



Volume 229
Number 2
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Original Scientific Articles

- 141** **Current Burden of Gunshot Wound Injuries at Two Los Angeles County Level I Trauma Centers**
CME
Christopher P Foran, MD, Damon H Clark, MD, Reynold Henry, MD, Priti Lalchandani, MD, Dennis Y Kim, MD, FACS, Brant A Putnam, MD, FACS, Morgan Schellenberg, MD, Christianne J Lane, PhD, Kenji Inaba, MD, FACS, Demetrios G Demetriades, MD, PhD, FACS
- When compared with patients with stab wounds or blunt assault injuries, gunshot wound victims have significantly higher admission Injury Severity Scores, higher mortality rates, more admissions to the operating room and ICU, longer length of stay, and higher hospital charges.
- 150** **Firearm Legislation Stringency and Firearm-Related Fatalities among Children in the US**
Sriraman Madhavan, MS, Jordan S Taylor, MD, Julia M Chandler, MD, Kristan L Staudenmayer, MD, FACS, Stephanie D Chao, MD, FACS
- National data on firearm fatalities among children were examined in the context of state legislation and socioeconomic factors. Stricter overall firearm legislation is associated with lower rates of pediatric firearm mortality. Child access prevention laws are associated with fewer pediatric firearm suicides, even when accounting for other laws.
- 158** **Success of Hospital Intervention and State Legislation on Decreasing and Standardizing Postoperative Opioid Prescribing Practices**
CME
Monica Zipple, MD, Amy Braddock, MD, FACS
- Hospital intervention is successful in dramatically decreasing postoperative opioid prescribing and resolving variation in prescribing practices after common general surgery procedures. Additional research is needed across different populations and procedures to establish a standardized approach to postoperative pain management.
- 163** **Surgeons Take Action to Reduce Opioid Diversion via the Implementation of Guideline-Based Opioid Prescribing**
Gabiella Tortorello, BA, Rachel R Kelz, MD, MSCE, MBA, FACS

166 To Sleep, Perchance to Dream: Acute and Chronic Sleep Deprivation in Acute Care Surgeons

Jamie J Coleman, MD, FACS, Caitlin K Robinson, BS, Ben L Zarzaur, MD, MPH, FACS, Lava Timsina, PhD, MPH, Grace S Rozycki, MD, MBA, FACS, David V Feliciano, MD, FACS

Acute care surgeons with in-house call responsibilities commonly exhibit sleep patterns consistent with acute and chronic sleep deprivation. These abnormal sleep patterns worsen on post-call day 2, with recovery to baseline achieved on post-call day 3.

175 Association Between Hospital Safety Culture and Surgical Outcomes in a Statewide Surgical Quality Improvement Collaborative

David D Odell, MD, MMSc, FACS, Christopher M Quinn, MS, Richard S Matulewicz, MD, MS, Julie Johnson, PhD, MSPH, Kathryn E Engelhardt, MD, Jonah J Stulberg, MD, PhD, FACS, Anthony D Yang, MD, MS, FACS, Jane L Holl, MD, MPH, Karl Y Bilimoria, MD, MS, FACS

The safety culture within hospital systems is increasingly recognized as important to delivery of surgical care. The Safety Attitudes Questionnaire was used to assess safety culture in 49 hospitals. Positive safety culture was significantly associated with lower postoperative morbidity and death or serious morbidity.

184 Pulse Pressure as an Early Warning of Hemorrhage in Trauma Patients**CME**

Erika M Priestley, BS, Kenji Inaba, MD, FACS, Saskya Byerly, MD, Subarna Biswas, MD, FACS, Monica D Wong, MS, Lydia Lam, MD, FACS, Elizabeth Benjamin, MD, PhD, FACS, Demetrios Demetriades, MD, PhD, FACS

In patients who are not hypotensive in the resuscitation bay, narrowed pulse pressure is an independent predictor of active hemorrhage requiring blood product transfusion and intervention for hemorrhage control. Additionally, the probability of active hemorrhage increases as pulse pressure narrows.

192 National Pancreatic Fistula Rates after Minimally Invasive Pancreaticoduodenectomy: A NSQIP Analysis

Roheena Z Panni, MD, Jarot Guerra, MD, William G Hawkins, MD, FACS, Bruce L Hall, MD FACS, Horacio J Asbun, MD, FACS, Dominic E Sanford, MD, MPH

We demonstrate that national pancreatic fistula rates after minimally invasive pancreaticoduodenectomy are improving with time. Furthermore, this improvement in patient outcomes is largely attributable to improved pancreatic fistula rates in patients at lower risk of pancreatic fistula.

- 200** **Monocytic HLA-DR Expression for Prediction of Anastomotic Leak after Colorectal Surgery**
Alena Sint, MD, Rebecca Lutz, MD, Matthias Assenmacher, MSc, Helmut Küchenhoff, PhD,
Florian Kühn, MD, Eugen Faist, MD, FACS, Alexandr V Bazhin, PhD,
Markus Rentsch, MD, FACS, Jens Werner, MD, Tobias S Schiergens, MD

Diagnostic accuracy of monocytic HLA-DR expression in predicting anastomotic leakage after colorectal operations was assessed and compared with standard serum markers and was shown to be a more accurate predictor for anastomotic leakage compared with WBCs, C-reactive protein, and procalcitonin.

- 210** **Clinical Significance of Esophageal Outflow Resistance Imposed by a Nissen Fundoplication**
CME Shahin Ayazi, MD, Steven R DeMeester, MD, FACS, Jeffrey A Hagen, MD, FACS,
Joerg Zehetner, MD, FACS, Ross M Bremner, MD, PhD, FACS, John C Lipham, MD, FACS,
Peter F Crookes, MD, FACS, Tom R DeMeester, MD, FACS

Outflow resistance of the fundoplication must be <20 mmHg, and the esophageal contraction amplitude globally in the distal third of the esophagus must exceed this threshold to avoid persistent postoperative dysphagia.

- 217** **Abrupt Discontinuation of the Codman Hepatic Artery Infusion Pump: Considerations in the Era of Precision Medicine**
Ryan J Ellis, MD, MS, Peter Angelos, MD, PhD, FACS, William R Jarnagin, MD, FACS,
Nancy E Kemeny, MD, Ryan P Merkow, MD, MS

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Raghvinder Pal Singh Gambhir, MS, DNB, FRCSEd, FFSTEd, FRCS, FACS, FEBS
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Amirreza T Motameni, MD
- 222** **Identifying the Optimal Lymph Node Number to Resect for Pancreatic Cancer: An Unsolved Problem**
J Madison Hyer, MS, Diamantis I Tsilimigras, MD, Timothy M Pawlik, MD, MPH, PhD, FACS
- 223** **Pancreatic Cancer Lymph Node Status: An Unsolved Problem that Impacts Recommendation Despite Guidelines: In reply to Hyer and colleagues**
Amanda K Arrington, MD, FACS, Taylor S Riall, MD, FACS

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225 Success of hospital intervention and state legislation on decreasing and standardizing postoperative opioid prescribing practices. Zipple M, Braddock A

Pulse pressure as an early warning of hemorrhage in trauma patients. Priestley EM, Inaba K, Byerly S, et al.

Additional Articles for August 2019 Online at <http://jacscme.facs.org>

Clinical Significance of Esophageal Outflow Resistance Imposed by a Nissen Fundoplication. Ayazi S, DeMeester SR, Hagen JA, et al.

Current Burden of Gunshot Wound Injuries at Two Los Angeles County Level I Trauma Centers. Foran CP, Clark DH, Henry R, et al.

Available Online Only

Surgeon at Work

e1 Testing the Integrity of a Roux-en-Y Hepaticojejunostomy: The Air Insufflation Test
Rajan Saxena, MBBS, MS, FACS, Venkata Vishwanath Reddy Ch, MBBS, MS

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