# SAN GHEST SEAL TRAINING

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# WHY WE NEED CHEST SEALS

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**Open chest wounds, specifically Tension** Pneumothorax are the leading cause of potentially survivable battlefield deaths.



# WHAT IS AN OPEN CHEST WOUND?

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**A Open chest wounds, specifically Tension** Pneumothorax, are the leading cause of potentially survivable battlefield deaths. A valved chest seal should cover and protect the open chest wound while not preventing potentially lethal pressure from escaping the pleural space.

1. Eastridge BJ, Mabry RL, Seguin P, Cantrell J, Tops T, Uribe P, Mallett O, Zubko T, Oetjen-Gerdes L, Rasmussen TE, Butler FK, Kotwal RS, Holcomb JB, Wade C, Champion H, Lawnick M, Moores L, Blackbourne LH. Death on the battlefield (2001-2011): implications for the future of combat casualty care. J Trauma Acute Care Surg. 2012 Dec;73(6 Suppl 5):S431-7.

2. Holcomb JB, McMullin NR, Pearse L, et al. Causes of Death in U.S. Special Operations Forces in the Global War on Terrorism: 2001–2004. Annals of Surgery. 2007;245(6):986-991.



# SAN CHEST SEAL

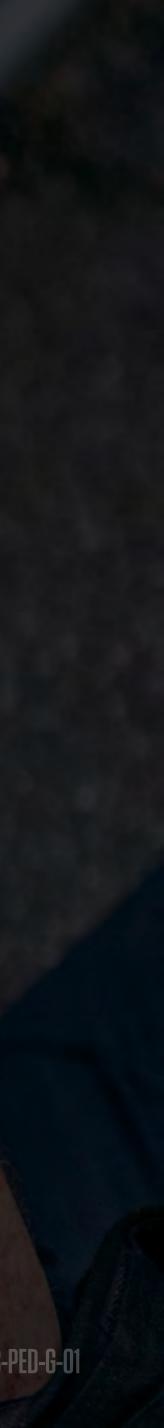
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# <u>https://www.youtube.com/watch?v=H4RRmzjrsB0</u>

# ENGINEERED TO PRESERVE LIFE

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# LIFE









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## **TRUFLOW<sup>™</sup> VALVE**\*

Is composed of a reinforced dome which protects the chest wound and the internal one-way valve from external forces allowing air to flow from the chest cavity and preventing air ingress into the chest cavity.

\*Does not come with non-valved version



## <u>https://www.youtube.com/watch?time\_continue=2&v=IV17aBtQsIg</u>

### **FORTIFIED GEL**

Strong Hydrogel tightly adheres to the chest wall in the presence of blood, hair, sweat or sand. And if necessary allows lifting and re-application while maintaining superior adherence.



### **REVERSE SIDE**



## THIN EDGE LAYER

The thin edge layer resists lifting or peeling, maintaining a formidable seal







Optimized for night vision, the packaging, pouch, dressing backing, and tabs provide ideal contrast for visibility in normal light, low light, and night conditions (using a night vision device).







## **OVAL SEAL**

Larger than other dressings, its oval shape maximizes the surface area of the seal, and its transparency, elasticity and conformability ensure effective adhesion.







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## **DUAL APPLICATION TABS**

Tabs facilitate the proper placement and removal of adhesive seal, with the ability to vent and reseal.



## **PEEL / TEAR PACKAGING**

Quickly and easily open SAM<sup>®</sup> Chest Seal packaging by peeling from its tabs or tearing along the chevron-marked areas.

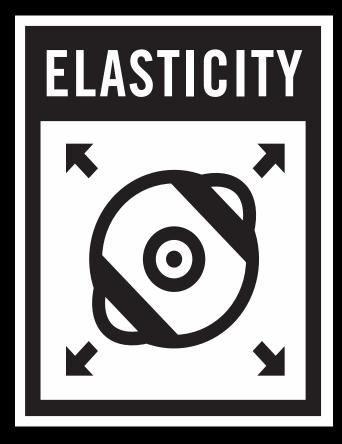






# **ENGINEERED TO PRESERVE LIFE**





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## ELASTICITY

Flexible polyurethane film allows the SAM Chest Seal to stretch and contract with normal respiratory movements, greatly improving adherence to the chest wall.



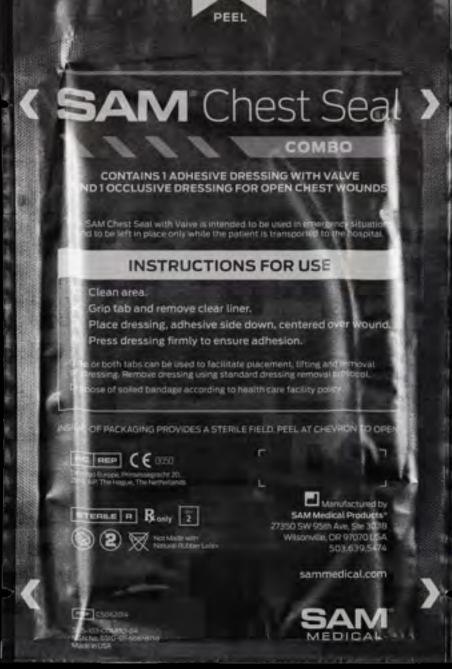
# FOUR CONFIGURATIONS

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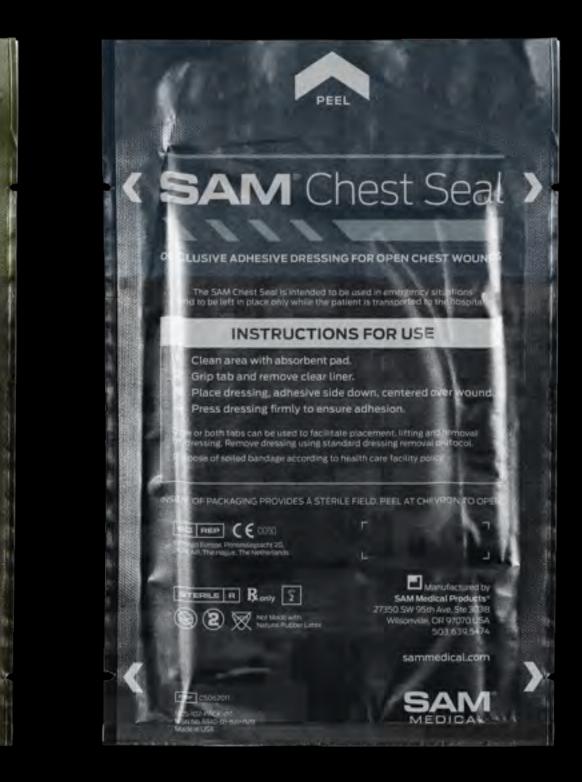


### **VALVE 2.0**



### сомво

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### WITH VALVE

### **NON-VALVED**





# COMBO



# SAM Chest Seal >

LUSIVE ADHESIVE DRESSING FOR OPEN CHEST WOUN

The SAM Chest Seal is intended to be used in emergency to be left in place only while the patient is transported to

### INSTRUCTIONS FOR USE

PEEL

Clean area with absorbent pad. Grip tab and remove clear liner. lace dressing, adhesive side down, centered Press dressing firmly to ensure adhesion.

r both tabs can be used to facilitate placement, liftin ssing. Remove dressing using standard dressing rem e of soiled bandage according to health care facility p

OF PACKAGING PROVIDES A STERILE FIELD. PEEL AT CH

REP ( € 0050 iope, Prinsessingracht 20, W Haque, The Netherlands

2 Ret Made with Natural Rubber Laters





# VALVED 2.0

### SAM Chest Seal > VALVED 2.0 SIVE DRESSING WITH VALVE FOR OPEN CHEST WOUND M Chest Seal with Valve is intended to be used in emergence o be left in place only while the patient is transported to the INSTRUCTIONS FOR USE Clean area. Srip tab and remove clear liner. Place dressing, adhesive side down, centered over wo ress dressing firmly to ensure adhesion. r both tabs can be used to facilitate placement, lifting and the ssing. Remove dressing using standard dressing removal of the stand e of solled bandage according to health care facility po F PACKAGING PROVIDES A STERILE FIELD. PEEL AT CHE REP CE 0050 ope. Priminsinglacht 20, & Hague, The Netherlands

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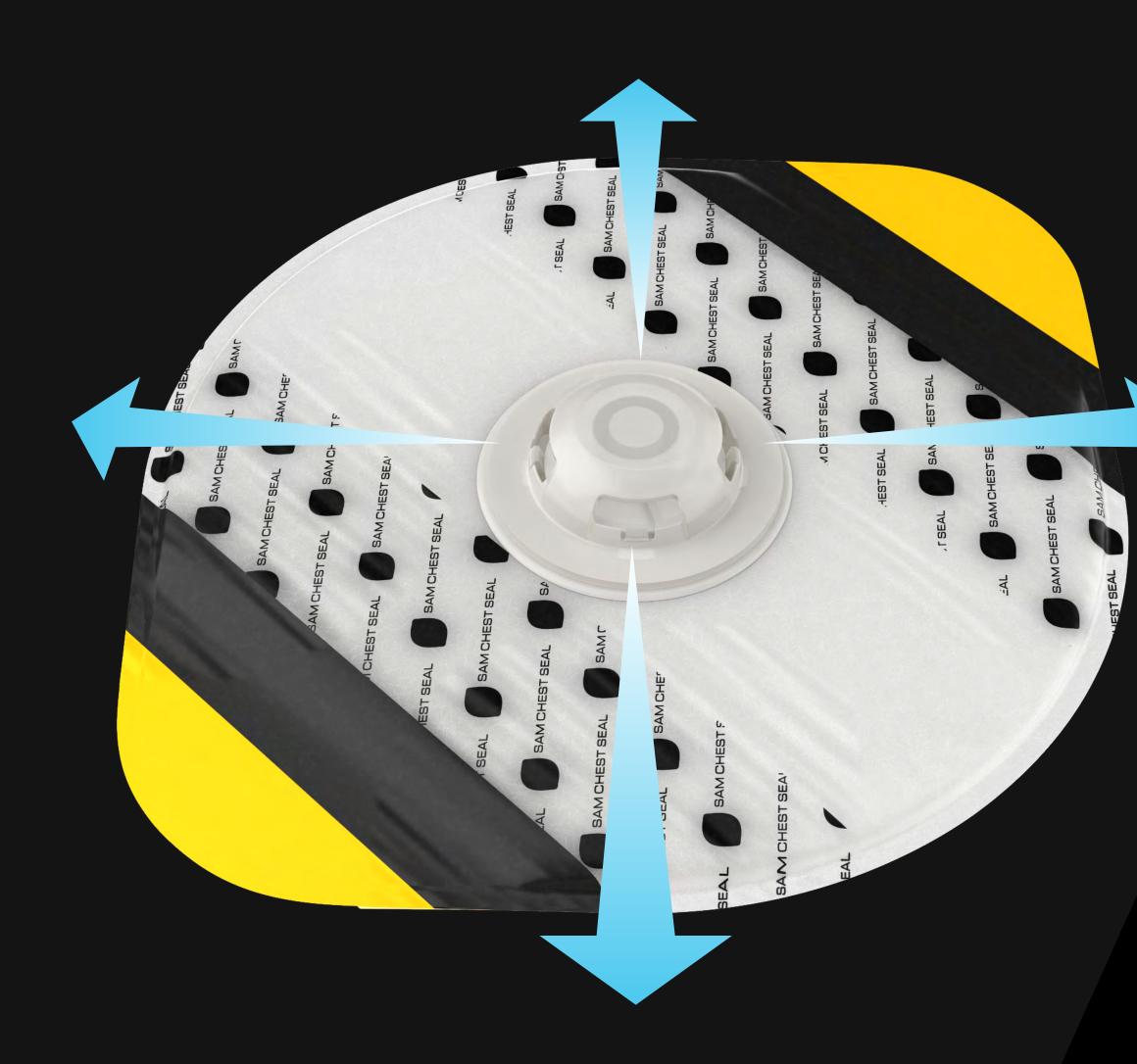
# WHY SAM GHEST SEAL?



SAM<sup>®</sup> Chest Seal is engineered to treat, seal, and reseal open chest wounds under most circumstances. After simple and quick application, SAM<sup>®</sup> Chest Seal sticks relentlessly - through extreme heat or cold, no matter the elements. Meets CoTCC-preferred features.



# **CHEST SEAL?**









# WHY SAM CHEST SEAL?



## **STERILE SEAL**

Minimize further contamination of the wound



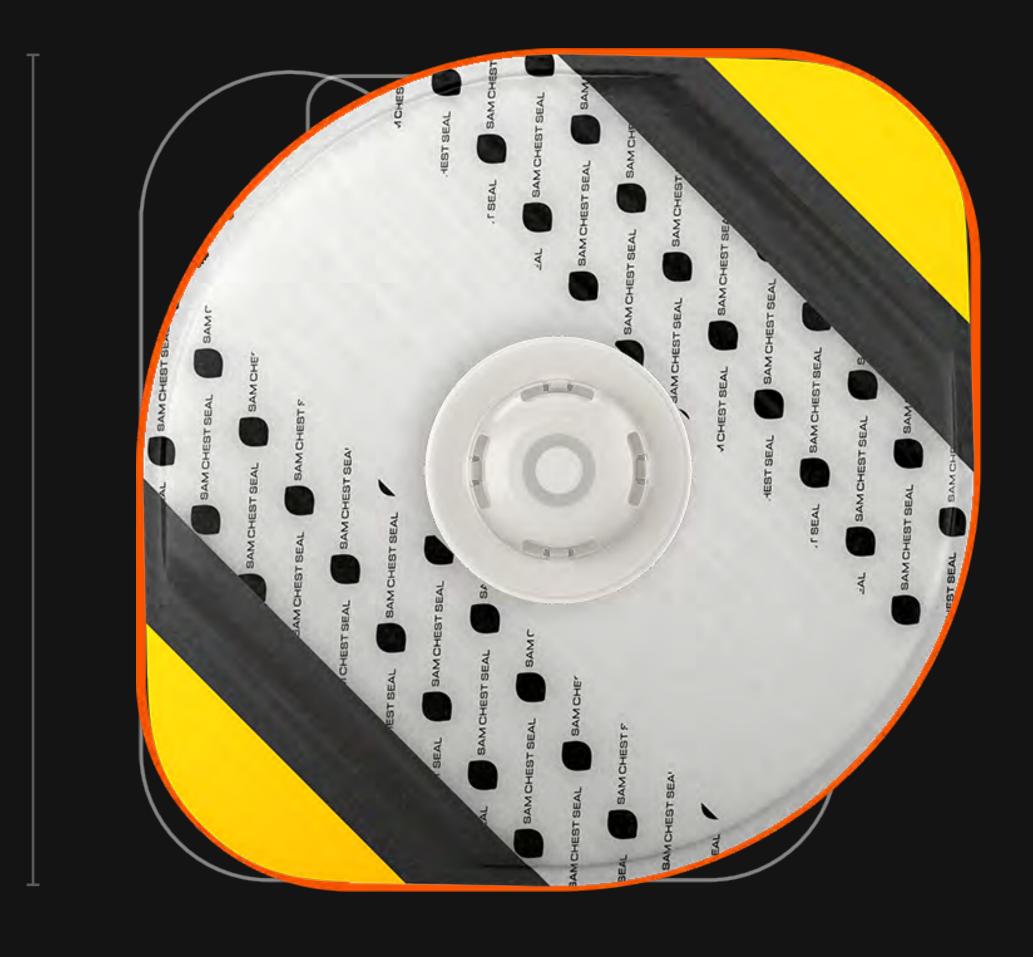
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## FORTIFIED GEL

Strong Hydrogel adheres in the presence of blood, hair, sweat and sand, or when submersed in water.



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## LARGE OVAL SIZE

Larger than other dressings, its oval shape maximizes the surface area of the seal, and its transparency, elasticity and conformability ensure effective adhesion.





# SAM CHEST SEAL?



### **NIGHT VISION OPTIMIZED**

Optimized for night vision, the packaging, pouch, dressing backing, and tabs provide ideal contrast for visibility in normal light, low light, and night conditions (using a night vision device).







## **6-YEAR SHELF LIFE**

Industry-leading shelf life ensures SAM® Chest Seal is always ready when you need it.



# **CHEST SEAL?**







# SAN CHEST SEAL APPLICATION

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# COMBO



### <u>https://www.youtube.com/watch?v=y1loq\_cklmM</u>



COMBO

CONTAINS 1 ADHESIVE DRESSING WITH VALVE HID 1 DOCLUSIVE DRESSING FOR OPEN CHEST WOUNDS

PEEL

INSTRUCTIONS FOR USE

SAM



### STEP 1

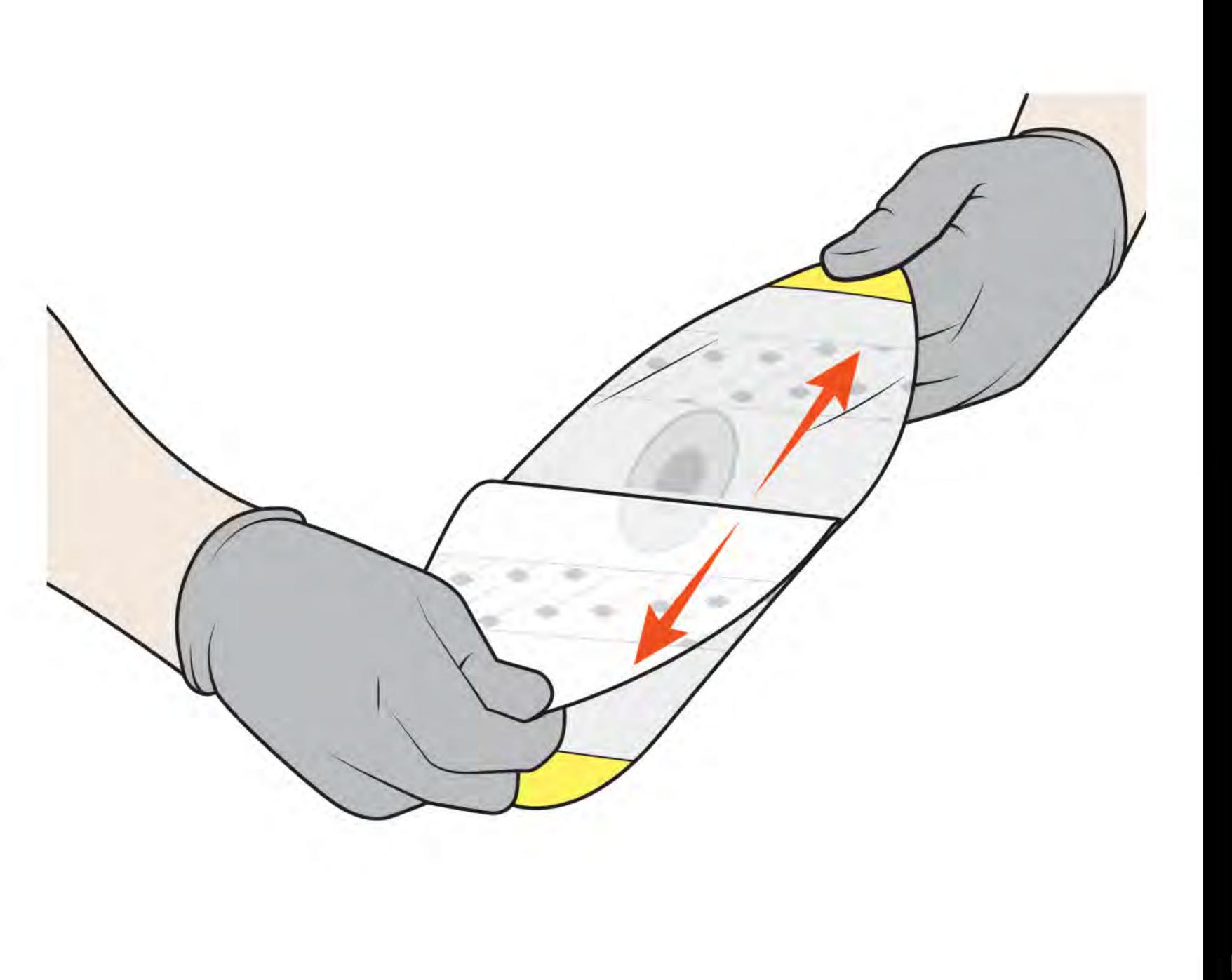
Quickly and easily open the sterilized SAM® Chest Seal packaging by peeling from it tabs or tearing along the chevronmarked areas.

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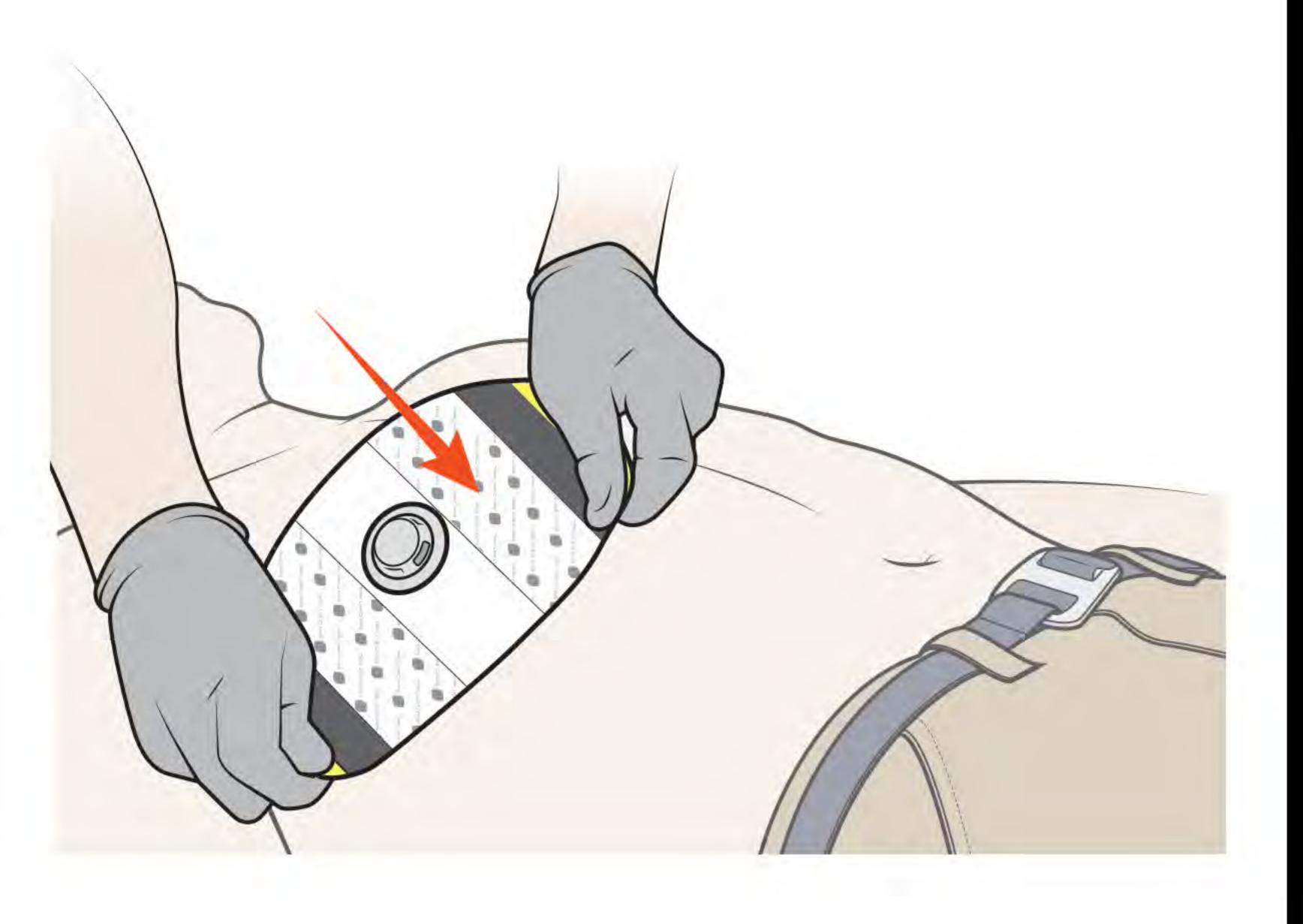
### Clean the wounded area.

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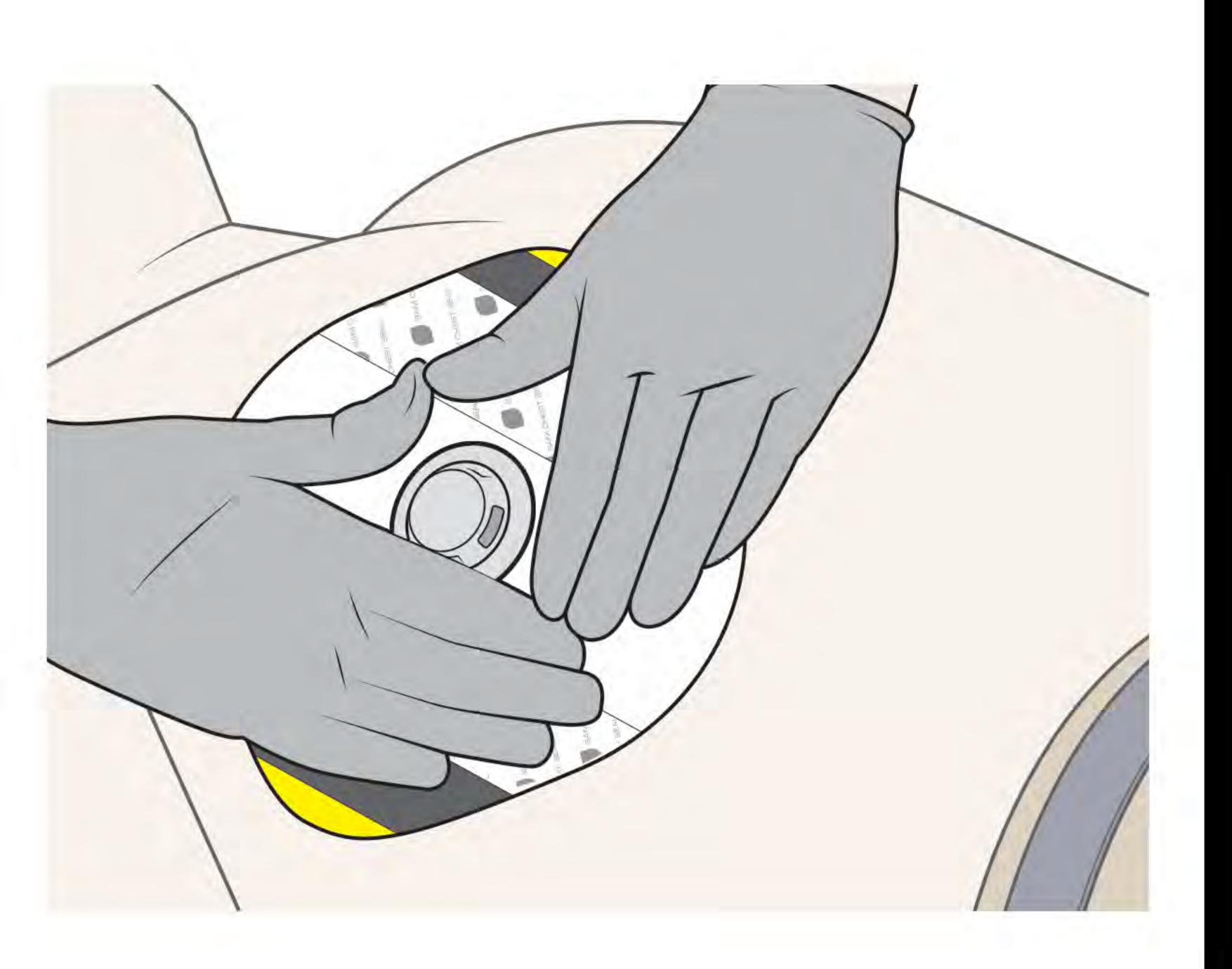


# Next, grip the application tab and remove the clear liner.

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Center the TRUFLOW Valve over the wound and place the dressing adhesive side down.



Press firmly across its entire surface to ensure adhesion.

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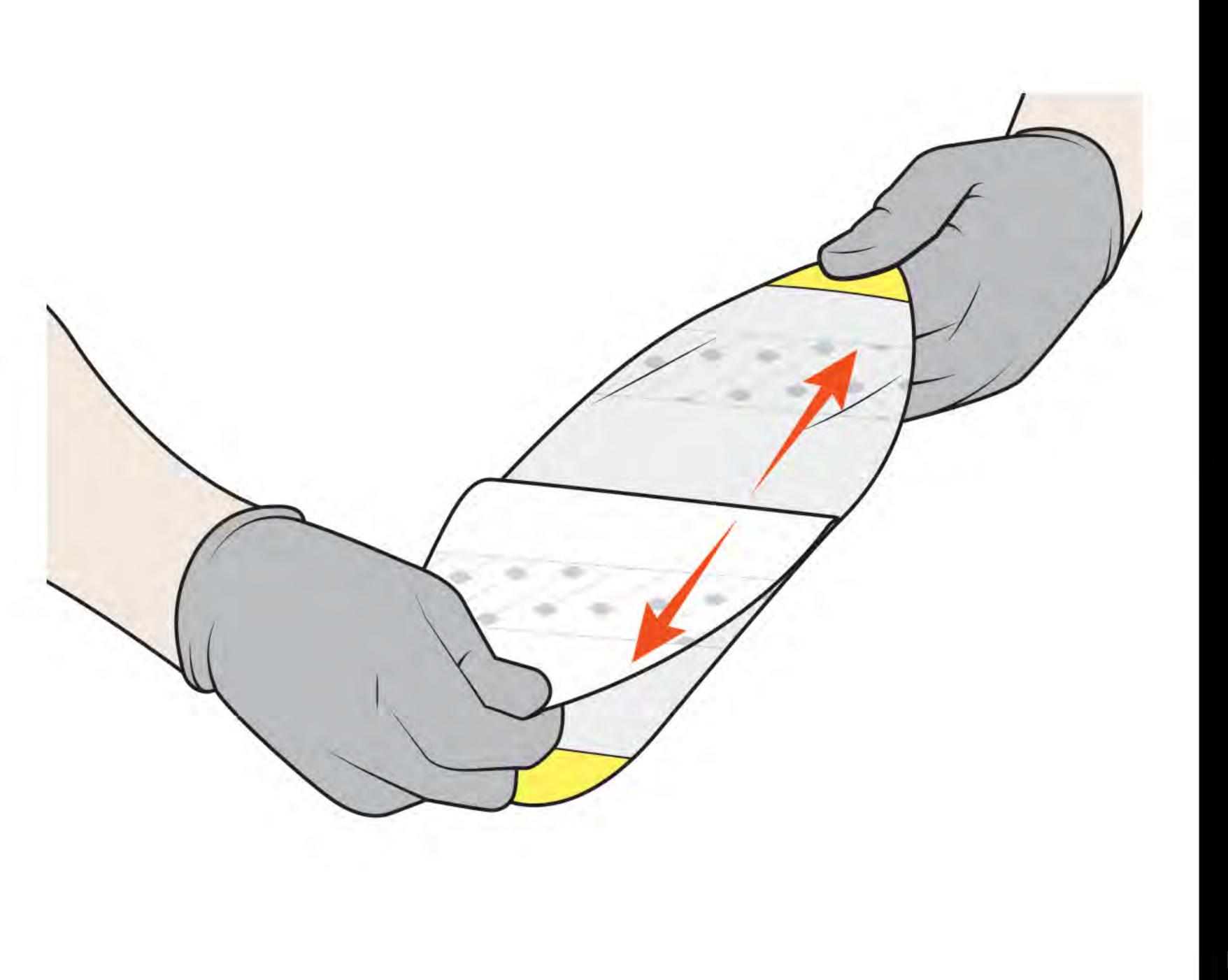


# Locate the wound and remove the casualties clothes.



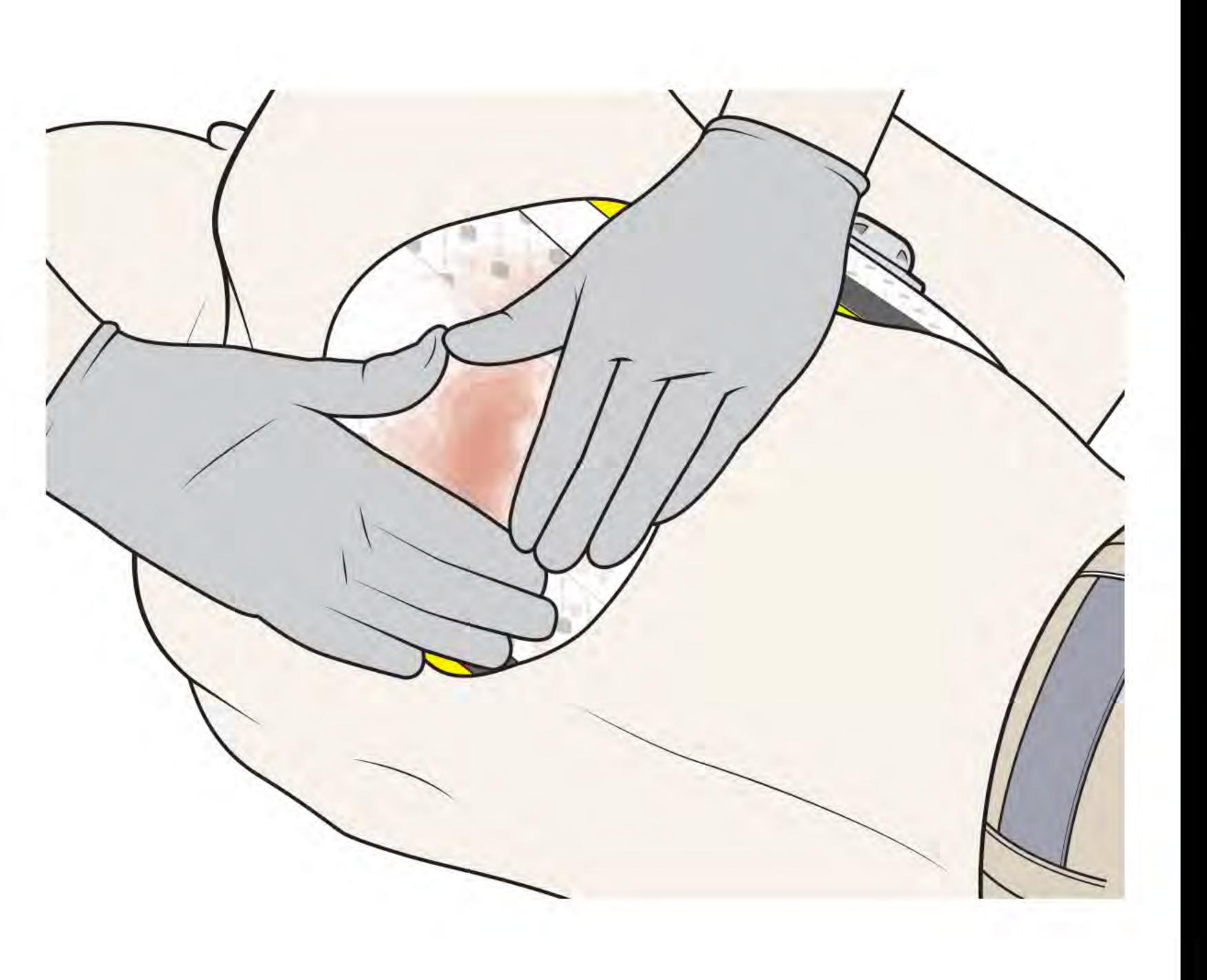
### Clean the wounded area.

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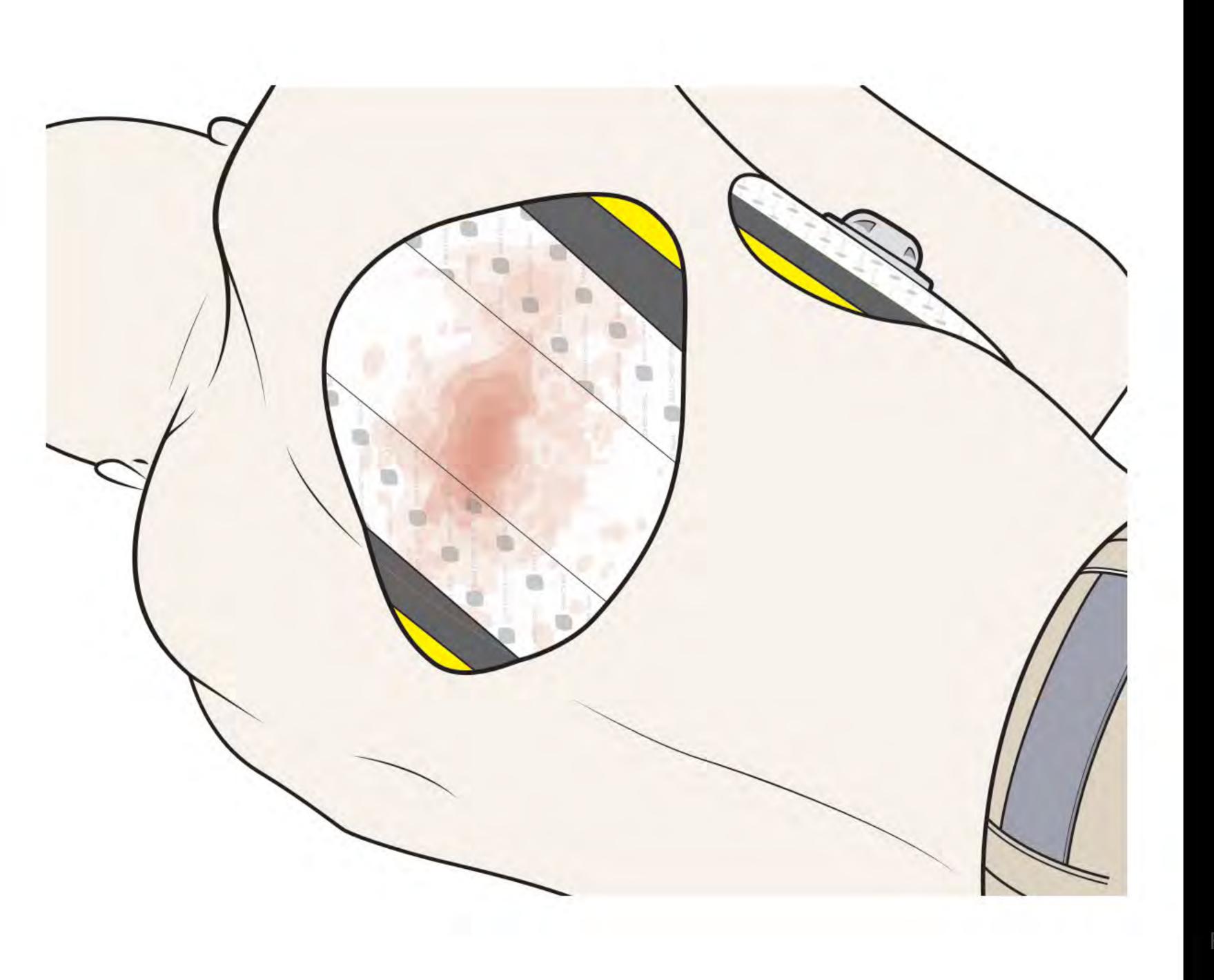
# Next, grip the application tab and remove the clear liner.

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Center the dressing over the wound and place the adhesive side down before pressing firmly across its entire surface to ensure adhesion.





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# SUMMARY

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## STERILE SUPERIOR ADHESION **OCCLUSION-RESISTANT TRUFLOW VALVE** LARGE SIZE NGHT VISION OPTIMIZED 6 YEAR SHELF LIFE

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### Why is the SAM Chest Seal a large oval shape?

The SAM Chest Seal is oval shaped and larger than other dressings. This maximizes the surface area of the Seal to assure effectiveness of adhesion. If the seal displaces from chest, it cannot protect the wound or the the air flow from chest. The large oval shape also facilitates coverage of the chest wound and surrounding tissue.

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### Why does the SAM Chest Seal come with and without a valve?

The SAM Chest Seal comes in both versions because not all chest injuries are treated the same. The "valved" SAM Chest Seal provides a one-way valve to allow air flow out of the chest thereby preventing the life threatening condition; tension pneumothorax.

The non-valved version provides a large occlusive dressing. Primarily used for chest wounds when medical professionals have the means to carefully monitor for and treat tension pneumothorax using more definitive means.

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### Can the SAM Chest Seal be used in the prehospital setting and austere conditions?

Yes, the SAM Chest Seal has been designed to work in many different environments including extreme temperatures (hot or cold), wet (blood, sweat, rain, etc.), in the presence of body hair, and dirt (sand, dust). The SAM Chest Seal has been tested to assure you, the rescuer that even in truly austere conditions the SAM Chest Seal will work effectively and efficiently each and every time.





The notches at the four corners allow quick access to the SAM Chest Seal in less than optimal conditions. No more searching for the tab or being forced to cut the package open. The top flap opening allows for the SAM Chest Seal to be opened such that the packaging itself provides a sterile field. In the field or in the hospital, the packaging of the SAM Chest Seal allows the most effective access when seconds count.

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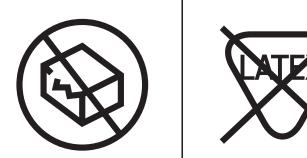
### Why are there so many notches in the SAM Chest Seal packaging?



### EC REP (0050

Emergo Europe, Prinsessegracht 20, 2514 AP, The Hague, The Netherlands





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### GULATORY





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