



# Neonatal pneumothorax decompression device

**A rapidly deployable, self-contained device to evacuate air from the pleural space of a neonate.**

**IP Status:** US Patent Pending; Application No. 18/611,953

## Applications

- Evacuate air from the pleural space of a neonate

## Technology Overview

The decompression of a tension pneumothorax in neonates is an emergent, life-saving procedure. Researchers at the University of Minnesota have developed a novel device to treat pneumothorax in neonates. The device is composed of a fluid pump, pressure indicator, and needle stabilizer. Once the needle has entered the pleural space, the pressure indicator spins and the aspirated air exits through a one-way valve. This self-contained device can be rapidly deployed and used by a single healthcare provider, which accelerates the restoration of heart and lung function.

## Phase of Development

**TRL: 2-3**

Prototype designed and initial clinician feedback gathered.

## Desired Partnerships

This technology is now available for:

- License
- Sponsored research
- Co-development

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## Researchers

- [Jonathan Strutt, MD](#) Assistant Professor, Department of Pediatrics
- [Kari Roberts, MD](#) Professor, Department of Pediatrics

**Technology ID**

2023-163

**Category**

Life Sciences/Medical Devices

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