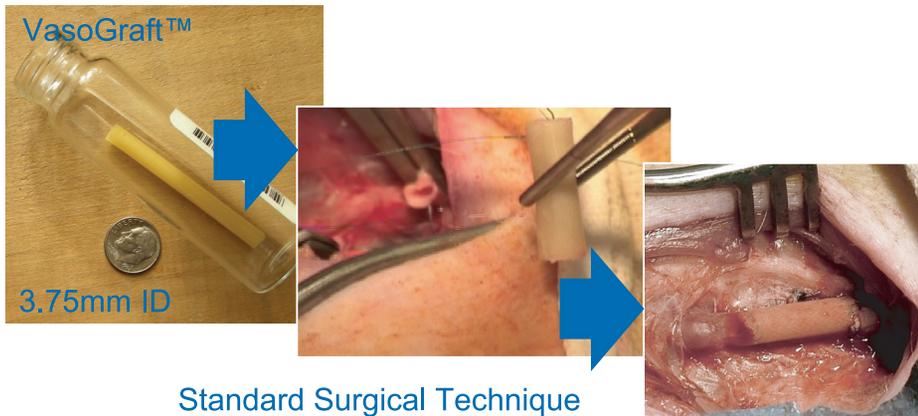




# VasoGraft™: Regenerative, Small Diameter Blood Vessel Graft to Save Lives and Limbs



## Advancing Regenerative Biomedical Devices



Standard Surgical Technique

## Technology

### ■ Non-Blood Clotting Biomaterial:

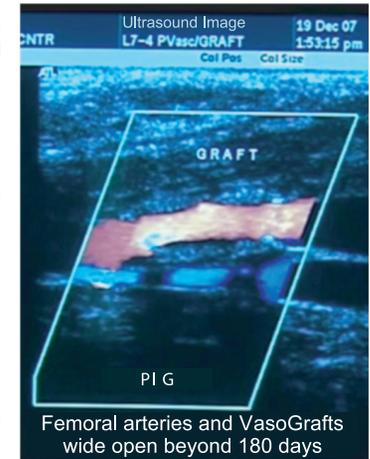
- Purified protein and carbohydrate components are fabricated with water and salts to match tissue and facilitate wound healing.

### ■ Market:

- For use by combat medics and surgeons to provide tissue replacement applications, including short and long-term limb salvage vascular repair and tissue augmentation.

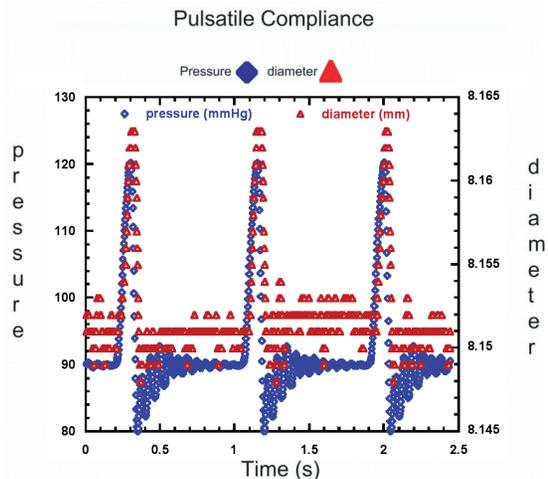
### ■ Military Relevance:

- Limb reattachment occurs at a higher incidence in the military community than the general population.
- Long-term limb salvage success will be greatly enhanced using improved biomaterial that precludes blood clotting, inflammation, and even infection, while naturally integrating with healing tissue.



## Advanced Development

Blood vessel reattachment/tissue healing are facilitated by regenerative biomaterial, used safely in animal and human studies (shown below compliant to blood pressure and as conduit with a non-clotting surface).



## Funding for Advanced Projects

- **Funding:** Current development funding in place through FY12, including \$6.25 million from NIH-SBIR, NHLBI. Requested FY 2010 funding for limb salvage clinical trial of VasoGraft System.

### ■ Accomplishments to date:

- Off-the-shelf small diameter VasoGrafts, fabricated to size/shape
- Drug delivery via graft components to protect healing and fight infection
- Over 50 successful porcine studies, including over 6 months duration
- Studies underway to collect data for FDA clinical trial approval
- VasoGraft biomaterial safely used in humans as a dermal implant to correct skin imperfections
- Intellectual Property issued and pending