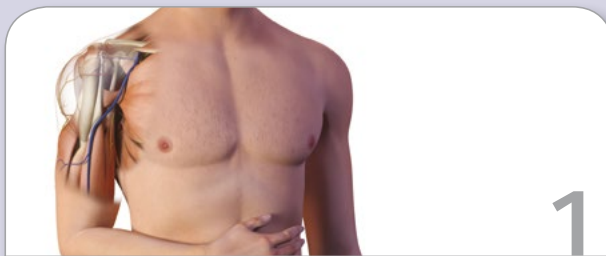




CLINICAL RESOURCE: PROXIMAL HUMERUS

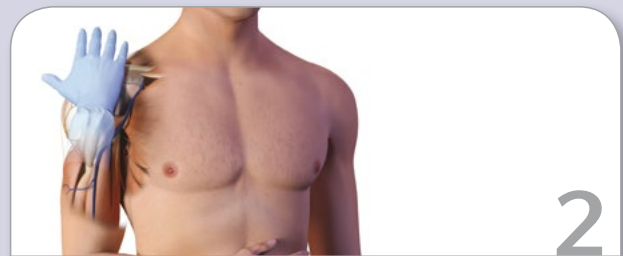
PROXIMAL HUMERUS SITE ADVANTAGES

- flow rates average 5 l/hour¹
- 3 seconds to heart with medications/fluids²
- lower insertion and infusion pain¹
- less medication for pain management¹
- no reported compartment syndrome due to IO placement



1

Place the patient's hand over the abdomen (elbow adducted and humerus internally rotated).



2

Place your palm on the patient's shoulder anteriorly.

- The area that feels like a "ball" under your palm is the general target area.
- You should be able to feel this ball, even on obese patients, by pushing deeply.



3

Place the ulnar aspect of one hand vertically over the axilla. Place the ulnar aspect of the opposite hand along the midline of the upper arm laterally.



4

Place your thumbs together over the arm.

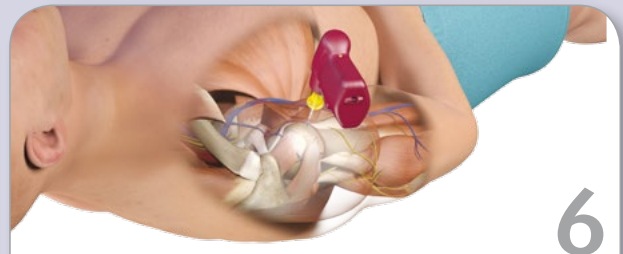
- This identifies the vertical line of insertion on the proximal humerus.



5

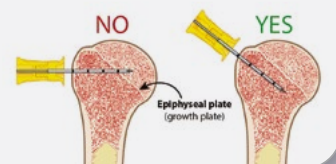
Palpate deeply as you climb up the humerus to the surgical neck.

- It will feel like a golf ball on a tee – the spot where the "ball" meets the "tee" is the surgical neck. The insertion site is on the most prominent aspect of the greater tubercle, 1 to 2 cm above the surgical neck.



6

Point the needle set tip at a 45-degree angle to the anterior plane and posteromedial.



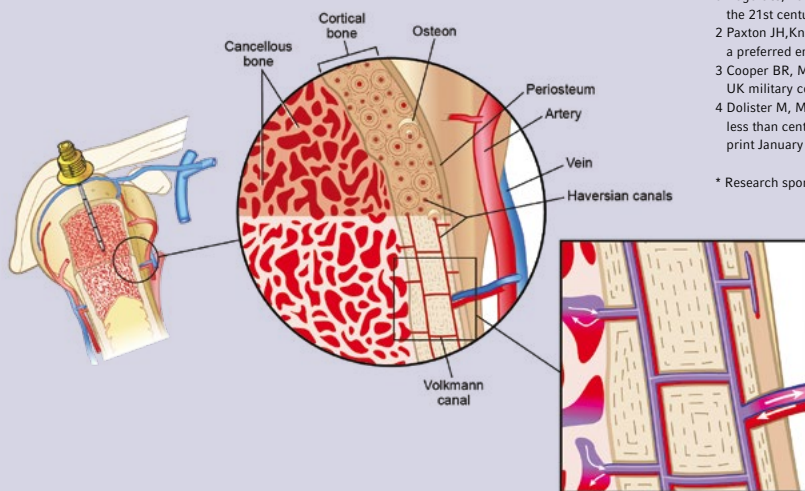
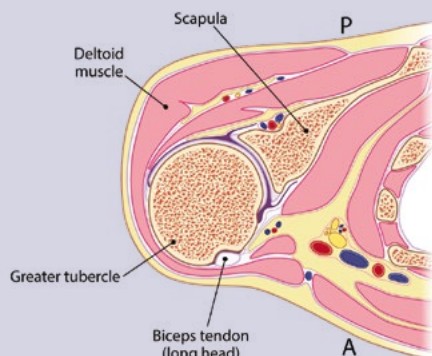
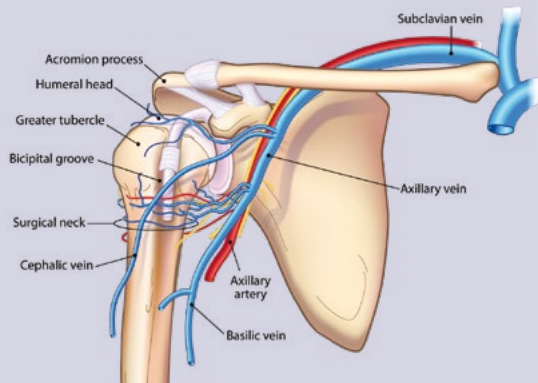


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ARROW® EZ-IO®
INTRAOSSUEOUS VASCULAR ACCESS

CLINICAL RESOURCE: PROXIMAL HUMERUS

PROXIMAL HUMERUS ANATOMY



EZ-IO® ADVANTAGES

- <1% serious complication rate³
- achieves vascular access with anaesthesia and good flow in 90 seconds⁴
- 97% first-attempt access success rate⁵
- can be placed by any qualified healthcare provider
- requires no additional equipment or resources⁶

EZ-IO® POWER DRIVER

ARROW

	REF.		QTY
	9058	EZ-IO® power driver	1

EZ-IO® NEEDLE + STABILIZER KITS

ARROW

	REF.		QTY
	9079P	45 mm needle + stabilizer	5
	9001P	25 mm needle + stabilizer	5
	9018P	15 mm needle + stabilizer	5

Each set includes a 15 G sterile EZ-IO® needle set, EZ-Stabilizer® dressing, EZ-Connect® extension set, EZ-IO® patient wristband and NeedleVISE® 1 Port Sharps Block

1 Philbeck TE, Miller LJ, Montez D, Puga T. Pain management with the use of IO. JEMS. 2010;35(9):58-69.
 2 Data on file. 2013 Vidacare Internal Studies.
 3 Rogers JJ, Fox M, Miller LJ, Philbeck TE. Safety of intraosseous vascular access in the 21st century [WoCoVA abstract 0-079]. J Vasc Access. 2012;13(2):1A-40A*
 2 Paxton JH, Knuth TE, Klausner HA. Proximal humerus intraosseous infusion: a preferred emergency venous access. J Trauma. 2009;67(3):1-7.*
 3 Cooper BR, Mahoney PF, Hodgetts TJ, Mellor A. Intra-osseous access (EZ-IO®) for resuscitation: UK military combat experience. J R Army Med Corps. 2007;153(4):314-316.
 4 Doister M, Miller S, Borron S, et al. Intraosseous vascular access is safe, effective and costs less than central venous catheters for patients in the hospital setting [published online ahead of print January 3, 2013]. J Vasc Access. doi:10.5301/jva.5000130.*

* Research sponsored by Teleflex Inc. (Vidacare® LLC)

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