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NYSO**R**A
CONTINUING MEDICAL EDUCATION

THE MOST ADVANCED
ultrasound trainers

Introducing MINISIM© – Ultrasound Tissue Simulators; the most time efficient ultrasound trainers on the market. Developed by key opinion leaders and top workshop instructors, MINISIM© are the most anatomically accurate, tissue-like trainers to date that can be used for skills acquisition and knowledge and skills testing and certification.

M INISIM

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UPPER EXTREMITY NERVE BLOCK MODELS

MiniSim Open Breast Infraclavicular Visual Training Model

- Facilitates understanding of the anatomy of the breast and tissue layers of importance in breast surgery and local anesthetic infiltration techniques

INTERNAL LANDMARKS
Pectoralis major and minor muscles; Serratus muscles; Axillary artery Axillary vein; Cords of the brachial plexus; Clavicle; Coracoid process; Ribs 1-4

EXTERNAL LANDMARKS
Breast anatomy; Sternocleidomastoid muscle

MiniSim Combined Infraclavicular/PEC Nerve Block Training Model

- Facilitates skills acquisition to perform Infraclavicular brachial plexus and PEC blocks

INTERNAL LANDMARKS
Pectoralis major and minor muscles; Serratus muscles; Axillary artery and vein; Chords of the brachial plexus; Clavicle; Coracoid process; Ribs 1-4; Pleura and Chest Cavity

EXTERNAL LANDMARKS
Clavicle; Deltopectoral groove; Pectoralis muscle; Chest wall; Coracoid process; Shoulder; Deltoid muscle

Optional configurations: MS2CN-INF Infraclavicular with Nerve Proximity Indicator

MiniSim Interscalene Brachial Plexus Block Training Model

INTERNAL LANDMARKS
Anterior scalene muscle; Middle scalene muscle; Sternocleidomastoid muscle; Carotid artery; Internal jugular vein; Subclavian artery; Subclavian vein; Clavicle; Stellate ganglion; C2-C7; First rib; Clavicle; Brachial plexus; Superficial cervical plexus; Stellate ganglion thyroid

EXTERNAL LANDMARKS
Sternocleidomastoid muscle; Clavicle; Lateral neck; Chest wall; Thyroid notch

Optional configuration: MS2-CNINT Interscalene with Nerve Proximity Indicator

MiniSim Axillary Brachial Plexus

- Facilitates knowledge and skills acquisition to perform Axillary Block

INTERNAL LANDMARKS
Radial nerve; Ulnar nerve; Median nerve; Musculocutaneous nerves; Axillary artery; Axillary Vein; Deltoid muscle; Biceps muscle; Coracobrachialis muscle

EXTERNAL LANDMARKS
Axillary fossa; Pectoralis muscle; Trapezus muscle; latissimus dorsi muscle; Biceps Brachialis muscle; Deltoid Muscle

Optional configuration: MS2CN-ABP Axillary Brachial Plexus with Nerve Proximity indicator

MiniSim Wrist Block Training Model

- Facilitates knowledge and skills acquisition to recognize ulnar and radial arteries and perform ulnar and median nerve blocks.

INTERNAL LANDMARKS
Radius, ulnar carpal bones; Radial and ulnar arteries; Median and ulnar nerves; Palmares longus; Radial Artery; Ulnar artery; Deep and supperficial muscles of the forearm

EXTERNAL LANDMARKS
Ulnar head; Radius; Ulna; Palmar crease; Tendons of wrist flexors; Thenar ligament; Veins; Hypothenar ligament

Optional configuration: MS2CN-MED Wrist with Nerve Proximity indicator

MiniSim Suprascapular Nerve Block Training Model

- Facilitates knowledge and skills acquisition to perform Suprascapular nerve block for analgesia of the shoulder without phrenic nerve paralysis

INTERNAL LANDMARKS
Clavicle; Scapula; Humerus; Suprascapular nerves; Infraspinatus muscle; Supraspinatus muscle; Suprascapular artery; Trapezius muscle; Circumflex artery

EXTERNAL LANDMARKS
Scapula; Clavicle

Optional configuration: MS2CN-SSC Suprascapular with Nerve Proximity indicator

LOWER EXTREMITY NERVE BLOCK MODELS

MiniSim Femoral and Fascia Iliaca Nerve Block Training Model

- Facilitates knowledge and skills acquisition to perform femoral nerve block and fascia iliaca block

INTERNAL LANDMARKS
Femoral, obturator, lateral cutaneous nerves; Saphenous nerves; Facial ilica; Facia lata; Iliopsoas muscle; Pectineus muscle; Sartorius muscle; Adductor muscles; Femoral artery; Femoral vein

EXTERNAL LANDMARKS
Inguinal crease; Anterior superior iliac spine; Proximal thigh; Hips Pubic tubercle; Inguinal Ligament; Femoral Crease

Optional configurations: MS2CN-FEM MiniSim Femoral with Nerve Proximity Indicator

MiniSim Popliteal and IPAC Nerve Block Training Model

- Facilitates knowledge and skills acquisition to perform popliteal sciatic and IPAC blocks

INTERNAL LANDMARKS
Popliteal artery and vein; Common peroneal nerve; Tibial nerve; Semitendinosus muscle; Semimembranosus muscle; Biceps femoris muscle; Distal part of femur

EXTERNAL LANDMARKS
Popliteal fossa; Tendon of Biceps Femoris Muscle; Tendon of Semimembranosus Muscle; Popliteal Fossa; Ppopliteal Crease; Popliteal triangle

Optional configurations: MS2CN-POP MiniSim Popliteal with Nerve Proximity Indicator

MiniSim Adductor/Saphenous Combined Nerve Block Training Model

- Facilitates knowledge and skills acquisition to perform femoral triangle and adductor canal block for analgesia of the knee

INTERNAL LANDMARKS
Sartorius muscle; Vastus medialis muscle; Adductors femur; Femoral artery; Femoral vein; Saphenous nerve; Relevant fascial sheats

EXTERNAL LANDMARKS
Mid and distal thigh; Knee; Quadriceps Femoris muscle; Sartorius Muscle

Optional configurations: MS2CN-ADD Adductor/Saphenous with Nerve Proximity Interface

MiniSim Sciatic Transgluteal Training Model

INTERNAL LANDMARKS
Great trochanter; Ischial tuberosity; Sciatic nerve; Gluteus maximus

EXTERNAL LANDMARKS
Gluteus maximus; Gluteal crease; Femur Trochanter

Optional configurations: MS2CN-STG Sciatica Transgluteal

MiniSim Ankle Block Training Model

INTERNAL LANDMARKS
Tibial nerve; Peroneal nerves (superficial and deep); Sural nerve; Saphenous nerve; Posterior and anterior tibial artery and vein; Tibia Fibula; Medial malleolus

EXTERNAL LANDMARKS
Tibia; Lateral malleolus; Medial malleolus; Side of the foot; Dorsus of the foot

Optional configurations: MS2CN-ANK Ankle with Nerve Proximity Indicator

VASCULAR ACCESS
MiniSim Vascular Access IJ Training Model

INTERNAL LANDMARKS
Sternocleidomastoid muscles; Carotid artery; Internal jugular vein; Subclavian artery; Clavicle; First rib; Thiroid Gland; Pleura

EXTERNAL LANDMARKS
Sternocleidomastoid muscles; Clavicle; Cricoid cartilage; Supraclavicular fossa; Neck; Mandible

TORSO

MiniSim Paravertebal (PVT) and Errectores Spinae Blocks Training Model

- Facilitates acquisition of essential skills of using ultrasound
- Allows needle-target practice in plane and out of plane.
- Absolute must for anyone wanting to start utilizing point of care ultrasound

INTERNAL LANDMARKS
T3-T8; Ribs 3-8; Paravertebral space; Pleura; Spinous processes; Vertebrae T3 to T8

EXTERNAL LANDMARKS
Left and right inferior angle of scapula; Vertebra prominens; Spinous processes; Paravertebral muscles

MiniSim Transverse Abdominis Plane Training Model

- Facilitates acquisition of essential skills of using ultrasound
- Allows needle-target practice in plane and out of plane
- Absolute must for anyone wanting to start utilizing point of care ultrasound

INTERNAL LANDMARKS
Rectus abdominis; Transverse abdominis; Internal oblique; External oblique; Pectineus; Essential Fascial Sheaths
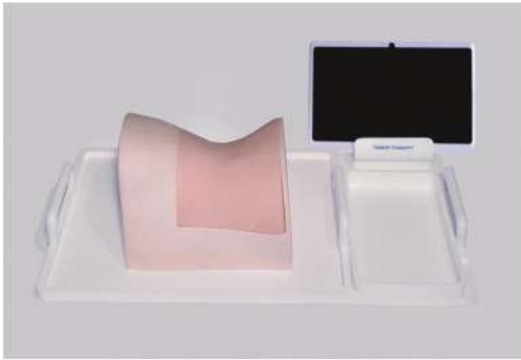
EXTERNAL LANDMARKS
Umbilicus; Rectus abdominis; Abdominal wall

The point of care ultrasound is rapidly becoming the standard of care worldwide. However, the training on the safe and efficacious use of ultrasound is inadequate. The training is ideally done with simulation, rather then in actual patients. MedXpress.Pro introduces MINISIM©, its proprietary line of hi-fidelity ultrasound trainers.

*Optional configurations: provides the same features as main product + built in electronic sensors to interface with the needle for an audible and visual indication when the user has advanced the needle within the distance of the targeted nerve to provide a successful nerve block.

TORSO *(cont.)*

MiniSim TAP and Quadratus Lumborum

- Facilitates learning essential anatomy for TAP and QL blocks
- Facilitates training on injection techniques for TAP and QL

INTERNAL LANDMARKS
Transverse abdominis muscles; Internal and external oblique muscles; Quadratus lumborum muscles; Latissimus dorsi muscles

EXTERNAL LANDMARKS
Umbilicus; Rectus abdominous

MiniSim Epidural Training Model

- Facilitates learning of anatomy recognition, identification of interspaces and placement of the needle in the epidural space using ultrasound
- Options include a camera for visual confirmation of the needle placement

INTERNAL LANDMARKS
L1-L5; Sacrum; Epidural space; Spinal processes; Laminae; Articulate joints; Intervertebral space; Dura and Ligamentum Flavum

EXTERNAL LANDMARKS
Iliac crest

ESSENTIAL
MiniSim Essential Trainer

- Facilitates acquisition of essential skills of using ultrasound
- Allows needle-target practice in plane and out of plane
- Absolute must for anyone wanting to start utilizing point of care ultrasound

INTERNAL LANDMARKS
Artery; Vein; Nerve

EXTERNAL LANDMARKS
Not applicable

Optional configurations: MS2CN-TRN Essesntial Trainer with Nerve Proximity Indicator

VALKYRIE TRAINING SOLUTIONS

Valkyrie has a proven track record in the creation and provision of simulator based training solutions.

Our holistic and inclusive approach to system design ensure that your training is not only realistic but is optimized to meet your specific performance outcomes.

Valkyrie offers a comprehensive range of unique simulation systems for developing essential ultrasound skills. Our solutions are second to non and are renowned for their accuracy and durability.

DESIGN

Each MiniSim has been designed to optimize the development of specific knowledge and skills using landmark and ultrasound guided procedural techniques. All models contain internal and external landmarks necessary to practice ultrasound visualization and placement of needle and catheter necessary to accomplish peripheral nerve blocks or vascular access.

FOOTPRINT

The system footprint is small to facilitate the utilization of multiple units simultaneously, making it ideal for workshops and simulation labs. Small footprint and standardzed packing size allows for easy storage and transport.

EXPERT INPUT

Each MiniSim has been reviewed by leaders in the field f point of care ultrasound to ensure that all the relevant external and internal landmarks for each block are included and accurate.

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A D D :10058台北市八德路一段82巷9弄28號
T E L : (02)2321-9465/ FAX:(02)2396-0521
E-mai：youngtan@ms32.hinet.net
http://www.youngtah.com.tw/