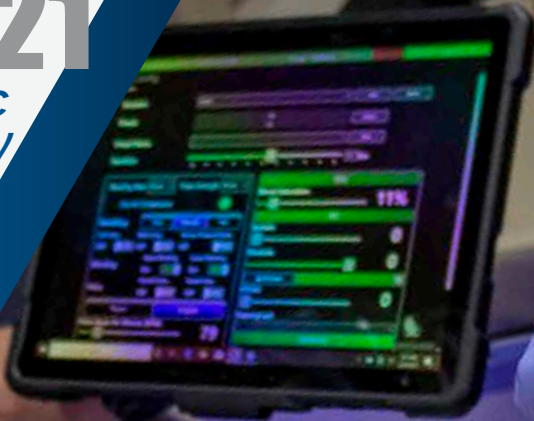




**2021**  
*Public  
Safety*



# SIMULATIONS

*NAR Simulation  
Product Guide*



**NORTH AMERICAN RESCUE®**

Simulation



# TOMManikin™

BASIC | BLAST | GSW | WATER | CONFINED SPACE | BURN | CBRNE | FEMALE

**Rugged, state-of-the-art training simulators, NARS TOMManikin Series provides the comprehensive solution for enhanced training in Tactical Combat Casualty Care (TCCC) from Point of Injury to transfer of higher care!**

- **All-in-one, hyper-realistic trauma simulation solution** enabling instructors to build **multiple realistic traumatic casualty scenarios** with **reactive patients** Ideal for use in classroom settings, trauma lanes and field training scenarios
- **Multiple, interchangeable extremities** present a variety of wounding patterns to provide **full mission profiles** in **combat scenarios** and **disaster/mass casualty re-creations**
- **Solid metal bones** and **joints** constructed of **welded steel** for **unparalleled durability** and **quick exchange leg joints** for **flexibility** in the most **austere environments**
- **Proprietary silicone skins** available in **light, medium** or **dark skin tones** that **will not break down** during **prolonged UV exposure** or **extreme temperatures**
- **180 lb** manikin provides extremities capable of **withstanding up to 6,000 lb** of pressure - Ideal for **building collapse/entrapment training scenarios** beyond conventional exercises
- **Ruggedized remote controls** provide **simultaneous long-range communications** with **multiple NARS devices** all from a **single device!**

## SPECIAL FEATURES

### Interactive Animatronics:

- Lifelike Breathing Mechanisms
- Functional Anatomical Airway
- Variable Radial Pulse Rates & Pressure
- High Fidelity Bleeding from Multiple Wounds
- Customizable, Multi-language Voice Tracks
- Rugged Softech® Skin in a variety of skin tones

### Wireless Controls:

- MILSPEC Wireless Remote Instructor Tablet & Software
- Stand alone point-to-point communications with .5 mile line of site range

### Flexible Wound Configurations:

**Basic | Blast | GSW | Water | Confined Space | Burn | CBRNE**  
Custom configurations including Female Anatomy on request

## Clinical Interventions available on ALL TOMManikins:

### MASSIVE HEMORRHAGE:

- **Tourniquet Application** (proximal, junctional & abdominal)
- **Active Bleeding Control** by **Direct Pressure** on Pressure Points
- **Wound Packing**

### ADVANCED AIRWAY:

- **Nasopharyngeal/Oral/Supraglottic Airway** Insertion
- **Endotracheal Intubation**
- **Surgical Airway and Tissue Dissection** with Realistic Bleeding

### RESPIRATIONS:

- **Chest Seal Application**
- **Bilateral Needle Decompression**
- **Chest Tube Capable**

### CIRCULATION:

- **IO** (sternal & humeral)
- **Antecubital IV Access** on uninjured upper limbs



## Every TOMManikin™ includes:

### ACCESSORY KIT

- 2 x NiMH rechargeable batteries (5-amp & 10-amp) with independent chargers
- 1 x T-handle wrench
- Replacement connectors
- 5-pack of surgical airway neck skins (35 op sites)
- 8 oz concentrated sim blood
- NARS mil spec-rated tablet

- 2 x 3-wheeled transport and storage carriers designed for TOMM
- 1 x NAR IFAK
- **VELCRO UNIFORM**
  - Digital pattern
  - Sand color scheme
  - Blouse features Velcro sleeves and lateral seams
  - Trousers feature Velcro inseam and lateral seams
  - Button fly



## MILSPEC INSTRUCTOR TABLET with Scenario Preset Builder Software

### Features:

- Features proprietary communication link that requires NO Wi-Fi, Bluetooth, or LAN connections
- Simultaneous long-range communications with numerous NARS devices
- NO interference risk with telemetry, avionics, or weapon systems

### MILSPEC Rated:

- **Operating:** -20 to 60°C (-4 to 140°F) MIL-STD-810G, Method 501.5 Procedure II
- **Storage:** -40 to 70°C (-40 to 158°F) MIL-STD-810G, Method 501.5/502.5 Procedure I
- **Water:** IP65, IEC 60529
- **Drop/Shock:** 26 drops from 1.2 m (4 ft) MIL-STD-810G, Method 516.6 Procedure IV
- **Vibration:** MIL-STD-810G, Method 514.6 Procedures I, II
- **Sand/Dust:** IP65, IEC 60529
- **Humidity:** 0 - 95% (non-condensing) MIL-STD-810G, Method 507.5
- **Altitude:** 4572 m (15,000 ft) MIL-STD-810G, Method 500.5 Procedure I



**NORTH AMERICAN RESCUE®**  
Simulation

REVO61421

## TOMManikin Interventions

- **Tourniquet Application** (proximal, junctional, and abdominal tourniquets)
- **Active bleeding** controllable by **direct pressure** on pressure points
- **Wound packing** with realistic bleeding control
- **Nasopharyngeal and oral airways, supraglottic airway** insertion and **endotracheal intubation**
- **Surgical airway** with realistic bleeding and tissue dissection 35 operative sites included
- Remote controlled **breathing rates:** Slow, Normal, and Fast
- **Bilateral Needle Decompression** at either 2nd/3rd intercostal (mid-clavicular), or 5th/6th intercostal (mid-axillary) locations
- Realistic **chest seal application** & adhesion
- **Chest Tube** capable (bilateral)
- **Radial pulses** in uninjured upper extremities & bilateral carotid pulses
- **Variable pulse rate & pressure** (Normal, bounding, thready)
- **IO** (sternal & humeral) and **antecubital IV access** on uninjured upper limbs



All Manikins include a MILSPEC-rated instructor tablet

## BASIC TOMManikin™

### BASIC Wounding Patterns:

- 1. Complete Arm Amputation above the elbow** with Massive bleeding and dramatic soft tissue damage, exposed hard bone and discernible tissue layers Responds to tourniquet application or brachial artery direct pressure application
- 2. Partial Leg Amputation below the knee** with Massive soft tissue trauma with exposed hard bone, muscle and tissue layers



#### BASIC TOMMANIKIN

ITEM #	93-0035
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## BLAST TOMManikin™

### BLAST Wounding Patterns:

- 1. Open Jaw Fracture Head Skin** with massive maxillofacial bone and soft tissue injuries, actively bleeds. Supports OP/NP/ET/Surgical airways
- 2. Packable Abdominal Evisceration** with intricate handcrafted attention to anatomical detail with visible tissue layers, and 10 in. of eviscerated bowel with peripheral ecchymosis surrounding large open wound. Massive bleeding with "clampable" vessel
- 3. Shrapnel Wound Arm** with active bleeding, multiple soft tissue wounds, responds to tourniquet application
- 4. Full Amputation Leg** with massive bleeding, extensive soft tissue damage, exposed hard bone, visible tissue layers. Responds to direct junctional pressure and tourniquet application

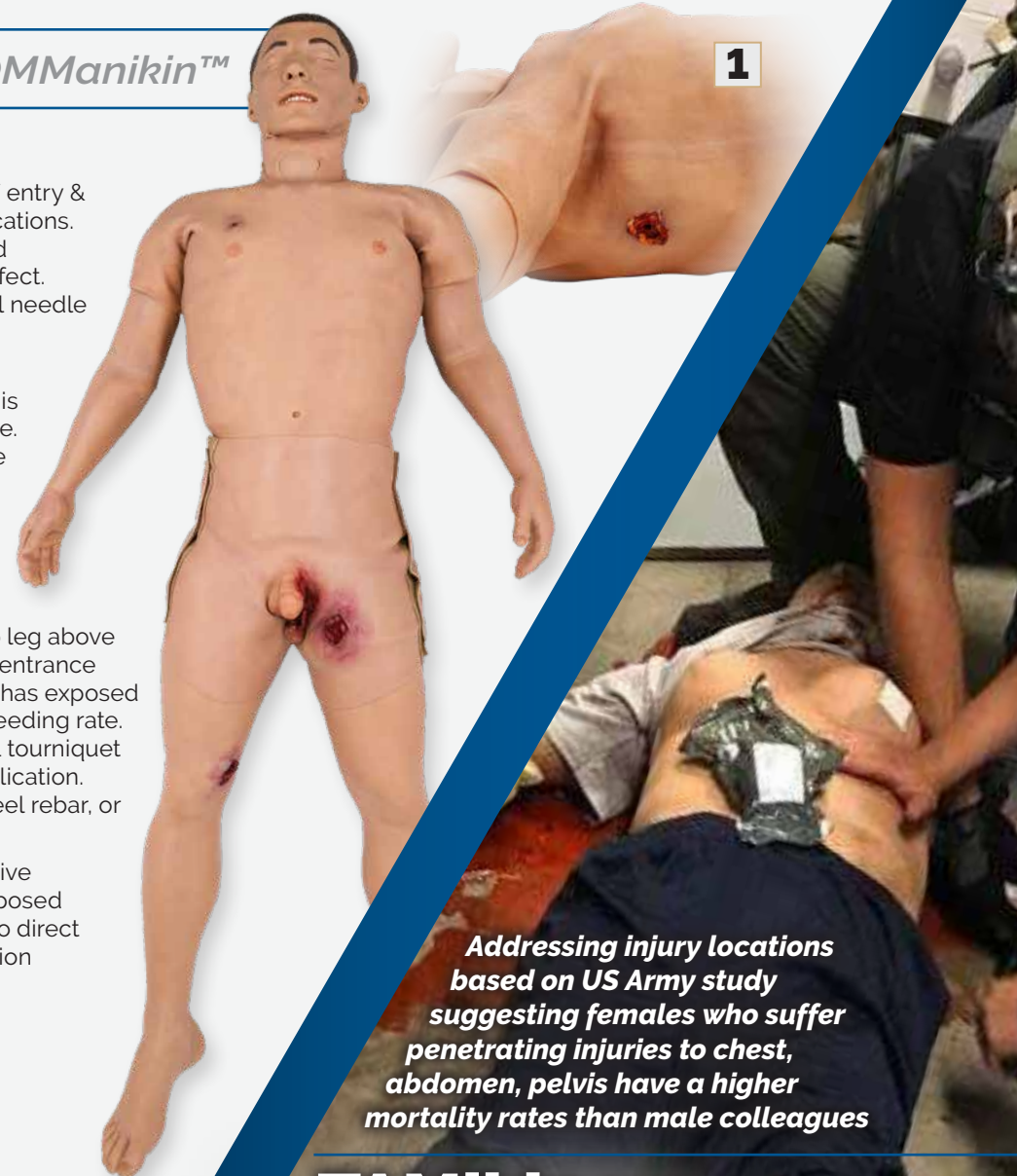
#### BLAST TOMMANIKIN

ITEM #	93-0036
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## GSW (Gun Shot Wound) TOMManikin™

### GSW Wounding Patterns:

- 1. Sucking Chest Wound** with anterior GSW entry & posterior exit. Actively bleeds from both locations. Anterior wound mixes with air from onboard compressor to create bubbling bleeding effect. Supports chest seal application and pleural needle decompression
- 2. GSW to Groin** with GSW anterior entry/posterior exit with soft tissue trauma to penis and avulsed scrotum with prolapsed testicle. Wounds present with peripheral wound site ecchymosis, exposed sub-q fat layer and muscle striation. Entry wound is packable and responds to both peripheral and junctional tourniquet application and femoral pressure point application
- 3. GSW Leg** with through & through GSW to leg above the knee. Entry wound presents with small entrance hole with circular powder burn. Exit wound has exposed fat and wound site ecchymosis. Variable bleeding rate. Responds to both peripheral and junctional tourniquet application and femoral pressure point application. Can be used as an impaled object using steel rebar, or wooden stake
- 4. Full Amputation Leg (Option)\*** with massive bleeding, extensive soft tissue damage, exposed hard bone, visible tissue layers. Responds to direct junctional pressure and tourniquet application



Addressing injury locations based on US Army study suggesting females who suffer penetrating injuries to chest, abdomen, pelvis have a higher mortality rates than male colleagues

## TAMikin GSW

Female version of TOMManikin GSW, with anatomically correct female features and voice

- Injuries located in sensitive areas such as under breast & pubic area as well as the leg
- Parallels GSW TOMManikin's capabilities & wounding patterns



#### GSW TOMMANIKIN

OPTION	ITEM #
Basic	93-0040
with Full Amputation	93-0369
TAMikin* (Female)	93-0039

# WATER TOMManikin™

## Wounding Patterns:

**Partial Leg Amputation below the knee** with massive soft tissue trauma and exposed hard bone, muscle and tissue layers.

## Options:

**Sucking Chest Wound** with anterior GSW entry & posterior exit. Actively bleeds from both locations. Anterior wound mixes with air from onboard compressor to create bubbling bleeding effect. Supports chest seal application and pleural needle decompression

**-or-**

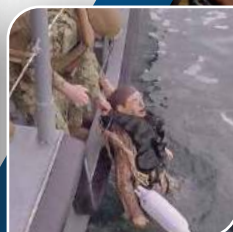
**Packable Abdominal Evisceration** with intricate handcrafted attention to anatomical detail with visible tissue layers, and 10 in. of eviscerated bowel with peripheral ecchymosis surrounding large open wound. Massive bleeding with "clampable" vessel

**Closed Fracture Arm** with ecchymosis and palpable crepitus.

Designed to be submerged up to 33 feet in either fresh or salt water

### WATER TOMMANIKIN

OPTION	ITEM #
Basic (Sucking Chest Wound)	93-0041
ABD Evisceration   Closed Arm Fracture	93-0108



# CONFINED SPACE TOMManikin™

## Wounding Patterns:

**Sucking Chest Wound** with anterior GSW entry & posterior exit. Actively bleeds from both locations. Anterior wound mixes with air from onboard compressor to create bubbling bleeding effect. Supports chest seal application and pleural needle decompression

**Partial Leg Amputation below the knee** with massive soft tissue trauma and exposed hard bone, muscle and tissue layers.

**Shrapnel Wound Arm** with active bleeding, multiple soft tissue wounds, responds to tourniquet application



### CONFINED SPACE TOMMANIKIN

ITEM #
93-0110

# BURN TOMManikin™

## Wounding Patterns:

**Burn Face\*** with 1st, 2nd, 3rd-degree burns to face that supports all airway adjuncts. *Head skin is interchangeable with other TOMManikins*

**Burn Arms** with 1st, 2nd, 3rd-degree circumferential burns to both arms

### BURN TOMMANIKIN

ITEM #
93-0037

**\*Head skin is interchangeable with other TOMManikins**



# CBRNE TOMManikin™

## Wounding Patterns:

**Burn Face\*** with 1st, 2nd, 3rd-degree burns to face that supports all airway adjuncts. *Head skin is interchangeable with other TOMManikins*

**Sucking Chest Wound** with anterior GSW entry & posterior exit. Actively bleeds from both locations. Anterior wound mixes with air from onboard compressor to create bubbling bleeding effect. Supports chest seal application and pleural needle decompression

**Abdominal Evisceration (Wearable Moulage)** with intricate handcrafted attention to anatomical detail with visible tissue layers, and 10 in. of eviscerated bowel with peripheral ecchymosis surrounding large open wound. Massive bleeding with 'clampable' vessel.

**GSW to Groin** with GSW anterior entry/posterior exit with soft tissue trauma to penis and avulsed scrotum with prolapsed testicle. Wounds present with peripheral wound site ecchymosis, exposed sub-q fat layer and muscle striation. Entry wound is packable and responds to both peripheral and junctional tourniquet application and femoral pressure point application



CBRNE TOMMANIKIN
ITEM #
93-0038

# K9 Medical Manikin

## K9 Features:

- Redesigned all-metal frame
- Expanded joint range of motion
- CPR chest
- 5 interchangeable limbs with various injuries: Complete Amputation, Open Fracture, Soft Tissue Injuries, Road Rash/Burns, & Gunshot Wound
- Improved airway
- Barks, Bleeds & Breathes
- 1L onboard blood capacity
- Wireless operation via NARS tablet



K9 MANIKIN
ITEM #
93-0027

# Deluxe ALS KIT

Designed to simulate various vital signs for advanced life support monitoring and simulation

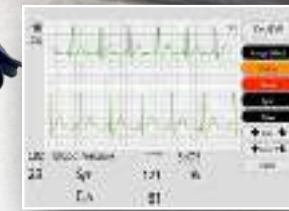
## Features:

- Simulated NIBP cuff, SpO<sub>2</sub> finger probe, and ETCO<sub>2</sub> inline detector with waveform and digital value
- Simulated cardiac monitor screen with Lead II tracing rhythm
- ETCO<sub>2</sub> & SpO<sub>2</sub> waveforms, NIBP. Fully functional monitor screen for defibrillation/AED mode, alarms, and rhythm synchronization
- All student-visible values controlled via NARS Instructor tablet (included)
- NARS software includes exportable student evaluation performance documentation

## DELUXE ALS KIT

ITEM #

93-0071



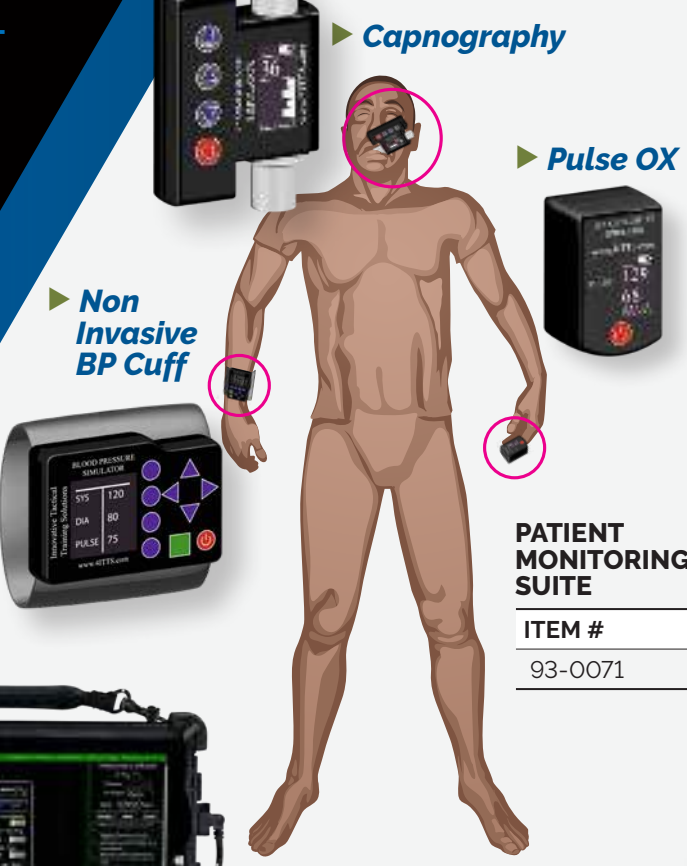
## PATIENT MONITORING SUITE

with NARS Instructor Tablet

NARS Patient Monitoring Suite of simulators can be used in all phases of patient care for any human (role-player), or ANY patient simulator

## Features include:

- **NARS Capnograph Simulator**  
Designed to be used as a mainstream carbon dioxide monitor that can be connected in-line with a mask or tube. Simulator displays include carbon dioxide partial pressure, respiratory rate and CO<sub>2</sub> waveform.
- **NARS Pulse Oximeter Simulator**  
Utilizes the widely used finger-style probe for monitoring blood oxygen saturation. Simulator display includes Heart Rate, SpO<sub>2</sub> and SpO<sub>2</sub> waveforms.
- **NARS NIBP Monitor Simulator**  
Designed to replicate a portable NIBP monitor. This simulator allows medical responders to gather vital signs without instructor intervention. Onboard controls allow various modes of operation. Display includes systolic & diastolic pressures (mmHg) and heart rate.



▶ Capnography

▶ Pulse OX

▶ Non Invasive BP Cuff

PATIENT MONITORING SUITE

ITEM #

93-0071



◀ Includes NARS Instructor Tablet



Disconnect your student's dependency on instructor "over-the-shoulder" input

## MOBILE FEEDBACK SYSTEM

\*requires AC power

Standalone mobile platform to capture simulation events\*

## Features include:

- Pelican 1650 case with custom-cut foam to protect all system components
- 2 x Cameras
- 2 x 72 in. Telescopic Tripods with camera mounts
- 3 x Terabyte stand-alone recorder
- 1 x NARS mil-spec rated Instructor Tablet for wireless communications
- Proprietary software with instructor bookmark/replay feature, simulator status capture, trainee biometric capture, trainee evaluation software (exportable reports)
- 2 x 25 ft. CAT-6 retractable cord reels
- Trainee-worn stress monitor
- Features streaming participant heart and respiratory rate



Wearable Trainee Stress Monitor



MOBILE FEEDBACK SYSTEM

ITEM #

93-0945



H-60



CV-22



MH-6

## CASEVAC Simulators HELOS

## Features:

- Available in H60, CV22 & MH6 configurations
- Reusable, all-weather systems
- Includes loudspeakers for inflight noise, smoke generator to replicate inflight emergencies, wind machine to simulate rotor wash
- DOT-rated for over-the-road towing
- Platform-specific options include HD cameras (with playback system), FRIES bar, litter stanchions, blackout window drapes, ICS Kit (with headsets and cords)



## NEW H-60

Cockpit with Realistic Pilot/Co-Pilot Seats and Graphics Panel ▶





## TCCC SKILLS SYSTEM

All Combatant

- All the necessary tactical medical and casualty extraction/evacuation equipment needed when teaching the TCCC – All Combatant Skills required tasks for completing the Tactical Combat Casualty Care (TCCC) course
- A turnkey solution for training centers and educational institutions designed to equip up to twenty-five (25) students
- Complete system consists of three self-contained Hard Storage Case modules: Skill Stations | IFAKS | Evacuation

### SPECIFICATIONS

Hard Storage Case:  
 External – L 32.5 in. x W 21 in. x D 13 in.  
 Internal – L 29 in. x W 18 in. x D 10 in.  
 Weights: TCCC Skills Set: 55 lb  
 TCCC IFAK Skills Set: 70 lb  
 TCCC Evacuation Skills Set: 50 lb

### TCCC SKILLS SYSTEM

UNIT	ITEM #
3 Modules	80-0970

## TCCC SKILLS SET

All Combatant

- Train up to twenty-five (25) students at individual skill stations in the treatment of: *extremity hemorrhage, wound packing, chest seal application, needle chest decompression, basic airway adjuncts, splinting, hypothermia prevention & management, and eye injuries*
- Self-contained, wheeled, rigid case with internal dividers to keep the equipment organized and easy to inventory

### SPECIFICATIONS

External Case –  
 L 32.5 in. x W 21 in. x D 13 in.  
 Internal Case –  
 L 29 in. x W 18 in. x D 10 in.  
 Weight: 55 lb

### TCCC SKILLS SET MODULE

MODULE	ITEM #
TCCC Skills Set	80-0968



### TCCC SKILLS SET MODULE:



## All Combatant TCCC IFAK SKILLS SET

### TCCC IFAK SKILL SET MODULE:

- Twenty-five (25) pre-packed Training IFAKs for use during trauma lanes or training scenarios
- IFAKs come packaged in a self contained wheeled hard case that allows for easy transport and storage



QTY 25 TCCC IFAK Skills Kit

Kit contents below ▼

### SPECIFICATIONS

External Case –  
 L 32.5 in. x W 21 in. x D 13 in.  
 Internal Case –  
 L 29 in. x W 18 in. x D 10 in.  
 Weight: 70 lb

### TCCC IFAK SKILLS SET MODULE

MODULE	ITEM #
TCCC IFAK Skills Set	80-0969

## TCCC IFAK SKILLS KIT

All Combatant

### SPECIFICATIONS

H 7 in. x W 4.5 in. x D 2.75 in.  
 Weight: 2 lb 8 oz

### TCCC IFAK SKILLS KIT

OPTION	ITEM #
TCCC IFAK Skills Kit	85-1958
TCCC IFAK ReSupply*	80-1028

### TCCC IFAK SKILLS KIT:

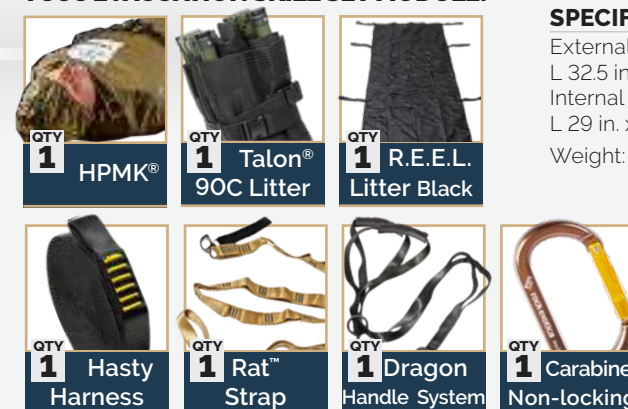


\* TCCC IFAK ReSupply Kit contains all components of the IFAK SKILLS Kit, excluding the Nylon Bag

## TCCC EVACUATION SKILLS SET

- Various high threat extraction devices and casualty evacuation systems to train students in different options to move casualties during the all three TCCC Phases of Care
- Packaged in a self-contained, wheeled, rigid case that allows for easy transport and storage

### TCCC EVACUATION SKILL SET MODULE:



### SPECIFICATIONS

External Case –  
 L 32.5 in. x W 21 in. x D 13 in.  
 Internal Case –  
 L 29 in. x W 18 in. x D 10 in.  
 Weight: 50 lb

### TCCC EVACUATION SKILLS SET MODULE

MODULE	ITEM #
TCCC Evacuation Skills Set	80-0971



# TOMManikin™

## INDIVIDUAL TOMMANIKIN COMPONENTS | ITEM NUMBERS

### TOMMANIKIN

93-0035	Basic TOMMANIKIN
93-0040	GSW TOMMANIKIN
93-0036	Blast TOMMANIKIN
93-0037	Burn TOMMANIKIN
93-0039	Female TOMMANIKIN
93-0041	Water TOMMANIKIN Basic
93-0108	Water TOMMANIKIN
93-0038	CBRN TOMMANIKIN
93-0110	Confined Space TOMMANIKIN

### TOMMANIKIN Limbs & Skins

93-0148	Uninjured Chest Skin
93-0149	GSW Chest Skin
93-0150	Evisceration Chest Skin
93-0151	Pelvic Pants
93-0081	TOMM GSW Groin Skin
93-0082	TOMM uninjured pelvic shorts
93-0152	Uninjured arm (Rt)
93-0083	Complete Arm Amp (Rt)
93-0084	Partial Arm Amp (Rt)
93-0085	Shrapnel Arm (Rt)
93-0086	Burn Arm (R)
93-0087	Closed Fracture arm (R)
93-0088	Uninjured arm (Lt) 93-0189
93-0089	Complete Arm Amp (Lt)
93-0090	Partial Arm Amp (Lt)
93-0091	Shrapnel Arm (Lt)
93-0092	Burn Arm (L)
93-0093	Closed Fracture Arm (Lt)
93-0094	Right Leg uninjured
93-0095	Complete Leg Amp (Rt)
93-0096	Partial Amp Leg (Rt)

### Wearable Wounds for TOMM

93-0203	Thigh laceration
93-0204	GSW through hand (Rt)
93-0205	Impaled object
93-0208	Broken jaw with laceration
93-0210	Compound fracture
93-0212	GSW leg
93-0215	Neck wound
93-0223	GSW through hand (Lt)
93-0229	Multiple GSW abdomen
93-0080	Abdominal evisceration (packable)
93-0234	Shrapnel wound axillary (Rt)
93-0235	GSW bicep
93-0236	GSW clavicle (Rt)

### TOMMANIKIN Adhesive Wounds (Reusable)

93-0187	Complete Sticky Wound Kit
93-0188	GSW Sticky Wound Kit
93-0189	GS Entry Wound; Small
93-0190	GS Entry Wound; Large
93-0191	GS Exit Wound; Medium
93-0192	GS Exit Wound; Large
93-0193	Laceration Stick Wound Kit
93-0194	Laceration; Medium
93-0195	Laceration; Large
93-0196	Burn Sticky Wound Kit
93-0197	Burn; 2nd Degree
93-0097	GSW Leg (Rt)
93-0352	Tibial IO leg (Rt)
93-0353	Tibial IO skin plug
93-0354	Tibial IO Bone Insert
93-0098	Left leg uninjured
93-0099	Complete Leg Amp (Lt)
93-0100	Partial Amp Leg (Lt)
93-0101	GSW Leg (Lt)
93-0101	GSW Leg (Lt)
93-0155	TAMI head skin uninjured
93-0156	TAMI GSW chest skin
93-0157	TAMI GSW pelvic shorts
93-0158	TAMI uninjured pelvic shorts
93-0198	Electrical Burn; Medium
93-0199	Chemical Burn; Medium
93-0200	Thermal Burn; Medium
93-0201	Electrical Burn; Large
93-0202	Thermal Burn; Large

### TOMMANIKIN Consumables & Replacement Parts

93-0106	1 Gallon concentrated blood simulant; non-staining
93-0139	5 AMP battery w/o charger
93-0140	5 AMP battery w/charger
93-0141	10 AMP battery w/o charger
93-0143	10 AMP battery w/charger
93-0102	Replace neck skins (10 pack)
93-0169	Tension Bladder set
93-0175	Lung bladder set
93-0185	Bleeding Bag
93-0186	Silicone Repair Kit

### TOMMANIKIN ACCESSORIES

93-0122	Tablet for NARS Simulation
93-0129	Velcro Uniforms - non-BERRY
93-0131	Wheeled Soft Carrying Case
93-0135	TOMMANIKIN Rack (3 shelf)



**NORTH AMERICAN RESCUE®**

Simulation

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