



THE FIELD EXPEDIENT BLEEDING SIMULATION SYSTEM™ (FEBSS™)

"I was able to save a guy's arm by using a Quickclot sponge and a tourniquet. The combat lifesaver on the ground treated the wound like it was a normal wound, and when I got there the patient was still bleeding. I put on a tourniquet, undid the bandages, found the bleeder, and applied a Quickclot sponge."

**SSG Michael J.
All American Dustoff
Afghanistan**



The Situation: Most new soldiers and first responders have received first aid training, but are not prepared for the intense reality of a trauma incident. Situations ranging from gunshot wounds to IED explosions can be horrific to experience. A major part of this is intense bleeding. The uninitiated or ill-prepared can hesitate and, therefore, have a catastrophic effect on the victim where seconds are the difference between life and death. Only good training can overcome the natural reaction to hesitate and lose precious seconds in such intense situations. However, most of the realistic training devices and techniques available today are too expensive, delicate and generally reserved for the training of doctors and nurses. There is a great need for rugged and inexpensive training devices that mimic reality in order to train larger numbers of Soldiers and first responders to handle the pressure of life and death situations. The FEBSS satisfies this need.



**US AND FOREIGN
PATENTS PENDING
Made in USA**

DEDICATED TO THE "WARFIGHTER MEDIC™"



PRODUCT INFORMATION SHEET

THE FIELD EXPEDIENT BLEEDING SIMULATION SYSTEM™ (FEBSS™)

The Solution: The Field Expedient Bleeding Simulation System™

The FEBSS™ is a modifiable kit that can be used with a wide range of training mannequins or on live subjects in order to simulate bleeding associated with trauma wounds. The FEBSS™ can simultaneously simulate up to eight different bleeding wounds all with different degrees of severity. Everything from nicks to arterial bleeds can be simulated by this unit with graphic reality.



- Made for a field environment
- Can be used at a moments notice
- Everything required for functional operation is housed in a rugged, durable carrying case.
- Compact, durable, and light weight
- Two re-chargeable batteries and one charger are supplied with each complete unit, allowing one battery to be charged at all times.
- 30 feet of wireless capability.
- Housed in a durable, rugged simulation bag
- Each wound has its own flow control valve that can be adjusted to the desired flow
- Quick connect fittings allow the operator to connect any type of bleeding simulation wound rapidly
- Can hold up to three liters of simulation blood.
- Constant simulation flow ranging from 2 to 7 minutes depending on flow – intermittent use with wireless remote – simulation fluid will last much longer.
- Quick refill process allows the operator to continue simulation exercises in a matter of seconds.
- Siphon seal allows FEBSS™ to operate no matter what position the casualty is in.
- **System can be completely concealed underneath the uniform.**
- **System can be configured to fit into the ACU cargo pockets.**

The FEBSS™ allows military units to conduct hemorrhage control and shock management training at any time while in the field. The system can be worn by a live simulated casualty during any type of field training maneuver, especially movement to contact and ambush situations. A live simulated casualty (also know as a real person) can carry the system in their assault pack or wear the system **concealed underneath their uniform**. Simulation moulage is also worn underneath the uniform. A chaotic training environment can be created at a moments notice when no one realizes who is wearing the system! The individual in charge of the training maneuver has the ability to operate the FEBSS™ at any time from a distant location.

The FEBSS™ can also be used in conjunction with virtually any type of simulated mannequin casualty. Often times, training mannequins are purchased for one distinct purpose, ranging anywhere from Cardio Pulmonary Resuscitation to advanced airway management. These types of training tools are used for certain training scenarios and then put in storage until the next use. The FEBSS™ focuses on allowing the user to re-utilize training equipment they already have. The Field Expedient Bleeding Simulation System™ can be installed into or worn on virtually any type of simulation mannequin. Simulation moulage can be placed on training mannequins if wounds are not available, providing a more versatile training scenario. The advantage of using the FEBSS™ with mannequin casualties is due to the fact that live simulated casualties will not tolerate certain types of treatment or conditions, such as intubation or severe in-climate weather. The FEBSS™ can be worn on or inserted into virtually any type of training mannequin, ranging from the simplest training mannequin to the more complex computer based training mannequin.



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