimal Timing of Initiation of Thromboprophylaxis in Spine Trauma Managed Operatively: a Nationwide Propensity Matched Analysis of Trauma Quality Improvement Program. <i>J Trauma Acute Care Surg</i> . 2018 Apr 2. doi: 10.1097/TA.0000000000001916. [Epub ahead of print].	<i>Spine, VTE Prophylaxis</i>
2018	van der Vliet QMJ, Lucas RC, Velmahos G, Houwert RM, Leenen LPH, Hietbrink F, Heng M. Foot fractures in polytrauma patients: Injury characteristics and timing of diagnosis. <i>Injury</i> . 2018 Jun;49(6):1233-1237. doi: 10.1016/j.injury.2018.04.009. Epub 2018 Apr 17.	<i>Foot Fractures, Delayed Diagnosis</i>
2018	Hornor MA, Byrne JP, Engelhardt KE, Nathens AB. Examining racial disparities in the time to withdrawal of life-sustaining treatment in trauma. <i>J Trauma Acute Care Surg</i> . 2018 Apr;84(4):590-597. doi: 10.1097/TA.0000000000001775.	<i>Withdrawal of Life-Sustaining Treatment, Disparities</i>
2018	Witiw CD, Byrne JP, Nassiri F, Badhiwala JH, Nathens AB, da Costa LB. Isolated Traumatic Subarachnoid Hemorrhage: An Evaluation of Critical Care Unit Admission Practices and Outcomes From a North American Perspective. <i>Crit Care Med</i> . 2018 Mar;46(3):430-436. doi: 10.1097/CCM.0000000000002931.	<i>Subarachnoid Hemorrhage, Admissions</i>

2018	Liu JY, Hu QL, Ko CY. Databases for surgical health services research: National Trauma Data Bank and Trauma Quality Improvement Program. <i>Surgery</i> . 2018 Feb 19. pii: S0039-6060(17)30933-9. doi: 10.1016/j.surg.2017.12.030. [Epub ahead of print]	<i>Database Analysis</i>
2018	Khan M, Jehan F, O'Keeffe T, Hamidi M, Truitt M, Zeeshan M, Gries L, Tang A, Joseph B. Optimal Timing of Initiation of Thromboprophylaxis after Nonoperative Blunt Spinal Trauma: A Propensity-Matched Analysis. <i>J Am Coll Surg</i> . 2018 Jan 27. pii: S1072-7515(18)30037-1. doi: 10.1016/j.jamcollsurg.2018.01.006. [Epub ahead of print]	<i>VTE Prophylaxis, Spine</i>
2018	Matsushima K, Piccinini A, Schellenberg M, Cheng V, Heindel P, Strumwasser A, Benjamin E, Inaba K, Demetriades D. Effect of door-to-angioembolization time on mortality in pelvic fracture: every hour of delay counts. <i>J Trauma Acute Care Surg</i> . 2018 Jan 24. doi: 10.1097/TA.0000000000001803. [Epub ahead of print]	<i>Embolization Time, Mortality, Pelvic Fracture</i>
2018	Mohseni S, Holzmacher J, Sjolín G, Ahl R, Sarani B. Outcomes after resection versus non-resection management of penetrating grade III and IV pancreatic injury: A trauma quality improvement (TQIP) databank analysis. <i>Injury</i> . 2018 Jan;49(1):27-32. doi: 10.1016/j.injury.2017.11.021.	<i>Resection, Pancreas</i>
2017	Gomez D, Byrne JP, Alali AS, Xiong W, Hoeft C, Neal M, Subacius H, Nathens AB. Inclusion of Highest Glasgow Coma Scale Motor Component Score in Mortality Risk Adjustment for Benchmarking of Trauma Center Performance. <i>J Am Coll Surg</i> . 2017 Dec;225(6):755-762. doi: 10.1016/j.jamcollsurg.2017.08.020.	<i>Highest GCS, Severe TBI, Mortality Risk</i>
2017	Lassiter RL, Ashley DW, Medeiros RS, Adam BL, NeSmith EG, Johns TJ, Atkins EV, Dente CJ, Ferdinand CH. Descriptive Analysis of Venous Thromboembolism in Georgia Trauma Centers Compared with National Trauma Centers Participating in the Trauma Quality Improvement Program. <i>Am Surg</i> . 2017 Nov 1;83(11):1283-1288.	<i>VTE Prophylaxis</i>
2017	Tignanelli CJ, Vander Kolk WE, Mikhail JN, Delano MJ, Hemmila MR. Non-compliance with ACS-COT recommended criteria for full trauma team activation is associated with undertriage deaths. <i>J Trauma Acute Care Surg</i> . 2017 Nov 21. doi: 10.1097/TA.0000000000001745. [Epub ahead of print]	<i>Triage, Trauma Team Activation</i>
2017	Heaney JB, Schroll R, Turney J, Stuke L, Marr AB, Greiffenstein P, Robledo R, Theriot A, Duchesne J, Hunt J. Implications of the Trauma Quality Improvement Project inclusion of nonsurvivable injuries in performance benchmarking. <i>J Trauma Acute Care Surg</i> . 2017 Oct;83(4):617-621. doi: 10.1097/TA.0000000000001577.	<i>Prediction Modeling, Outcomes</i>
2017	Nordin A, Coleman A, Shi J, Wheeler K, Xiang H, Acker S, Bensard D, Kenney B. Validation of the age-adjusted shock index using pediatric trauma quality improvement program data. <i>J Pediatr Surg</i> . 2017 Oct 12. pii: S0022-3468(17)30645-0. doi: 10.1016/j.jpedsurg.2017.10.023. [Epub ahead of print]	<i>Pediatrics, Shock Index</i>
2017	Piccinini A, Lewis M, Benjamin E, Aiolfi A, Inaba K, Demetriades D. Intracranial pressure monitoring in severe traumatic brain injuries: a closer look at level 1 trauma centers in the United States. <i>Injury</i> . 2017 Sep;48(9):1944-1950. doi: 10.1016/j.injury.2017.04.033.	<i>Severe TBI, Cerebral Monitoring</i>
2017	Aiolfi A, Inaba K, Strumwasser A, Matsushima K, Grabo D, Benjamin E, Lam L, Demetriades D. Splenic artery embolization versus splenectomy: Analysis for early in-hospital infectious complications and outcomes. <i>J Trauma Acute Care Surg</i> . 2017 Sep;83(3):356-360. doi: 10.1097/TA.0000000000001550.	<i>Embolization, Spleen, Hospital Complications</i>
2017	Ashley DW, Nicholas JM, Dente CJ, Johns TJ, Garlow LE, Solomon G, Abston D, Ferdinand CH. Successful Incorporation of Performance Based Payments for Trauma Center Readiness Costs into the Georgia Trauma System. <i>Am Surg</i> . 2017 Sep 1;83(9):966-971.	<i>Incentive Reimbursements, Cost Analysis</i>

2017	Benjamin E, Recinos G, Aiolfi A, Inaba K, Demetriades D. Pharmacological Thromboembolic Prophylaxis in Traumatic Brain Injuries: Low Molecular Weight Heparin Is Superior to Unfractionated Heparin. <i>Ann Surg</i> . 2017 Sep;266(3):463-469. doi: 10.1097/SLA.0000000000002359.	<i>VTE Prophylaxis, Anticoagulants</i>
2017	Southerland LT, Gure TR, Ruter DI, Li MM, Evans DC. Early geriatric consultation increases adherence to TQIP Geriatric Trauma Management Guidelines. <i>J Surg Res</i> . 2017 Aug;216:56-64. doi: 10.1016/j.jss.2017.03.023.	<i>Geriatrics, Quality Measures</i>
2017	Jacobs BN, Cain-Nielsen AH, Jakubus JL, Mikhail JN, Fath JJ, Regenbogen SE, Hemmila MR. Unfractionated heparin versus low-molecular-weight heparin for venous thromboembolism prophylaxis in trauma. <i>J Trauma Acute Care Surg</i> . 2017 Jul;83(1):151-158. doi: 10.1097/TA.0000000000001494.	<i>VTE Prophylaxis, Anticoagulants</i>
2017	Byrne JP, Nathens AB, Gomez D, Pincus D, Jenkinson RJ. Timing of femoral shaft fracture fixation following major trauma: A retrospective cohort study of United States trauma centers. <i>PLoS Med</i> . 2017 Jul 5;14(7):e1002336. doi: 10.1371/journal.pmed.1002336. eCollection 2017 Jul.	<i>Fracture Fixation, Femur</i>
2017	Adams NS, Newbury PA, Eichhorn MG, Davis AT, Mann RJ, Polley JW, Giroto JA. The Effects of Motorcycle Helmet Legislation on Craniomaxillofacial Injuries. <i>Plast Reconstr Surg</i> . 2017 Jun;139(6):1453-1457. doi: 10.1097/PRS.0000000000003370.	<i>Facial Injuries, Accident Prevention, Policy</i>
2017	Aiolfi A, Benjamin E, Khor D, Inaba K, Lam L, Demetriades D. Brain Trauma Foundation Guidelines for Intracranial Pressure Monitoring: Compliance and Effect on Outcome. <i>World J Surg</i> . 2017 Jun;41(6):1543-1549. doi: 10.1007/s00268-017-3898-6.	<i>Severe TBI, Cerebral Monitoring, Guideline Adherence</i>
2017	Miller AN, Kozar R, Wolinsky P. Feasibility of and Rationale for the Collection of Orthopaedic Trauma Surgery Quality of Care Metrics. <i>J Am Acad Orthop Surg</i> . 2017 Jun;25(6):458-463. doi: 10.5435/JAAOS-D-16-00515	<i>Orthopedics, Quality Improvement</i>
2017	Hemmila MR, Jakubus JL, Cain-Nielsen AH, Kepros JP, Vander Kolk WE, Wahl WL, Mikhail JN. The Michigan Trauma Quality Improvement Program: Results from a collaborative quality initiative. <i>J Trauma Acute Care Surg</i> . 2017 May;82(5):867-876. doi: 10.1097/TA.0000000000001401.	<i>Collaborative, Program Evaluation</i>
2017	Aiolfi A, Khor D, Cho J, Benjamin E, Inaba K, Demetriades D. Intracranial pressure monitoring in severe blunt head trauma: does the type of monitoring device matter? <i>J Neurosurg</i> . 2017 May 26:1-6. doi: 10.3171/2016.11.JNS162198. [Epub ahead of print]	<i>Cerebral Monitoring, Severe TBI</i>
2017	Alali AS, McCredie VA, Mainprize TG, Gomez D, Nathens AB. Structure, Process, and Culture of Intensive Care Units Treating Patients with Severe Traumatic Brain Injury: Survey of Centers Participating in the American College of Surgeons Trauma Quality Improvement Program. <i>J Neurotrauma</i> . 2017 Oct 1;34(19):2760-2767. doi: 10.1089/neu.2017.4997. Epub 2017 May 17.	<i>Clinical Protocol, Severe TBI</i>
2017	Wiebe DJ, Holena DN, Delgado MK, McWilliams N, Altenburg J, Carr BG. The Pennsylvania Trauma Outcomes Study Risk-Adjusted Mortality Model: Results of a Statewide Benchmarking Program. <i>Am Surg</i> . 2017 May 1;83(5):445-452.	<i>Collaborative, Outcomes, Risk Assessment</i>
2017	Alali AS, Gomez D, McCredie V, Mainprize TG, Nathens AB. Understanding Hospital Volume-Outcome Relationship in Severe Traumatic Brain Injury. <i>Neurosurgery</i> . 2017 Apr 1;80(4):534-542. doi: 10.1093/neuros/nyw098.	<i>Hospital Volume, Severe TBI, Mortality & Complications</i>
2017	Lamb LC, Montgomery SC, Wong Won B, Harder S, Meter J, Feeney JM. A multidisciplinary approach to improve the quality of care for patients with fragility fractures. <i>J Orthop</i> . 2017 Mar 20;14(2):247-251. doi: 10.1016/j.jor.2017.03.004.	<i>Clinical Pathway, Fragility Fractures, Outcomes</i>

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2017	Feeney JM, Neulander M, DiFiori M, Kis L, Shapiro DS, Jayaraman V, Marshall WT 3rd, Montgomery SC. Direct oral anticoagulants compared with warfarin in patients with severe blunt trauma. <i>Injury.</i> 2017 Jan;48(1):47-50. doi: 10.1016/j.injury.2016.08.016.	<i>Anticoagulants, Blunt Trauma, Outcomes</i>
2017	Hemmila MR, Jakubus JL. Trauma Quality Improvement. <i>Crit Care Clin.</i> 2017 Jan;33(1):193-212. doi: 10.1016/j.ccc.2016.08.010. Review.	<i>Collaborative, Comparative Effectiveness</i>
2016	Lang CL, Simon D, Kilgore J. A Statewide Collaboration: Ohio Level III Trauma Centers' Approach to the Development of a Benchmarking System. <i>J Trauma Nurs.</i> 2016 Nov/Dec;23(6):376-379.	<i>Collaborative, Program Development</i>
2016	Feeney JM, Santone E, DiFiori M, Kis L, Jayaraman V, Montgomery SC. Compared to warfarin, direct oral anticoagulants are associated with lower mortality in patients with blunt traumatic intracranial hemorrhage: A TQIP study. <i>J Trauma Acute Care Surg.</i> 2016 Nov;81(5):843-848.	<i>Traumatic ICH, Anticoagulants</i>
2016	Byrne JP, Mason SA, Gomez D, Hoeft C, Subacius H, Xiong W, Neal M, Pirouzmand F, Nathens AB. Timing of Pharmacologic Venous Thromboembolism Prophylaxis in Severe Traumatic Brain Injury: A Propensity-Matched Cohort Study. <i>J Am Coll Surg.</i> 2016 Oct;223(4):621-631.e5. doi: 10.1016/j.jamcollsurg.2016.06.382.	<i>Severe TBI, VTE Prophylaxis, Treatment Outcomes</i>
2016	Shapiro DS, Umer A, Marshall WT, Hansen K, Boucher E, Emmanuel A, Ellner S, Feeney JM. Use of a Modified American College of Surgeons Trauma Quality Improvement Program to Enhance 30-Day Post-Trauma Readmission Detection. <i>J Am Coll Surg.</i> 2016 May;222(5):865-9. doi: 10.1016/j.jamcollsurg.2016.02.008.	<i>Readmission Rates, Quality Improvement Standards</i>
2016	Scarborough JE, Ingraham AM, Liepert AE, Jung HS, O'Rourke AP, Agarwal SK. Nonoperative Management Is as Effective as Immediate Splenectomy for Adult Patients with High-Grade Blunt Splenic Injury. <i>J Am Coll Surg.</i> 2016 Aug;223(2):249-58. doi: 10.1016/j.jamcollsurg.2016.03.043. Epub 2016 Apr 23.	<i>Spleen, Treatment Outcomes</i>
2016	Byrne JP, Mann NC, Hoeft CJ, Buick J, Karanicolas P, Rizoli S, Hunt JP, Nathens AB. The impact of short prehospital times on trauma center performance benchmarking: An ecologic study. <i>J Trauma Acute Care Surg.</i> 2016 Apr;80(4):586-94; discussion 594-6. doi: 10.1097/TA.0000000000000974.	<i>EMS Prehospital Time, Benchmarking Analysis</i>
2016	McCredie VA, Alali AS, Xiong W, Rubinfeld GD, Cuthbertson BH, Scales DC, Nathens AB. Timing of withdrawal of life-sustaining therapies in severe traumatic brain injury: Impact on overall mortality. <i>J Trauma Acute Care Surg.</i> 2016 Mar;80(3):484-91. doi: 10.1097/TA.0000000000000922.	<i>Withdrawal of Life-Sustaining Treatment, Severe TBI</i>
2016	Dente CJ, Ashley DW, Dunne JR, Henderson V, Ferdinand C, Renz B, Massoud R, Adamski J, Hawke T, Gravlee M, Cascone J, Paynter S, Medeiros R, Atkins E, Nicholas JM; GRIT Study Group. Heterogeneity in Trauma Registry Data Quality: Implications for Regional and National Performance Improvement in Trauma. <i>J Am Coll Surg.</i> 2016 Mar;222(3):288-95. doi: 10.1016/j.jamcollsurg.2015.11.035.	<i>Data Accuracy, Medical Audit</i>
2016	Leonard KL, Borst GM, Davies SW, Coogan M, Waibel BH, Poulin NR, Bard MR, Goettler CE, Rinehart SM, Toschlog EA. Ventilator-Associated Pneumonia in Trauma Patients: Different Criteria, Different Rates. <i>Surg Infect (Larchmt).</i> 2016 Jun;17(3):363-8. doi: 10.1089/sur.2014.076. Epub 2016 Mar 3. 2011	<i>VAP, Diagnostic Criteria</i>
2015	Byrne JP, Xiong W, Gomez D, Mason S, Karanicolas P, Rizoli S, Tien H, Nathens AB. Redefining "dead on arrival": Identifying the unsalvageable patient for the purpose of performance improvement. <i>J Trauma Acute Care Surg.</i> 2015 Nov;79(5):850-7. doi: 10.1097/TA.0000000000000843.	<i>Case Definition, Performance Improvement</i>

2015	Saillant NN, Earl-Royal E, Pascual JL, Allen SR, Kim PK, Delgado MK, Carr BG, Wiebe D, Holena DN. The relationship between processes and outcomes for injured older adults: a study of a statewide trauma system. <i>Eur J Trauma Emerg Surg.</i> 2017 Feb;43(1):121-127. doi: 10.1007/s00068-015-0586-9. Epub 2015 Oct 28.	<i>Geriatrics, Treatment Guidelines, Collaborative</i>
2015	Sathya C, Alali AS, Wales PW, Scales DC, Karanicolas PJ, Burd RS, Nance ML, Xiong W, Nathens AB. Mortality Among Injured Children Treated at Different Trauma Center Types. <i>JAMA Surg.</i> 2015 Sep;150(9):874-81. doi: 10.1001/jamasurg.2015.1121.	<i>Pediatrics, Mortality Trends, Optimal Care Environment</i>
2015	Arabian SS, Marcus M, Captain K, Pomphrey M, Breeze J, Wolfe J, Bugaev N, Rabinovici R. Variability in interhospital trauma data coding and scoring: A challenge to the accuracy of aggregated trauma registries. <i>J Trauma Acute Care Surg.</i> 2015 Sep;79(3):359-63. doi: 10.1097/TA.0000000000000788.	<i>Clinical Coding Standards, Registry Accuracy</i>
2015	Machado-Aranda DA, Jakubus JL, Wahl WL, Cherry-Bukowiec JR, To KB, Park PK, Raghavendran K, Napolitano LM, Hemmila MR. Reduction in Venous Thromboembolism Events: Trauma Performance Improvement and Loop Closure Through Participation in a State-Wide Quality Collaborative. <i>J Am Coll Surg.</i> 2015 Sep;221(3):661-8. doi: 10.1016/j.jamcollsurg.2015.05.006. Epub 2015 Jun 10.	<i>VTE Prophylaxis, Collaborative, Anticoagulants</i>
2015	Alali AS, Gomez D, Sathya C, Burd RS, Mainprize TG, Moulton R, Falcone RA Jr, de Mestral C, Nathens A. Intracranial pressure monitoring among children with severe traumatic brain injury. <i>J Neurosurg Pediatr.</i> 2015 Aug 14:1-10. [Epub ahead of print]	<i>Pediatrics, Cerebral Monitoring, Severe TBI</i>
2015	Sathya C, Burd RS, Nance ML, Karanicolas PJ, Wales PW, Scales DC, Xiong W, Nathens AB. Concordance of performance metrics among U.S. trauma centers caring for injured children. <i>J Trauma Acute Care Surg.</i> 2015 Jul;79(1):138-46. doi: 10.1097/TA.0000000000000678.	<i>Pediatrics, Quality Indicators</i>
2015	Camazine MN, Hemmila MR, Leonard JC, Jacobs RA, Horst JA, Kozar RA, Bochicchio GV, Nathens AB, Cryer HM, Spinella PC. Massive transfusion policies at trauma centers participating in the American College of Surgeons Trauma Quality Improvement Program. <i>J Trauma Acute Care Surg.</i> 2015 Jun;78(6 Suppl 1):S48-53. doi: 10.1097/TA.0000000000000641.	<i>Transfusion, Clinical Protocol</i>
2014	Polites SF, Habermann EB, Thomsen KM, Amr MA, Jenkins DH, Zietlow SP, Zielinski MD. Urinary tract infection in elderly trauma patients: review of the Trauma Quality Improvement Program identifies the population at risk. <i>J Trauma Acute Care Surg.</i> 2014 Dec;77(6):952-9. doi: 10.1097/TA.0000000000000351.	<i>Geriatrics, UTI, Cost Analysis</i>
2014	Davis ML, Wehbe-Janek H, Subacius H, Pinto R, Nathens AB. The Trauma Center Organizational Culture Survey: development and conduction. <i>J Surg Res.</i> 2015 Jan;193(1):7-14. doi: 10.1016/j.jss.2014.07.062. Epub 2014 Jul 29.	<i>Survey Development, Organizational Culture</i>
2014	Glance LG, Mukamel DB, Osler TM, Dick AW. Ranking trauma center quality: can past performance predict future performance? <i>Ann Surg.</i> 2014 Apr;259(4):682-6. doi: 10.1097/SLA.0000000000000334.	<i>Collaborative, Performance Metrics, Prediction Model</i>
2014	Heaney JB, Guidry C, Simms E, Turney J, Meade P, Hunt JP, McSwain NE Jr, Duchesne JC. To TQIP or not to TQIP? That is the question. <i>Am Surg.</i> 2014 Apr;80(4):386-90.	<i>Program Analysis, Prediction Model</i>
2014	Kozar RA, Holcomb JB, Xiong W, Nathens AB. Are all deaths recorded equally? The impact of hospice care on risk-adjusted mortality. <i>J Trauma Acute Care Surg.</i> 2014 Mar;76(3):634-9; discussion 639-41. doi: 10.1097/TA.0000000000000130.	<i>Hospice Care, Risk Adjustment, Benchmarking</i>

2014	Alali AS, Scales DC, Fowler RA, Mainprize TG, Ray JG, Kiss A, de Mestral C, Nathens AB. Tracheostomy timing in traumatic brain injury: a propensity-matched cohort study. <i>J Trauma Acute Care Surg</i> . 2014 Jan;76(1):70-6; discussion 76-8. doi: 10.1097/TA.0b013e3182a8fd6a.	<i>Severe TBI, Tracheostomy</i>
2013	Calland JF, Xin W, Stukenborg GJ. Effects of leading mortality risk factors among trauma patients vary by age. <i>J Trauma Acute Care Surg</i> . 2013 Sep;75(3):501-5. doi: 10.1097/TA.0b013e31829bb75c.	<i>Risk Factors, Risk Adjustment</i>
2013	Alali AS, Fowler RA, Mainprize TG, Scales DC, Kiss A, de Mestral C, Ray JG, Nathens AB. Intracranial pressure monitoring in severe traumatic brain injury: results from the American College of Surgeons Trauma Quality Improvement Program. <i>J Neurotrauma</i> . 2013 Oct 15;30(20):1737-46. doi: 10.1089/neu.2012.2802. Epub 2013 Jul 11.	<i>Severe TBI, Cerebral Monitoring</i>
2013	Newgard CD, Fildes JJ, Wu L, Hemmila MR, Burd RS, Neal M, Mann NC, Shafi S, Clark DE, Goble S, Nathens AB. Methodology and analytic rationale for the American College of Surgeons Trauma Quality Improvement Program. <i>J Am Coll Surg</i> . 2013 Jan;216(1):147-57. doi: 10.1016/j.jamcollsurg.2012.08.017.	<i>Program Development</i>
2012	Hranjec T, Sawyer RG, Young JS, Swenson BR, Calland JF. Mortality factors in geriatric blunt trauma patients: creation of a highly predictive statistical model for mortality using 50,765 consecutive elderly trauma admissions from the National Sample Project. <i>Am Surg</i> . 2012 Dec;78(12):1369-75.	<i>Geriatric Assessment, Predictive Modeling</i>
2012	Calland JF, Nathens AB, Young JS, Neal ML, Goble S, Abelson J, Fildes JJ, Hemmila MR. The effect of dead-on-arrival and emergency department death classification on risk-adjusted performance in the American College of Surgeons Trauma Quality Improvement Program. <i>J Trauma Acute Care Surg</i> . 2012; Nov;73(5):1086-1092.	<i>Mortality Classification, Risk Adjustment</i>
2012	Clark DE, Qian J, Winchell RJ, Betensky RA. Hazard regression models of early mortality in trauma centers. <i>J Am Coll Surg</i> . 2012 Dec;215(6):841-9. doi: 10.1016/j.jamcollsurg.2012.08.023. Epub 2012 Oct 1.	<i>Hazard Regression Modeling, Mortality Trends</i>
2012	Shafi S, Renfro LA, Barnes S, Rayan N, Gentilello LM, Fleming N, Ballard D. Chronic consequences of acute injuries: worse survival after discharge. <i>J Trauma Acute Care Surg</i> . 2012 Sep;73(3):699-703.	<i>Needs Assessment, Follow-Up, Survival Rate</i>
2012	Shafi S, Rayan N, Barnes S, Fleming N, Gentilello LM, Ballard D. Moving from "optimal resources" to "optimal care" at trauma centers. <i>J Trauma Acute Care Surg</i> . 2012 Apr;72(4):870-7. doi: 10.1097/TA.0b013e3182463e20.	<i>Guideline Adherence, Processes of Care</i>
2012	Nathens AB, Cryer HG, Fildes J. The American College of Surgeons Trauma Quality Improvement Program. <i>Surg Clin North Am</i> . 2012 Apr;92(2):441-54, x-xi. doi: 10.1016/j.suc.2012.01.003. Epub 2012 Feb 14. Review.	<i>Program Development, Outcome Assessment</i>
2011	Shafi S, Barnes S, Nicewander D, Ballard D, Nathens AB, Ingraham AM, Hemmila M, Goble S, Neal M, Pasquale M, Fildes JJ, Gentilello LM. Health care reform at trauma centers--mortality, complications, and length of stay. <i>J Trauma</i> . 2010 Dec;69(6):1367-71. doi: 10.1097/TA.0b013e318181fb785d.	<i>Cost Savings, Processes of Care</i>
2011	Sarkar B, Brunsvold ME, Cherry-Bukoweic JR, Hemmila MR, Park PK, Raghavendran K, Wahl WL, Wang SC, Napolitano LM. American College of Surgeons' Committee on Trauma Performance Improvement and Patient Safety program: maximal impact in a mature trauma center. <i>J Trauma</i> . 2011 Nov;71(5):1447-53; discussion 1453-4. doi: 10.1097/TA.0b013e3182325d32.	<i>Program Assessment, Patient Outcomes</i>

2011	Haas B, Gomez D, Xiong W, Ahmed N, Nathens AB. External benchmarking of trauma center performance: have we forgotten our elders? <i>Ann Surg</i> . 2011 Jan;253(1):144-50. doi: 10.1097/SLA.0b013e3181f9be97.	<i>Geriatrics, Age Factors, Treatment Outcomes</i>
2010	Shafi S, Parks J, Ahn C, Gentilello LM, Nathens AB. More operations, more deaths? relationship between operative intervention rates and risk-adjusted mortality at trauma centers. <i>J Trauma</i> . 2010 Jul;69(1):70-7.	<i>Risk Adjustment, Clinical Protocol</i>
2010	Clark DE, Hannan EL, Raudenbush SW. Using a hierarchical model to estimate risk-adjusted mortality for hospitals not included in the reference sample. <i>Health Serv Res</i> . 2010; Apr;45(2):577-87.	<i>Hierarchical Models, Risk Adjustment</i>
2010	Shafi S, Parks J, Ahn C, Gentilello LM, Nathens AB, Hemmila MR, Pasquale MD, Meredith JW, Cryer HG, Goble S, Neil M, Price C, Fildes JJ. Centers for medicare and medicaid services quality indicators do not correlate with risk-adjusted mortality at trauma centers. <i>J Trauma</i> . 2010 Apr;68(4):771-7.	<i>CMS, Quality Indicators, Risk Adjustment</i>
2010	Hemmila MR, Nathens AB, Shafi S, Calland JF, Clark DE, Cryer HG, Goble S, Hoelt CJ, Meredith JW, Neal ML, Pasquale MD, Pomphrey MD, Fildes JJ. The Trauma Quality Improvement Program: Pilot study and initial demonstration of feasibility. <i>J Trauma</i> . 2010; Feb; 68(2):253-62.	<i>Program Development, Feasibility, Program Evaluation</i>
2009	Shafi S, Nathens AB, Cryer HG, Hemmila MR, Pasquale MD, Clark DE, Neal M, Goble S, Meredith JW, Fildes JJ. The Trauma Quality Improvement Program of the American College of Surgeons Committee on Trauma. <i>J Am Coll Surg</i> . 2009 Oct;209(4):521-530.e1. doi: 10.1016/j.jamcollsurg.2009.07.001. Epub 2009 Aug 13	<i>Program Development, Program Evaluation</i>

118 Total Publications

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