

## Technology for License or Co-Development Summary

A wearable support device for patients recovering from gender affirmation surgeries to protect and support a newly created neophallus during recovery

### Background

Gender affirmation surgeries can be used to address gender dysphoria. An example surgery is phalloplasty, where tissue is taken from part of the body and a neophallus free-flap is created and attached at the patient groin via a circumferential suture. Recovery post-surgery includes strict bed rest followed by release from care without a supportive device other than using Kerlix, gauze pads and bandage wraps. The neophallus must be protected while allowing accessibility. It must also be supported at a specific angle while allowing the patient to carefully move as needed. In the days/weeks after surgery, there is risk of suture tear, insufficient blood flow, risk of infection and even detachment of the neophallus. Patients experience heightened anxiety and fear during this recovery process. Patients are also limited in movement, comfort, and avoid making unnecessary trips due to the necessity to support the neophallus. This affects the quality of life and requires additional help from caretakers. Without a support device tailored to patients undergoing phalloplasty procedures, there is a great need for such a device to help patients in transition and recovery.

### Technology

The Neophallus Support Device is a wearable medical device that aids in healing patients after gender-affirming phalloplasty surgery. The device supports the phallus at the optimal healing angle of 45 degrees, avoids suture lines, allows for patient ambulation, maintains accessibility for provider assessment, and is customizable to patients' size and needs. The neophallus support is made of medical-grade materials, repels fluids, is washable, and can be reused.

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#### Keywords

Medical device  
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Post-surgery recovery  
Reusable 30-60 days

#### Stage of Development

Prototype Built  
Provisional Patent  
Application Filed

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