

TruJunctional User Manual



A realistic solution for haemorrhage control training.

TruJunctional provides training for pelvic binding, junctional tourniquet placement, and the treatment of traumatic injuries such as stab and gunshot wounds.

The model provides realistic bleeding control with visual feedback on user performance and allows for unsuccessful haemorrhage control.

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Product Specifications

Product Code: TJU1000

Full shipment weight: 17kg

Full shipment dimensions: 78 x 45 x 39cm (L x W x H)

Package Contents

- 1x TruJunctional Model (TJU1000)
- 1x TruJunctional Carrier Case
- 1x Pressure Pump (holds up to 2 litres) + Tubing
- 1x Concentrated Blood 250ml (CVB250)
- 1x Plastic Refill Funnel
- 1x Silicone Mat

Recommended Equipment

- SAM Junctional Tourniquet
- Pelvic Binder
- CAT Tourniquet
- JETT
- Concentrated Blood

Initial Set- Up

1. Position the TruJunctional unit on the silicone mat to help contain any potential spillage and ensure ease of cleanup.
2. Using the provided funnel, carefully fill the pump reservoir with a mixture comprising the recommended concentration of TruCorp synthetic blood concentrate and water. Do not exceed a total volume of 2 litres to maintain optimal system performance and avoid over-pressurisation

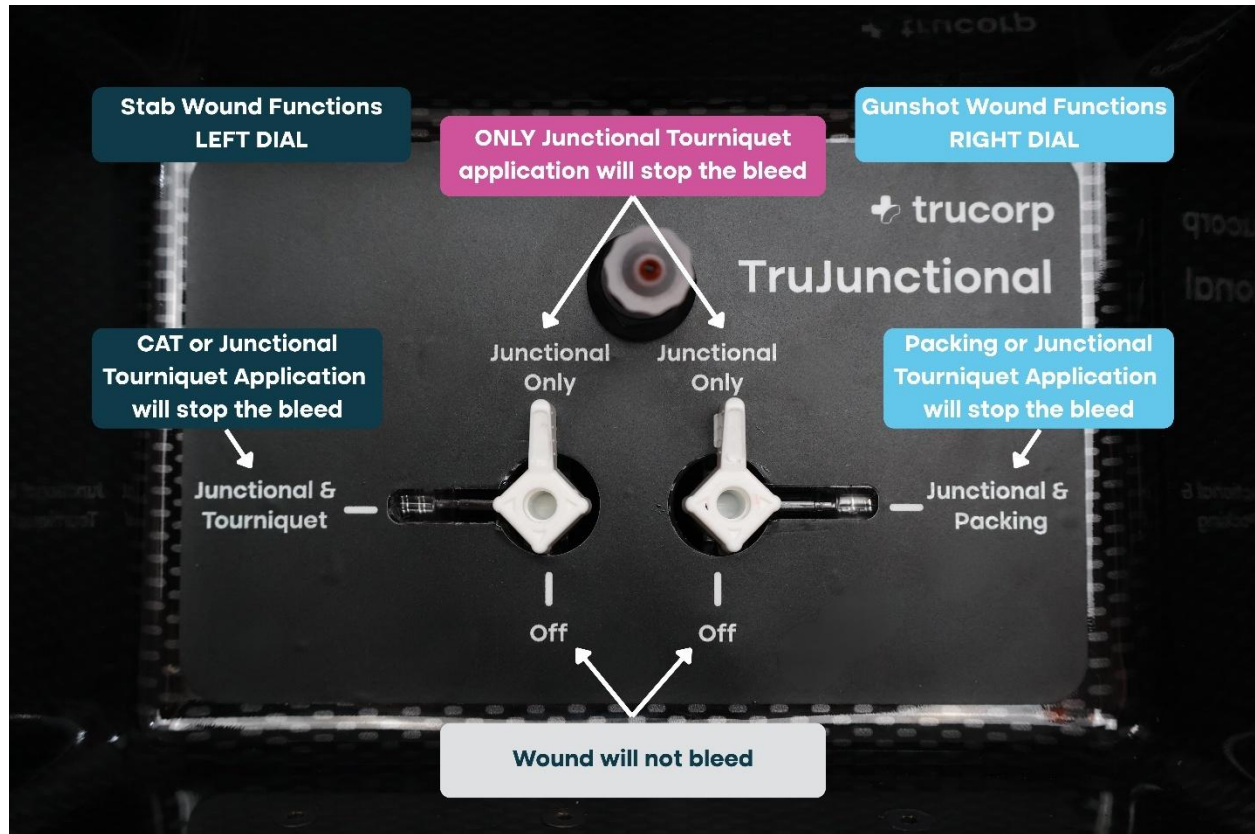


3. Ensure the pump lid is properly aligned and securely fastened to prevent leaks. Attach the fluid delivery tubing to the unit as required. If additional length is necessary, connect the extender tubing—one end to the pump outlet and the other to the training unit inlet—ensuring all connections are secure.
4. Adjust the control dials to the desired operational parameters in accordance with the training objectives. Refer to Page 5 of the User Manual for detailed guidance on recommended settings for specific learning outcomes.



Using Product

- Select the bleeding options that you want for each side that best align with your training objective.



- Pump the handle on top of the system 10-15 times if the pump is filled to 2 litres.

Stab Wound Functions

'Off' – the unit will be delivered in this setting; therefore, no bleeding will occur.

'Junctional & Tourniquet' – this means the student can apply the CAT tourniquet or the Junctional tourniquet and the bleed will stop if they are positioning correctly and the right pressure is introduced.

'Junctional Only' – regardless of the CAT tourniquet positioning and pressure, the only way to stop the bleeding is with the use of a Junctional tourniquet.

Gunshot Wound Functions

'Off' – the unit will be delivered in this setting; therefore, no bleeding will occur.

'Junctional & Packing' – this means the student can pack the wound or apply the Junctional tourniquet and the bleed will stop if it is packed and the correct pressure is applied, or the Junctional tourniquet is positioned correctly.

'Junctional Only' – regardless of the packing and pressure applied, the only way to stop the bleeding is with the use of a Junctional tourniquet.

What setting best suits my needs?

'Junctional & Tourniquet' / 'Junctional & Packing' – use these settings to focus on individual haemorrhage control techniques, such as stopping the bleed with packing alone, CAT tourniquet, or junctional tourniquet. While multiple methods are enabled, bleeding will stop as soon as a single effective intervention is applied, allowing for targeted skill assessment.

'Junctional Only' – select this setting to simulate scenarios where initial interventions such as wound packing or CAT tourniquet application are deliberately ineffective, requiring escalation to junctional tourniquet use as the definitive method of haemorrhage control.

Junctional Tourniquet Application

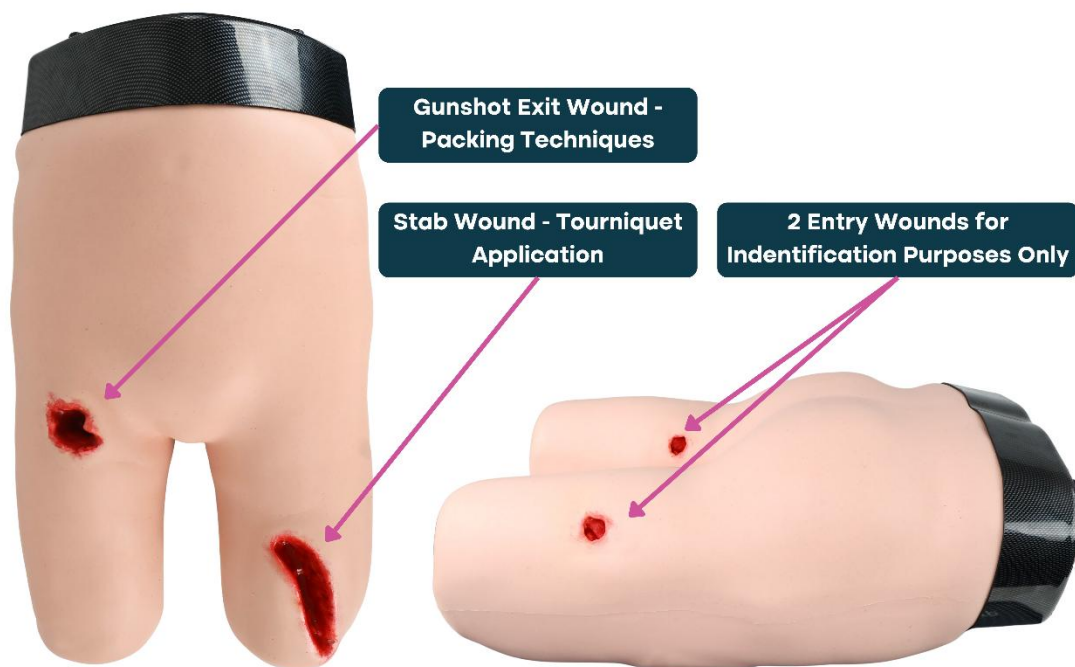
- Feel for anatomical landmarks to locate right position for junctional tourniquet. A pelvic binder can be used on the TruJunctional unit, so apply similarly.
- Wrap the junctional tourniquet around and under the pelvis making sure it is over the greater trochanters. Place the inflation pad over the correct area.
- Clip in the junctional to the other side. Pull the strap until it is tight against the product and it 'clicks' into place.
- Close the valve on the tourniquet and inflate.
- Bleeding should stop when fully inflated.
- If bleeding does not stop, reposition junctional and try again.
- Fluid should come out of the pressure release valve when bleeding stops.

Packing Wound

- Pack the wound using the appropriate gauge and techniques required. Ensuring to apply pressure on the packed wound to prevent further bleeding.
- When the correct packing and pressure applied is optimal, the wound will stop bleeding, and blood will begin to drip from the release valve.

CAT Tourniquet Application

- Place the tourniquet around left leg/stump, approx. 2 inches above the stab wound.
- Pull the tourniquet band tightly and fasten it.
- Twist the windlass rod until the blood flow has fully stopped. Secure the rod inside the clip.
- If the bleeding does not stop fully, you can place another tourniquet above the first one or readjust positioning and try again.





Fluid Removal/Cleaning

- Once training is completed, it is essential to clean all residual fluid from the system. To accomplish this, empty the pump and introduce air into the circuit using the pressurised system. This will displace remaining fluid and prevent stagnation within the tubing and unit.
- Prepare a sterilising solution such as, Milton or similar sterilising fluid. Pass the solution through the entire fluid system to prevent the formation of mould.
- Conduct the same flushing and sterilisation process for all pathway options, ensuring that every section of the fluid pathway is thoroughly cleaned and sanitised.



- Once sterilisation is complete, introduce air again to ensure all internal components are dry.

Care and Maintenance

Store the product in the carry case provided ensuring clean, dry conditions away from heat and direct sunlight; avoid contact with metals, solvents, oils or greases and strong detergents. When the product is not in use, please store it in the black carrier case provided.

Clean the product with alcohol wipes or other alcohol based cleaner and gently wipe with a cloth. Do not scrub as it may cause the paint to wear. Make sure to completely dry the product before storing to prevent mold and fungal built-up. Mild detergents or enzymatic cleaning agents may be used on the product in accordance with the manufacturer's instructions and at the proper dilution. The detergent must not contain skin or mucous membrane irritants. We recommend using Milton sterilising fluid to remove any mould buildup within the tubes. Please do not use any of the following when cleaning the product: • Germicides, disinfectants, or chemical agents such as glutaraldehyde (e.g. Cidex®), • Ethylene oxide, phenol-based cleaners or iodine-containing cleaners.

In response to the recent COVID-19 pandemic, we recommend this additional step to ensure the product is fully sanitised: Use alcohol spray (minimum 75%) and wipe off. Repeat this for 3-4 times to ensure to kill the virus completely.

Warranty

TruCorp warrants this product to be free from defects in materials and workmanship, ensuring satisfactory performance for a period of three years from the date of delivery. This warranty provides customers with maximum coverage for each unit. If a product malfunctions and is confirmed to be defective under warranty, TruCorp will repair or replace it at no cost. However, the warranty is void if the unit shows signs of tampering, excessive heat exposure, damage from sharp instruments, improper use, or any conditions beyond TruCorp's control. Damage resulting from misuse is not covered and may incur additional charges.

Please direct all warranty and repair inquiries to:



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