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Basic Intraosseous (IO) Trainer , light skin

Item No. 1022882
Weight 0.09kg
Dimensions 8.1 x 5.7 x 4.3 cm
MPN: 4000

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SKU:

Categories: Injections and Punctures



Product Description

This Basic Intraosseous Trainer gives you a simple, low cost option for learning and practicing IO insertions. The trainer has a soft skin with thickness of 7mm, a cortical bone with thickness of 2.5mm and marrow with thickness of 23mm. The realistic feel of skin and bone materials allow for amazing

realism right up to the “drop” in resistance felt when advancing past the cortical bone. The low price point makes it possible to purchase multiple trainers for a larger class and allows for each trainee to practice many times. With proper use, you can get 100+ accesses in each model.

Why Choose the Basic Intraosseous (IO) Trainer — Light Skin (1022882) for Your Clinical Skills Lab in India?

The Basic Intraosseous (IO) Trainer — Light Skin (Item No. 1022882, MPN: 4000) is an ultra-compact, 0.09 kg tibial IO access training pad — the lowest-cost, highest-volume IO trainer in this catalogue, and the correct choice for nursing colleges, medical schools, emergency medicine programmes, paramedic training courses, and clinical skills labs in India that need to put an IO trainer in every student's hands simultaneously without the cost constraints of full-limb simulators. At 8.1 × 5.7 × 4.3 cm, it fits in a coat pocket, requires no setup, and delivers over 100 IO needle placements per pad before replacement.

Intraosseous access is an emergency vascular access technique used when IV access cannot be established rapidly — most commonly in paediatric resuscitation, cardiac arrest, and major trauma. Getting the needle through the cortical bone and into the marrow space is a tactile skill: the clinician must feel the change in resistance as the needle passes through the cortex and enters the softer marrow, then confirm placement by fluid aspiration or infusion. The 1022882 replicates this sequence with precision across three anatomically accurate material layers:

- **Skin layer:** 7 mm thick soft skin overlay — replicating the tissue feel and compression resistance of the tibial region
- **Cortical bone layer:** 2.5 mm thick — replicating the resistance and the characteristic "give" felt when the needle breaches the cortex
- **Marrow layer:** 23 mm deep — providing ample depth for correct needle seating and aspiration technique

The defining training moment — the sudden drop in resistance felt the instant the needle passes through the cortical bone into the marrow — is fully replicated, making this the tactile skill that cannot be learned from a diagram or video. With 100+ accesses per pad at this price point, labs can purchase a full class set, give every trainee their own pad, and allow repeated individual practice across a full training session — an approach that is impractical with higher-cost IO limb simulators.

A dark skin tone variant is also available separately — contact SEM Trainers for availability.

Why Buy from SEM Trainers? SEM Trainers & Systems has over 30 years of experience supplying medical simulators to 1,500+ institutions across 28 states in India. We provide pan-India delivery, on-site installation, faculty orientation, and dedicated after-sales support.

Frequently Asked Questions

Q: How many IO needle placements can each pad support? A: With correct use, each pad supports 100 or more IO access attempts before the material layers degrade below training-quality fidelity.

Q: What is the clinical skill this trainer teaches? A: Intraosseous needle insertion — specifically the correct needle angle, insertion pressure, and recognition of the cortical "give" (drop in resistance) that confirms the needle has passed through the cortical bone into the marrow space, followed by aspiration and infusion technique.

Q: Is this trainer suitable for use with a real IO needle? A: Yes. Standard IO needles (manual or drill-based) are used with this trainer. IO needles are not included.

Q: Is a dark skin tone variant available? A: Yes — contact SEM Trainers for availability and pricing of the dark skin tone variant.

Q: What makes this trainer suitable for large class training? A: The very low unit cost and compact size make it practical to purchase one pad per student, allowing simultaneous individual practice across an entire class — the most effective format for building IO insertion technique.

Q: What are the dimensions and weight? A: $8.1 \times 5.7 \times 4.3$ cm, 0.09 kg — fits in a coat pocket and requires no setup or accessories.