Current Awareness Bulletin

Trauma
October 2014

Journal articles

Analgesia and Anaesthesia

Long-term pain prevalence and health-related quality of life outcomes for patients enrolled in a ketamine versus morphine for prehospital traumatic pain randomised controlled trial
Paul A Jennings, Peter Cameron, Stephen Bernard, Tony Walker, Damien Jolley, Mark Fitzgerald, Kevin Masci
Emerg Med J 2014;31:840-843
[Abstract][Full text][PDF][Request permissions]

Bleeding/Coagulation

Risks associated with red blood cell transfusion in the trauma population, a meta-analysis
Sunil V Patel, Biniam Kidane, Michelle Klingel, Neil Parry
Injury, Volume 45, Issue 10, Pages 1522–1533, October 2014
http://www.injuryjournal.com/article/S0020-1383(14)00254-X/abstract

Using critical administration thresholds to predict abbreviated laparotomy
Savage, Stephanie A. MD; Sumislawski, Joshua J. BS; Croce, Martin A. MD; Zarzaur, Ben L. MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 599-603

Elderly Trauma

Age-related trends in severe injury hospitalization in Canada
Hill, Andrea D. PhD; Pinto, Ruxandra PhD; Nathens, Avery B. MD, PhD; Fowler, Robert A. MD, MS
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 608-613

Injuries

Comparison of outcomes after triceps split versus sparing surgery for extra-articular distal humerus fractures
Emmanuel M. Illical, Dana J. Farrell, Peter A. Siska, Andrew R. Evans, Gary S. Gruen, Ivan S. Tarkin
Injury, Volume 45, Issue 10, Pages 1522–1533, p1545–1548
Reoperation following open reduction and plate fixation of displaced mid-shaft clavicle fractures
Injury, Volume 45, Issue 10, Pages 1522–1533, p1549–1553

Long-term results and treatment modalities of conservatively treated Broberg–Morrey type 1 radial head fractures
Arjen J. Smits, Georgios F. Giannakopoulos, Wietse P. Zuidema
Injury, Volume 45, Issue 10, Pages 1522–1533, p1564–1568

Pressure distribution in carpometacarpal joint, due to step-off in operatively treated Bennett's fractures
C. Deml, V. Smekal, T. Kastenberger, M. Mueller-Gerbl, M. Lutz, R. Arora
Injury, Volume 45, Issue 10, Pages 1522–1533, p1574–1578

UK combat-related pelvic junctional vascular injuries 2008–2011: Implications for future intervention
N.M. Walker, W. Eardley, J.C. Clasper
Injury, Volume 45, Issue 10, Pages 1522–1533, p1585–1589

Surgical resection of severe heterotopic ossification after open reduction and internal fixation of acetabular fractures: A case series of 18 patients
Xin-Bao Wu, Ming-Hui Yang, Shi-Wen Zhu, Qi-Yong Cao, Hong-Hua Wu, Man-Yi Wang, Derly O. Cuellar, Cyril Mauffrey
Injury, Volume 45, Issue 10, Pages 1522–1533, p1604–1610

The primary determinants of radiation use during fixation of proximal femur fractures
Michael D. Baratz, Yue-Yung Hu, David Zurakowski, Paul Appleton, Edward K. Rodriguez
Injury, Volume 45, Issue 10, Pages 1522–1533, p1614–1619

Patient characteristics and risk of subsequent contralateral hip fracture after surgical management of first fracture
Jeffrey Chirk Fan Lau, Ki Wai Ho, Shahzad Sadiq
Injury, Volume 45, Issue 10, Pages 1522–1533, p1620–1623

Location of civilian ballistic femoral fracture indicates likelihood of arterial injury
Leah Gitajn, Paul Perdue, John Hardcastle, Robert V. O'Toole
Injury, Volume 45, Issue 10, Pages 1522–1533, p1637–1642

Quadricepsplasty: A sustained functional achievement in front of a deteriorated flexion gain
Mahmoud Mahran, Yasser El Batrawy, Francesco Sala, Mohamed Al Kersh
Injury, Volume 45, Issue 10, Pages 1522–1533, p1643–1647

Delayed bone healing following high tibial osteotomy related to increased implant stiffness in locked plating
Götz Röderer, Florian Gebhard, Lutz Duerselen, Anita Ignatius, Lutz Claes
Injury, Volume 45, Issue 10, Pages 1522–1533, p1648–1652

Health outcomes of delayed union and nonunion of femoral and tibial shaft fractures
Wei-Han Tay, Richard de Steiger, Martin Richardson, Russell Gruen, Zsolt J. Balogh
Injury, Volume 45, Issue 10, Pages 1522–1533, p1653–1658

Osteonecrosis of distal tibia in open dislocation fractures of the ankle
F. Blanke, S. Loew, P. Ferrat, V. Valderrabano, P.E. Ochsner, M. Majewski
Injury, Volume 45, Issue 10, Pages 1522–1533, p1659–1663

Effect of elevated serum alcohol level on the outcome of severely injured patients
Max J Scheyerer, Joel Dütschler, Adrian Billeter, Stefan M Zimmermann, Kai Sprengel, Clement M L Werner, Hans-Peter Simmen, Guido A Wanner
Emerg Med J 2014;31:813-817
The Effects of Ulnar Styloid Fractures on Patients Sustaining Distal Radius Fractures
Parham Daneshvar, Robert Chan, Joy MacDermid, Ruby Grewal

Percutaneous Distal Radius–Ulna Pinning of Distal Radius Fractures to Prevent Settling
Jin Young Kim, Suk Kee Tae

Pattern of maxillofacial fractures: A 5-year analysis of 8,818 patients
Motamedi, Mohammad Hosein Kalantar DDS; Dadgar, Esmaeel DDS; Ebrahimi, Ali MD; Shirani, Gholamreza DDS; Haghighat, Abbas DDS; Jamalpour, Mohammad Reza DDS
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 630-634

Management of adult patients with buttock and perineal burns: The Ross Tilley Burn Centre experience
Merchant, Nishant MD; Boudana, David MD; Willoughby, L MD; Lin, JJ MS; Rehou, Sarah MS; Shahrokhi, Shahrriar MD; Jeschke, Marc G. MD, PhD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 640-648

Agricultural Injuries to the Hand and Upper Extremity
Mark Aaron Yaffe and F. Thomas Kaplan
http://www.jaos.org/content/22/10/605.abstract

The systemic immune response to trauma: an overview of pathophysiology and treatment [Series Article]
Prof Janet M Lord PhD, Prof Mark J Midwinter MD, Yen-Fu Chen PhD, Antonio Belli MD, Prof Karim Brohi MD, Prof Elizabeth J Kovacs PhD, Prof Leo Koenderman PhD, Prof Paul Kubes PhD, Prof Richard J Lilford MD
The Lancet, Volume 384, Issue 9952, Pages 1455 - 1465, 18 October 2014
http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(14)60687-5/fulltext

Paediatric Trauma

Pre-Hospital Care

Impact of introducing a major trauma network on a regional helicopter emergency medicine service in the UK
Carl McQueen, Nick Crombie, Gavin D Perkins, Steve Wheaton
Emerg Med J 2014;31:844-850
[Abstract]

Prehospital hypertension is predictive of traumatic brain injury and is associated with higher mortality
Barmparas, Galinos MD; Liou, Douglas Z. MD; Lamb, Alexander W. BS; Gangi, Alexandra MD; Chin, Mike BS; Ley, Eric J. MD; Salim, Ali MD; Bukur, Marko MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 592-598

Radiology in Trauma

How many radiographs are needed to detect angular stable head screw cut outs of the proximal humerus – A cadaver study
Christian Spross, Bernhard Jost, Stefan Rahm, Sebastian Winklhofer, Johannes Erhardt, Emanuel Benninger
Injury, Volume 45, Issue 10, Pages 1522–1533, p1557–1563
Does the CT improve inter- and intra-observer agreement for the AO, Fernandez and Universal classification systems for distal radius fractures?
Georgios Arealis, Ilias Galanopoulos, Vassilios S. Nikolaou, Andrew Lacon, Neil Ashwood, Christos Kitsis
Injury, Volume 45, Issue 10, Pages 1522–1533, p1579–1584

Radiological outcome and intraoperative evaluation of a computer-navigation system for femoral nailing: A retrospective cohort study
Nael Hawi, Emmanouil Liodakis, Eduardo M. Suero, Timo Stuebig, Musa Citak, Christian Krettek
Injury, Volume 45, Issue 10, Pages 1522–1533, p1632–1636

Role of neuroimaging in management of traumatic brain injury
Han Seng Chew, Joe J Leyon, Vijay Sawlani, and Latha Senthil
Trauma October 2014 16: 227-242
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Emergency radiology: Maxillofacial and skull-base trauma
Laura Zilinskiene, Matthew R Idle, and Steve Colley
Trauma October 2014 16: 243-255
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Imaging of thoracic trauma
Benjamin Holloway, Helen Mathias, and Peter Riley
Trauma October 2014 16: 256-268
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Imaging in abdominal trauma
Homoyoon Mehrzad, Robert G Jones, Ian J McCafferty, and Kamarjit Mangat
Trauma October 2014 16: 269-278
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The emergency radiology of pelvic trauma
Ayeshea Shenton and Surabhi Choudhary
Trauma October 2014 16: 279-291
Abstract

Emergency radiology: Peripheral vascular injuries
H Mehrzad, W Bashir, and J Hopkins
Trauma October 2014 16: 292-299
Abstract

Imaging of skeletal extremity trauma: A review
Waseem A Bashir, Akhmid Aziz, and Isman Jidaal
Trauma October 2014 16: 300-317
Abstract

Trends in Musculoskeletal Imaging in Trauma Patients: How Has Our Practice Changed Over Time?
Vallier, Heather A. MD; Ahmadiania, Kasra MD; Forde, Frank A. BS; Ekstein, Charles MD†; Nash, Clyde L. Jr MD†; Tornetta, Paul III MD†

Positive FAST Without Hemoperitoneum Due to Fluid Resuscitation in Blunt Trauma
Jonathan E. Slutzman, Lisa A. Arvold, Joshua S. Rempell, Michael B. Stone, Heidi H. Kimberly

Early lung ultrasonography predicts the occurrence of acute respiratory distress syndrome in blunt trauma patients
Damien Leblanc, Clément Bouvet, Franck Degiovanni, Cosmina Nedelcu, Guillaume Bouhours, Emmanuel Rineau, Catherine Ridereaup-Zins, Laurent Beydon & Sigismond Lasocki
Pan computed tomography versus selective computed tomography in stable, young adults after blunt trauma with moderate mechanism: A cost-utility analysis
Lee, Wayne S. MD; Parks, Nancy A. MD; Garcia, Arturo MD; Palmer, Barnard J.A. MD, MEd; Liu, Terrence H. MD, MPH; Victorino, Gregory P. MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 527-533

Whole-body computed tomographic scanning leads to better survival as opposed to selective scanning in trauma patients: A systematic review and meta-analysis
Caputo, Nicholas D. MD, MSc; Stahmer, Chris MD; Lim, George MD; Shah, Kaushal MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 534-539

Early repeat imaging is not warranted for high-grade blunt cerebrovascular injuries
Wagenaar, Amy E.; Burlew, Clay Cothren MD; Biffl, Walter L. MD; Beauchamp, Kathryn M. MD; Pieracci, Fredric M. MD; Stovall, Robert T. MD; Jurkovich, Gregory J. MD; Moore, Ernest E. MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 540-545

Computed tomographic scan: It's not just about the fracture
Vanguri, Poornima MD; Young, Andrew J. MD; Weber, William F. MD; Katzen, Judith RN; Han, Jinfeng RN; Wolfe, Luke G. MS; Duane, Therese M. MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 604-607

Resuscitation

THERM: the Resuscitation Management score. A prognostic tool to identify critically ill patients in the emergency department
G N Cattermole, E C H Liow, C A Graham, T H Rainer
Emerg Med J 2014;31:803-807
[Abstract]

Postinjury abdominal compartment syndrome: from recognition to prevention [Series Article]
Prof Zsolt J Balogh MD, William Lumsdaine MBBS a, Prof Ernest E Moore MD, Prof Frederick A Moore MD
The Lancet, Volume 384, Issue 9952, Pages 1466 - 1475, 18 October 2014
http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(14)61689-5/fulltext

Surgical Technique

Balloon kyphoplasty for osteoporotic spinal fractures with middle column compromise
Minfeng Gan, Jun Zou, Xuesong Zhu, Genlin Wang, Huilin Yang
Injury, Volume 45, Issue 10, Pages 1522–1533, p1539–1544

Surgical excision of ununited hook of hamate fractures via the carpal tunnel approach
Injury, Volume 45, Issue 10, Pages 1522–1533, p1554–1556

Reconstruction of multiple fingertip injuries with reverse flow homodigital flap
Mehmet A. Acar, Yunus Güzel, Ali Güleç, Faik Türkmen, Ömer F. Erkoçak, Güney Yılmaz
Injury, Volume 45, Issue 10, Pages 1522–1533, p1569–1573

Retrograde lag screw placement in anterior acetabular column with regard to the anterior pelvic plane and midsagittal plane—Virtual mapping of 260 three-dimensional hemipelvises for quantitative anatomic analysis
Bjoern Gunnar Ochs, Fabian Maria Stuby, Atesch Ateschrarg, Ulrich Stoeckle, Christoph Emanuel Gonser
Injury, Volume 45, Issue 10, Pages 1522–1533, p1590–1598
Arthroscopic Reduction and Percutaneous Fixation of Selected Calcaneus Fractures: Surgical Technique and Early Results
Sivakumar, Brahman S. BSc (Med), MBBS, MS; Wong, Peter BPhysio, MPhysio, MBBS; Dick, Charles G. MBBS, MRCS; Steer, Richard A. BSc, MHSc, MBBS; Tetsworth, Kevin MD, FRACS

Open Reduction and Internal Fixation Compared With ORIF and Primary Subtalar Arthrodesis for Treatment of Sanders Type IV Calcaneal Fractures: A Randomized Multicenter Trial
Buckley, Richard MD, FRCS; Leighton, Ross MD, FRCSC; Sanders, David MD, FRCSC; Poon, Jeffrey MD, BCH; Coles, Chad PMD, FRCSC; Stephen, David MD, FRCSC; Paolucci, Elizabeth O. MD

The Reamer–Irrigator–Aspirator as a Device for Harvesting Bone Graft Compared With Iliac Crest Bone Graft: Union Rates and Complications
Dawson, John MD; Kiner, Dirk MD†; Gardner, Warren II MD; Swafford, Rachel MPH†; Nowotarski, Peter J. MD†

Wound Complications Associated With Bone Morphogenetic Protein-2 in Orthopaedic Trauma Surgery
Chan, Daniel S. MD; Garland, Joshua MD; Infante, Anthony DO; Sanders, Roy W. MD; Sagi, H. Claude MD

Trauma Unit Management

Analysis of usage and associated cost of external fixators at an urban level 1 trauma centre
George W. Chaus, Chase Dukes, David J. Hak, Cyril Mauffrey, E. Mark Hammerberg
Injury, Volume 45, Issue 10, Pages 1522–1533, p1611–1613

A population based study on the night-time effect in trauma care
Stefano Di Bartolomeo, Massimiliano Marino, Chiara Ventura, Susanna Trombetti, Rossana De Palma
Emerg Med J 2014;31:808-812
[Abstract]

Orthopaedic Trauma Patients and Depression: A Prospective Cohort
Becher, Stephen MD; Smith, Michele PhD; Ziran, Bruce MD‡

Predictors of Readmission in Orthopaedic Trauma Surgery
Hageman, Michiel G. J. S. MD; Bossen, Jeroen K. J. MD; Smith, R. Malcolm MD; Ring, David MD, PhD

Past Blood Alcohol Concentration and Injury in Trauma Center: Propensity Scoring
Hind Beydoun, Alison Teel, Chris Crowder, Suraj Khanal, Bruce M. Lo

Honoring patients’ organ donation decisions when family conflict is present: Experience from a single organ procurement organization
Stahler, Paul A. MD; Weese, Susan E.; Nygaard, Rachel M. PhD; Hill, Mark J. MD; Richardson, Chad J. MD; Larson, Susan Mau MPA; Gunderson, Susan MHA; Quickel, Robert R. MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 555-558

Hypothermia in organ donation: A friend or foe?
Joseph, Bellal MD; Khalil, Mazhar MD; Pandit, Viraj MD; Kulvatunyou, Narong MD; Zangbar, Bardiya MD; Tang, Andrew MD; O’Keeffe, Terence MB ChB; Snyder, Kara RN; Green, Donald J. MD; Gries, Lynn MD; Friese, Randall S. MD; Rhee, Peter MD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 559-563
Applicability of the predictors of the historical trauma score in the present Dutch trauma population: Modelling the TRISS predictors
Gunning, Amy C. MD, MSc; Leenen, Luke P.H. MD, PhD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 614-619

The quest for a universal definition of polytrauma: A trauma registry-based validation study
Butcher, Nerida E. MD; D’Este, Catherine PhD; Balogh, Zsolt J. MD, PhD
Journal of Trauma and Acute Care Surgery: October 2014 - Volume 77 - Issue 4 - p 620-623

Evidence Updates

Best Evidence Topic Reports
BET 1: Does restrictive fluid resuscitation in penetrating chest injury affect outcome?
Emerg Med J 2014;31:861-862
http://emj.bmj.com/content/31/10/861.2?etoc

New book in the Library

Emergency Nursing made Incredibly Easy, 1st UK ed., Lippincott Williams and Wilkins, 2011, shelved at WD458

Emergency Nursing Made Incredibly Easy! covers the fundamental aspects of emergency care nursing. Presented in a logical and user-friendly manner, the book has been adapted fully so that the content is placed firmly in the UK context for education and practice.

Following a systems-based approach, Emergency Nursing Made Incredibly Easy! will ensure nurses have the knowledge and skills to provide the best possible care. The book covers the basics of triage, such as the evidence-based triage process, and holistic care issues, such as cultural and psychological support considerations. Subsequent chapters focus on physiological systems, covering shock, trauma & musculoskeletal, cardiac, respiratory, neurological, gastrointestinal, genitourinary, gynaecological & childbirth, maxillofacial and ophthalmic, and general environmental emergencies.

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