"INTRACAVITARY HEMOSTATIC CONTROL SYSTEM" VCU #10-001

Applications

- A mixture for the temporary, immediate control of hemostasis
- For use in intracavitary wounds

Advantages

- Mixture disperses and clots hard-to-reach or poorly visible areas of a wound
- Absorbs excess blood that has pooled around wound site
- Biocompatible and biodegradable
- Ideal for use by military in combat zones

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Market Need

Injury followed by hemorrhage into the intracavitary spaces, such as the chest or abdomen, can be life threatening. If a severe injury occurs in combat, trauma care or surgical assistance may not be available right away. Thus, there is a crucial need to control hemostasis in environments where immediate trauma care is unavailable.

Technology Summary

This new technology makes intracavitary wound coagulation possible when immediate trauma care is unavailable. A combination of biocompatible, biodegradable foaming and clotting agents allows for the absorption of blood and prevention of further bleeding. The mixture foams and spreads throughout the cavity when it comes into contact with a bloody wound site. The dispersing action of the mixture allows clotting in poorly visible or hard-to-reach areas of the injury, and thereby eliminates the need to press the mixture into the wound. The immediate hemostatic action of the mixture makes it ideal for use in combat zones or in other areas where trauma care is not easily accessible.

Technology Status

Patent Pending: US and foreign rights are available.
This invention will be tested with funding support from the US Navy.
This technology is available for licensing to industry for further development and commercialization.