

## 9.15 Superior Suction of Boston Exalt Model B 2.8 Single-use Flexible Bronchoscope: Case Studies.

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**Background:** The COVID-19 pandemic and the global trend towards disposable technology have led to an increase in the use and production of single-use or disposable bronchoscopes (SUFB). Our recently published bench top and pre-clinical evaluation identified vastly superior suction capabilities over other single use and reusable bronchoscopes (1). We subsequently published the first clinical study evaluating the Boston SUFB range. Their superiority provides significant advantages in bronchoscopic procedures, such as the removal of thick secretions, endobronchial biopsies, excision of tumours, and suctioning around instruments.

**Methods:** Four patients who underwent flexible bronchoscopy using Boston Exalt Model B 2.8 channel in various clinical settings during 2022-2023 were included.

**Results:** In these 4 cases, the 2.8 Exalt SUFB was utilized in the ICU, theatre, and endoscopy unit. It was user-friendly and accessible while performing the various procedures such as airway inspection, endobronchial biopsy, and cauterization. Additionally, foreign bodies were effortlessly extracted with the assistance of a snare.

**Conclusion:** The 2.8 Exalt bronchoscope demonstrated ease of adaptation, high suctioning quality, and successful foreign body removal. Also, there were no complications noted in relation to the capability of instrument such as handle break, suction failure, and image failure.

**Keywords:** Covid-19, Single-use flexible bronchoscope, Pandemic.

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