

## BRONCOPILLOW

A cephalic restraint device for bronchoscopy and other medical procedures



### CLINICAL NEED

One of the primary applications of **Broncopillow**, medical device, is **bronchoscopy**, a critical procedure for diagnosing and treating lung conditions. However, **involuntary head movements** pose a serious challenge, affecting both patient safety and procedural efficiency.

- ✓ **5% of patients experience involuntary head movements.**
- ✓ **Increases complications:** sepsis, pneumothorax, bronchospasm, hypoxemia.
- ✓ **Prolongs procedure time** and may require a repeat test.
- ✓ **Compromise patient safety and increased procedural costs.**



### ASSET - INNOVATIVE ASPECTS

**The First Head Immobilizer** Designed for Bronchoscopies:

- ✓ **Prevents** vertical and lateral head movements
- ✓ **Quick-release mechanism** for emergencies
- ✓ **Universal fit** – adapts to any head size
- ✓ **Compatible** with all hospital bed types
- ✓ **Expandable** – allows accessories like a support arm



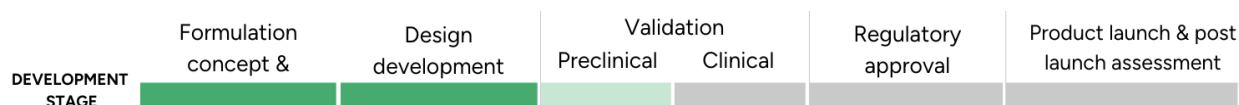
### MARKET SITUATION

The global bronchoscopy market was estimated to be worth **\$2.5 billion in 2022** and is poised to reach **\$3.7 billion by 2027**, growing at a **CAGR of 7.9%**.

Other potential clinical specialties for this device: **Pediatrics, odontology and imaging.**



### STAGE OF DEVELOPMENT



The prototype was created through 3D printing and several preclinical tests have been conducted ensuring the safety and efficacy of the device. Currently, the team is preparing the protocol and other documentation for the medical device clinical testing.



### TEAM



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### INTELLECTUAL PROP. AND REGULATORY

**European priority patent: EP23383245**

Priority date 01/12/2023.

The present disclosure relates to a cephalic restraining device. In particular, the disclosure pertains to a cephalic restraining device for its use in medical applications.

**Medical Devices Classification (Regulation (EU) 2017/745) = Class I**

#device #bronchoscopy #headmovements #sedation #complications