

LITERATURE
General Articles

1. LaRocco BG, Wang HE: "Intraosseous infusion." *Prehospital Emergency Care*. 7:280-285, 2003.
2. Frascone R, Dries D, Gisch T, et al: "Obtaining vascular access: Is there a place for the sternal IO?" *Air Medical Journal*. 20:20-22, 2001.
3. Foex BA: "Discovery of the intraosseous route for fluid administration." *Journal of Accident and Emergency Medicine*. 17:136-137, 2000.
4. Lavis M, Vaghela A, Tozer C: "Adult intraosseous infusion in accident and emergency departments in the UK." *Journal of Accident and Emergency Medicine*. 17:29-32, 2000.
5. Greaves I, Evans GA, Boyle AA: "Intraosseous infusions in the adult." *Trauma*. 1:291-299, 1999.
6. Lavis M: "Pre-hospital adult intraosseous infusion." *Pre-hospital Immediate Care*. 3:89-92, 1999.
7. Kruse JA, Vyskocil JJ, Haupt MT: "Intraosseous infusions: A flexible option for the adult or child with delayed, difficult, or impossible conventional vascular access." *Critical Care Medicine*. 22:728-729, 1994.
8. Orłowski JP: "Emergency alternatives to intravenous access: Intraosseous, intratracheal, and other-site drug administration." *Pediatric Clinics of North America*. 41:1183-1199, 1994.
9. Schafer DS, Gouzenne SR, Youmans-Rientiets C, et al: "Vascular access using the intraosseous route in the adult tibia." *Annals of Emergency Medicine*. 21:638, 1992.
10. Orłowski JP, Poermbka DT, Gallagher JM, et al: "Comparison study of intraosseous, central intravenous, and peripheral intravenous infusions of emergency drugs." *American Journal of Diseases in Children*. 144:112-117, 1990.
11. Brunette DD, Fischer R: "Intravascular access in pediatric cardiac arrest." *American Journal of Emergency Medicine*. 6:577-579, 1988.
12. Rosetti VA, Thompson BM, Miller J, et al: "Intraosseous infusion: An alternative route of pediatric intravascular access." *Annals of Emergency Medicine*. 14:885-888, 1985.
4. Hubble MW, Trigg DC: "Training prehospital personnel in saphenous vein cutdown and adult intraosseous access techniques." *Prehospital Emergency Care*. 5:181-189, 2001.
5. Anderson TE, Arthur K, Kleinman M, et al: "Intraosseous infusion: Success of a standardized regional training program for prehospital advanced life support providers." *Annals of Emergency Medicine*. 23:52-55, 1994.
6. Glaeser PW, Helmich TR, Szewczuga D, et al: "Five-year experience in prehospital intraosseous infusions in children and adults." *Annals of Emergency Medicine*. 22:1119-1124, 1993.

IO Physiology/Anatomy/Pathology

1. Boon JM, Gorry DL, Meiring JH: "Finding an ideal site for intraosseous infusion of the tibia: An anatomical study." *Clinical Anatomy*. 16:15-18, 2003.
2. Claudet I, Baunin C, Laporte-Turpin E, et al: "Long-term effects on tibial growth after intraosseous infusion: A prospective, radiographic analysis." *Pediatric Emergency Care*. 19:397-401, 2003.
3. McCarthy G, O'Donnell C, O'Brien M: "Successful intraosseous infusion in the critically ill patient does not require a medullary cavity." *Resuscitation*. 56:183-186, 2003.

IO in Prehospital Care

1. DeBoer S, Seaver M, Morissette C: "Intraosseous infusion: Not just for kids anymore." *Emergency Medical Services*. 34:56-63, 2005.
2. Fiorito BA, Mirza F, Doran TM, et al: "Intraosseous access in the setting of pediatric critical care transport." *Pediatric Critical Care Medicine*. 6:50-53, 2005.
3. Vojtko M, Hanfling D: "The sternal IO and vascular access: Any port in a storm." *Air Medical Journal*. 22(1):32-34; discussion 34-35, 2003.

LITERATURE

4. Qin YX, Lin W, Rubin C: "The pathway of bone fluid flow as defined by in vivo intramedullary pressure and streaming potential measurements." *Annals of Biomedical Engineering*. 30:693-702, 2002.
5. Brickman KR, Rega P, Schoolfield L, et al: "Investigation of bone developmental and histopathologic changes from intraosseous infusion." *Annals of Emergency Medicine*. 28:430-435, 1996.

Historical Articles

1. *Circulation, Official Journal of the American Heart Association*, 2005: Vol. 112, Issue 22 Supplement
2. Orlowski JP: "My kingdom for an intravenous line." *American Journal of Diseases in Children*. 138:803, 1984.
3. Massey LWC: "Bone-marrow infusions: Intratibial and intravenous routes compared." *British Medical Journal*. 2:197-178, 1950.

ACLS/PALS Guidelines

1. Cummins RO (Ed.): *Advanced Cardiac Life Support: Principles and Practice*. Dallas, Texas: American Heart Association, 2003.
2. Hazinski MF (Ed.): *Pediatric Life Support (PALS) Provider Manual*. Dallas, Texas: American Heart Association, 2002.

Intraosseous Infusion Devices

1. Curran A, Sen A: "Best evidence topic report: Bone injection gun placement of

intraosseous needle." *Emergency Medicine Journal*. 22:366, 2005.

2. Johnson DL, Findlay J, Macnab AJ, et al: "Cadaver testing to validate design criteria of an adult intraosseous infusion system." *Military Medicine*. 170:251-257, 2005.
3. Carley S, Boyd R: "Best evidence topic report: Screw tip needles for intraosseous access." *Emergency Medicine Journal*. 21:336-337, 2004.
4. Miller LJ, Morrisette C: "Vida Port: An advanced easy IO device." *Prehospital Emergency Care*. 8:110-111, 2004.
5. Ben-Abraham R, Gur I, Vater Y, et al: "Intraosseous emergency access by physicians wearing full protective gear." *Academic Emergency Medicine*. 10:1407-1410, 2003.
6. Frascione R, Kaye K, Dries D, et al: "Successful placement of an adult intraosseous line through burned skin." *Journal of Burn Care and Rehabilitation*. 24:306-308, 2003.
7. Olsen D, Packer BE, Perrett H, et al: "Evaluation of the bone injection gun as a method for intraosseous cannula placement for fluid therapy in adult dogs." *Veterinary Surgery*. 31:533-540, 2002.
8. Macnab A, Christenson J, Findlay J, et al: "A new system for sternal intraosseous infusion in adults." *Prehospital Emergency Care*. 4:173-177, 2000.

Military Applications

1. Vardi A, Berkenstadt H, Levin I, et al: "Intraosseous vascular access in the treatment of chemical warfare casualties assessed by advanced simulation: Proposed alteration of treatment protocol." *Anesthesia and Analgesia*. 98(6):1753-1758, 2004.
2. Dubick MA, Holcomb JB: "A review of intraosseous access: Current status and military application." *Military Medicine*. 165:552-559, 2000.
3. Calkins MD, Fitzgerald G, Bentley TB, et al: "Intraosseous infusion devices: A comparison for use in special operations." *Journal of Trauma*. 48:1068-1074, 2000.

Pharmacokinetics/Pharmacodynamics

1. Miller LJ, Kuhn JG, Von Hoff DD: "Does IO equal IV?" *Prehospital Emergency Care*. 9:102, 2005.
2. Chastagner P, Lozniewski A, Lascombes P, et al: "Pharmacokinetic longitudinal studies of antibiotics administered via a permanent intraosseous device in micropigs." *Medical and Pediatric Oncology*. 36:635-640, 2001.
3. Goldstein R, Lavy E, Shem Tov M, et al: "Pharmacokinetics of ampicillin administered intravenously and intraosseously to kittens." *Research in Veterinary Science*. 59:186-187, 1995.
4. Golenz MR, Wilson WD, Carlson GP, et al: "Effect of route of administration and age on the pharmacokinetics of amikacin administered by the

LITERATURE

- intravenous and intraosseous routes to 3 and 5-day-old foals." *Equine Veterinary Journal*. 26:367-373, 1994.
5. Jaimovich DG, Kumar A, Francom S: "Evaluation of intraosseous vs. intravenous antibiotic levels in a porcine model." *American Journal of Diseases in Children*. 145:946-949, 1991.
 6. Cameron JL, Fontanarosa PB, Passalacqua AM: "A comparative study of peripheral to central circulation delivery times between intraosseous and intravenous injection using a radionuclide technique in normovolemic and hypovolemic canines." *Journal of Emergency Medicine*. 7:123-127, 1989.
 7. Jaimovich DG, Shabino CL, Ringer TV, et al: "Comparison of intraosseous and intravenous routes of anticonvulsant administration in a porcine model." *Annals of Emergency Medicine*. 18(8):842-846, 1989.
 8. Brickman KR, Rega P, Guinness M: "A comparative study of intraosseous versus peripheral intravenous infusion of diazepam and phenobarbital in dogs." *Annals of Emergency Medicine*. 16(10):1141-1144, 1987.
 9. Shoor PM, Berryhill RE, Benumof JL: "Intraosseous infusion: Pressure-flow relationship and pharmacokinetics." *Journal of Trauma*. 19:772-774, 1979.
- Case Studies**
1. Herman MI, Chyka PA, Butler AY, et al: "Methylene blue by intraosseous infusion for methemoglobinemia." *Annals of Emergency Medicine*. 33(1):111-113, 1999.
 2. Nasimi A, Gorin P, Berthier M, et al: "Use of the intraosseous route in a premature infant." *Archives of Pediatrics*. 5(4):414-417, 1998.
 3. McCarthy G, Buss P: "The calcaneum as a site for intraosseous infusion." *Journal of Accident and Emergency Medicine*. 15(6):421, 1998.
- Complications**
1. Dogan A, Irmak H, Harman M, et al: "Tibial osteomyelitis following intraosseous infusion: A case report." *Acta Orthopaedica et Traumatologica Turcica*. 38(5):357-360, 2004.
 2. Fiser RT, Walker WM, Seibert JJ, et al: "Tibial length following intraosseous infusion: A prospective radiographic analysis." *Pediatric Emergency Care*. 13(3):186-188, 1997.
 3. Gunal I, Kose N, Gurer D: "Compartment syndrome after intraosseous infusion: An experimental study in dogs." *Journal of Pediatric Surgery*. 31(11):1491-1493, 1996.
4. Brickman KR, Rega P, Schoolfield L, et al: "Investigation of bone developmental and histopathologic changes from intraosseous infusion." *Annals of Emergency Medicine*. 28(4):430-435, 1996.
 5. LaSpada J, Kissoon N, Melker R, et al: "Extravasation rates and complications of intraosseous needles during gravity and pressure infusion." *Critical Care Medicine*. 23(12):2023-2028, 1995.