

TRAIN TOTAL REALISM

with

Operative Experience

COMBAT TRAUMA SIMULATORS



Facial
Trauma

Abdominal
Evisceration

Gunshot
Wounds

Shrapnel
Wounds

Traumatic
Amputations

Burn, Blast &
Fragment Wounds

- > **Super-Realistic Anatomy**
- > **Real-World Wounding Patterns**
- > **Rugged Practical Mobility**



Exclusively from

NORTH AMERICAN RESCUE®

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in partnership with **Operative Experience, Inc.**

CTS SERIES is available in 5 TRAINING MODELS, SOLD INDIVIDUALLY or as a COMPLETE SYSTEM

Operative Experience **COMBAT TRAUMA SIMULATORS**

North American Rescue and Operative Experience Incorporated (OEI) have joined forces to deliver a full line of **Combat Trauma Simulators (CTS)** that address the key Tactical Combat Casualty Care (TCCC) critical tasks. The driving force behind these high-fidelity medical simulators is OEI's founder, a formerly deployed Trauma Surgeon, prominent researcher and professor of surgery. His extensive experience in treating penetrating trauma spans the full spectrum of trauma care & has served as the catalyst in developing **super-realistic trauma simulators that are actual anatomical replications**. Setting the bar for point-of-injury medical simulators, this combat trauma training system balances **Super-Realistic Anatomy, Real-World Wounding Patterns & Rugged Practical Mobility** to create realistic and challenging training scenarios for medical providers as they prepare to save lives on the battlefield.

CTS Special Features:

- Unparalleled realism with anatomically correct skeletal structures, seamless body construction and real-world battlefield wounding patterns.
- Remotely controlled breathing and bleeding with a 5 Liter internal reservoir for realistic simulation of blood loss.
- Pulsatile bleeding and pulse pressures that diminish as total blood volume diminishes.
- Extremities are anatomically correct and possess muscle, vasculature and skeletal structures that accurately respond to tourniquet application.
- Internal skeleton provides a realistic range of motion in all joints allowing for realistic patient positioning during movement and procedures.
- Completely wireless design allows for multiphase training scenarios in all echelons of casualty care, from point of injury through TACEVAC.
- Highly resilient training system ruggedized for mobility and optimized for field training.
- Proprietary technology allowing CTS's skin to be incredibly durable and retain a level of soft life-like tactile realism that cannot be met by the competition.
- Self-sealing skin allows for repetitive use without obvious landmarks from needle punctures.
- Easily repairable skin.
- Rechargeable, replaceable battery that runs 3-4 hours of continuous use, allowing for multiple training scenarios on one charge.
- Simple and easy reset times allowing for quick transition between training iterations.
- 1 year manufacturer warranty.

Each CTS Model includes:

- 6 ft, 180 lb Training Manikin
- Custom Stackable Storage Case
- Instruction Manual
- 5 Cricothyroidotomy Skin Replacements
- 2 Batteries & Chargers
- 50 Sternal I/O Disc Replacements
- 20 Humeral I/O Replacements (10 left, 10 right)
- Skin Repair Kit (for minor abrasions)
- Blood Reservoir Fill Pump
- 1 Uniform
- Pair of protective Heel Covers
- Remote Control with Rechargeable Battery Pack



Available in 5 TRAINING MODELS,
SOLD INDIVIDUALLY or as a COMPLETE SYSTEM

Each manikin includes pair of heel covers to reduce wear & tear when dragging or moving



OVERVIEW

CTS/1

Facial Trauma & Bleeding

Item# **93-0001**



Click this icon to
view the product
online



**Gun Shot
Wound** (Face)

**Gun Shot
Wound**
(Upper Arm)



CTS/1 breathes,
bleeds, moves head &
has carotid pulse

INTERVENTIONS:

- > Extremity Tourniquet
- > Wound Packing
- > Bandaging
- > Nasopharyngeal Airway
- > Supraglottic Airway
- > Surgical Cricothyroidotomy
- > Chest Seal
- > Needle Decompression
- > Humeral & Sternal Intraosseous

**Fragment
Wounds** (Chest)



CTS/2

Junctional Bleeder

Item# **93-0002**

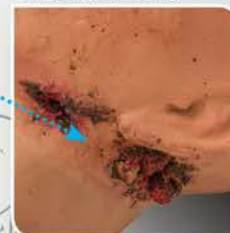


CTS/2 breathes,
bleeds, moves head &
has carotid pulse

INTERVENTIONS:

- > Extremity Tourniquet
- > Junctional Tourniquet
- > Wound Packing
- > Bandaging
- > Nasopharyngeal Airway
- > Supraglottic Airway
- > Surgical Cricothyroidotomy
- > Chest Seal
- > Needle Decompression
- > Humeral & Sternal Intraosseous
- > Fracture Splinting

**Shrapnel
Injury** (Neck)



**Gun Shot
Wound** (Thigh)
through-and-through



**High Gun Shot
Wound** (Groin)
above tourniquet line



Open Fracture
(Tib/Fib)



CTS/3

Amputations & Blast Wounds

Item# 93-0003



Click this icon to view the product online



CTS/3 breathes, bleeds, moves head & has carotid pulse

INTERVENTIONS:

- > Extremity Tourniquet
- > Junctional Tourniquet
- > Bandaging
- > Nasopharyngeal Airway
- > Supraglottic Airway
- > Surgical Cricothyroidotomy
- > Chest Seal
- > Needle Decompression
- > Humeral & Sternal Intraosseous



Burn, Blast & Fragment Wounds
(Left Flank)



Amputation
(Above Elbow)



Amputation
(Upper Thigh)
above tourniquet line



Amputation
(Above Knee)

CTS/4

Amputations & Chest Injuries

Item# 93-0004



Burns (Face)



Sucking Chest Wound (Open Pneumothorax)



Fragment Wounds (Left Flank)



Amputation
(Above Elbow)

CTS/4 breathes, bleeds, moves head and has carotid pulse

INTERVENTIONS:

- > Extremity Tourniquet
- > Junctional Tourniquet
- > Wound Packing
- > Bandaging
- > Nasopharyngeal Airway
- > Supraglottic Airway
- > Surgical Cricothyroidotomy
- > Chest Seal
- > Needle Decompression
- > Humeral & Sternal Intraosseous



Amputation
(Above Knee)



CTS/5

Abdominal Wounds

Item# 93-0005



CTS/5 breathes, bleeds, moves head and has carotid pulse

INTERVENTIONS:

- > Extremity Tourniquet
- > Wound Packing
- > Bandaging
- > Abdominal Evisceration Treatment
- > Nasopharyngeal Airway
- > Supraglottic Airway
- > Surgical Cricothyroidotomy
- > Humeral & Sternal Intraosseous

Evisceration (Abdominal)



Amputation (Above Wrist)



Deep Avulsion (Posterior Thigh)



CTS/6

All 5
Manikins



Item# 93-0006

NSN# 6910-01-629-7815

Operative Experience COMBAT TRAUMA SIMULATORS

CTS/6 Set includes all 5 Simulators:

- > CTS/1 Facial Trauma & Bleeding
- > CTS/2 Junctional Bleeder
- > CTS/3 Amputations & Blast Wounds
- > CTS/4 Amputations & Chest Injuries
- > CTS/5 Abdominal Wounds





Operative Experience COMBAT TRAUMA SIMULATORS

Accessories

A. CTS Remote Control.....Item# 93-0007

B. CTS Field Service Cart.....Item# 93-0010
Dimensions: H 45 in. x W 37 in. x D 23 in./ Capacity: 16 gal

C. CTS Blood Reservoir Fill Pump.....Item# 93-0011

Other accessories also available:

CTS Battery Charger.....Item# 93-0008

CTS Battery Pack Replacement.....Item# 93-0009

CTS Skin Repair Kit.....Item# 93-0012

CTS Cric Skin Ring Replacement
Item# 93-0013.....NSN# 6910-01-629-8530

CTS Humeral I/O Cap Replacement - Left
Item# 93-0014.....NSN# 6910-01-629-8437

CTS Humeral I/O Cap Replacement - Right
Item# 93-0015.....NSN# 6910-01-629-8430

CTS Sternal I/O Insert (Pack of 10)
Item# 93-0016.....NSN# 6910-01-629-8464

Case Dimensions:
L 77 in. x W 27 in.
H 19 in. (with casters)
H 14.5 in. (without casters)



B



Each simulator comes complete with its own stackable carrying case featuring removable wheels for easy transport & storage.



C

Other training resources from **NAR...**

TCCC Modular Training System All the necessary tactical medical and casualty extraction/evacuation equipment needed when teaching the PHTLS TCCC Certification 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 (20) students. Complete system consists of three self-contained hard storage case modules: 1.) Skill Stations, 2.) IFAKS & 3.) Extraction. Available individually or as a complete set.

Complete TCCCC Training System (3 Modules).....Item# 85-0550
Skill Stations Module 1.....Item# 85-0519
IFAK Module 2.....Item# 85-0520
Extraction Module 3.....Item# 85-0521



Contact your NAR Sales Representative about all our training products...

