

Knee Aspiration & Injection Trainer with Ultrasound Capabilities

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Product code: SM03680



An anatomically accurate adult knee model for injection and aspiration of synovial fluid from the knee joint, from both the lateral and medial aspects, using palpation or ultrasound guidance. The robust sealed knee includes: knee joint, patella, patellar tendon and the suprapatellar space. Discrete muscle, skin and fat layers, provide realistic tissue and needle response, while key anatomical landmarks are realistic to palpate. This enables trainees to improve their accuracy of injection and aspiration through repeatable practise. Performing knee aspirations and injections are fundamental skills required for Internal Medical Trainees, as well as Rheumatologists, Doctors practising General Medicine and Orthopaedic Surgeons* **SKILLS GAINED**

- Injection into joint cavity
- Aspiration of synovial fluid from both the lateral and medial aspects
- Competence using ultrasound technology to perform
- systematic scanning techniques and examination of the knee joint
- Identification of anatomical landmarks using ultrasound guidance or the palpation method
- Patient positioning and management
- Recognition of joint effusion
- Ballottement

OVERVIEW

- 1,000+ stabs per module with 21 gauge needle
- Precise, palpable anatomy with bony landmarks
- Robust, sealed knee unit that holds all anatomy
- Key internal landmarks visible under ultrasound
- Compatible with all standard ultrasound machines
- Echolucent material allows aspiration and injection under ultrasound guidance or using the palpation method
- Suitable for Undergraduate and Postgraduate medical study
- Knee skin is watertight

REALISM

- Discrete muscle and skin layers provide realistic tissue and needle response
- Anatomically accurate synovial sac and palpable patella
- Realistic color and consistency of synovial fluid

VERSATILITY

- Can be used with leg supports for supine position, or without leg supports for side of bed position
- Caters for ultrasound-guided techniques as well as palpation
- Separate Fluid Bag & Stand ensure the model is easy to use and mobile
- Clear indicator on Fluid Bag to prevent overfilling
- Compatible with the "No-Trace" Marker to allow markup of the knee skin

CLEANING



- Clean off any residual ultrasound gel from the knee injection trainer
- Skin surface should be cleaned with a soft, damp cloth, using warm water and mild detergent
- Empty any remaining fluid from the knee once the procedure is complete
- Allow knee injection model to dry before storing

SAFETY

- This product is latex free
- If the model sustains damage, refer all servicing to qualified servicing personnel
- During practice injections, be sure to remove the needle at the same angle as inserted, removing at an angle can cause the knee skin to split
- We advise that you do not use simulator if the skin of the knee is torn
- Always store/dispose of needles safely in the sharps bin supplied or a suitable alternative
- While the new Synovial Fluid in this product contains a new preservative (approved for use by EU cosmetic regulations) meaning it is safe for extended skin contact, we still recommend the use of gloves while using this product

ANATOMY Key anatomical landmarks are realistic to palpate:

- Skin
- Subcutaneous fat, quadriceps tendon & patellar ligament
- Prefemoral fat pad
- Suprapatellar fat pad
- Hoffa's or Infrapatellar fat pad
- Femur
- Medial & lateral collateral ligament
- Tibia
- Patella
- Joint space & synovial recess
- Meniscus
- Muscle mass of quadriceps

CONTAINS

- Fluid Bag and Stand
- Synovial Fluid (including syringe)
- Needle Set (3 Green, 21 Gauge)
- Ultrasound Knee Module for Aspiration & Injection

WORKS WITH

- Ultrasound Knee Module for Aspiration & Injection
- Synovial Fluid (including syringe)
- Synovial Fluid (250 ml)
- Fluid Bag and Stand
- Needle Set (3 Green, 21 Gauge)