

Supplemental references

51. Burlew CC, Moore EE, Smith WR, et al. Preperitoneal pelvic packing/external fixation with secondary angioembolization: optimal care for life-threatening hemorrhage from unstable pelvic fractures. *J Am Coll Surg*, Apr 2011, 212(4) p628-35
52. Cherry RA, Goodspeed DC, Lynch FC, et al. Intraoperative angioembolization in the management of pelvic-fracture related hemodynamic instability. *J Trauma Manag Outcomes*, 2011, 5 p6
53. Cothren CC, Osborn PM, Moore EE, et al. Preperitoneal pelvic packing for hemodynamically unstable pelvic fractures: a paradigm shift. *J Trauma*, Apr 2007, 62(4) p834-9; discussion 839-42
54. Cullinane DC, Schiller HJ, Zielinski MD, et al. Eastern Association for the Surgery of Trauma practice management guidelines for hemorrhage in pelvic fracture--update and systematic review. *J Trauma*, Dec 2011, 71(6) p1850-68
55. Flint L, Cryer HG Pelvic fracture: the last 50 years. *J Trauma*, Sep 2010, 69(3) p483-8
56. Gabbe BJ, de Steiger R, Esser M, et al. Predictors of mortality following severe pelvic ring fracture: results of a population-based study. *Injury*, Oct 2011, 42(10) p985-91
57. Jeske HC, Larndorfer R, Krappinger D, et al. Management of hemorrhage in severe pelvic injuries. *J Trauma*, Feb 2010, 68(2) p415-20
58. Osborn PM, Smith WR, Moore EE, et al. Direct retroperitoneal pelvic packing versus pelvic angiography: A comparison of two management protocols for haemodynamically unstable pelvic fractures. *Injury*, Jan 2009, 40(1) p54-60
59. Tai DK, Li WH, Lee KY, et al. Retroperitoneal pelvic packing in the management of hemodynamically unstable pelvic fractures: a level I trauma center experience. *J Trauma*, Oct 2011, 71(4) pE79-86
60. Griffin XL, Pullinger R. Are diagnostic peritoneal lavage or focused abdominal sonography for trauma safe screening investigations for hemodynamically stable patients after blunt abdominal trauma? A review of the literature. *J Trauma* 2007, 62(3) p779-84
61. Khan MA, Lovegrove RE. Diagnostic peritoneal lavage versus hand-held FAST: the future for diagnosis of injury in the military environment. *J R Nav Med Serv*, 2008, 94(1) p19-21
62. Rhodes CM, Smith HL, Sidwell RA. Utility and relevance of diagnostic peritoneal lavage in trauma education. *J Surg Educ*, Jul-Aug 2011, 68(4) p313-7
63. van der Vlies CH, Olthof DC, Gaakeer M, et al. Changing patterns in diagnostic strategies and the treatment of blunt injury to solid abdominal organs. *Int J Emerg Med*, 2011, 4 p47
64. Whitehouse JS, Weigelt JA Diagnostic peritoneal lavage: a review of indications, technique, and interpretation. *Scand J Trauma Resusc Emerg Med*, 2009, 17 p13
65. Asensio JA, Petrone P, Pereira B, et al. Penetrating cardiac injuries: A historic perspective and fascinating trip through time. *J Am Coll Surg*. 2009;208(3):462-472
66. Hung KK. Best evidence topic report. BET 3. use of pericardiocentesis for patients with cardiac tamponade in penetrating chest trauma. *Emerg Med J*. 2009;26(2):119-120.
67. Hunt PA, Greaves I, Owens WA. Emergency thoracotomy in thoracic trauma-a review. *Injury*. 2006;37(1):1-19.
68. O'Connor J, Ditillo M, Scalea T, Penetrating cardiac injury. *J R Army Med Corps*, Sep

- 2009, 155(3) p185-90
69. Downing SM, The effects of violating standard item writing principles on tests and students: the consequences of using flawed test items on achievement examinations in medical education. *Adv Health Sci Educ Theory Pract*, 2005, 10(2) p133-43
 70. Haladyna TM, A review of Multiple choice item writing guidelines for classroom assessment. *Applied Measurement in Education* 15(3), 309-334, 2002
 71. Kibble JD, Johnson T, Are faculty predictions or item taxonomies useful for estimating the outcome of multiple-choice examinations? *Adv Physiol Educ*, Dec 2011, 35(4) p396-401
 72. Kilroy DA Teaching the trauma teachers: an international review of the Advance Trauma Life Support Instructor Course. *Emerg Med J* 2007; 24:467-470
 73. Webster JB, Incorporation of core competency questions into an annual national self-assessment examination for residents in physical medicine and rehabilitation: results and implications. *PM R*, Mar 2009, 1(3) p229-33
 74. DiBattista, D, Kurzawa, (2011) "Examination of the Quality of Multiple-choice Items on Classroom Tests," *The Canadian Journal for the Scholarship of Teaching and Learning*: Vol. 2: Iss. 2, Article 4.
 75. Franko OI, Tirrell TF. Smartphone app use among medical providers in ACGME training programs. *J Med Syst*, Oct 2012, 36(5) p3135-9
 76. Franko OI, Bhola S. iPad apps for orthopedic surgeons. *Orthopedics*, Dec 2011, 34(12) p978-81
 77. Mohan AT, Branford OA. iGuide to plastic surgery: iPhone apps, the plastic surgeon, and the health care environment. *Aesthet Surg J*, Jul 2012, 32(5) p653-8
 78. Ball CG, Williams BH, Wyrzykowski AD, Nicholas JM, Rozycki GS, Feliciano DV. A caveat to the performance of pericardial ultrasound in patients with penetrating cardiac wounds. *J Trauma* 2009;67(5):1123-4.
 79. Brasel KJ, Stafford RE, Weigelt JA, Tenquist JE, Borgstrom DC. Treatment of occult pneumothoraces from blunt trauma. *J Trauma* 1999; 46(6), 987-990; discussion 990-991.
 80. Demetriades D, Velmahos G, et al. Diagnosis and treatment of blunt aortic injuries: changing perspectives. *J Trauma* 2008;64:1415-1419.
 81. Demetriades D, Velmahos G, et al. Operative repair of endovascular stent graft in blunt traumatic thoracic aortic injuries: results of an American Association for the Surgery of Trauma multicenter study. *J Trauma* 2008;64:561-571.
 82. Dulchavsky SA, Schwarz KL, Kirkpatrick AW, et al. Prospective evaluation of thoracic ultrasound in the detection of pneumothorax. *J Trauma* 2001; (Feb50):201-5.
 83. Ekeh AP, Peterson W, et al. Is chest x-ray an adequate screening tool for the diagnosis of blunt thoracic aortic injury? *J Trauma* 2008;65:1088-1092.

84. Harcke HT, Pearse LA, Levy AD, Getz JM, Robinson SR. Chest wall thickness in military personnel: implications for needle thoracentesis in tension pneumothorax. *Mil Med* 2007;172(120):1260-1263.
85. Hershberger RC, Bernadette A, et al. Endovascular grafts for treatment of traumatic injury to the aortic arch and great vessels. *J Trauma* 2009;67(3):660-671.
86. Kenji Inaba, MD, FRCSC, FACS, Bernardino C. Branco, MD, Marc Eckstein, MD, David V. Shatz, MD, Matthew J. Martin, MD, Donald J. Green, MD, Thomas T. Noguchi, MD, and Demetrios Demetriades, MD, PhD. *Optimal Positioning for Emergent Needle Thoracostomy: A Cadaver-Based Study*. *J Trauma* 2011;71:1099-1103.
87. Karmy-Jones R, Jurkovich GJ, Nathens AB, Shatz DV, Brundage S, Wall MJ Jr, Engelhardt S, Hoyt DB, Holcroft J, Knudson MM. Timing of urgent thoracotomy for hemorrhage after trauma: a multicenter study. *Archives of Surgery* 2001;136(5):513-8.
88. Sisley AC, Rozyycki GS, Ballard RB, Namias N, Salomone JP, Feliciano DV. Rapid detection of traumatic effusion using surgeon-performed ultrasonography. *J Trauma* 1998;44:291-7.
89. Wilkerson RG, Stone MB. Sensitivity of bedside ultrasound and supine anteroposterior chest radiographs for the identification of pneumothorax after blunt trauma. [Review] [24 refs] *Acad Emerg Med* 2010;17(1):11-7.
90. Fabian TC, Croce MA. Abdominal trauma, including indications for laparotomy. In: Mattox LK, Feliciano DV, Moore EE, eds. *Trauma*. East Norwalk, CT: Appleton & Lange; 2000:583-602.
91. Atkinson JLD. The neglected prehospital phase of head injury: apnea and catecholamine surge. *Mayo Clin Proc* 2000;75(1):37-47.
92. Eelco F.M. Wijdicks, Panayiotis N. Varelas, Gary S. Gronseth and David M. Greer. Evidence-based guideline update: Determining brain death in adults. Report of the Quality Standards Subcommittee of the American Academy of Neurology. *Neurology*. 2010;74:1911-1918.
93. <http://www.cdc.gov/traumaticbraininjury/>. Accessed May 4, 2012.
94. Johnson U, Nilsson P, Ronne-Engstrom E, et al. Favorable outcome in traumatic brain injury patients with impaired cerebral pressure autoregulation when treated at low cerebral perfusion pressure levels. *Neurosurgery* 2011;68:714-722.
95. Mower WR, et al. Developing a Decision Instrument to Guide Computed Tomographic Imaging of Blunt Head Injury Patients. <http://www.ncbi.nlm.nih.gov/pubmed/16374287>. *J Trauma* 2005;59:954-9.

96. Rosengart AJ, Huo D, Tolentino J, Novakovic RL, Frank JI, Goldenberg FD, Macdonald RL. Outcome in patients with subarachnoid hemorrhage treated with antiepileptic drugs. *J Neurosurg* 2007;107:253-260.
97. Sakellaridis N, Pavlou E, Karatzas S, Chroni D, Vlachos K, Chatzopoulos K, Dimopoulou E, Kelesis C, Karaouli V. Comparison of mannitol and hypertonic saline in the treatment of severe brain injuries. *J Neurosurg* 2011;114:545-548.
98. Valadka AB. Injury to cranium. In Moore, Feliciano, Mattox, eds. *Trauma*, 2008, pp 385-406.
99. Como J, et al. Practice management guidelines for identification of cervical spine injuries following trauma: update from the Eastern Association for the Surgery of Trauma Practice Management Guidelines Committee. *J Trauma* 2009;67:651-659.
100. Goodwin RB, Beery PR II, Dorbish RJ, et al. Computed tomographic angiography versus conventional angiography for the diagnosis of blunt cerebrovascular injury in trauma patients. *J Trauma* 2009;67(5):1046-50.
101. Guly HR, Bouamra O, Lecky FE, The incidence of neurogenic shock in patients with isolated spinal cord injury in the emergency department. *Resuscitation* 2008;76:57-62.
102. Hoffman JR, Mower WR, Wolfson AB, et al. Validity of a set of clinical criteria to rule out injury to the cervical spine in patients with blunt trauma, *N Eng J Med* 2000;343:94-99.
103. Krassioukov AV, Karlsson AK, Wecht JM, et al. Assessment of autonomic dysfunction following spinal cord injury: rationale for additions to International Standards for Neurological Assessment. *J Rehabil Res Dev* 2007;44:103-112.
104. Patel JC, Tepas JJ, Mollitt DL, et al. Pediatric cervical spine injuries: defining the disease. *J Pediatr Surg* 2001;36:373-376.
105. Peretti-Vanmarcke R, et al. Clinical clearance of the cervical spine in blunt trauma patients younger than 3 years: a multi-center study of the American Association for the Surgery of Trauma. *J Trauma* 2009 67:543-550.
106. Stein DM, Boswell S, Sliker CW, et al. Blunt cerebrovascular injuries: does treatment always matter? *J Trauma* 2009;66(1):132-42; discussion 143-4.
107. Stiell IG, Clement CM, Grimshaw J, et. al, Implementation of the Canadian C-Spine Rule: prospective 12 centre cluster randomised trial. *BMJ* 2009;339:b4146.
108. Stiell IG, Wells GA, Vandemheen KL, et al. The Canadian C-Spine rule of radiography in alert and stable trauma patients. *JAMA* 2001;286:1841-8.

109. Vicellio P, Simon H, Pressman B, et al. A prospective multicenter study of cervical spine injury in children. *Pediatrics* 2001;108(2).
110. Okike K, Bhattacharyya T. Trends in the management of open fractures. A critical analysis. *J Bone Joint Surg Am* 2006;88:2739-2748.
111. Herndon D. ed. *Total Burn Care*. 3rd ed. Philadelphia, PA: Saunders; 2007.
112. American College of Surgeons Committee on Trauma, American College of Emergency Physicians, National Association of EMS Physicians, Pediatric Equipment Guidelines Committee—Emergency Medical Services for Children (EMSC) Partnership for Children Stakeholder Group and American Academy of Pediatrics Baby Center. (n.d.) Milestone chart: 1 to 6 months and Milestone chart: 7 to 12 months. <http://www.babycenter.com/babymilestones>. Accessed.
113. Bratton SL, Chestnut RM, Ghajar J, et al. Guidelines for the management of severe traumatic brain injury. II. Hyperosmolar therapy. *J Neurotrauma* 2007;24 Suppl 1:S14-20. Brain Trauma Foundation; American Association of Neurological Surgeons; Congress of Neurological Surgeons; Joint Section on Neurotrauma and Critical Care, AANS/CNS, PEDIATRICS Vol. 124 No. 1 July 2009, pp. e166-e171 (doi:10.1542/peds.2009-1094)
114. Capizzani AR, Drogonowski R, Ehrlich PF. Assessment of termination of trauma resuscitation guidelines: are children small adults? *J Pediatr Surg* 2010;45:903-907.1.
115. Chwals WJ, Robinson AV, Sivit CJ, et al. Computed tomography before transfer to a level I pediatric trauma center risks duplication with associated radiation exposure. *J Pediatr Surg* 2008;43:2268-2272.
116. Clements RS, Steel AG, Bates AT, et al. Cuffed endotracheal tube use in paediatric prehospital intubation: challenging the doctrine? *Emerg Med J* 2007;24(1): 57-58.
117. Cook SH, Fielding JR, Phillips JD. Repeat abdominal computed tomography scans after pediatric blunt abdominal trauma: missed injuries, extra costs, and unnecessary radiation exposure. *J Pediatr Surg* 2010;45:2019-2024.
118. Davies DA, Ein SH, Pearl R, et al. What is the significance of contrast “blush” in pediatric blunt splenic trauma? *J Pediatr Surg* 2010;45:916-920.
119. Fastle RK, Roback MG. Pediatric rapid sequence intubation: incidence of reflex bradycardia and effects of pretreatment with atropine. *Pediatr Emerg Care* 2004;20(10):651-655.
120. Haricharan RN, Griffin RL, Barnhart DC, et al. Injury patterns among obese children involved in motor vehicle collisions. *J Pediatr Surg* 2009;44:1218-1222.

121. Holmes JF, Gladman A, Chang CH. Performance of abdominal ultrasonography in pediatric blunt trauma patients: a meta-analysis. *J Pediatr Surg* 2007;42:1588-1594.14.
122. Holmes J, Lillis K, Monroe D, et al. Identifying children at very low risk of intra-abdominal injuries undergoing acute intervention. *Acad Emerg Med* 2011;18:S161.
123. Kuppermann N, Holmes JF, Dayan PS, et al, for the Pediatric Emergency Care Applied Research Network (PECARN): Identification of children at very low risk of clinically-important brain injuries after head trauma: a prospective cohort study. *Lancet* 2009;374:1160-1170.
124. Leonard JC, Kuppermann N, Olsen C, et al, for the Pediatric Emergency Care Applied Research Network. Factors associated with cervical spine injury in children following blunt trauma. *Ann Emerg Med* 2011;58:145-155.
125. McAuliffe G, Bissonnette B, Boutin C. Should the routine use of atropine before succinylcholine in children be reconsidered? *Can J Anaesth* 1995;42(8):724-729.
126. McVay MR, Kokoska ER, Jackson RJ, et al. Throwing out the “grade” book: management of isolated spleen and liver injury based on hemodynamic status. *J Pediatr Surg* 2008;43:1072-1076.
127. Murphy JT, Jaiswal K, Sabella J, Vinson L, et al. Prehospital cardiopulmonary resuscitation in the pediatric trauma patient. *J Pediatr Surg* 2010 Jul;45(7):1413-1419.
128. Neal MD, Sippey M, Gaines BA, et al. Presence of pneumomediastinum after blunt trauma in children: what does it really mean? *J Pediatr Surg* 2009;44:3122-1327.
129. Paris C, Brindamour M, Ouimet A, et al. Predictive indicators for bowel injury in pediatric patients who present with a positive seat belt sign after motor vehicle collision. *J Pediatr Surg* 2010;45:921-924.
130. Pieretti-Vanmarcke R, Vehmahos GC, Nance ML, et al. Clinical clearance of the cervical spine in blunt trauma patients younger than 3 years: a multi-center study of the American Association for the Surgery of Trauma. *J Trauma* 2009;67:543-550.
131. Rana AR, Drogonowski R, Breckner G, et al. Traumatic cervical spine injuries: characteristics of missed injuries. *J Pediatr Surg* 2009;44:151-155.
132. Retzlaff T, Hirsch W, Till H, et al. Is sonography reliable for the diagnosis of pediatric blunt abdominal trauma? *J Pediatr Surg* 2010;45(5):912-915
133. Rice HE, Frush DP, Farmer D, et al, APSA Education Committee. Review of radiation risks from computed tomography: essentials for the pediatric surgeon. *J Pediatr Surg* 2007;42:603-607.

134. Rothrock SG, Pagane J. Pediatric rapid sequence intubation incidence of reflex bradycardia and effects of pretreatment with atropine. *Pediatr Emerg Care* 2005;21(9):637-638.
135. Sasser SM, Hunt RC, Sullivent EE, et al. Guidelines for field triage of injured patients: recommendations of the National Expert Panel on Field Triage. *Morb Mortal Wkly Rep* 2009;58(RR-1):1-35.
136. Tollefsen WW, Chapman J, Frakes M, et al. Endotracheal tube cuff pressures in pediatric patients intubated before aeromedical transport. *Pediatr Emerg Care* 2010 May;26(5):361-3.
137. Tourtier JP, Auroy Y, Borne M, et al. Focused assessment with sonography in trauma as a triage tool. *J Pediatr Surg* 2010;45(4):849; author reply 849.
138. Weiss M, Dullenkopf A, Fischer JE, et al., European Paediatric Endotracheal Intubation Study Group. Prospective randomized controlled multi-centre trial of cuffed or uncuffed endotracheal tubes in small children. *Br J Anaesth* 2009;103(6):867-873.
139. Bergeron E, Lavoie A, Clas D, et al. Elderly trauma patients with rib fractures are at greater risk of death and pneumonia. *J Trauma* 2003;54:478-485.
140. Bulger EM, Jurkovich GJ, Farver CL, et al. Oxandrolone does not improve outcome for chronically ventilated surgical patients. *Ann Surg* 2004;240(3):472-8.
141. Demetriades D, Sava J, Alo K, et al. Old age as a criterion for trauma team activation. *J Trauma* 2001; 51: 754-756.
142. Gillespie LD, Robertson MC, Gillespie WJ, et al. Interventions for preventing falls in older people living in the community. *Evid Based Med* 2009;14:176.
143. Ivascu FA, Howells GA, Junn FS, Bair HA, Bendick PJ, Janczyk RJ. Predictors of mortality in trauma patients with intracranial hemorrhage on preinjury aspirin or clopidogrel. *J Trauma* 2008 Oct;65(4):785-8.
144. Karmakar MK, Ho AM-H. Acute pain management of patients with multiple fractured ribs. *J Trauma* 2003;54:615-625.
145. Lotfipour S, Kaku SK, Vaca FE, et al. Factors associated with complications in older patients with isolated blunt chest trauma. *West J Emerg Med* 2009;10:79-84.
146. McGwin G Jr., MacLennan PA, Fife JB, et al. Preexisting conditions and mortality in older trauma patients. *J Trauma* 2004;56:1291-1296
147. McKevitt EC, Calvert E, Ng A, et al. Geriatric trauma: resource use and patient outcomes. *Can J Surg* 2003;Jun;46(3):211-215.

148. McKinley BA, Marvin RG, Cocanour CS, et al. Blunt trauma resuscitation: the old can respond. *Arch Surg* 2000;135(6):688-693, discussion 694-695.
149. Mina AA, Bair HA, Howells GA, et al. Complications of preinjury warfarin use in the trauma patient. *J Trauma* 2003;54:842-847.
150. Mosenthal AC, Livingston DH, Lavery RF, et al. The effect of age on functional outcome in mild traumatic brain injury: 6-month report of a prospective multicenter trial. *J Trauma* 2004;56:1042-1048.
151. National Center on Elder Abuse. Why Should I Care About Elder Abuse? http://www.ncea.aoa.gov/ncearoot/Main_Site/pdf/publication/NCEA_WhatIsAbuse-2010.pdf. Accessed March, 2010.
152. Ottochian M, Salim A, DuBose J, Teixeira PG, et al. Does age matter? The relationship between age and mortality in penetrating trauma. *Injury* 2009;40:354-357.
153. Utomo WK, Gabbe BJ, Simpson PM, Cameron PA. Predictors of in-hospital and 6-month functional outcomes in older patients after moderate to severe traumatic brain injury. *Injury* 2009;40:973-977.
154. Adler G, Duchinski T, Jasinska A, et al. Fibrinogen fractions in the third trimester of pregnancy and in puerperium. *Thromb Res* 2000;97:405-410.
155. Hellgren M. Hemostasis during normal pregnancy and puerperium. *Semin Thromb Hemost* 2003;29(2):125-130.
156. Sela HY, Weiniger, CF, Hersch, et al. The pregnant motor vehicle accident casualty. Adherence to basic workup and admission guidelines. *Ann Surg* 2011;254(2).
157. www.who.int/violence_injury_prevention/violence/world_report/factsheets/en/ipvfacts.pdf. Accessed 5/14/12.
158. Bledsoe BE, Wesley AK, Eckstein M, et al. Helicopter scene transport of trauma patients with nonlife-threatening injuries: a meta-analysis. *J Trauma* 2006;60:1257-1266.
159. Castellani JW, Young AJ, Ducharme MB, et al. American College of Sports Medicine position stand: prevention of cold injuries during exercise. [Review]. *Med Sci Sports Exer* 2006;38(11):2012-2029.

160. Hildebrand F, Giannoudis PV, van Griensven M, et al. Pathophysiologic changes and effects of hypothermia on outcome in elective surgery and trauma patients. *Am J Surg* 2004;187(3):363-371.
161. Konstantinidis A, Inaba K, Dubose J, et al. The impact of nontherapeutic hypothermia on outcomes after severe traumatic brain injury. *J Trauma* 2011;71(6):1627-1631.
162. Larach MG. Accidental hypothermia. *Lancet* 1995; 345(8948):493-498.
163. Mallett ML. Accidental hypothermia. *QJM* 2002;95(12): 775-785.