

## REFERENCES

- Jacobs DG, Plaisier BR, Barie PS, et al: Practice management guidelines for geriatric trauma: the EAST Practice Management Guidelines Work Group. *J Trauma* 54: 391, 2003. [PMID: 12579072]
- <http://www.census.gov/population/www/projections/summarytables.html> (National Population Projections Table 3. Percent Distribution of the Projected Population by Selected Age Groups and Sex for the United States: 2010 to 2050 [NP2008-T3] Population Division, U.S. Census Bureau.) Accessed July 30, 2012.
- <http://www.census.gov/popest/archives/EST90INTERCENSAL/US-EST90INT-04.html> (Table US-EST90INT-04—Intercensal Estimates of the United States Resident Population by Age Groups and Sex, 1990–2000, U.S. Census Bureau, Current Population Reports, P25-1095.) Accessed June 25, 2012.
- Champion HR, Copes WS, Buyer D, Flanagan ME, Bain L, Sacco WJ: Major trauma in geriatric patients. *Am J Public Health* 79: 1278, 1989. [PMID: 2764207]
- MacKenzie EJ, Morris JA Jr, Smith GS, Fahey M: Acute hospital costs of trauma in the United States: implications for regionalized systems of care. *J Trauma* 30: 1096, 1990. [PMID: 2213943]
- Hollis S, Lecky F, Yates DW, Woodford M: The effect of pre-existing medical conditions and age on mortality after injury. *J Trauma* 61: 1255, 2006. [PMID: 17099538]
- Menaker J, Scalea TM: Geriatric care in the surgical intensive care unit. *Crit Care Med* 38: S452, 2010. [PMID: 20724878]
- Narang AT, Sikka R: Resuscitation of the elderly. *Emerg Med Clin North Am* 24: 261, 2006. [PMID: 16584957]
- Stevens JA, Mack KA, Paulozzi LJ, Ballesteros MF: Self-reported falls and fall-related injuries among persons aged >65 years—United States, 2006. *Morbid Mortal Wkly Rev* 57: 225, 2008. [PMID: 18571577]
- [http://webappa.cdc.gov/sasweb/ncipc/leadcaus10\\_us.html](http://webappa.cdc.gov/sasweb/ncipc/leadcaus10_us.html) (WISQARS leading causes of death reports, 1999–2009, National Center for Injury Prevention and Control, US Centers for Disease Control.) Accessed July 21, 2012.
- Fleischman RJ, Adams AL, Hedges JR, Ma OJ, Mullins RJ, Newgard CD: The optimum follow-up period for assessing mortality outcomes in injured older adults. *J Am Geriatr Soc* 58: 1843, 2010. [PMID: 20831727]
- Ioannidis G, Flahive J, Pickard L, et al: Non-hip, non-spine fractures drive healthcare utilization following a fracture: the Global Longitudinal Study of Osteoporosis in Women (GLOW). *Osteoporos Int* April 12, 2012. [Epub ahead of print] [PMID: 22525976]
- <http://www-nrd.nhtsa.dot.gov/Pubs/811625.pdf> (2010 older population traffic safety fact sheet: National Highway Traffic Safety Administration.) Accessed August 6, 2012.
- <http://www-nrd.nhtsa.dot.gov/Pubs/811625.pdf> (2010 pedestrian traffic safety fact sheet: National Highway Traffic Safety Administration.) Accessed August 6, 2012.
- Roberts G, Lloyd M, Parker M, et al: The Baux score is dead. Long live the Baux score: a 27-year retrospective cohort study of mortality at a Regional Burns Service. *J Trauma* 72: 251, 2012. [PMID: 22310134]
- Osler T, Gance LG, Hosmer DW: Simplified estimates of the probability of death after burn injuries: extending and updating the Baux score. *J Trauma* 68: 690, 2010. [PMID: 20038856]
- Scalea TM, Simon HM, Duncan AO, et al: Geriatric blunt multiple trauma: improved survival with early invasive monitoring. *J Trauma* 30: 129, 1990. [PMID: 2304107]
- Martin JT, Alkhoury F, O'Connor JA, Kyriakides TC, Bonadies JA: 'Normal' vital signs belie occult hypoperfusion in geriatric trauma patients. *Am Surg* 76: 65, 2010. [PMID: 20135942]
- Heffernan DS, Thakkar RK, Monaghan SF, et al: Normal presenting vital signs are unreliable in geriatric blunt trauma victims. *J Trauma* 69: 813, 2010. [PMID: 20938267]
- Knudson MM, Lieberman J, Morris JA, Cushing DB, Stubbs HA: Mortality factors in geriatric blunt trauma patients. *Arch Surg* 129: 448, 1994. [PMID: 8154972]
- Horst HM, Obeid RN, Sorensen VJ, et al: Factors influencing survival of elderly trauma patients. *Crit Care Med* 14: 681, 1986. [PMID: 3720325]
- [http://www.cdc.gov/traumaticbraininjury/pdf/blue\\_book.pdf](http://www.cdc.gov/traumaticbraininjury/pdf/blue_book.pdf) (Traumatic brain injury in the United States: emergency department visits, hospitalizations and deaths 2002–2006. U.S. Department of Health and Human Services.) Accessed June 26, 2012.
- Li J, Brown J, Levine M: Mild head injury, anticoagulants, and risk of intracranial injury. *Lancet* 357: 771, 2001. [PMID: 11253975]
- Pieracci FM, Eachempati SR, Shou J, et al: Degree of anticoagulation, but not warfarin use itself, predicts adverse outcomes after traumatic brain injury in elderly trauma patients. *J Trauma* 63: 525, 2007. [PMID: 18073596]
- Nishijima DK, Offerman SR, Ballard DW, et al: Immediate and delayed traumatic intracranial hemorrhage in patients with head trauma and preinjury warfarin or clopidogrel use. *Ann Emerg Med* 59: 460, 2012. [PMID: 22626015]
- Grandhi R, Harrison G, Bauer JS, et al: Preinjury antithrombotic therapy and the elderly TBI patient. *Neurosurgery* 71: E559, 2012. [PMID: 22811137]
- McMillian WD, Rogers FB: Management of prehospital antiplatelet and anticoagulant therapy in traumatic head injury: a review. *J Trauma* 66: 942, 2009. [PMID: 19276776]
- Touger M, Gennis P, Nathanson N, et al: Validity of a decision rule to reduce cervical spine radiography in elderly patients with blunt trauma. *Ann Emerg Med* 40: 287, 2002. [PMID: 12192352]
- Stiell IG, Wells GA, Vandemheen KL, et al: The Canadian C-Spine Rule for radiography in alert and stable trauma patients. *JAMA* 286: 1841, 2001. [PMID: 11597285]
- Hoffman JR, Mower WR, Wolfson AB, Todd KH, Zucker MI: Validity of a set of clinical criteria to rule out injury to the cervical spine in patients with blunt trauma. National Emergency X-Radiography Utilization Study Group. *N Engl J Med* 343: 94, 2000. [PMID: 10891516]
- Looby S, Flanders A: Spine trauma. *Radiol Clin North Am* 49: 129, 2011. [PMID: 2111133]
- Ensrud KE, Schousboe JT: Clinical practice. Vertebral fractures. *N Engl J Med* 364: 1634, 2011. [PMID: 21524214]
- Papaioannou A, Watts NB, Kendler DL, Yuen CK, Adachi JD, Ferko N: Diagnosis and management of vertebral fractures in elderly adults. *Am J Med* 113: 220, 2002. [PMID: 12208381]
- Diaz JJ, Cullinane DC, Altman DT, et al: Practice management guidelines for the screening of thoracolumbar spine fracture. *J Trauma* 63: 709, 2007. [PMID: 18073623]
- Bergeron E, Lavoie A, Clas D, et al: Elderly patients with rib fractures are at greater risk of death and pneumonia. *J Trauma* 54: 478, 2003. [PMID: 12634526]
- Bulger EM, Arneson MA, Mock CN, Jukovich GJ: Rib fractures in the elderly. *J Trauma* 48: 1040, 2000. [PMID: 10866248]
- Callaway DW, Wolfe R: Geriatric trauma. *Emerg Med Clin North Am* 25: 837–860, 2007. [PMID: 17826220]
- ACT Investigators: Acetylcysteine for prevention of renal outcomes in patients undergoing coronary and peripheral vascular angiography: main results from the randomized Acetylcysteine for Contrast-Induced Nephropathy Trial (ACT). *Circulation* 124: 1250, 2011. [PMID: 21859972]
- Sinert R, Doty CI, Brown MD: Bicarbonate to prevent contrast-induced nephropathy in the emergency department: does the Brar Study change recommendations? *Ann Emerg Med* 54: e6, 2009. [PMID: 19070940]
- Shin D-H, Choi D-J, Youn T-J, et al: Comparison of contrast-induced nephrotoxicity of iodixanol and iopromide in patients with renal insufficiency undergoing coronary angiography. *Am J Cardiol* 108: 189, 2011. [PMID: 21545991]
- Bolognese L, Falsini G, Schwenke C, et al: Impact of iso-osmolar versus low-osmolar contrast agents on contrast-induced nephropathy and tissue reperfusion in unselected patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention (from the Contrast Media and Nephrotoxicity Following Primary Angioplasty for Acute Myocardial Infarction [CONTRAST-AMI] Trial). *Am J Cardiol* 109: 67, 2012. [PMID: 21943940]
- Sinert R, Doty CI: Update: prevention of contrast-induced nephropathy in the emergency department. *Ann Emerg Med* 54: e1, 2009. [PMID: 18926598]
- Zhou L, Chen H: Prevention of contrast-induced nephropathy with ascorbic acid. *Intern Med* 51: 531, 2012. [PMID: 22449658]
- Ježek M, Džupa V: The influence of patient age and mechanism of injury on the type of pelvic fracture: epidemiological study. *Acta Chir Orthop Traumatol Cech* 279: 65, 2012. [PMID: 22405552]
- Obaid AK, Barleben A, Porral D, Lush S, Cinat M: Utility of plain film pelvic radiographs in blunt trauma patients in the emergency department. *Am Surg* 72: 951, 2006. [PMID: 17058743]
- Bent C, Chicklore S, Newton A, Habig K, Harris T: Do emergency physicians and radiologists reliably interpret pelvic radiographs obtained as part of a trauma series? *Emerg Med J* March 12, 2012. [Epub ahead of print] [PMID: 22411598]
- Lunsjo K, Tados A, Hauggaard A, Blomgren R, Kopke J, Abu-Zidan F: Acute plain anteroposterior radiograph of the pelvis is not useful in detecting fractures of iliac wing and os sacrum: a prospective study of 73 patients using CT as gold standard. *Australas Radiol* 51: 147, 2007. [PMID: 17419859]
- Hilty MP, Behrendt I, Benneker LM, et al: Pelvic radiography in ATLS algorithms: a diminishing role? *World J Emerg Surg* 3: 11, 2008. [PMID: 18318904]
- Henes FO, Nüchtern JV, Groth M, et al: Comparison of diagnostic accuracy of magnetic resonance imaging and multidetector computed tomography in the detection of pelvic fractures. *Eur J Radiol* 81: 2337, 2012. [PMID: 21924851]
- Velmahos GC, Toutouzas KG, Vassiliu P, et al: A prospective study on the safety and efficacy of angiographic embolization for pelvic and visceral injuries. *J Trauma* 53: 303, 2002. [PMID: 12169938]
- Kimbrell BJ, Velmahos GC, Chan LS, Demetriades D: Angiographic embolization for pelvic fractures in older patients. *Arch Surg* 139: 728, 2004. [PMID: 15249404]
- Blackmore CC, Cummings P, Jurkovich GJ, Linnau KE, Hoffer EK, Rivara FP: Predicting major hemorrhage in patients with pelvic fracture. *J Trauma* 61: 346, 2006. [PMID: 16917449]
- Salim A, Teixeira PGR, DuBose J, et al: Predictors of positive angiography in pelvic fractures: a prospective study. *J Am Coll Surg* 207: 656, 2008. [PMID: 18954776]
- Brauer CA, Coca-Perrillon M, Cutler DM, Rosen AB: Incidence and mortality of hip fractures in the United States. *J Am Med Assoc* 302: 1573, 2009. [PMID: 19826027]
- Zuckerman JD: Hip fracture. *N Engl J Med* 334: 1519, 1996. [PMID: 8618608]
- Cannon J, Silvestri S, Munro M: Imaging choices in occult hip fracture. *J Emerg Med* 37: 144, 2009. [PMID: 18963720]
- Hakkariinen DK, Banh KV, Hendey GW: Magnetic resonance imaging identifies occult hip fractures missed by 64-slice computed tomography. *J Emerg Med* 43: 303, 2012. [PMID: 22459594]
- Blakeney W: Stabilization and treatment of Colles' fractures in elderly patients. *Clin Interv Aging* 5: 337, 2010. [PMID: 21228899]

59. Hegeman J: The distal radial fracture in elderly women and the bone mineral density of the lumbar spine and hip. *J Hand Surg* 29: 473, 2004. [PMID: 15336753]
60. Diaz-Garcia RJ, Oda T, Shauver MJ, Chung KC: A systematic review of outcomes and complications of treating unstable distal radius fractures in the elderly. *J Hand Surg* 36: 824, 2011. [PMID: 21527140]
61. McNelis J, Marini CP, Jurkiewicz A, et al: Prolonged lactate clearance is associated with increased mortality in the surgical intensive care unit. *Am J Surg* 182: 481, 2001. [PMID: 11754855]
62. Husain FA, Martin MJ, Mullenix PS, et al: Serum lactate and base deficit as predictors of mortality and morbidity. *Am J Surg* 185: 485, 2003. [PMID: 12727572]
63. Davis JW, Kaups KL: Base deficit in the elderly: a marker of severe injury and death. *J Trauma* 45: 873, 1998. [PMID: 9820695]
64. Demetriades D, Sava J, Alo K, et al: Old age as a criterion for trauma team activation. *J Trauma* 51: 754, 2001. [PMID: 11586171]
65. Chang DC, Bass RR, Cornwell EE, Mackenzie EJ: Undertriage of elderly trauma patients to state-designated trauma centers. *Arch Surg* 143: 776, 2008. [PMID: 18711038]
66. Lehmann R, Beekley A, Casey L, Salim A, Martin M: The impact of advanced age on trauma triage decisions and outcomes: a statewide analysis. *Am J Surg* 197: 571, 2009. [PMID: 19393350]
67. Sasser SM, Hunt RC, Faul M, et al: Guidelines for field triage of injured patients: recommendations of the National Expert Panel on Field Triage, 2011. *MMWR Recomm Rep* 61: 1, 2012. [PMID: 22237112]
68. American College of Surgeons, American College of Surgeons Committee on Trauma: *Advanced Trauma Life Support for Doctors*. 8th ed. Chicago, IL: American College of Surgeons, 2008.
69. Goldstein JN, Thomas SH, Frontiero V, et al: Timing of fresh frozen plasma administration and rapid correction of coagulopathy in warfarin-related intracerebral hemorrhage. *Stroke* 37: 151, 2006. [PMID: 16306465]
70. Washington CW, Schuerer DJ, Grubb RL: Platelet transfusion: an unnecessary risk for mild traumatic brain injury patients on antiplatelet therapy. *J Trauma* 71: 358, 2011. [PMID: 21825939]
71. Downey DM, Monson B, Butler KL, et al: Does platelet administration affect mortality in elderly head-injured patients taking antiplatelet medications? *Am Surg* 75: 1100, 2009. [PMID: 19927514]
72. Li J: Admit all anticoagulated head-injured patients? A million dollars versus your dime. You make the call. *Ann Emerg Med* 59: 457, 2012. [PMID: 22306486]
73. Li J: Validation of the dime. *Ann Emerg Med* 9: 469, 2012. [PMID: 22626016]
74. Richmond TS, Kauder D, Strumpf N, et al: Characteristics and outcomes of serious traumatic injury in older adults. *J Am Geriatr Soc* 50: 215, 2002. [PMID: 12028201]