**Laboratory Studies**

* [PneuX™ prevents leakage of fluid past the cuff. 2016.](http://rc.rcjournal.com/content/early/2016/11/22/respcare.04996)

A study done in Massachusetts General Hospital, USA, compared the performance of PneuX™ system to 4 standard endotracheal tubes. This study found that PneuX™ was the only endotracheal tube to prevent leakage of fluid past the cuff in all trials, and was superior to all other endotracheal tubes tested (P<0.01).

* [PneuX™ prevents leakage of bacteria past the cuff and prevents leakage in all trachea sizes. 2015.](https://pdfs.semanticscholar.org/ba90/a5a2d91aea42ad2422f69e24af2b0c6de741.pdf)

This study performed at the University Hospital of Wales, looked at the performance of subglottic secretion drainage endotracheal tubes in preventing leakage of bacteria past the cuff. PneuX™ prevented leakage of bacteria past the cuff and was superior in performance to all other 7 tested endotracheal tubes (P<0.001). Four of the best performing endotracheal tubes were also tested in model tracheas of varying sizes and PneuX™ was found to prevent leakage of fluid in every trachea size.

* [PneuX™ prevents leakage past the cuff in mechanical ventilated models. 1998.](https://academic.oup.com/bja/article/80/6/796/243132)

This study compared PneuX™ against standard endotracheal tubes in preventing leaking of fluid past the cuff in mechanical and cadaveric models. They found that PneuX™ prevented leakage past the cuff in all experiments, including tracheal suction and tube movement.