

HEMOFLEX

Antihemorrhagic agent

AQMC



EVERY DAY

3000

PEOPLE GLOBALLY DIE FROM ACUTE BLOOD LOSS

1

44% in military operations

2

26% as a result of a traffic accident

3

11% in domestic safety incidents

4

19% due to emergencies and
disasters



1

military hot spot

3

military hot spot

2

military hot spot

9

military hot spot

7

military hot spot

1

military hot spot

EVERY YEAR NEW ARMED CONFLICTS ESCALATE ALL OVER THE WORLD,
LEADING TO HUNDREDS OF WOUNDS THAT ARE LIFE-THREATENING
DUE TO ACUTE BLEEDING

GLOBALY KNOWN HEMOSTATIC PRODUCTS PRESENTLY USED TO STOP ACUTE BLOOD LOSS

+++Overall effectiveness

+Effectiveness in hypocoagulation

Anti-bacterial effect-

-Adverse effects

QUIKCLOT

+++Overall effectiveness

+Effectiveness in hypocoagulation

Anti-bacterial effect+

-Adverse effects

CELOX

+++Overall effectiveness

+Effectiveness in hypocoagulation

Anti-bacterial effect-

Adverse effects++

HAEMOSTOP

Topical hemostatic produce developed and manufactured in Russia using electrical molding technology



Reduces first aid time



presentation
z-folded bandage up to 3 m long
nanofiber material structure



basic active ingredient is chitosan in form of nanofibers



For temporary emergency control of extral arterial and venous bleedind



Reduces blood lossm risk of bleeding relapse and lethality

HEMOFLEX MECHANISM OF ACTION

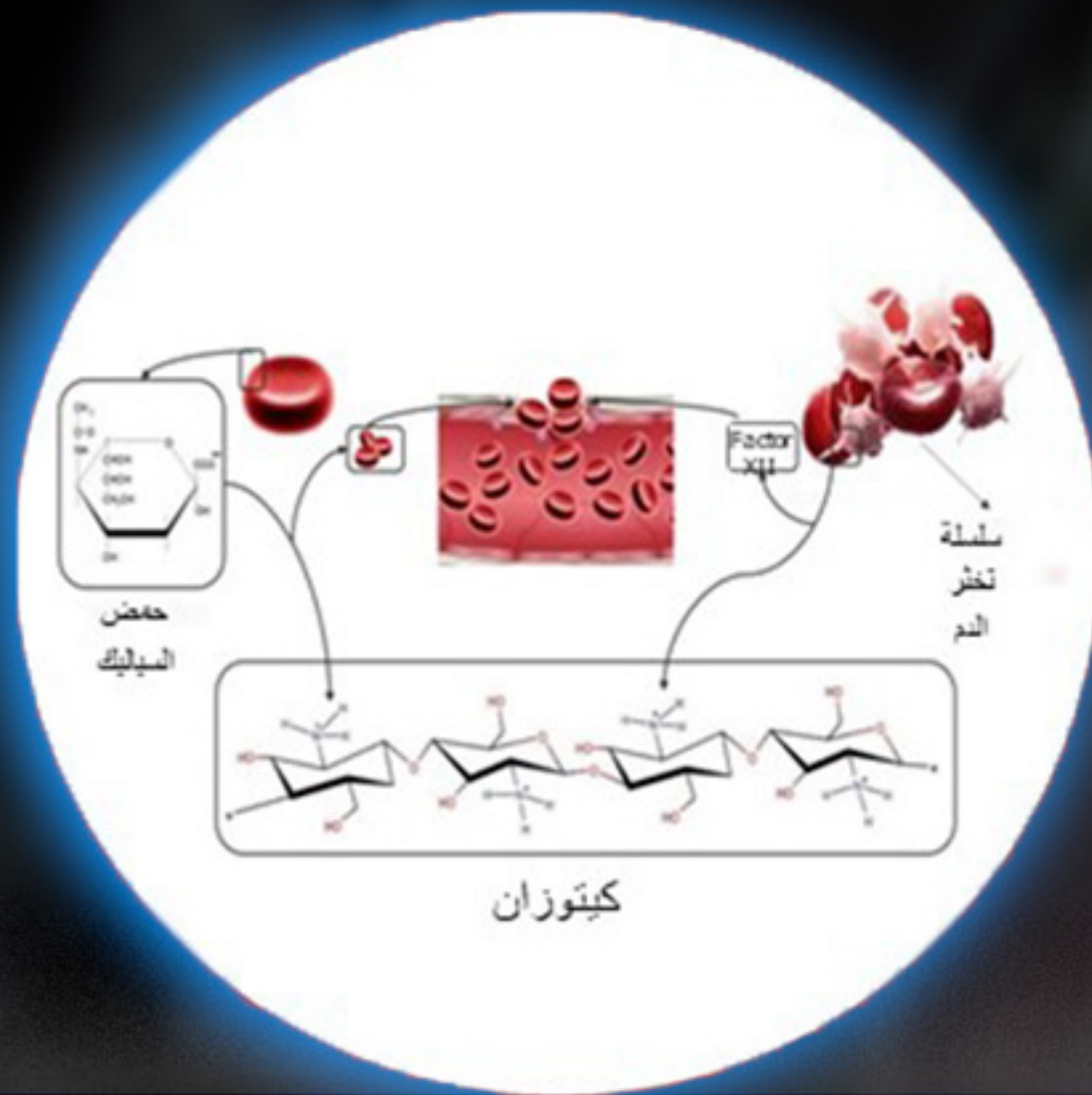


1 produce contacts blood

2 red blood cells are attracted to Hemoflex fibers due to the opposite charge of blood cells and chitosan fibers

3 change of red blood cells surface potential ,formation of gel-like clot

4 vessel damage zone closure and bleeding arrest



HEMOFLEX ADVANTAGES

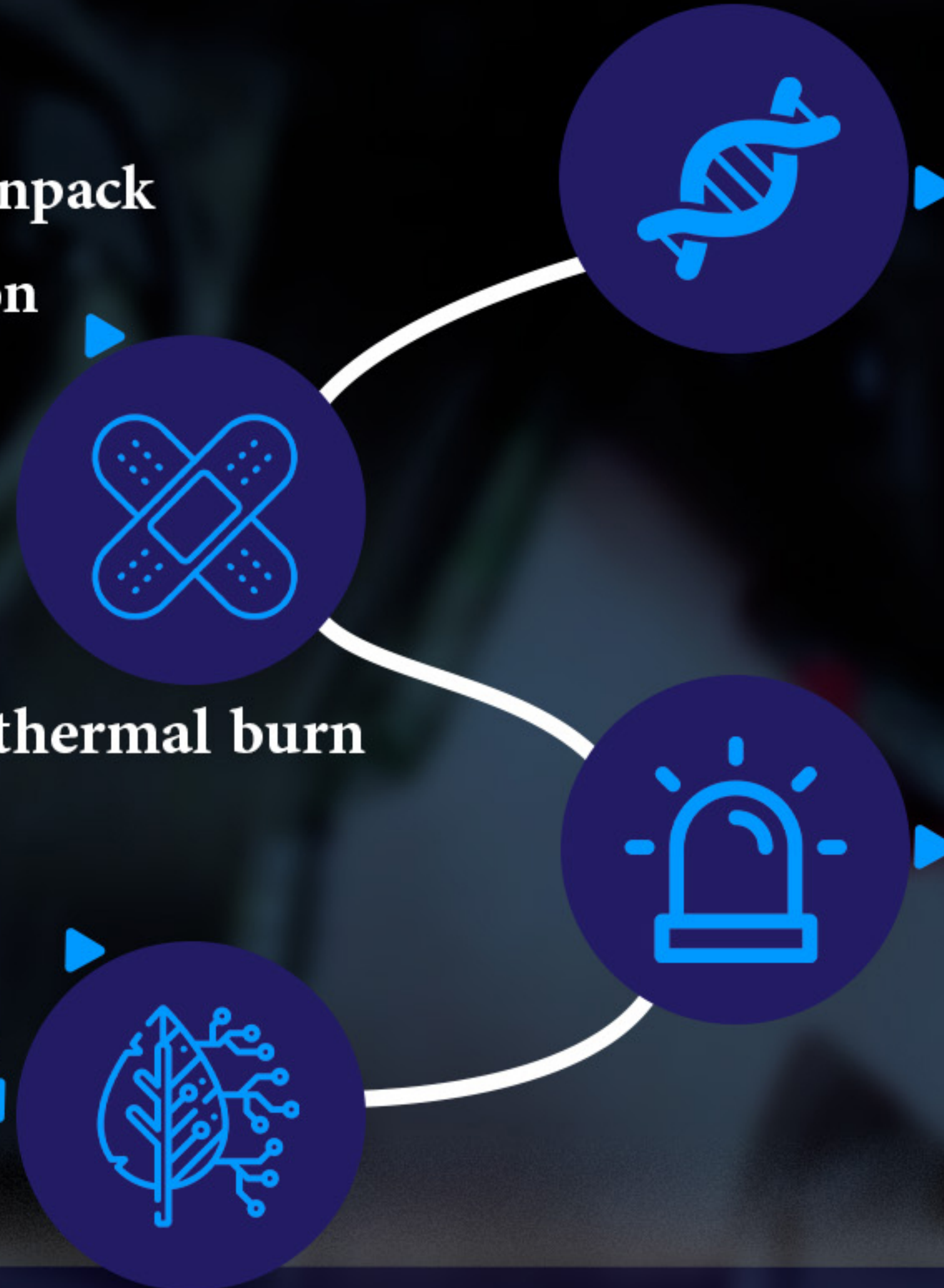
sample use easy to unpack
atraumatic separation

sterile has anti-microbial
effect and does not cause thermal burn

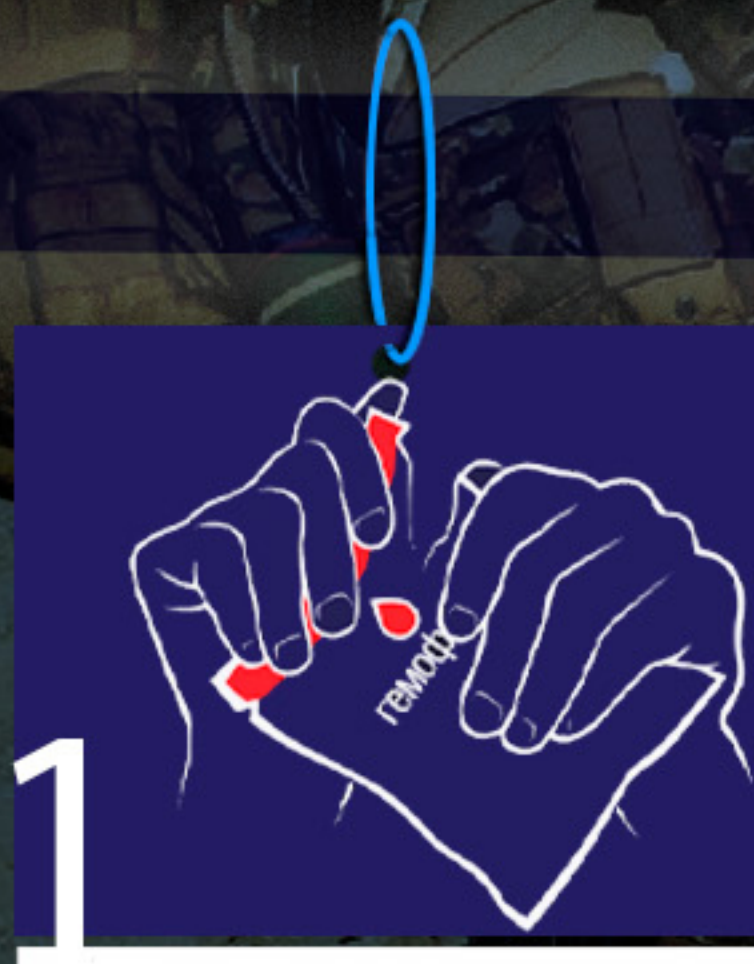
Manufactured from vegetable feedstock
does not contain animal protein

Use of nanofibers
helps increase hemostatic effect

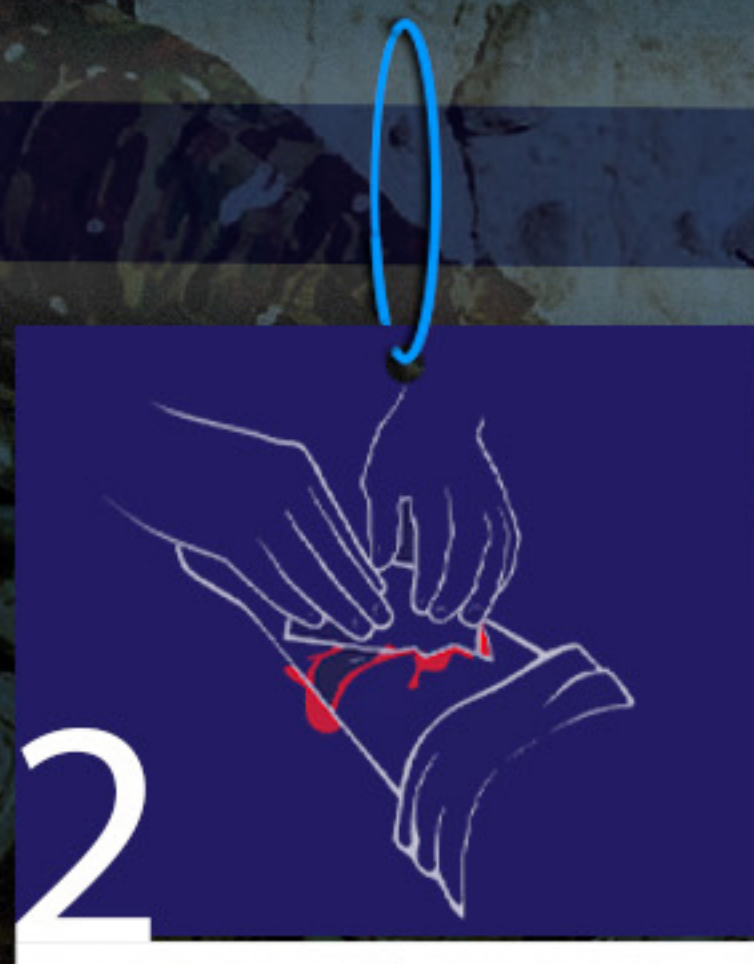
Z-fold bandage
fast use



EASY TO USE



Open the package to remove Hemoflex (hereinafter the product)



Apply the product to the source of bleeding by gradually unfolding the bandage make sure that the wound is fully closed by the product



Perform manual compression during 2-3 minutes. control bleeding arrest



After the bleeding stops, apply compression bandage using roll-it band. seek medical attention



PRECLINICAL

CLINICAL

Model

Model

External arterial and venous bleeding standard injury of the thigh with full transection of femoral artery and vein swine

St.Petersbure, Pavlov First Saint Petersburg state Medical University
14patients aged from 51 to 82, control of arterial, venous and capillary bleeding in surgical access to pelvic area during operation for removal of pelvic hernia

Result

Result

Use of Hemoflex helped reduce wound bleeding time and blood loss volume, confirming pronounced hemostatic effect

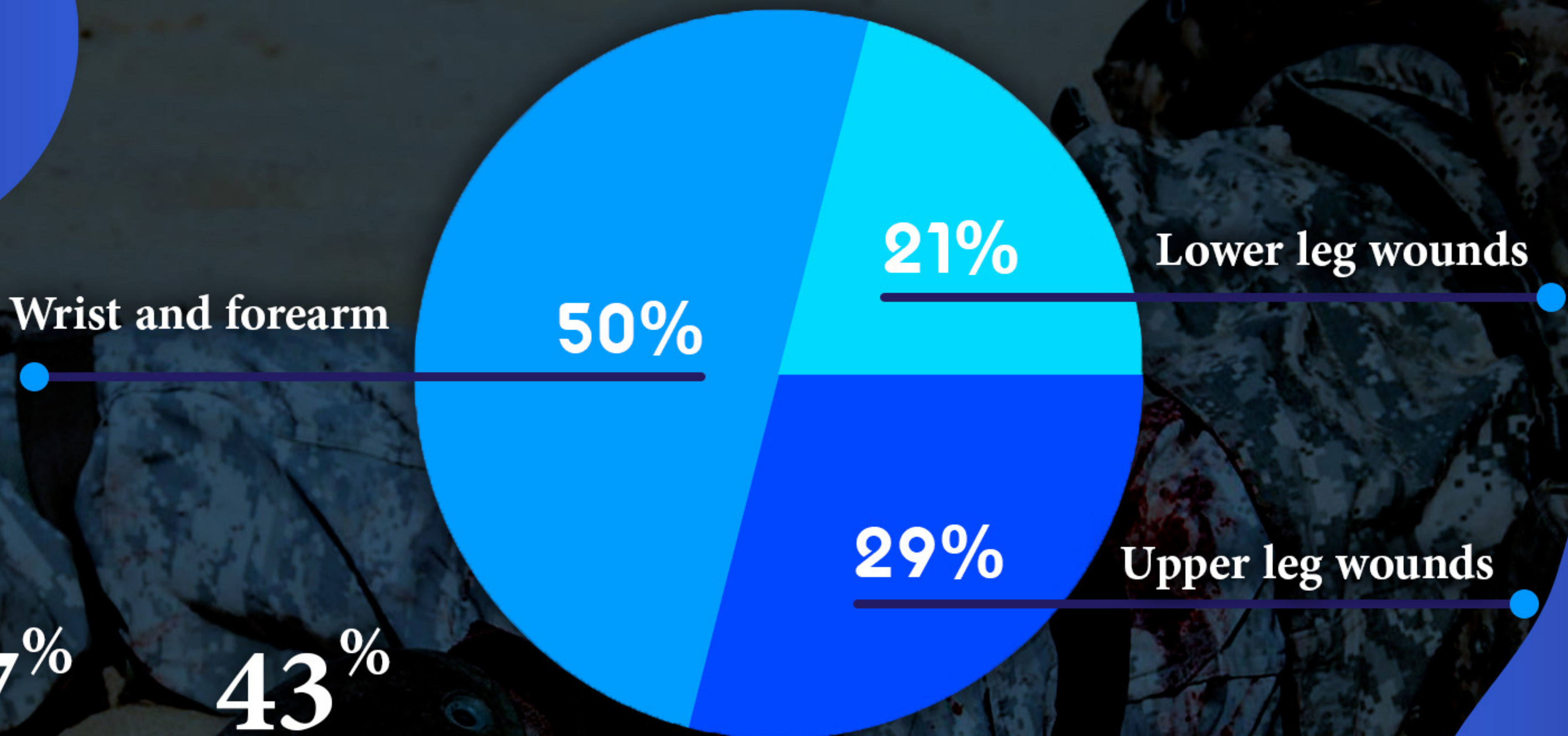
In all cases, hemostatic effect was achieved, no bleeding relapse after Hemoflex separation from the wound occurred , adverse event were absent

HEMOFLEX TESTING



HEMOFLEX CLINICAL TRIAL BY THE RUSSIAN MINISTRY OF DEFENCE

Gunshot wounds allocation



57%
Hemostasis
achieved in 3-5
minutes with
Hemoflex

43%
Hemostasis
achieved in
1 minute with
Hemoflex

Uses of Hemoflex

In the medical field

It is used to secure medical devices in hospitals

It is used in surgical operations to ensure effective control of bleeding



It is used in first aid in ambulances and hospital emergency rooms

It is used in medical research to study its effect on bleeding

Uses of Hemoflex

In other fields

It is used in the industrial field to stop bleeding in .critical injury cases

It is used in homes and restaurants as first aid in cases of injury and bleeding



It is an essential component in the first aid kit of every citizen's car for emergencies

It is an essential component in the clinics of schools and universities

CONCLUSIONS

1

Today's global market of chitosan-based hemostatic products is dominated by the two major manufacturers: MedTrade Products Ltd (UK) and HemCon Medical Technologies Inc. (USA). These market leaders manufacture medical products for temporary control of external bleeding in form of powders (Celox Granules) and non-woven materials (Celox RAPID Gauze, HemCon) (ChitoGauze®).

2

Preclinical and clinical tests of Hemoflex have demonstrated high hemostatic effectiveness and improved hemostasis stability versus counterparts. Innovative technology for processing of Hemoflex® biomedical polymers exceeds foreign counterparts in terms of effectiveness.

3

Performance tests have shown that Hemoflex reliably improves effectiveness of temporary control of external arterial and venous bleeding does not cause exothermal reaction in contact with body tissues, does not require additional preparation and is easy to use.



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