RHINOQURE | PELVIC IMMOBILIZER



A NEW INNOVATION IN PELVIC IMMOBILIZER

Introducing RhinoQure™ Pelvic Immobilizer – a first-of-its-kind pelvic immobilizer envisioned for optimal effectiveness and convenience, wholly innovated and developed by a team of researchers from UKM (National University of Malaysia). Winner of the Malaysia Invention and Innovation Awards (MTE) 2008, this device brings a new edge to emergency care for pelvic injuries.

What makes this pelvic immobilizer unique is its patented design whereby the waist fastener can be easily folded down, enabling easy access for surgery.





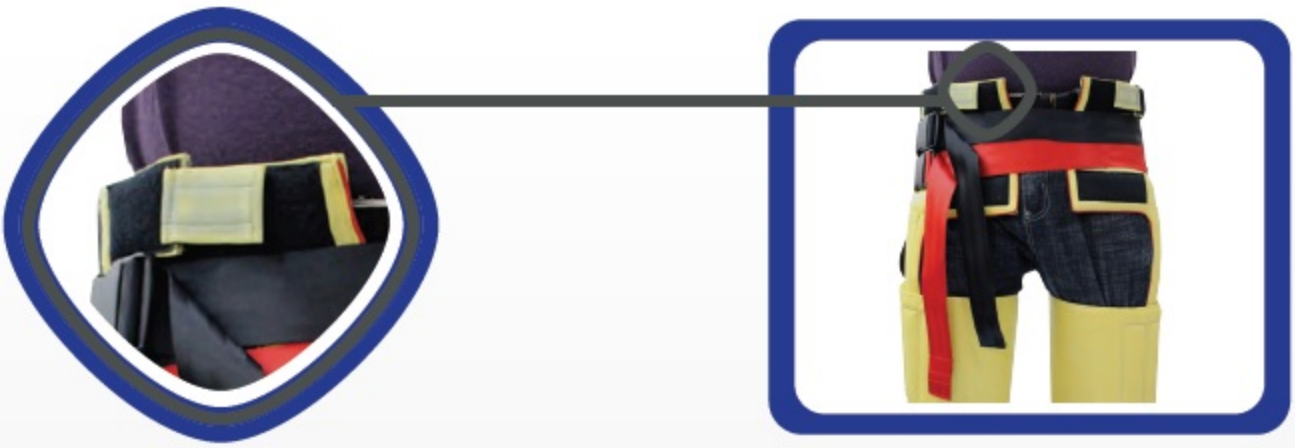
ABOUT RHINOQURE™

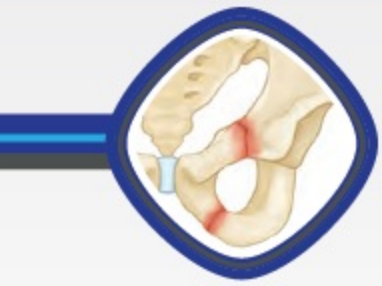
RhinoQure™ Pelvic Immobilizer is an external immobilization and stabilization device catered for patients with lower limb injuries such as open book pelvis fractures. It provides tamponade effect to the pelvis, hence reducing pelvic bleed. The device is designed for easy use – even paramedics with minimal training can apply the device with no hassle.



PATENTED FOLDABLE DESIGN: EASY SURGERY ACCESS

What makes RhinoQure™ unique is its patented design whereby the waist fastener can be easily folded down, enabling easy access for surgery. RhinoQure™ incorporates multiple openings or ports, therefore surgical procedures such as external fixation of pelvic bone and anglo-embolization do not require removal and unnecessary movement for patients. During such procedures, RhinoQure™ continues to stabilize the pelvis and arrest bleeding, while the lower limb extension acts as a splint in cases with multiple fractures.









IMPORTANCE OF PELVIC IMMOBILIZER

- According to statistics, pelvic injuries occur to approximately 1.55% of the population. Pelvic fractures can be fatal, as patients commonly succumb to uncontrollable hemorrhage.

- Presently, devices to treat pelvic injuries and lower limb fractures can at times be complicated for untrained personnel to use.

- Some devices are also too bulky for use in small ambulance compartments, causing high pressure load that can lead to skin breakdown.

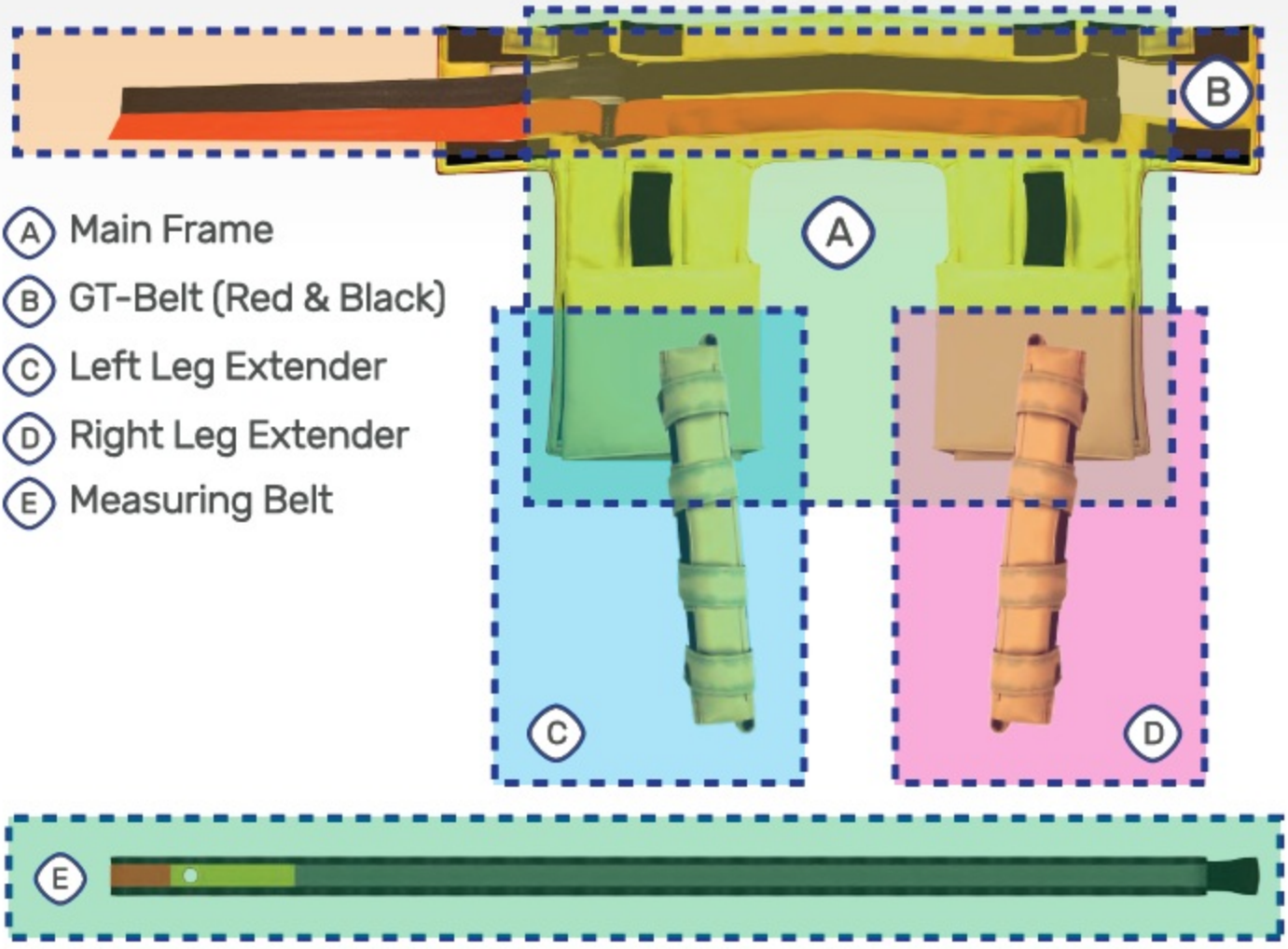
THIS IS WHERE RHINOQURE™ PELVIC IMMOBILIZER COMES IN - A BINDER THAT IS EASY TO APPLY, TOUGH AND ALLOWS FOR FLEXIBILITY FOR EMERGENCY SURGICAL PROCEDURES TO BE CARRIED OUT WITHOUT REMOVAL.

ADVANTAGES

- Allows access to the abdomen for surgery
- Opening area for external fixation and anglo-embolization
- Working areas for life-saving procedures
- Radio lucent
- Lightweight
- Washable
- Easy to apply
- Tough
- Flexible / non-rigid



RHINOQURE™ PELVIC IMMOBILIZER USAGE INSTRUCTIONS



PRE-USE

1. RhinoQure™ Pelvic Immobilizer contains 4 major components: Main Frame, Measuring Belt, Left and Right Leg Extender. Ensure that all components are in proper working condition before use.

2. Measure the distance between the patient's Greater Trochanter (GT) anteriorly using the color-coded Measuring Belt provided to choose the most suitable size. Measuring Belt is marked with the following color codes: A (Green), B (Yellow) and C (Red), corresponding to the color of the pelvic immobilizer.

3. Upon choosing the correct immobilizer, place the Main Frame on the spinal board approximate to the patient's pelvis. Remove the Leg Extenders out of the carrying bag only if there are suspected associated limb injuries.

USAGE INSTRUCTION

1 Transport patient to the spinal board with RhinoQure™ using a scoop-stretcher and place on top with the Main Frame.



Adjust position of the pelvic binder so that the Main Frame's proximal part corresponds to victim's iliac crest while the red GT-Belt is aligned to the patient's Greater Trochanter (GT) line.



Wrap the RhinoQure™ around the patient's pelvis, taking care to keep the GT-Belt aligned to patient's GT line.



Fasten the clips on the Red GT-Belt. If you wish to tighten the GT Belt, apply compression force to the patient's pelvic area first.



Fasten the clips on the Black Iliac-Belt and tighten it.



While tightening, approximate the working ends of A and B. This is followed by wrapping the thigh extender of the Main Frame to the victim's thigh.



Check the patient's distal limb neurovascular before and after applying RhinoQure™.

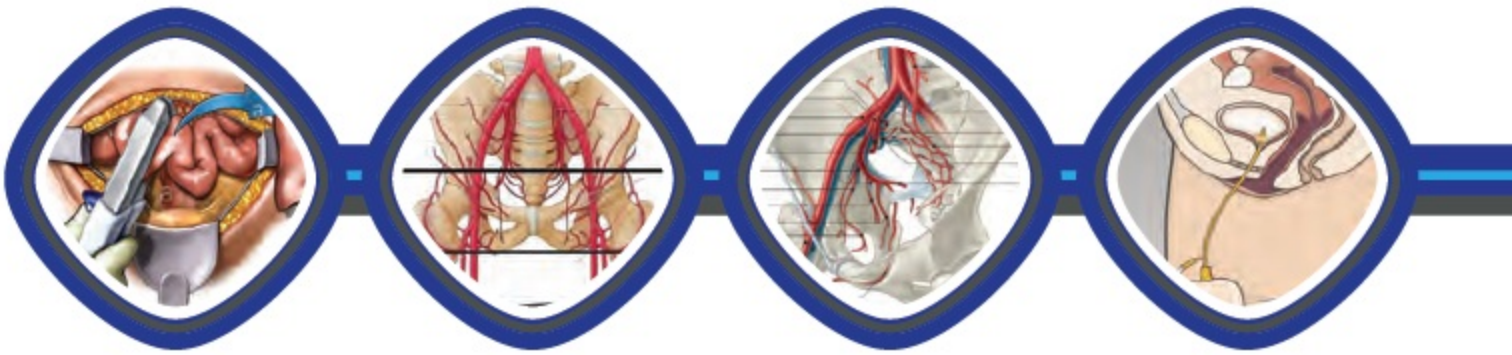
DURING SURGERY:

1. Laparotomy: Detach the roof of the external fixation port and fold it back bilaterally. Fold downwards the working end of section A and B and attach to the working ends base. This will increase access to the patient's abdomen down to the symphysis pubis level.

2. Angio-Embolization: Access to the blood vessel can be obtained without removing the RhinoQure™ Pelvic Immobilizer.

3. Pelvic External Fixation: Access to the Anterior Superior Iliac Spine (ASIS) can be done through the External Fixation Port.

4. Bladder catheterization: Access to the blood vessel can be obtained without removing the RhinoQure™ Pelvic Immobilizer. However, it is contraindicated to insert urinary catheter into any suspected urethral injury.



DISASSEMBLY

1. Unfasten both the thigh wraps.
2. Unfasten the Black Iliac Belt.
3. Unfasten the Red GT-Belt. The GT-Belt should always be last to be unfastened.
4. Ensure that RhinoQure™ Pelvic Immobilizer is removed only after the patient's pelvis has stabilized.

ABOUT TRINOVADE

TRINOVADE
LLP 0013414-LGN

RHINOQURE™ PELVIC IMMOBILIZER : A NEW INNOVATION IN PELVIC IMMOBILIZER

TRINOVADE is a startup company founded under the Malaysian Technology Development Corporation (MTDC)'s Symbiosis program, aimed at commercializing new innovations within the Malaysian technological sphere and grooming new local tech enterprises. Comprising a team of passionate entrepreneurs from diverse backgrounds, TRINOVADE aims to be a pioneer in delivering quality medical products to the local and international markets. The company's flagship product, RhinoQure™ Pelvic Immobilizer, is the result of five years of meticulous research and testing and promises to be the first of many game-changing innovations to come.

The successful introduction of RhinoQure™ Pelvic Immobilizer to the market is a result of collaboration between UKM (The National University of Malaysia) and TRINOVADE PLT.

OUR VISION

To become a leading name in the medical device supply chain, trusted for innovation and quality-driven products.

OUR MISSION

EXPERTISE

We aim to innovate and market high quality medical devices product and services, tested and approved by leading experts.

ELEVATION

We aspire to grow not just ourselves, but raise the bar for the entire Malaysian industry by creating medical devices of international standards.

EMPOWERMENT

We seek to inspire a new generation of local tech entrepreneurs and medical industry stakeholders, by showcasing Malaysian quality to the world.



TRINOVADE PLT

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