





IMPROVING PATIENT CARE UNDER FIRE

TACTICAL CASUALTY CARE SIMULATION SUITE

The Tactical Casualty Care Simulation Suite is a suite of **lifelike and anatomically-accurate**, **high-fidelity**, **male and female simulators** for comprehensive TCCC and medical provider level care training.

Featuring lifelike tissue and high anatomic fidelity, the TCCS and TCCS Plus lines of simulators are highly ruggedized, water-resistant and fully mobile. With over 10+ hours of battery life they are ideally suited for challenging, real-world, indoor and outdoor environments.

TACTICAL CASUALTY CARE SIMULATOR (TCCS)

Comprehensive Tactical Combat Casualty Care Preparedness





> AIRWAYS

- Assessment of oral and nasal areas
- Realistic airway intubation capable
- Insert nasal & oral pharyngeal airways
- Difficult airway management
- Perform advanced foreign body removal from airway
- Perform suction of the airway nasal and oropharyngeal
- Tracheal intubation
- Supports supraglottic devices (incl. LMAs)
- Crycothyrotomy

> HEMORRHAGE MANAGEMENT

- Remote controlled venous bleeding and arterial hemorrhage
- Bleeding control via pressure, elevation, and pressure
- CAT and junctional tourniquets
- Apply tourniquets to control bleeding
- Apply junctional tourniquets to control massive hemorrhage
- Assess and treat upper and lower limb amputations
- Wound packing
- Multiple and independent bleeding sites
- Penetrating trauma wounds
- 3 liter blood reservoir

> BREATHING

- Remote controlled respiratory rate
- Bilateral and independent chest excursion
- Tension pneumothorax corrected by midclavicular and anterior axillary needle insertion
- Support to external ventilation

CIRCULATION

- Remote controlled heart rate
- Remote controlled pulses carotid and non-injured limbs
- Humeral and sternal IO
- IV cannulation

> MANIKIN AND SOFTWARE

- Full-body, wireless simulator
- Ruggedized and water-resistant for indoor and outdoor environments
- Realistic and lifelike weight (84 kg)
- Fully articulated limbs
- Easy-to-use instructor tablet and software (iOS, Android and Mac/PC)
- Two-way headset communication system
- Simulation logs
- System "health" status with complete and real-time self-diagnostics



TACTICAL CASUALTY CARE SIMULATOR FEMALE (TCCSF)

The World's First Life-Identical Female Tactical Simulator for TCCC Training





> AIRWAYS

- Assessment of oral and nasal areas
- Realistic airway intubation capable
- Insert nasal & oral pharyngeal airways
- Difficult airway management
- Perform advanced foreign body removal from airway
- Perform suction of the airway nasal and oropharyngeal
- Tracheal intubation
- Supports supraglottic devices (incl. LMAs)
- Crycothyrotomy

> HEMORRHAGE MANAGEMENT

- Remote controlled venous bleeding and arterial hemorrhage
- Bleeding control via pressure, elevation, and pressure points
- CAT and junctional tourniquets
- Apply tourniquets to control bleeding
- Apply junctional tourniquets to control massive
- Assess and treat upper and lower limb amputations
- Wound packing
- Multiple and independent bleeding sites
- Penetrating trauma wounds
- 1.2 liter blood reservoir

> BREATHING

- Remote controlled respiratory rate
- Bilateral and independent chest excursion
- Tension pneumothorax corrected by midclavicular and anterior axillary needle insertion
- Support to external ventilation

> CIRCULATION

- Remote controlled heart rate
- Remote controlled pulses carotid and non-injured limbs
- Humeral and sternal IO
- IV cannulation

> MANIKIN AND SOFTWARE

- Full-body, wireless simulator
- Realistic female form with less muscle mass, lighter skeleton and anatomically accurate genitalia
- Ruggedized and water-resistant for indoor and outdoor environments
- Realistic and lifelike weight (59 kg)
- Fully articulated limbs
- Easy-to-use instructor tablet and software (iOS, Android and Mac/PC)
- Two-way, headset communication system
- Simulation logs
- System "health" status with complete and real-time self-diagnostics



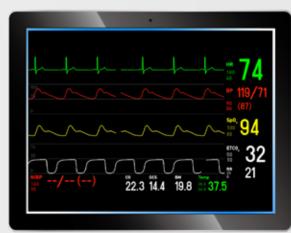


TACTICAL CASUALTY CARE SIMULATOR PLUS (TCCS PLUS)

A High-Fidelity, Clinically-Responsive Tactical Trauma Simulator for Prolonged Field Care Training







> AIRWAYS

- Endotracheal tube placement
- Tongue-swelling for difficult airway
- Bag-valve-mask ventilation
- Assessment of oral and nasal areas
- Nasal and oral pharyngeal airways insertion
- Supports supraglottic devices (incl. LMAs)
- Cricothyrotomy

> MEDICATION AND IV

- Medication and vascular access
- Intramuscular sites for medication
- IV cannulation
- Humeral, sternal and tibial IO

> BREATHING

- Remote controlled respiratory rate
- Bilateral and independent chest excursion
- Tension pneumothorax correctedby midclavicular and anterior axillary needle insertion
- Support to external ventilation
- Bilateral chest tube insertion

> PATIENT MONITORING

- ECG monitoring
- Patient vital signs
- Multiple waveform display

> CIRCULATION

- Remote controlled heart rate
- 4 lead ECG
- Unilateral blood pressure measurement
- · Carotid, brachial, radial, femoral, popliteal, dorsalis and posterior sensed pulses
- Defibrillation, cardioversion and pacing*

NEUROLOGICAL

• Blinking eyes with tri-state pupils

> HEMORRHAGE MANAGEMENT

- Remote controlled pulsatile hemorrhage
- Bleeding control via pressure, elevation, and pressure points
- CAT and junctional tourniquets
- Wound packing
- Multiple and independent bleeding sites
- Penetrating trauma wounds

> SOUNDS

- Airway sounds
- Heart sounds
- Lung sounds

> MANIKIN AND SOFTWARE

- Full-body, wireless simulator
- Ruggedized and water-resistant for indoor and outdoor environments
- Realistic and lifelike weight (84 kg)
- 3 liter blood reservoir
- Fully articulated limbs
- Easy-to-use instructor tablet and software (iOS, Android and Mac/PC)
- Student tablet for vital signs monitoring
- Two-way, headset communication system
- Simulation logs
- System "health" status with complete and realtime self-diagnostics

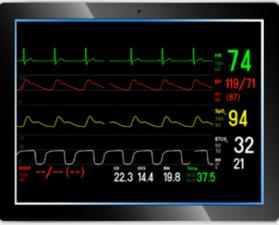
*requires iSimulate patient monitor software

TACTICAL CASUALTY CARE SIMULATOR FEMALE PLUS (TCCSF PLUS)

High-Fidelity Medical Provider Level Prolonged Field Care for the Female Combatant







> AIRWAYS

- Endotracheal tube placement
- Tongue-swelling for difficult airway
- Bag-valve-mask ventilation
- Assessment of oral and nasal areas
- Nasal and oral pharyngeal airways insertion
- Supports supraglottic devices (incl. LMAs)
- Cricothyrotomy

> MEDICATION AND IV

- Medication and vascular access
- Intramuscular sites for medication
- IV cannulation
- Humeral, sternal and tibial IO

> BREATHING

- Remote controlled respiratory rate
- Bilateral and independent chest excursion
- Tension pneumothorax corrected by midclavicular and anterior axillary needle insertion
- Support to external ventilation
- Bilateral chest tube insertion

> PATIENT MONITORING

- ECG monitoring
- Patient vital signs
- Multiple waveform display

> CIRCULATION

- Remote controlled heart rate
- 4 lead ECG
- Unilateral blood pressure measurement
- Carotid, brachial, radial, femoral, popliteal, dorsalis and posterior sensed pulses
- Defibrillation, cardioversion and pacing*

NEUROLOGICAL

• Blinking eyes with tri-state pupils

> HEMORRHAGE MANAGEMENT

- Remote controlled pulsatile hemorrhage
- Bleeding control via pressure, elevation, and pressure points
- Combat Application Tourniquets, and junctional tourniquets
- Wound packing
- Multiple and independent bleeding sites
- Penetrating trauma wounds

> SOUNDS

- Airway sounds
- Heart sounds
- Lung sounds

> MANIKIN AND SOFTWARE

- Full-body, wireless simulator
- Ruggedized and water-resistant for indoor and outdoor environments
- Realistic and lifelike weight (59 kg)
- 1.2 liter blood reservoir
- Fully articulated limbs
- Easy-to-use instructor tablet and software (iOS, Android and Mac/PC)
- Student tablet for vital signs monitoring
- Two-way, headset communication system
- Simulation logs
- System "health" status with complete and realtime self-diagnostics

*requires iSimulate patient monitor software

TACTICAL HEMORRHAGE CONTROL TRAINER (THCT)

Rapid Assessment and Hemorrhage Control Training



The Tactical Hemorrhage Control Trainer (THCT) is an lifelike, wireless and autonomous patient simulator for TCCC rapid assessment and hemorrhage control training. The THCT features independent upper and lower body venous and pulsatile arterial bleeding, controlled remotely with a free and easy-to-use mobile phone application. The THCT can also be used to train essential TCCC point-of-injury skills such as emergency airway management, needle decompression and intraosseous injection.

> FULL-BODY MANIKIN

- Full-body, wireless, tetherless, and autonomous simulator
- Anatomically-accurate soft tissue
- Ruggedized and water-resistant for indoor and outdoor
- Multiple wound configurations including amputations and gunshot wounds
- Realistic and lifelike weight
- Fully-articulated limbs
- Easy-to-use instructor phone app (iOS and Android)
- Extended battery life: 20+ hours

> ESSENTIAL SKILLS TRAINING

- Endotracheal tube placement
- Supports supraglottic devices (including LMAs)
- Bag-valve-mask ventilation
- Assessment of oral and nasal areas
- Oropharyngeal and Nasopharyngeal airway
- Needle decompression (mid-clav/mid-ax)
- Chest Seal
- Cricothyrotomy
- Humeral and sternal intraosseous
- Catheterization
- IV cannulation

> HEMORRHAGE CONTROL

- Remotely-activated venous and pulsatile arterial bleeding
- Wound packing and bandaging
- Junctional and standard tourniquet application
- Blood reservoir: 6L male/3.5L female

> RAPID ASSESSMENT

- Airway and breathing
- Oral and nasal
- Bleeding

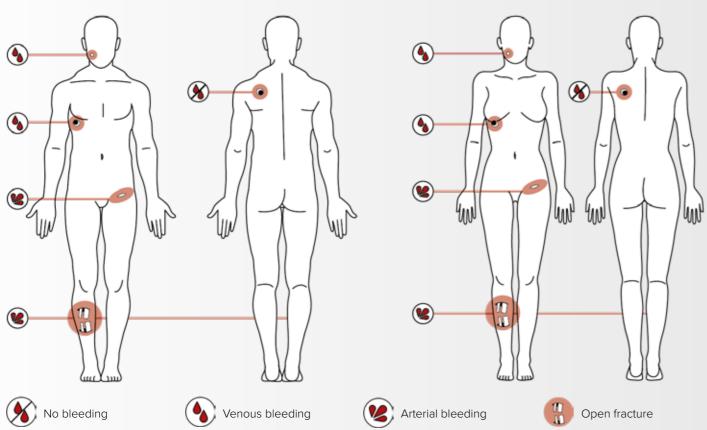


TCCS/THCT WOUND CONFIGURATIONS

Available for male and female simulators

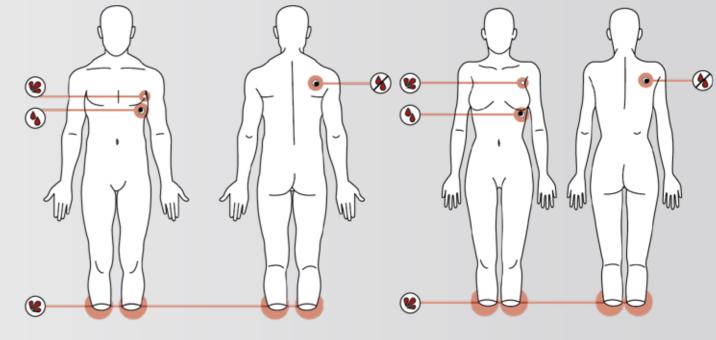
> WOUND PATTERN: TRAUMA



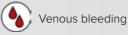


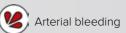
> WOUND PATTERN: TRAUMA











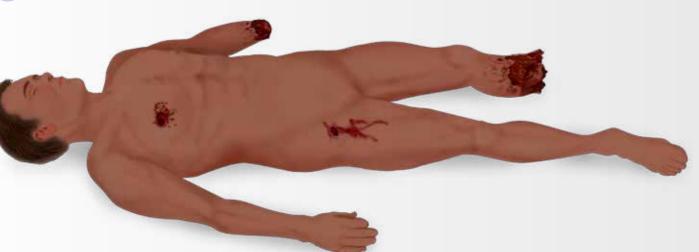
Available in Caucasian, African American and Hispanic skin tones.

> WOUND PATTERN: TRAUMA

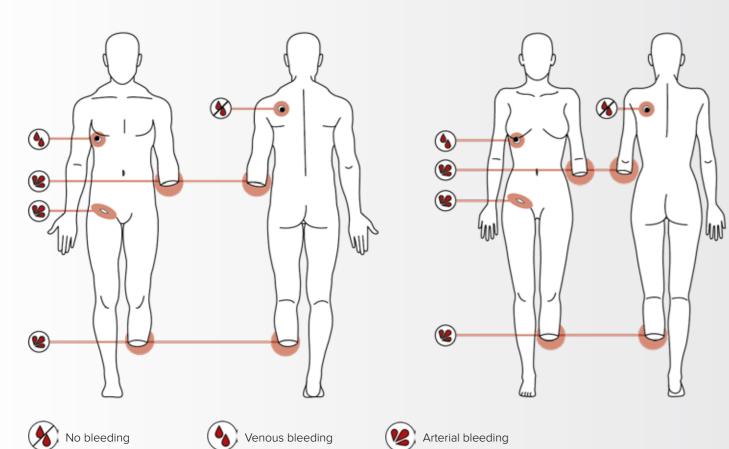
TCCS 3 MALE **Art. No. 1022855**

TCCS 3 FEMALE Art. No. 1022852

TCCS PLUS 3 MALE Art. No. 1022921 TCCS PLUS 3 FEMALE Art. No. 1022912 THCT 3 MALE Art. No. 1022927 THCT 3 FEMALE Art. No. 1022977



Wound Description	Bleeding	Туре	
Gun Shot Wound (GSW) Right side of the chest	Yes	Venous	
GSW exit left side of the back	No	-	
Left lower arm amputation	Yes	Arterial	
Left below the knee amputation	Yes	Arterial	
Right side inquinal wound	Yes	Arterial	



> WOUND PATTERN: BURN

TCCS 4 MALE TCCS 4 FEMALE Art. No. 1022907

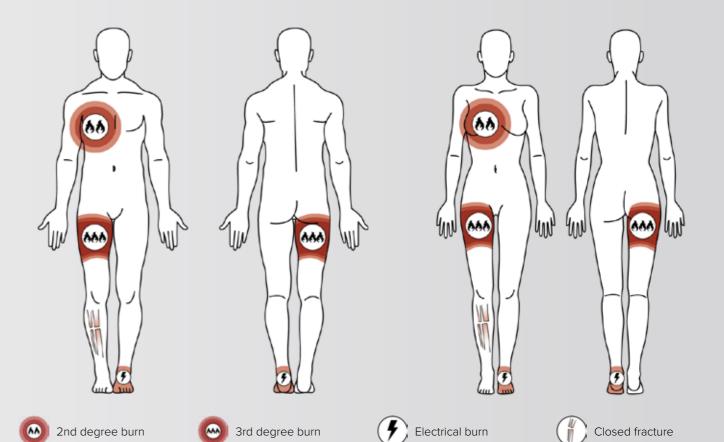
Art. No. 1022916

TCCS PLUS 4 MALE TCCS PLUS 4 FEMALE

Art. No. 1022922 Art. No. 1022913



Wound Description	Bleeding	Туре
2nd degree burn in the chest	No	-
3rd degree circumferential burn right thigh	No	-
Closed fracture of the right leg	No	-
Electrical exit wound left bottom of the left foot	No	_



Available in Caucasian, African American and Hispanic skin tones.

TECHNICAL SPECIFICATIONS

- Full-body wireless manikin
- Water resistant
- Male: 192 × 70 × 30 cm, 84 kg
- Female: 165 × 60 × 28 cm, 59 kg
 (Simulator weight can vary +/- 5%)
- Fully-articulated limbs
- Internal batteries dual pack
- Li-Ion 18.5V, 6400 mAh
- 6A rate with built in thermal protection
- UN38.3 certified
- Run time: 10+ hours

- Electrical Input: 110v 240v
- Two-way communication system
- · Line of sight two-way communications headset
- · Range up to 91 m
- Instructor Control Interface tablet
- · Patient Monitor tablet (Plus models only)
- Instructor Control Interface software and license (iOS, Android, Windows 10, Mac OS 10.12 or greater)
- Rugged carry case
- 3.7 liters concentrated antimicrobial, antifungal, antifreeze simulated blood



FOR MORE INFORMATION PLEASE CONTACT YOUR 3B SCIENTIFIC REPRESENTATIVE.



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