

## Problem: Volumetric Muscle Loss

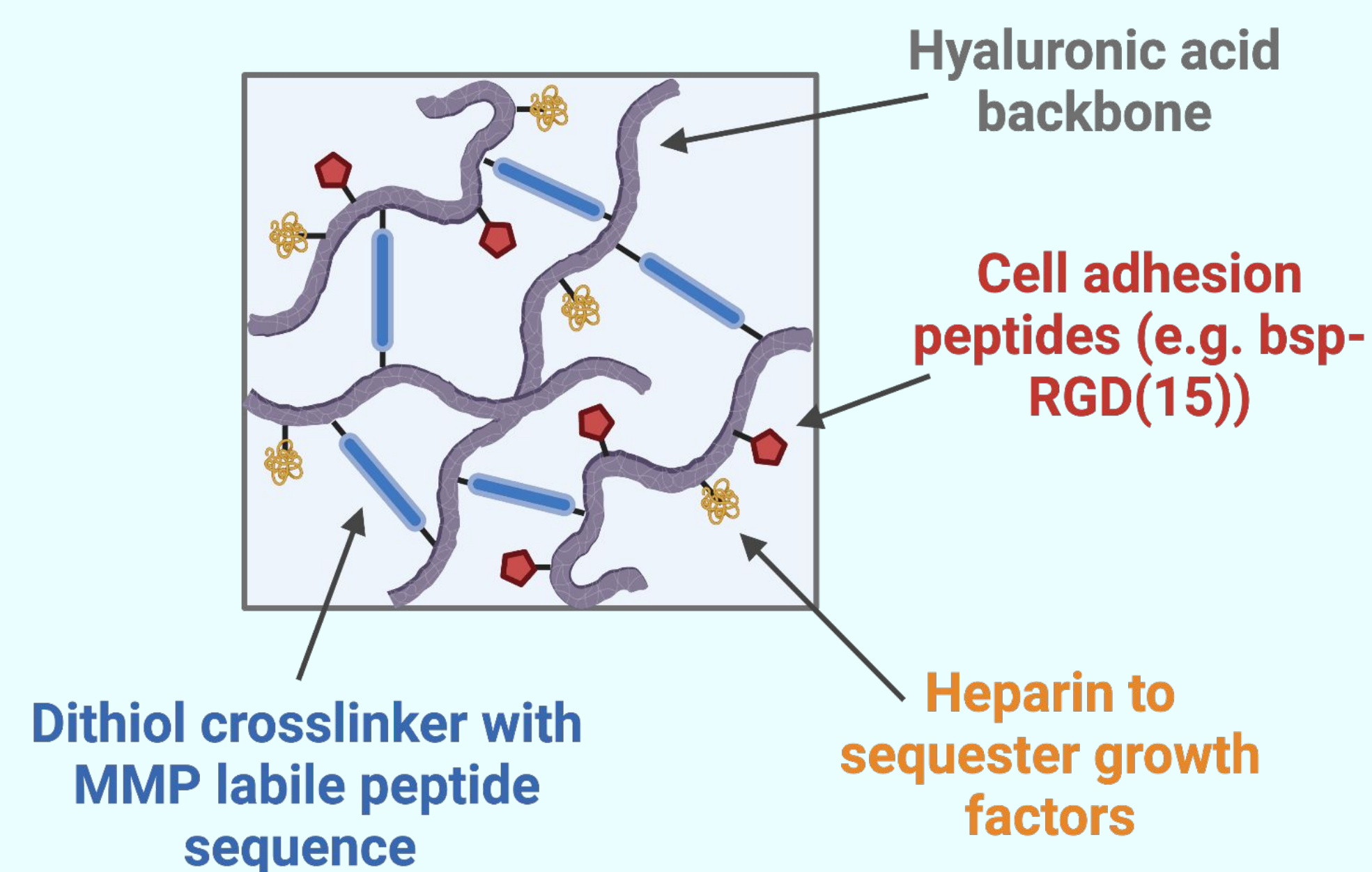
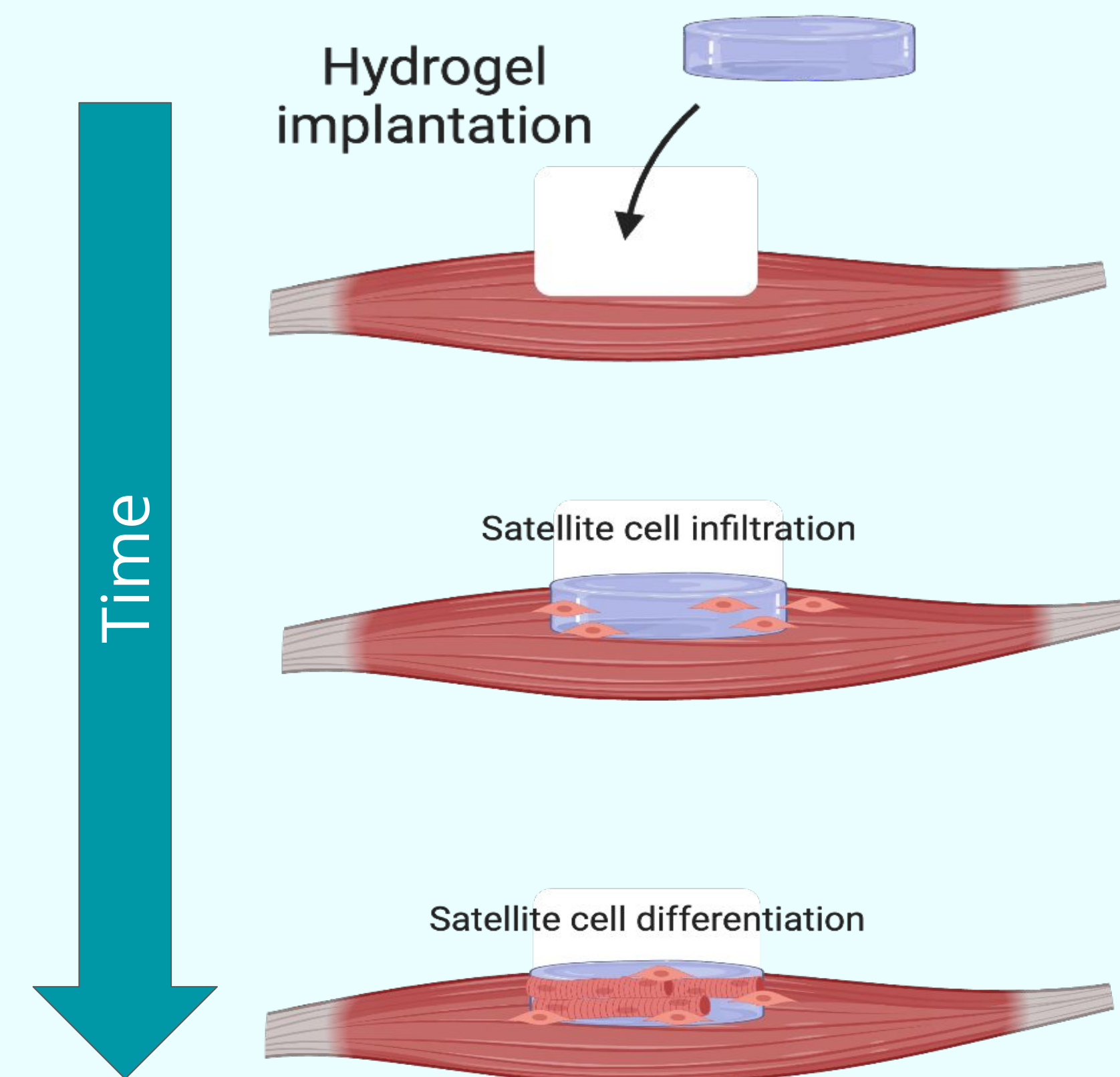
Volumetric Muscle Loss (VML) is a **severe form of muscle loss** that affects mostly military personnel and sometimes civilians who lose >20% of their muscle through injury.

**>11,000** Military reports of VML between 2001 and 2013

**\$440,000** To 'Treat' a single case of VML using current standards

## Solution: MuscleMatrix™

Our product is an **implantable** Hyaluronic Acid based **scaffold** that **restores native functionality and aesthetic** through muscle cell regeneration.

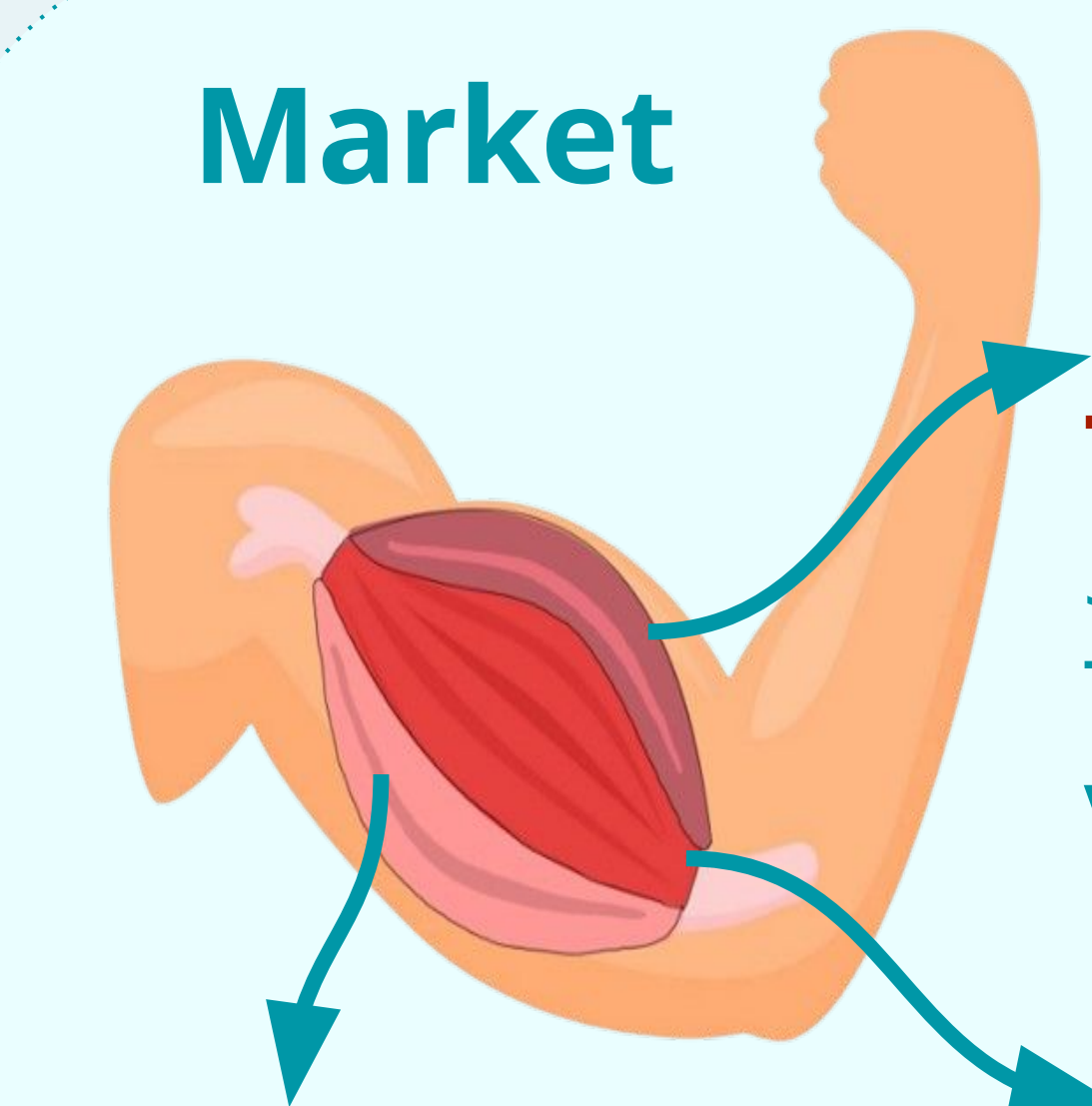


## Product Comparison

No other hydrogel on the market has demonstrated the remarkable VML regeneration we have attained with our biomaterial.

	MuscleMatrix	Hyalomatrix	Grafting	Do nothing (Status Quo)
<b>Description</b>	HyA based acellular scaffold for skeletal muscle regeneration	FDA and Medicare approved HyA based scaffold layer for skin wounds	Free muscle harvested from thigh/donor and implanted	FDA approved acellular scaffold for skin wounds
<b>Functional</b>	✓	✓	✓	✗
<b>Aesthetics</b>	✓	✓	✓	✗
<b>Vascularization</b>	✓	✓	✗	✗
<b>Muscle application</b>	✓	✗	✓	✗

## Market Analysis



**TAM:**  
\$160 million  
Total cases of VML in the US

**SOM:**  
\$9.3 million  
Estimates ~1/3 adoption of MuscleMatrix™

**SAM:**  
\$27.8 million  
Craniofacial applications of missing tissue

## Project Plan

Our team is focused on these considerations:  
**Regulatory, Manufacturing, Preclinical, Commercialization.**

