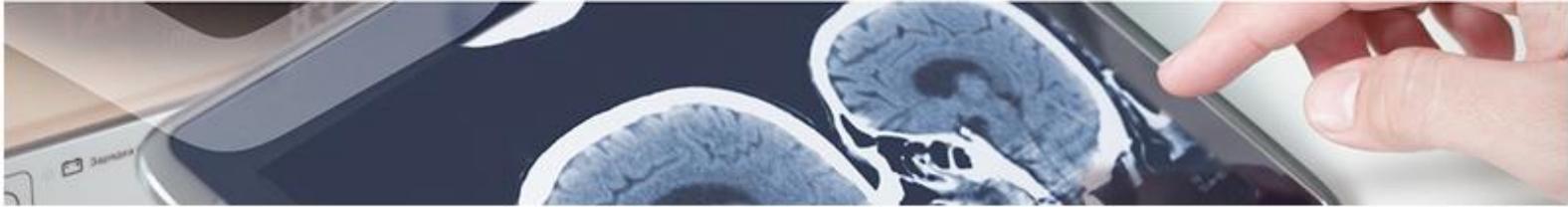




## Medical Devices

# Novel ventilation tube for preventing endotracheal infections

A research group from the Andalusian Public Health System (SSPA) has developed a novel endotracheal ventilation tube designed to help prevent pulmonary infections caused by contaminated secretions.



### Description

A relatively common complication in mechanically ventilated patients is respiratory infection, such as tracheobronchitis or, more seriously, ventilator-associated pneumonia (VAP). Secretions from the mouth reach the trachea having travelled along the outer surface of the tube down to the airway seal area, where they accumulate and slowly filter into the trachea and bronchial tree.

Under current protocols, upon detection of a VAP, it is fundamental to both administer antibiotics and to facilitate the drainage of infected respiratory secretions. The most important measures are therefore preventive.

Endotracheal ventilation tubes are equipped with an airway seal that has the dual function of securing it, so that it can neither enter further nor dislodge accidentally, and of isolating the airway from secretions from the mouth. The air supplied by the tube thereby ventilates the lungs directly, and not via the mouth.

The new tube is shaped in such a way that it redirects the secretion droplets and causes them to flow naturally towards the back of the oropharynx – rather than directly towards the larynx – where they may be aspirated or swallowed into the oesophagus.



### Advantages

- 1- It helps prevent the filtration of secretions that occurs with existing ventilation tubes and which can be either aspirated by clinical staff or swallowed by the patient.
- 2- The new tube minimises this filtration of secretions into the larynx, thereby reducing the incidence of VAP and related complications.



### Intellectual Property

This technology is protected by patent.



### Aims

We are looking for a partner interested in a license and/or a collaboration agreement to further develop and exploit this innovative technology.



### Classification

Area: Medical Device

Pathology: Respiratory and Pulmonary System