33 Venous and Intraosseous Access in Adults

REFERENCES

- ECC Committee, Subcommittees and Task Forces of the American Heart Association: 2005 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. Circulation 112(24 Suppl): IV1-203, 2005.
- Geeraedts LM, Kaasjager HA, van Vugt AB, Frolke JP: Exsanguination in trauma: a review of diagnostics and treatment options. *Injury* 40: 11, 2009.
- Centers for Disease Control and Prevention: MMWR: Guidelines for Intravascular Catheter-Related Infections. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5110a1.htm. Accessed May 30, 2009; verified June 16, 2009.
- Brannam L, Blaivas M, Lyon M, et al: Emergency nurses' utilization of ultrasound guidance for placement of peripheral intravenous lines in difficult-access patients. Acad Emerg Med 11: 1361, 2004.
- Bauman M, Braude D, Crandall C: Ultrasound-guidance vs. standard technique in difficult vascular access patients by ED technicians. Am J Emerg Med 27: 135, 2009.
- Merrer J, De Jonghe B, Golliot F, et al: Complications of femoral and subclavian venous catheterization in critically ill patients: a randomized control trial. *JAMA* 286: 700, 2001.
- Miller AH, Roth BA, Mills TJ, et al: Ultrasound guidance versus the landmark technique for the placement of central venous catheters in the emergency department. Acad Emerg Med 9: 800, 2002.
- Dronen S, Thompson B, Nowak R, et al: Subclavian vein catheterization during cardiopulmonary resuscitation. A prospective comparison of the supraclavicular and infraclavicular percutaneous approaches. *JAMA* 247: 3227, 1982.
- Werner SL, Jones RA, Emerman CL: Effect of hip abduction and external rotation on femoral vein exposure for possible cannulation. J Emerg Med 35: 73, 2008.
- Stone MB, Price DD, Anderson BS: Investigation of the effect of reverse Trendelenburg on the cross-sectional area of the femoral vein. J Emerg Med 30: 211, 2006.
- Westfall MD, Price KR, Lambert M, et al: Intravenous access in the critically ill trauma patient: a multi-centered, prospective, randomized trial of saphenous cutdown and percutaneous femoral access. Ann Emerg Med 23: 541, 1994.
- Niemann JT, Stratton SJ, Cruz B, et al: Endotracheal drug administration during outof-hospital resuscitation: where are the survivors? *Resuscitation* 53: 153, 2002.
- Malach T, Jerassy Z, Rudensky B, et al: Prospective surveillance of phlebitis associated with peripheral intravenous catheters. Am J Infect Control 34: 308, 2006.
- Zarate L, Mandleco B, Wishaw R, et al: Peripheral intravenous catheters started in prehospital and emergency department settings. J Trauma Nurs 15: 47, 2008.

■ USEFUL WEB RESOURCE

 $Centers for Disease \ Control \ and \ Prevention: \ MMWR: Guidelines for \ Intravascular \ Catheter-Related \ Infections -- http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5110a1.htm$