IVT Medical Ltd. is a medical device company specializing in research, design and development of novel wound healing technologies.

Our vision is to provide breakthrough, safe and effective, state-of-the-art, affordable technologies, to enhance wound healing and contribute to a better and more humane world.

IVT Medical Ltd. developed its first product, the TopClosure® Tension Relief System (TRS), an innovative- ingenious technology intended for management of simple and complex wounds for civil, military and mass-casualty injuries applications. Based on original basic science and vast clinical experience, IVT Medical Ltd. has developed the Vcare α®, a cutting edge non-pharmaceutical wound healing device, applying regulated oxygen-enriched and irrigation negative pressure-assisted wound treatment (ROI-NPT) for enhancing healing of complex, hard-to-heal wounds.

When applied simultaneously, the TopClosure® and the Vcare α®, provide unique, totally new concept of wound management that changes perceptions of wound closure in wide range of surgical applications, instituting new standards of care for optimizing wound healing with substantial global significance.

Global Medical Horizon

We strive to provide cost effective, medical innovative solutions and make them accessible to everyone.

Global Medical Horizon’s expertise is in tailored made business development, marketing and sales of the most inspiring advanced medical solutions in preventive medicine, emergency medicine and global epidemic challenges.

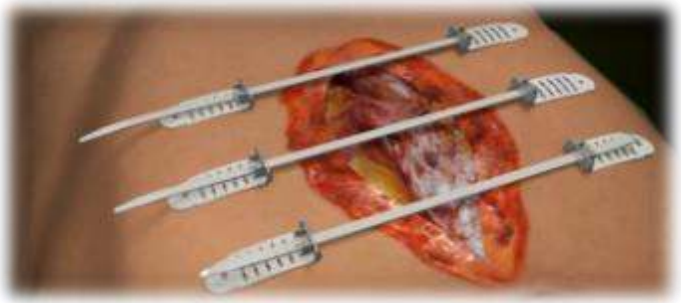
With our extensive experience dealing with governments, public and private medical sectors, we came to be one of the most respected names in the medical field today.

Our success is a result of our management inspiration, the skills and devotion of our People, the quality of our offerings and our focus on our customers’ needs.

Global Medical Horizon

TopClosure®

Tension Relief System (TRS)





Vcare α®



Global Medical Horizon

Vcare α®

Leading the way for enhanced wound healing by innovative, advanced, safe vacuum technologies

The Vcare α ®was designed to provide a pre-set regulated negative pressure to open wounds with the intent to minimize the risk of bleeding, focusing on patient's specific clinical needs. We put emphasis on research and clinical assessment while improving this technology to maximize its safety, functional efficacy and quality performance. The Vcare α® is equipped with specially designed user friendly software & electronics for bleeding detection and alarms control (complies with IEC-60601-1-8 standards) for better detection and control of bleeding.



Regulated Oxygen-enriched & Irrigation Negative Pressure-Assisted Wound Therapy (ROI-NPT)

is a breakthrough in wound treatment and is the most important non-pharmaceutical physical platform technology developed and applied for wound healing in the last two decades.

When properly applied, it is a simple and safe tool that can be utilized in a wide scope of conditions in surgery, orthopedics, plastic surgery, vascular surgery act. With reduced need for antibiotics & complicated surgical procedures.

Regulated Oxygen-enriched & Irrigation Negative Pressure-Assisted Wound Therapy (ROI-NPT) Applied by Vcare α®

- **Unique Bleeding Detection & Control Features:**
  - Monitors the filling rate of the canister and detects active bleeding
  - Stops and alarms when flow exceeds pre-determined flow rate (Default- 100 cc/hr)
- **Safety Oriented Operating System:**
  - Hazardous or undesired operation is limited according to the risk of bleeding determined by the care provider. The software pre-limits the vacuum level range, maximal flow and alarms settings
- **RO-NPT compatible:**
  - For control and treatment of anaerobic infection
- **External Vacuum Connection:**
  - Dual operation mode of internal pump and connection to an external vacuum source while maintaining complete control of treatment parameters



Regulated Oxygen-enriched & Irrigation Negative Pressure-Assisted Wound Therapy (ROI-NPT)

- **Applying ROI-NPT reduces wound's atmospheric pO_2 leading to wound's relative hypoxic conditions directly related to the applied negative pressure.**

- **ROI-NPT provides wound's environment with regulated enhanced pO_2 conditions that may reduce or eliminate anaerobic infection and accelerate wound healing.**



Regulated Oxygen-enriched & Irrigation Negative Pressure-Assisted Wound Therapy (ROI-NPT)

Wide indications for ROI-NPT:

- Chronic wounds
- Diabetic and PVD foot wounds
- Traumatic Wounds
- Dehisced surgical wounds
- Deep and partial-thickness small to medium burns
- Treatment of grafts and flaps
- Infected wounds

Regulated Negative Pressure-Assisted Wound Therapy (RNPT) Applied by *Vcare α®*

- Disposables:

  -Specially designed, low density, bi-layer sponge, fully compressible even under low negative pressure level

  - Easy to apply and seal

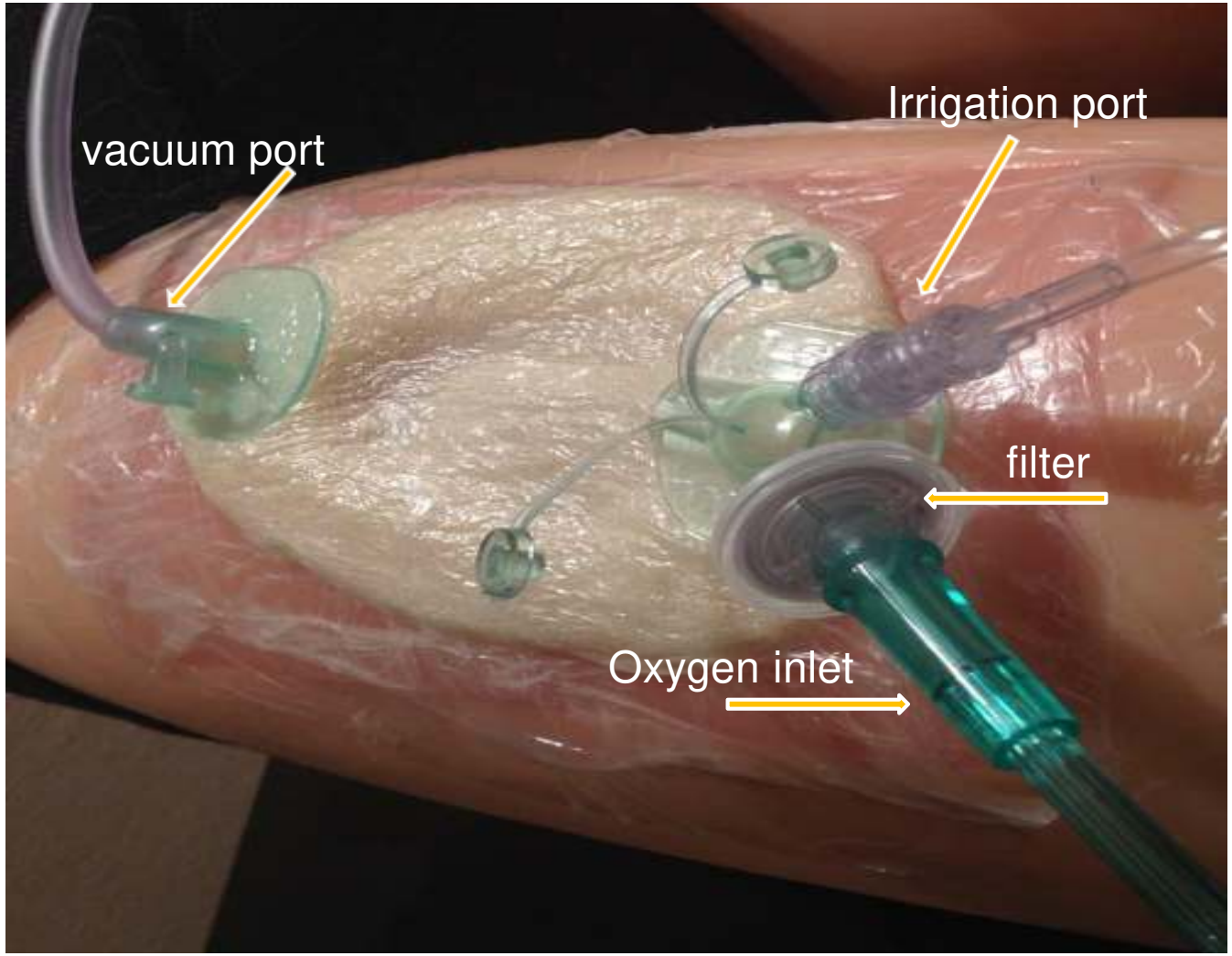
  - Available in various sizes to match wide range of wound sizes

  -Allows immediate visualization of bleeding and detection of gross infection through an off-white color sponge





Vcare α® Wound Dressing Kit (WDK) with irrigation system



Tracking of bleeding of an open abdomen in a newborn



Global Medical Horizon

TopClosure®

Tension Relief System (TRS)

Simple Solutions for Complex Problems

TopClosure® TRS may serve as an essential device for dynamic acute & chronic wound closure and secure in a broad range of applications. By its wide distribution of stress to the skin away from the wound edges, tension on the scar can be substantially reduced, thus enabling closure of extremely hard to close wounds and improving the quality and aesthetics of scar.

The TopClosure® System can be applied non-invasively by adherence to the skin, using a bio-compatible hypoallergenic tape, prior to or following surgery.



Closing a big wound gap is always a challenge

When primary closure would not be considered



Closing a big wound gap is always a challenge

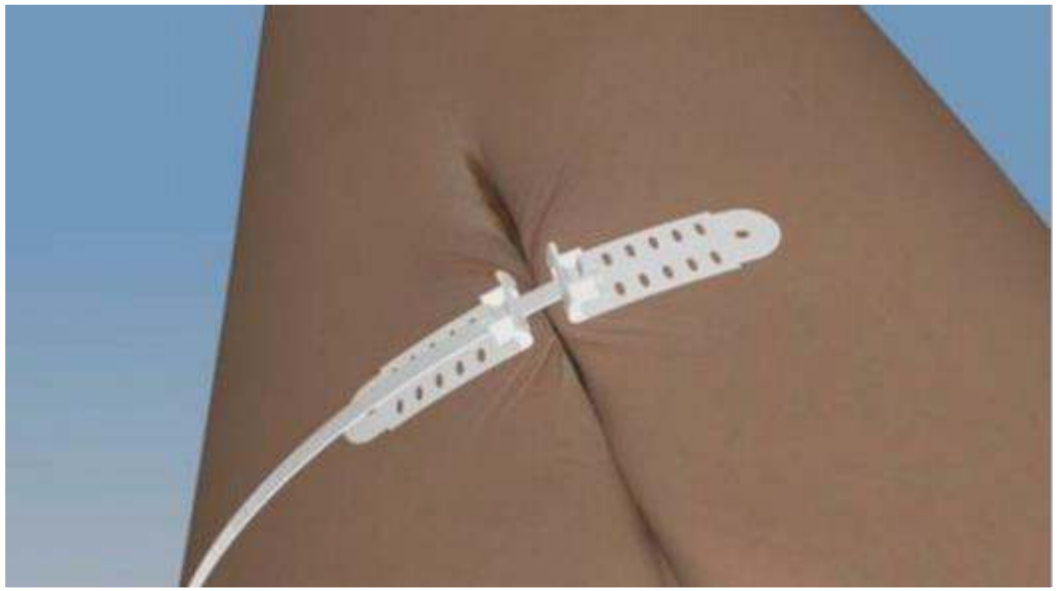
When primary closure would not be considered

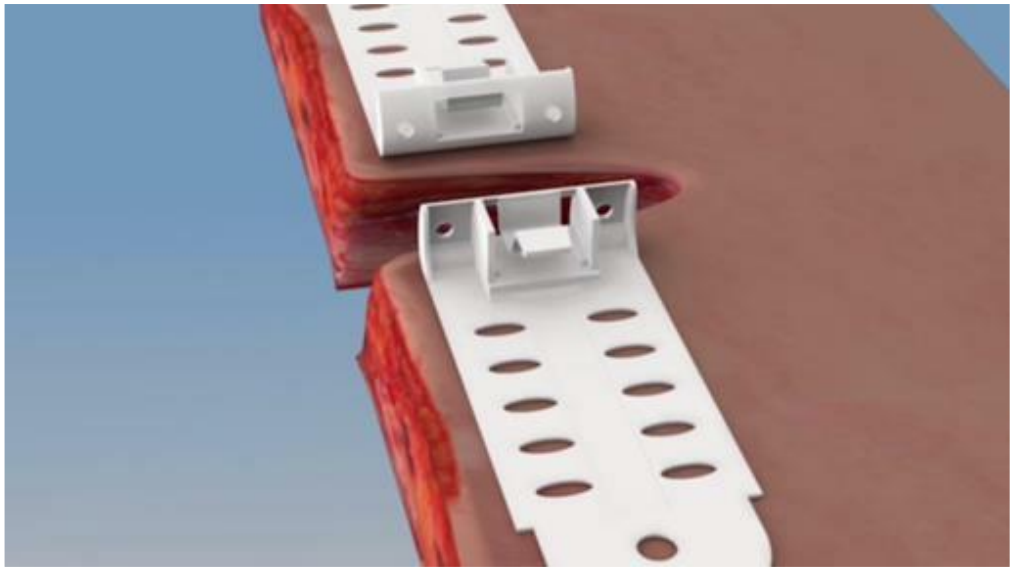


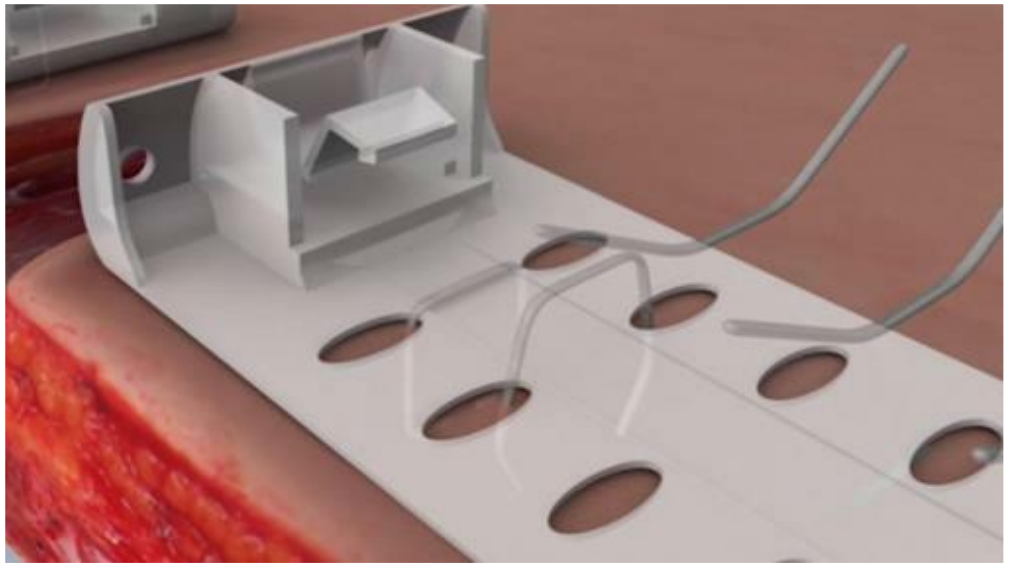


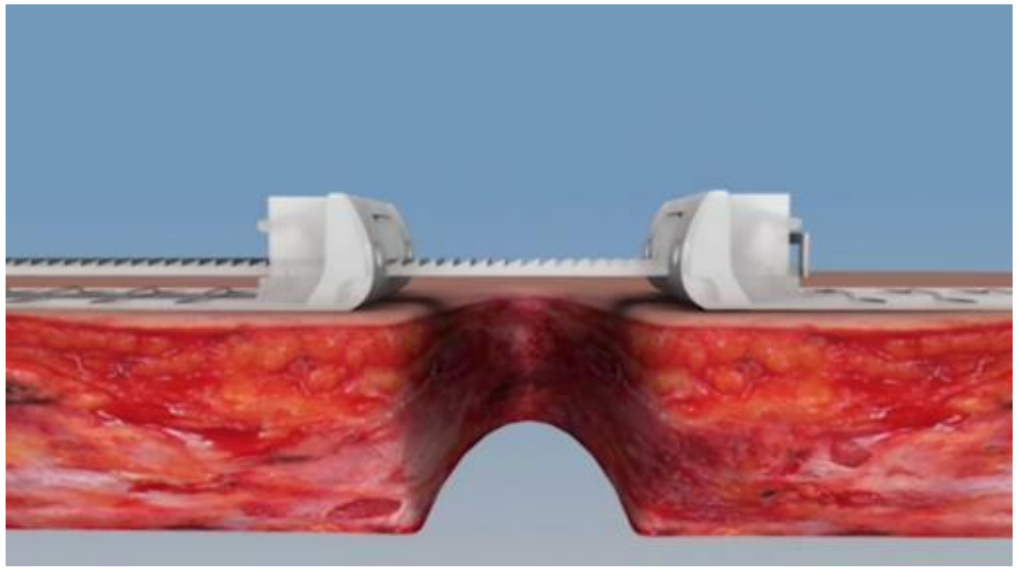


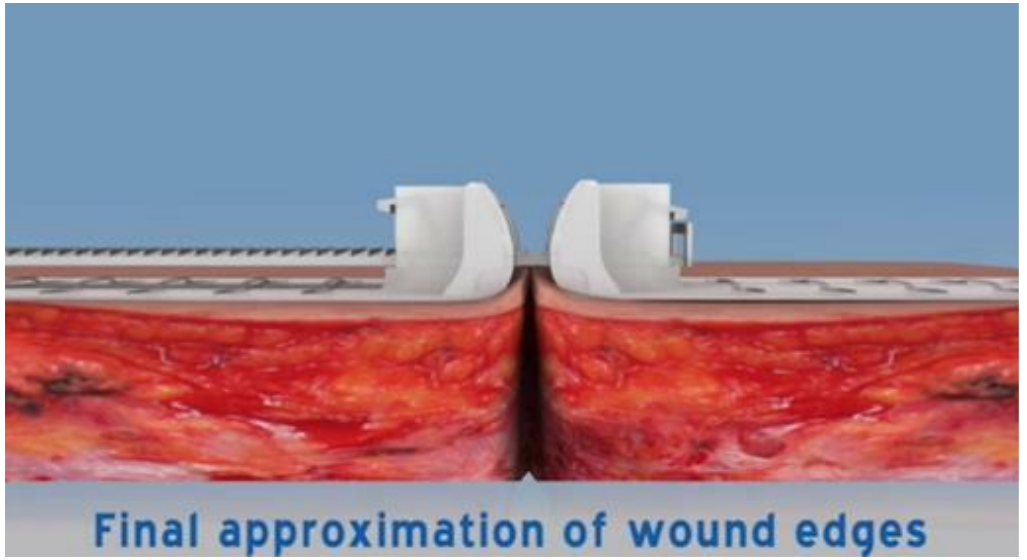

Gradual approximation










Final approximation of wound edges

Clinical Applications:

Skin Tumors

TRS Non- Invasive Skin Securing

Substitute for Skin Graft in elderly patients

Donor site morbidity is eliminated

Better quality wound coverage and scarring









TRS Non- Invasive Skin Stretching

Skin defect following excision of skin tumor. TopClosure® is applied for gradual stretching of the skin during surgery





TRS Non- Invasive Skin Stretching

Substituting for Skin Graft

Donor site morbidity is eliminated





TRS Skin Stretching

Better quality of wound coverage and scarring







Clinical Applications:

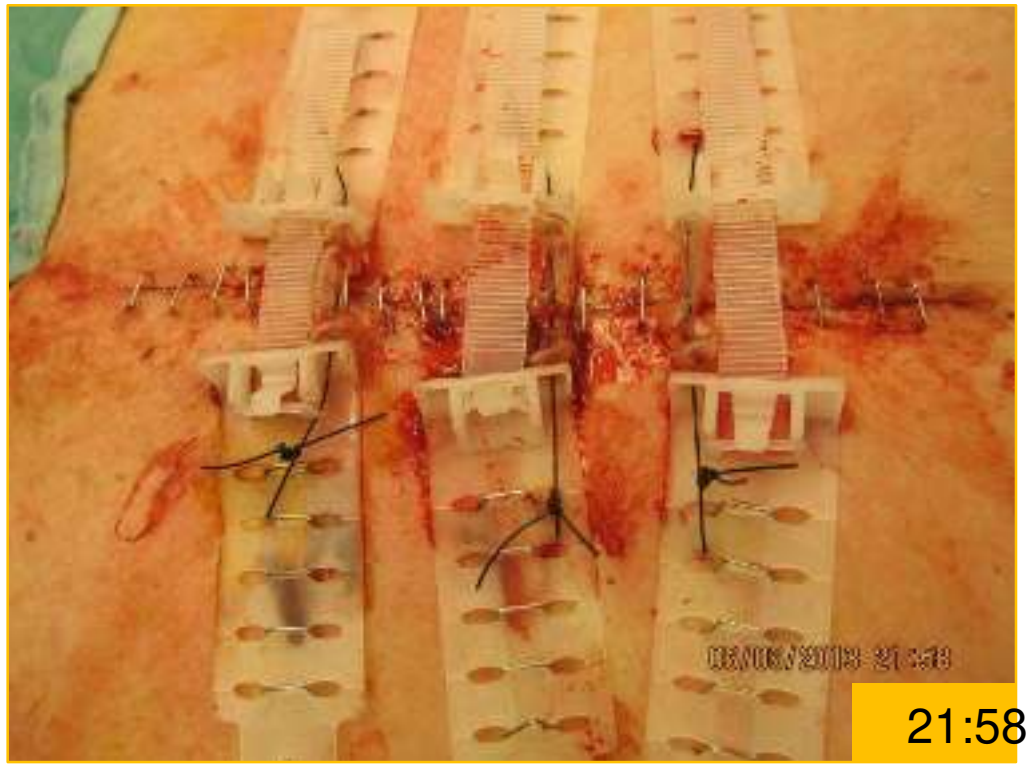
Major Tumor Resection





6.6.2013





Please note the time


PRESENT


PAST
03/08/2015 20:07

Closure of Giant Skin Defect

Wide Excision of Recurrent Skin Tumor

40 y/o female patient presented with a tumor on right shoulder, known for more than 10 years, increasing in size. It was excised twice, and skin grafting was performed once, more than one year ago, with known recurrence.

In previous physical exam, the tumor is mild and movable, not affecting the motion of shoulder joint.

However, in physical exam on arrival prior to surgery, a 26*18cm irregular firm and immobile tumor was noted, on the right shoulder, protruding 4 cm from the skin surface . Reticular varicose of the vein was visible on the tumor surface.

Pathological examination demonstrated an isolated fibrocyte tumor. Chemo radiotherapy was not performed after surgery. Familial inheritance was ruled out.





13.12.13

Substituting skin graft & flaps for primary closure by TRS in a giant skin defect

Wide Excision of Recurrent Skin Tumor



Closure of Giant Skin Defect

Immediate primary closure of huge skin defect by stress-relaxation





Closure of Giant Skin Defect

Immediate primary closure of huge skin defect by Stress-relaxation





POD=23

Closure of Giant Skin Defect





POD = 21 months

Clinical Applications:

Vascular Surgery


























11/07/2013 13:28


11/07/2013 13:29

Clinical Applications:

Diabetic Foot

TopClosure® System & RNPT in Diabetic Foot Treatment









TopClosure® System & RNPT in Diabetic Foot Treatment



Accelerated wound closure with improved functionality

TopClosure® System & RNPT in Diabetic Foot Treatment







Clinical Applications:

Elderly Patients

TRS in Non-Invasive Post-Operative Skin Stretching

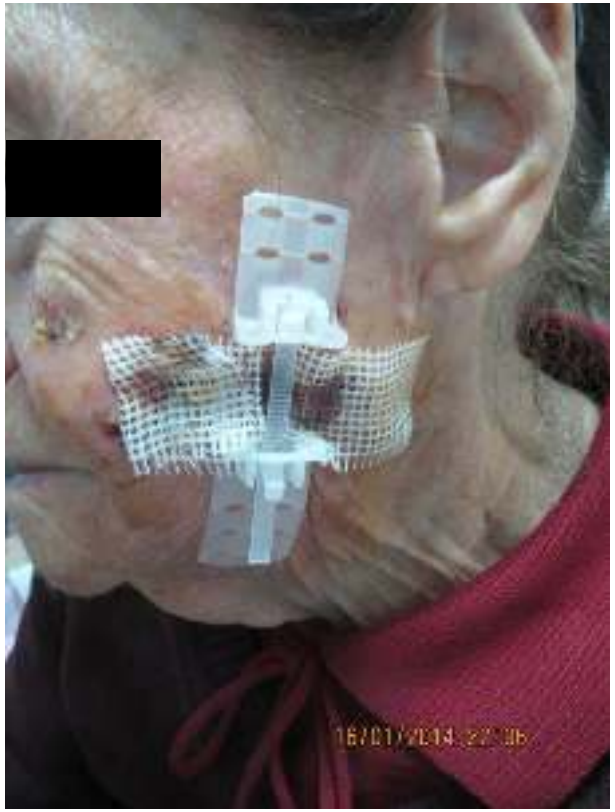






99 years old
Aspirin and Clopidrogel Treatment

TRS in Non-Invasive Post-Operative Skin Stretching





TRS in Non-Invasive Post-Operative Skin Stretching







TopClosure® TRS in Non-Invasive Post-Operative Skin Stretching





Clinical Applications:

Pediatric Patients

Closure of fasciotomy following snake bite





24.07.12

TopClosure®
Tension Relief System (TRS)

Global Medical Horizon

Closure of fasciotomy following snake bite









05.08.12

Clinical Applications:

Orthopedic and Trauma

TopClosure® - Treatment of crash injury





08.05.11

Treatment of crash injury TopClosure®





08.05.11

TopClosure® System TRS in Invasive Post Operative Skin Secure





Skin can be further approximated as a bedside procedure by mechanical creep





Clinical Applications:

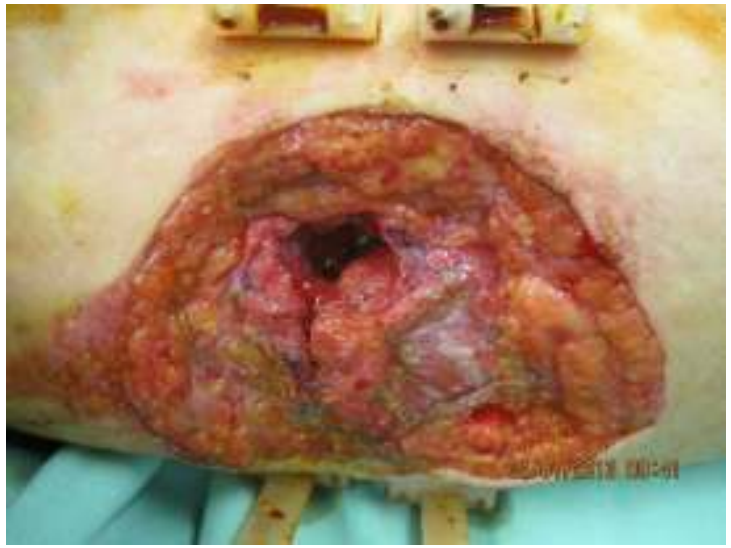
Combat Injuries

GUNSHOT WOUNDS – **DAY 0**



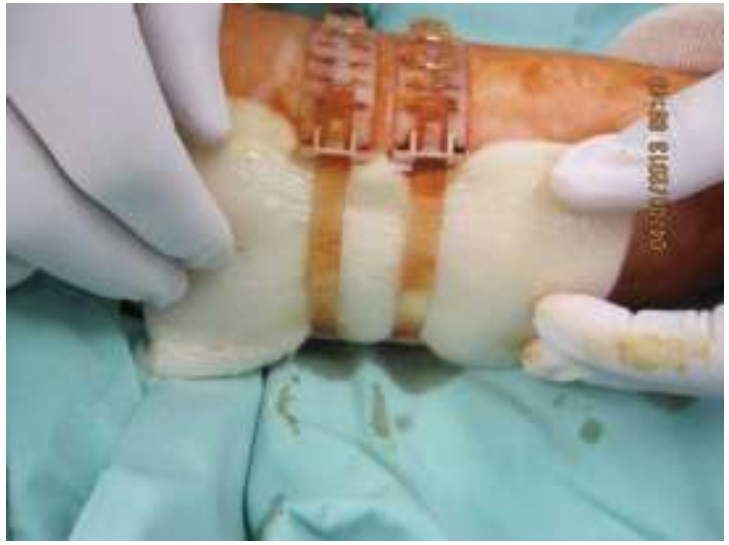


GUNSHOT WOUNDS – **DAY 2**









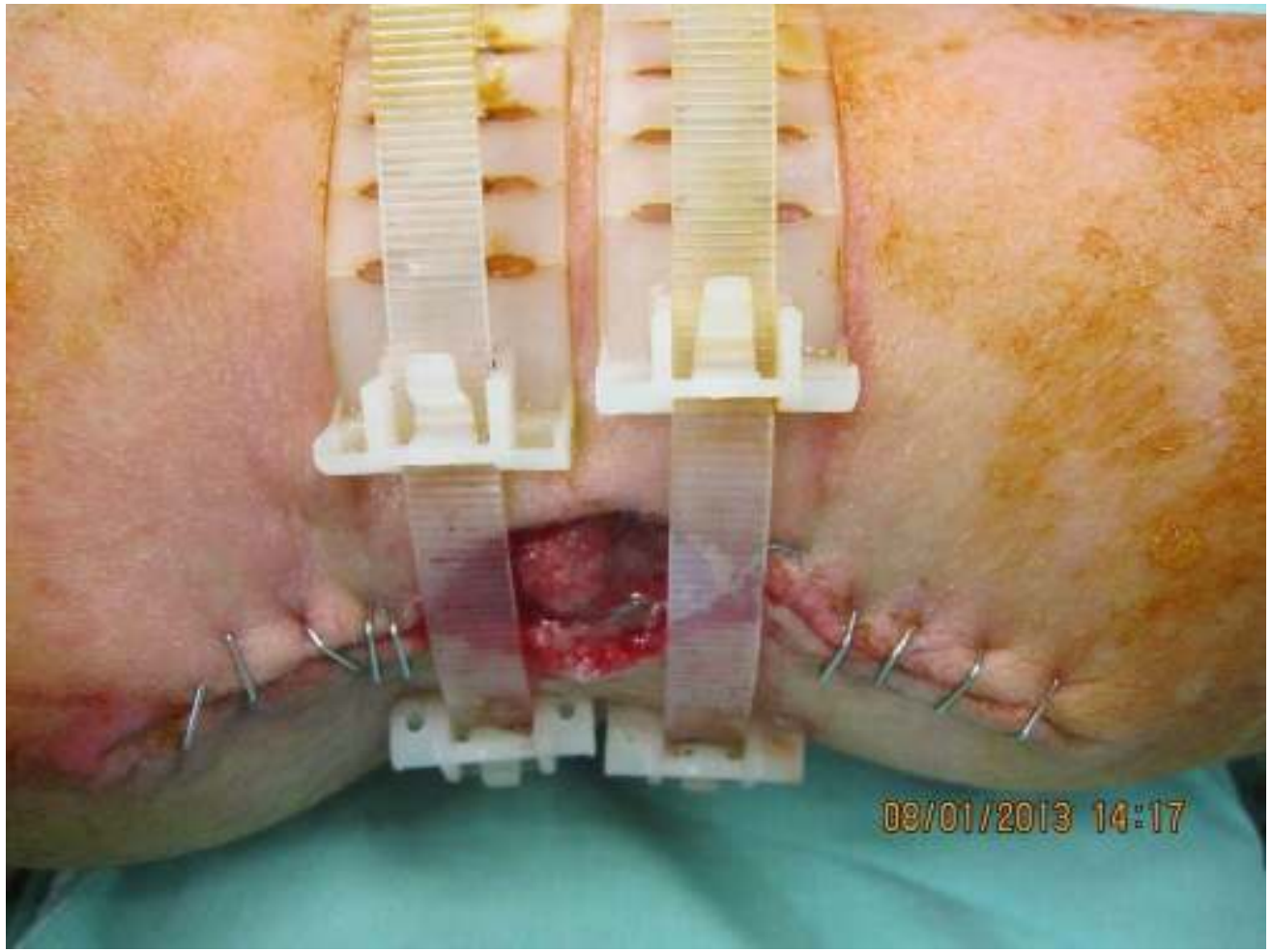
GUNSHOT WOUNDS – **DAY 4**







GUNSHOT WOUNDS – **DAY 6**



GUNSHOT WOUNDS – **DAY 9**





GUNSHOT WOUNDS – **DAY 12**









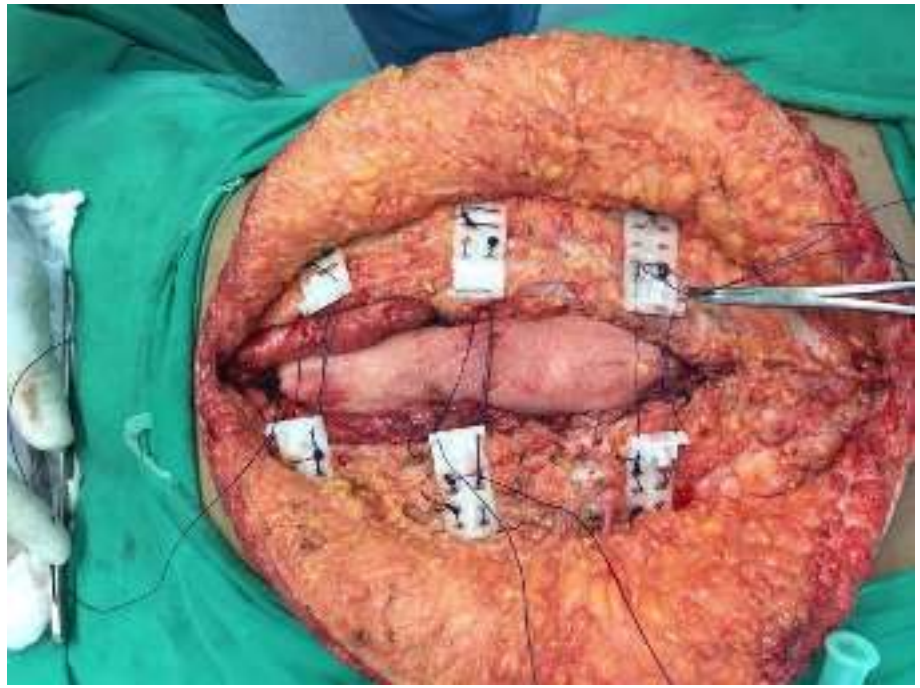
Clinical Applications:

Closure of Open Abdomen

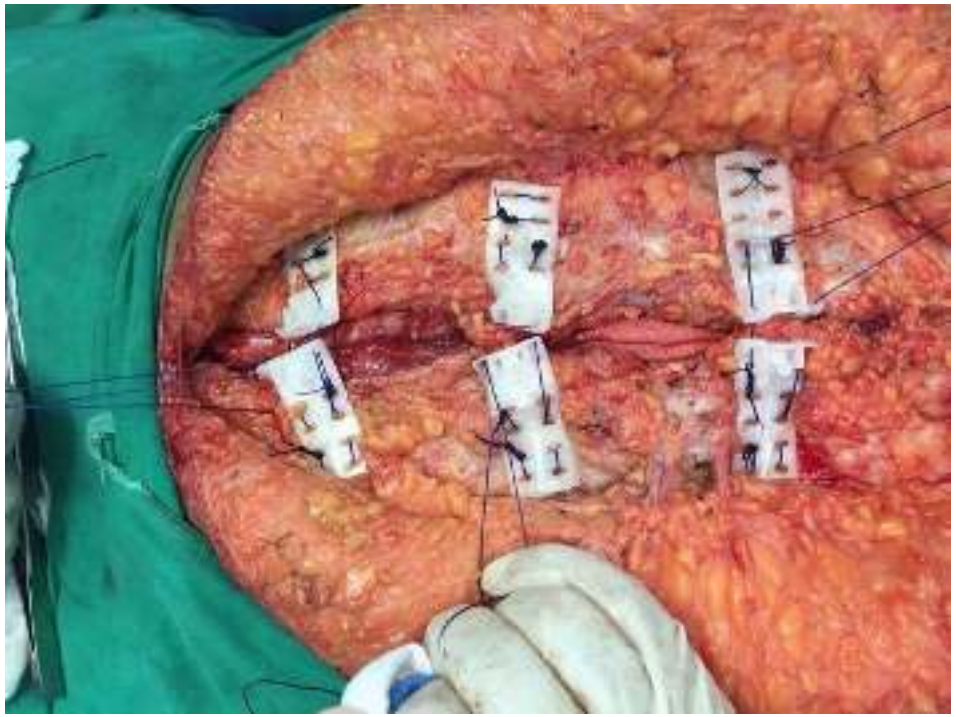
TopClosure® & ROI-NPT in Damage Control Consideration

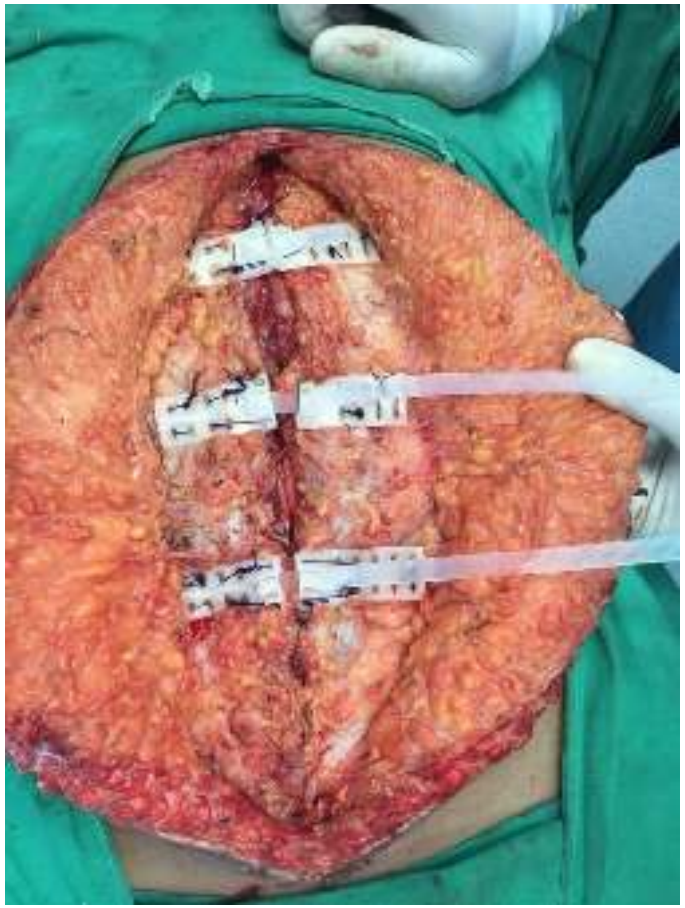
Approximation & Closure of Abdominal Fascia





Closure of Abdominal Fascia





Closure of Abdominal Wound



Clinical Applications:

Infected Sternal Wounds

Clinical Applications:

Aesthetic Applications

TRS in Non-Invasive Post-Operative Skin Stretching









Products:

Item	Specifications	Image
TopClosure® TRS 1S **Clinic** Pack, 8mm (coded grey)	Clinic Pack includes two flexible semi-transparent attachment plates with non-toxic hypo-allergenic adhesive tape on its undersurface, one approximation strap (of distinct sizes) and two patches of hypo-allergenic transparent adhesive tape. Clinic Pack is provided in a sterile, color coded packaging of 8 and 4 mm.	
TopClosure® TRS 1S **Clinic** Pack, 4mm (coded pink)		
TopClosure® TRS 3S **Hospital** Pack, 8mm (coded grey)	Pack includes 3 sets of TopClosure® TRS with additional extra two flexible semi-transparent attachment plates with non-toxic hypo-allergenic adhesive tapes on its undersurface and two approximation straps (of distinct sizes); Hospital Pack is provided in a sterile color coded packaging of 8,6 and 4 mm.	
TopClosure® TRS 3S **Hospital** Pack, 6mm (coded green)		
TopClosure® TRS 3S **Hospital** Pack, 4mm (coded pink)		

Products:

Item	Specifications	Image
TopClosure® TRS 1S-AD **First-Aid** Kit, 8mm (coded grey)	First -Aid Kit includes two flexible semi-transparent attachment plates with non-toxic hypo-allergenic adhesive tapes on its undersurface, one approximation strap (of distinct sizes), two patches of hypo-allergenic transparent adhesive tape and one liquid adhesive ampoule. First Aid Pack is provided in a sterile, color coded packaging of 8 and 4 mm.	
TopClosure® TRS 1S-AD **First-Aid** Kit, 4mm (coded pink)		
TopClosure® TRS 1S-M **Rescue** Kit, 8mm (coded grey)	Rescue Kit is provided in a waterproof, durable packaging to comply with extreme rescue needs in the civilian scenarios. The Rescue Kit includes two flexible semi-transparent attachment plates with non-toxic hypo-allergenic adhesive tapes on its undersurface, one approximation strap, two patches of hypo-allergenic transparent adhesive tape and one liquid adhesive ampoule. The Rescue Kit is provided in a sterile, color coded packaging of 8 mm.	

Products:

Item	Specifications	Image
TopClosure® TRS 1S-M Emergency Kit, 8mm (coded grey)	Emergency Kit is provided in a waterproof, durable packaging to comply with civilian emergency scenarios. The Emergency Kit includes two flexible semi-transparent attachment plates with non-toxic hypo-allergenic adhesive tapes on its undersurface, one approximation strap, two patches of hypo-allergenic transparent adhesive tape, one liquid adhesive ampoule and one soluble hemostatic gauze. The Emergency Kit is provided in a sterile, color coded packaging of 8 mm.	
TopClosure® TRS 1S-M Military Kit, 8mm (coded grey)	Military Kit is provided in a custom made (waterproof, durable) packaging. The Military Kit includes two flexible semi-transparent attachment plates with non-toxic hypo-allergenic adhesive tapes on its undersurface, one approximation strap, two patches of hypo-allergenic transparent adhesive tape, one liquid adhesive ampoule (with customized adhesive strength) and optional hemostatic gauze. The Military Kit is provided in a sterile, color coded packaging of 8 mm.	

Products:

Item	Specifications	Image
TopClosure® TRS 1S-VET **Veterinary** Pack, 8mm (coded grey)	Veterinary Pack includes two flexible semi-transparent attachment plates and one approximation strap. Veterinary Pack is provided in a sterile, color coded packaging of 8 mm.	
TopClosure® TRS 5S-VET **Veterinary** Pack, 8mm (coded grey)	Veterinary Pack includes ten flexible semi-transparent attachment plates and seven approximation straps. Veterinary Pack is provided in a sterile, color coded packaging of 8 mm.	

Vcare α®

ROI-NPT

Regulated Oxygen & Irrigation Negative Pressure wound Therapy system

For enhanced wound Healing

Global Medical Horizon

Products:

Item	Specifications	Image
Vcare α®	Regulated Negative Pressure Wound Therapy Device	
Vcare α® mobile stand	The Vcare α® designated mobile stand includes a platform for the positioning of the Vcare α® device, top and lower basket, a carrying handle, infusion rod and a battery holder	

Vcare α

ROI-NPT

Regulated Oxygen & Irrigation Negative Pressure wound Therapy system

For enhanced wound Healing

Global Medical Horizon

Products:

Item	Specifications	Image
Wound Dressing Kit 40X45	40 cm X 45 cm X 9 mm PU sponge with two distal connecting tubes 500 mm long and two drapes secure adapters	 
Wound Dressing Kit 20X30	20 cm X 30 cm X 9 mm PU sponge with distal connecting tube 500 mm long and drape secure adapter	
Wound Dressing Kit 15X20	15 cm X 20 cm X 9 mm PU sponge with distal connecting tube 500 mm long and drape secure adapter	
Wound Dressing Kit 10X20	10 cm X 20 cm X 9 mm PU sponge with distal connecting tube 500 mm long and drape secure adapter	
Wound Dressing Kit 10X10	10 cm X 10 cm X 9 mm PU sponge with distal connecting tube 500 mm long and drape secure adapter	

Vcare α

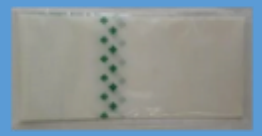
ROI-NPT

Regulated Oxygen & Irrigation Negative Pressure wound Therapy system

For enhanced wound Healing

Global Medical Horizon

Products:

Item	Specifications	Image
Hose adapter accessory kit	Hose adapter accessory kit includes: Hose adapter with distal connecting tube 500 mm long	
Irrigation hose adapter accessory kit	Irrigation hose adapter accessory kit includes: luer lock ports adapter and luer lock 0.2µm filter	
Drape accessory kit	Drape accessory kit includes: 5 drape strips 8 cm X 38 cm	
Disposable canister with a Proximal Connecting Tube	800 ml volume canister with a proximal connecting tube 1.7 m long	

The advantages of the TopClosure® TRS as an external skin stretching system:

1. The application of both; acute intraoperative stress-relaxation and pre- and post-operative mechanical creep for high and low tension wound closure, respectively.
2. It serves as a topical tension-relief platform for tension sutures (TS).
3. Extensive undermining of the skin edges and adjacent tissue can be avoided to improve blood supply.
4. Avoidance of undermining eliminates dead space, hematoma formation, the need for drainage, and reduce the risk of infection.
5. Skin can be further approximated as a bedside procedure by mechanical creep.
6. Most procedures can be performed under local anesthesia.
7. Donor site morbidity can be eliminated.
8. Surgical technique is simplified and hospital stay can be reduced.
9. Accelerated wound closure with improved functionality
10. Reducing the need for skin grafting and flaps.
11. Downgrading surgical complexity and morbidity.
12. Better quality wound coverage and scarring .

TopClosure® & Vcare α®

for the optimization of wound healing

Changing The Standards of Wound Care

- The TopRelief® Tension Reduction System (TRS) enables an optimal utilization of the viscoelastic properties of the skin by both mechanisms of skin stretching: Stress relaxation & mechanical creep

- Combining RO-NPT and TRS provides a totally new concept of wound management that changes our perception of wound closure instituting new standards of care for optimizing wound healing

TopClosure®

Tension Relief System (TRS)

For early wound closure

Global Medical Horizon

TopClosure

- Changing the standard of care in the closure of small to medium size wounds. Primary closure versus skin grafts and flaps.
- The TopClosure as an aid for wound approximation for prevention and treatment of surgical wound dehiscence (following abdominoplasty, breast reduction, breast reconstruction etc.).
- TopClosure as an essential wound closure tool in the clinic surgical setup.
- Primary trauma wound treatment by early wound approximation.
- Application of TopClosure as an external tissue expander as a substitute to the conventional internal tissue expander.
- The TopClosure surgery in the pediatric applications for early treatment of congenital malformation (Congenital nevi, giant hemangioma etc.).
- The TopClosure as a key tool in first aid kits (for home, voyages, EMS, combat, all naval vessels).

Vcare α

ROI-NPT

Regulated Oxygen & Irrigation Negative Pressure wound Therapy system

For enhanced wound Healing

Global Medical Horizon

Vcareα in ROI-NPT

- Safer application following trauma, postoperative and in patients who have been administered anticoagulants or platelet aggregation inhibitors therapy.
- Safety oriented operating program.
- Compatible with local oxygen therapy (ROI-NPT)
- Compatible with site infection treatment wound irrigation (CITA-ROI-NPT)
- Long uninterrupted operation applying wall-suction pump.
- Semitransparent dressing for early detection of bleeding and infection.
- Outer fluid non-permeable layer for ease of use and greater versatile application.
- Ability to treat heavily infected wounds (including necrotizing fasciitis, osteomyelitis

TopClosure®

Tension Relief System (TRS)

For early wound closure

Vcare α®

ROI-NPT

Regulated Oxygen & Irrigation Negative Pressure wound Therapy system

For enhanced wound Healing

Global Medical Horizon

TopClosure & Vcare α Synergistic Applications

- Immediate or early delayed wound closure in:
- Major trauma wounds
- Necrotizing fasciitis
- Open Abdomen in; damage control trauma surgery, post-surgery, congenital anomalies.
- Infected sternal wounds following cardiac surgery
- Infected surgical implants

Global Medical Horizon

Simple Solution for Complex Problems

Vcare α®

ROI-NPT

Regulated Oxygen & Irrigation Negative Pressure wound Therapy system

For enhanced wound Healing

www.vcarealpha.com

TopClosure®

Tension Relief System (TRS)

For early wound closure

www.topclosure.com

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