

FAST¹

Intraosseous Infusion System



The **FAST1**[®] Intraosseous Infusion System is the first FDA-cleared IO system designed specifically for use in the sternum during adult and adolescent emergency intervention. When normal peripheral intravenous access fails, FAST1 helps emergency care providers—during pre-hospital response, in the hospital or on the battlefield—quickly establish vascular access and administer emergency fluids and medications safely and effectively through the bone marrow of the manubrium.

Studies show that substances infused into the sternal marrow appear in the central circulatory system in under 30 seconds—2-3 times faster than non-sternal sites.

FAST1 - SPECIFICATIONS

PRODUCT SPECIFICATIONS:

Product Number: 01-0042RTR (Box of 10)

Shelf Life: 24 months

Weight (1 packaged system): 6.1 ounces (174 grams)

Weight (1 introducer): 4.5 ounces (128 grams)

Dimensions (1 packaged system): 8.7 x 8.3 x 1.6 in (22 x 21 x 4 cm)

Dimensions (1 introducer): 1.6 in outer diameter x 6.1 in long (4 cm outer diameter x 15.5 cm long)

Temperature Range: -40°F to +140°F (-40°C to +60°C)

Infusion Tube: ≈ 14 gauge inner diameter tubing

Portal: Stainless steel, ≈ 17 gauge inner diameter portal

Insertion Time: ≤ 10 seconds

Drug Delivery Time: ≤ 30 seconds

Insertion Depth: 6mm from surface of manubrium

Risk of Over penetration: < 1 in 1,000,000

Infusion Rates: 30-80ml/min by gravity drip; 120ml/min by pressurized source; 250ml/min by syringe

Usage: Can be left in place for up to 24 hours. Sterile, one time use

PRODUCT FEATURES:

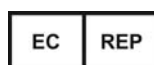
- **Introducer** inserts **Infusion Tube** into manubrium
- **Infusion Tube** is mounted on a **Stylet** inside Introducer
- **Stabilizer Needles** ensure depth control only, they do not penetrate the bone
- Relies on **operator force** only – it is not a gun, not spring-loaded, not battery dependent, nor pneumatic
- Downward force on Introducer pushes steel Infusion Tube tip through **soft tissue, into bone**
- When steel tip is just inside marrow space, Infusion Tube **automatically separates** from Introducer
- Ring of **Stabilizer Needles** ensure proper deployment only – they do not enter the bone
- **Depth control mechanism** prevents over-penetration
- Infusion Tube **flexes** with movement of patient's skin preventing dislodgements, unlike other IO products which use rigid infusion needles
- Patented **strain-relief mechanism** and plastic **Dome** provide additional protection

PRODUCT ADVANTAGES:

- **Fast:** vascular access within 10 seconds, medications to the heart in 30 seconds
- **Safe:** automatic depth control prevents over-penetration
- **Effective:** delivers medications to heart as quickly as a central venous line, with shorter access time
- **Efficient:** can be inserted during other resuscitation procedures
- **Multi-Purpose:** anything that can be given via IV (emergency resuscitation fluids/medications) can be given via FAST1
- **Versatile:** cleared for use in adolescents from 12 years of age and older
- **Sterile:** designed for single, sterile use, no cross-contamination
- **Secure:** patented, strain-relief Target Patch ensures line does not become dislodged
- **Adaptable:** can be inserted in moving ambulances, helicopters and on stretchers
- **Quick to Learn:** skill mastery within minutes
- **Excellent Skill Retention:** ability to use FAST1 not dependent upon frequent practice or use

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