

# Venous, arterial and haemodialysis access arm - SMASH

PRODUCT NUMBER: 1166



## DESCRIPTION:

S.M.A.S.H. Advanced Patient IV Training arm was first introduced in 1986 for training, teaching and practice of technique. The latest improvement to this "world class" standard offers realism in a sleek design.

A micropump mounted within the simulator's shoulder delivers automatically generated arterial pulses at the radial and brachial sites and controls arterial blood flow by allowing variable heart rate and pulse strength. Interchangeable arterial and venous inserts within the forearm allow creation of arteriovenous (AV) fistulas and placement of AV grafts, while a simulated healed fistula insert provides a platform on which hemodialysis exercises can be performed. An additional multi-layer insert in the bicep area can be used for incision and suture training

## MORE THAN SIMULATORS S.L.

Calle de la Hoya, 4 2º  
44570 Calanda (Teruel)  
Spain

## CONTACTO

sales@morethansimulators.com  
(+34) 936 06 77 05 / (+351) 21 123 85 18  
<https://morethansimulators.com>



exercises.

## SKILLS:

- IV training exercises
- Venipuncture training
- Blood draw exercises
- AV Anastomosis
- Placement of AV grafts
- Subcutaneous injections
- Intramuscular injections
- Infusion exercises
- Incision practice and suturing exercises
- Hemodialysis exercises with a healed fistula
- Palpation of radial pulses
- Detection of collapsed or bulging vessels
- Professional-to-patient communication

## CHARACTERISTICS:

### VERSATILITY:

- Subcutaneous injection sites on the volar forearm and lateral upper arm
- IntraMuscular injection site on the upper arm
- Suture and incision sites on both the upper arm and forearm
- Hemodialysis site on the forearm
- Arterial and Venous insert for IV training, venipuncture practice, blood draw exercises, AV anastomosis, and placement of AV grafts. This multi-layer surgical insert includes the skin, subcutaneous tissue, muscle, radial artery, and radial vein
- AV fistula insert that simulates a healed fistula for hemodialysis exercises.
- Multi-layer bicep insert that includes the skin, subcutaneous tissue, and muscle and allows incision practice and suturing exercises
- Adjustable heart rate and pulse strength simulating a heart rate from 10 BPM to 150BPM
- Cephalic (antecubital), Basilic, Radial, and Ulnar veins as well as the radial and brachial arteries for infusion and blood draw training
- Varying vessel palpability to simulate collapsed or bulging vessels

### ANATOMY:

- Durable skin that can be pierced in excess of 200 times with a 20 or 22 gauge needle
- Realistic tactile feedback for both surgical and arterial & venous stick exercises
- Arterial system including the radial and brachial arteries

### MORE THAN SIMULATORS S.L.

Calle de la Hoya, 4 2º  
44570 Calanda (Teruel)  
Spain

### CONTACTO

sales@morethansimulators.com  
(+34) 936 06 77 05 / (+351) 21 123 85 18  
<https://morethansimulators.com>



- Rotating arm allowing dorsal and volar access along the length of the IV training arm.
- New proprietary materials replicate of skin, subcutaneous, and muscle layers at all surgical sites.
- Upgraded inserts, skins, and vessels for improved tactile feedback

**USER-FRIENDLY:**

- Micropump embedded within the shoulder generates variable heart rates and pulse strength. Quiet and compact, thereby improving portability of the unit.
- Easy to replace plug-and-play inserts to allow quick change-out between procedures

**SAFETY:**

- Latex-free vessels with improved access for hassle-free replacement
- Easy to clean, service and maintain

**INCLUDE:**

- 1 Advanced IV training arm
- 2 Bicep Incision and suture insert
- 2 Arterial and venous insert
- 2 Fistula insert
- 1 Squeeze bulb with 2.5ft line
- 1 Smoked Lucite Base with stand for blood bag
- 1 Dispensing bag with 2 outlets
- 1 Vein filling kit
- 1 Stopper
- 1 Click valve
- 1 Synthetic blood concentrate
- 1 Replacement Vein Set (10ft Non-latex tubing, 4 Vein quick connector and 10 Vein O-ring)
- 1 Talcum powder
- 1 Funnel
- 2 Hex L-key
- 1 Power supply AC adapter
- 1 Carrying bag
- 1 Instruction manual

**MORE THAN SIMULATORS S.L.**

Calle de la Hoya, 4 2º  
44570 Calanda (Teruel)  
Spain

**CONTACTO**

sales@morethansimulators.com  
(+34) 936 06 77 05 / (+351) 21 123 85 18  
<https://morethansimulators.com>