

Combat CARM Care and Evacuation Manikin

Item no.: T3C





Combat Carl was developed in close cooperation with the German Armed Forces and special units and offers all the important functions for **TCCC** and **TECC** training. Due to its **robust nature and flexibility in the extremities**, **Combat Carl** is ideal for **professional training** in the **civilian and military sector**.



Providing medical care on the battlefield poses different challenges than in the event of an accident at home. From initial treatment in a firefight to onward transportation to a treatment facility, soldiers risk their lives and Combat Carl can be used to map the complete **MARCH scheme**.

MARCH

M Treatment of **Massive bleeding**

Three supplied deep wounds can be applied at 7 points and connected to bleeding modules.

Wound packing is possible for all wounds, as is the application of tourniquets.

A **Airway**

Airway management with oro- and nasopharyngeal as well as supraglottic devices

R **Respiration**

Chest relief in the monaldi and Bühlauposition

C **Circulation**

Haemostasis and access to the vascular system: i.v. in the forearm, i.o. sternal, humeral head and proximal tibia with reusable pads

H **Hypothermia / Head Injuries**

Interchangeable eyes with normal, dilated and constricted pupils

Although the military-tactical procedure may vary depending on the different threats in the combat situation, the basic philosophy of casualty care always remains the same. **Combat Carl** can optionally be equipped with an **amputation stump arm**, **amputation stump leg** or **realistic wound moulages**.



First phase „Care Under Fire“

During the **first phase, „Care Under Fire“**, the aim is to guide a wounded person to self-help as quickly as possible, despite the possibility of ongoing hostilities, in order to bring them to a safe area away from the fighting and provide them with care. Almost 18% of fatalities can be avoided if care is provided by specially trained first responders within the first ten minutes, the so-called **Platinum Ten Minutes**.



For this reason, great importance is attached to self-help and comrade help. This enables them to provide first aid under tactical conditions. Simple haemostatic measures for gunshot wounds are carried out using **self-adhesive and extremely realistic wound moulages** and can be treated using a tourniquet, increasing the wounded person's chances of survival. Applying a **tourniquet** to the extremities prevents excessive blood loss and the resulting death from haemorrhage. Ideal for training with the **haemorrhage module** which can be **controlled via an APP**.



Second phase „Tactical Field Care“

In the **second phase, „Tactical Field Care“**, a standardised examination according to the MARCH scheme can now be carried out for the first time without enemy action.

This scheme is repeated continuously, followed by the **third and final phase, „Tactical Evacuation Care“**. This comprises the preparation and execution of qualified tactical casualty transport to a field hospital or field hospital. Various means of transport are available for this transport phase, depending on the operational situation. Ideally, this is the rescue helicopter equipped with intensive care equipment. Specially armoured vehicles, such as an armoured transport vehicle, serve as means of rescue by land. The basic aim of **TCCC - Tactical Combat Casualty Care** is to adhere to operationally defined timelines. After basic first aid, the „**Platinum Ten Minutes**“, the wounded must be evacuated from the dangerous situation within the so-called „**Golden Hour**“. Further surgical treatment is then carried out in a sterile environment.



Specifications:

- Weight from approx. **65kg** to **85kg**
- Realistic size **175cm**
- Robust PVC material
- Ideal for outdoor use in extreme conditions (sand, rain, mud, etc.)
- Wound inserts incl. universal haemorrhage module at 7 points for changing
- Flexible extremities for different carrying techniques
- No sensitive electronics
- Made in Germany
- cABCDE Schema – Conform
- XABCDE Schema – Conform
- MARCH Schema – Conform
- Voice module via Bluetooth (waterproof up to 1 metre according to IPX7)
- Interchangeable eyes, 3 pairs, normal, dilated, constricted
- Airway protection, oropharyngeal and nasopharyngeal
- Wound management 7 positions for wound modules
- Stab wound, bullet wound, bullet hole wound, blind covers
- Wounds have a bleeding function
- haemorrhage module manually or automatically via app control
- Tourniquet system
- Dressing techniques / support and wound dressing
- Intraosseous access tibia
- Intraosseous access humerus
- Intraosseous access sternum
- Thoracic decompression according to Monaldi
- Thoracic decompression according to Bülau
- Intravenous injection
- Peripheral venipuncture

- Thorax relief Monaldi
- Thorax relief Bülau
- IV access possibility



- I.O Access FAST
- I.O Access
- Exchangeable eyes with normal, constricted or dilated pupil

- Voice output via loudspeaker in the head by means of sound files or via microphone function
- Airway management oro - and nasopharyngeal

- Openings for wounds, IM puncture pads and blind covers
- Robust and insensitive to water, dirt and other adverse environmental conditions



Airway management
nasopharyngeal



Airway manageme
supraglottic



C**MAT**

Patient voice



Exchangeable eyes



Wounds in the
thoracic region



Relief puncture according
to Monaldi



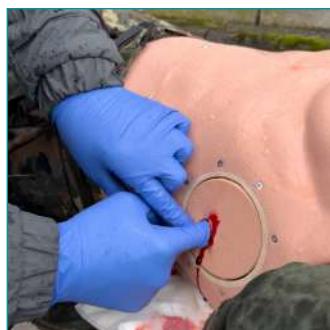
Sternal intraosseous
approach



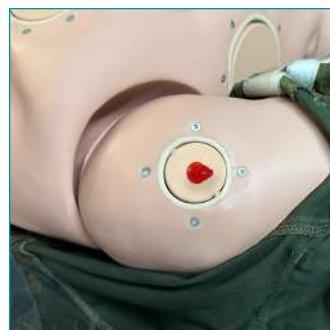
Wound-Packing



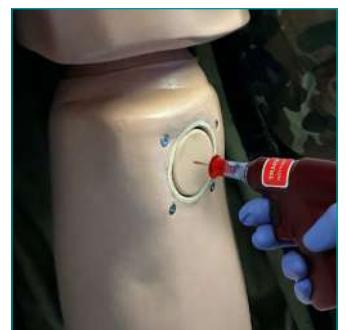
i.V. access



Chest drainage



IO access
Humerus



IO access
Tibia



TQ - placememt



Amputation stump leg



Bandaging techniques



Carrying techniques

Additional accessories



This new series of extremely realistic moulages show typical injuries. The injuries are already painted. For an even more realistic look artificial blood can be added. Instead of time consuming Make-up the moulages will be immediately ready for use. Use your valuable time for training, not for Make-Up.

All wounds are delivered in transport boxes.
Manufactured in Germany.

Wound moulage bullet wound arm, big

Item no. NW104

with bleeding function



Wound moulage bullet hole leg, big

Item no. NW105

with bleeding function



Wound moulage 2nd degree burn

Item no. NW007



Wound moulage 2nd degree burn, big

Item no. NW106



Wound moulage bullet entrance hole

Item no. NW010A



Wound moulage bullet exit hole

Item no. NW010B



Wound moulage 3rd degree burn

Item no. NW008



Wound moulage 3rd degree burn, big

Item no. NW107





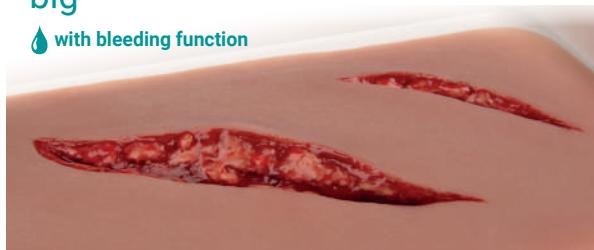
Bleeding Function

The large wounds have a bleeding function. An incorporated, invisible tube allows the wound to bleed realistically. The tube is connected to an infusion bag which can be filled with artificial blood. Bleeding of the wound can be controlled by the mime himself or a third person.

Wound moulage cut, big

Item no. NW100

with bleeding function



Wound moulage open fracture leg, big

Item no. NW103

with bleeding function



Wound moulage open fracture arm, big

Item no. NW102



Wound moulage laceration, big

Item no. NW101



Wound moulage „human bite”

Item no. NW005



Wound moulage „open fracture”

Item no. NW004



Wound moulage „cut”

Item no. NW002



Wound moulage cut broken bottle

Item no. NW009



Wound moulage „laceration”

Item no. NW003



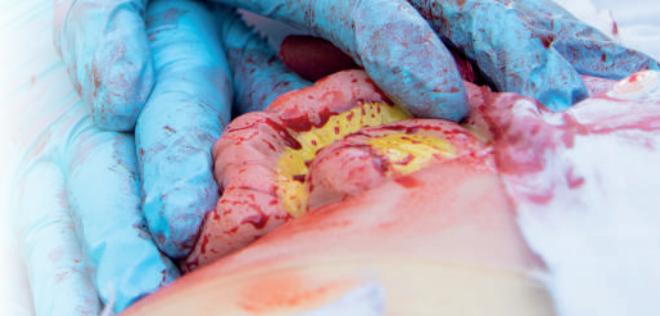
Wound moulage protruding of large intestines

Item no. NW109



Wound moulage protruding small intestines

Item no. NW111







Wound moulage stab groin, Wound Packing

This moulage is made of silicone and shows a stab wound in the groin area. The stab wound is so deep that wound packing can be practiced with appropriate materials. The moulage is self-adhesive to dolls or human skin. The moulage has a supply line with connection for the bleeding system. It can also be applied with moulage adhesive, but the moulage permanently loses its self-adhesive properties if the adhesive is used. All wounds are packed in plastic boxes to ensure safe storage.



Wound Moulage Shot Groin, Wound Packing

This moulage is made of silicone and shows a gunshot wound in the groin area. The gunshot wound is so deep that wound packing can be practiced with appropriate materials. The moulage is self-adhesive to dolls or human skin. The moulage has a supply line with connection for the bleeding system. It can also be applied with moulage adhesive, but the moulage permanently loses its self-adhesive properties if the adhesive is used. All wounds are packed in plastic boxes to ensure safe storage.



Item no. NW160



Wound Packing Trainer

This affordable and realistic Wound Packing Simulator is ideal for emergency training and the simulation patient program. Shown is a realistic bullet wound with bleeding function caused by a large gun caliber, ideal for training the Wound Packing procedure. The Simulator is made of a high quality and very durable silicone that simulates human skin and tissue. Common hemostatic wound pads can be used. We recommend to use our washable, non-staining artificial blood (Ref.no. 7024) with the simulator. The trainer is fast and easy to clean after use. The package contains: Wound Packing Simulator (Item no. 7770), 250 ml artificial blood (Item no. 7024), Bottle for fake blood (Item no. 7770-1), Tube 80 cm (Item no. 7770-2), Plastic tray (Item no. 7770-3).

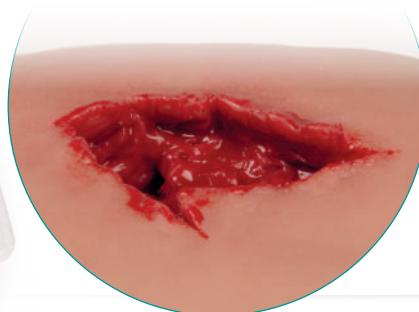
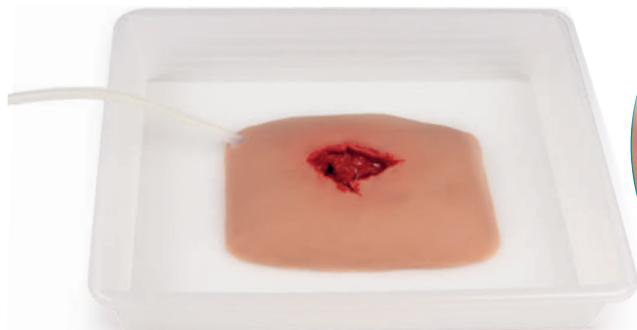
Item no. 7770



Wound moulage wound packing

This moulage shows a large wound with severe bleeding for training of wound packing. With line for bleeding function. The moulage adheres to skin or a manikin. For longer training or improved adherence an optional glue is available. Supplied with storage box.

Item no. NW110





Bloody M.A.R.C Blood pumping system with Reservoir - Backpack

The Bloody Mobile Automated Remotely Circuit blood supply module fits perfectly to our wound moulages with bleeding function. The reservoir backpack holds up to 3 liters of artificial blood which can be pumped into up to 4 wounds simultaneously. Because of the backpack design the blood supply is not obvious to see and integrates perfectly into your training scenario. The reservoir bag has an extra big opening to allow easy emptying and cleaning.

Manual version

Item no. NW900

Bloody M.A.R.C Blood pumping system with Reservoir - Backpack

The Bloody Mobile Automated Remotely Circuit blood supply module fits perfectly with our bleeding wounds. The reservoir backpack holds up to 3 liters of artificial blood, which can be pumped into up to 4 wounds at the same time using an electronic pump. The pump is operated by a battery pack and controlled in strength and pulse rate via Bluetooth remote control. Due to the backpack design, the blood supply is not noticeable and integrates perfectly into the training scenario. The reservoir bag has an extra large opening so that you can quickly and easily remove the blood and rinse the bag after the exercise.

Product features:

- practical backpack design
- wireless and mobile
- Strong battery pack for long operating times
- Wireless remote control via bluetooth
- easy handling, easy to clean

With electronic pump and remote control

Item no. NW950



Portable device for hemorrhage visualization

The bleeding device consists of a pump module with three connections, which can be controlled wirelessly using the cell phone supplied (only used as a control unit). The three connections can bleed either arterially or venously and the amount of bleeding is adjustable. The pump has a sensor system which stops the pump when the line is closed (e.g. during wound packing) to prevent damage. The pump module has a built-in battery, which allows between 2 and 20 hours of exercise depending on the load. The rechargeable battery can be replaced by a layperson and is a standardized battery, a charger is included.

The pump module is integrated in a backpack with a hydration bladder for blood supply, but can also be removed and used outside.



Item no. NW500



Artificial blood, 2L

Canister with artificial blood, suitable for bleeding device.

Item no. NW599



Make-up blood for realistic accident simulation, 250 ml

The EZ make-up blood with high viscosity in liquid form is ideal for realistic accident simulation.

Item no. 7025



Skin Glue

for extreme hold of the moulages. 225 g Tube.

Item no. 7700



Blood-colored fluid, 250ml

Blood-colored fluid, 250 ml. For use with injection training arms or for wound simulation.

Item no. 7024



Blood powder for 1000 ml fake blood

The EZ blood powder is supplied in a high-quality bottle, by adding water you get 1000ml of fake blood.

Item no. 7026



Artificial glass for splinter simulation

to simulate shattered glass

Item no. NW200



OFFICIAL DISTRIBUTOR



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