



## Surgery

### Medical device for drug administration and aspiration in endoscopic endonasal surgery.

A research group from the Public Health System of Andalusia (SSPA) and Malaga University has developed a new medical device for endoscopic endonasal surgery which can be used by a human or controlled by using a robot.

Oficina de  
**TRANSFERENCIA  
DE TECNOLOGÍA**  
Sistema Sanitario Público de Andalucía



## Description

**Endoscopic endonasal surgery** is a minimally invasive surgery used in otolaryngology and neurosurgery. This methodology uses nasal cavity to access into the area to be surged.

Due to the **small size of the nasal cavity**, surgeons must use an endoscopy to visualize the surgical field. The used of an endoscopy makes difficult to have a good depth perception and produces a loss of field. Moreover, this type of surgeries **needs a high precision and motion control of the instruments**, so the use of a surgical robot is the best option because of the state of the art.

This invention shows a **hybrid medical device for drug administration and aspiration in endoscopic endonasal surgery**. It can be used by a **human or controlled by using a robot**. In addition, it is possible to change tool size and form to be adapted to every type of laparoscopic surgery.



## Intellectual Property

This technology is protected by Spanish utility model application.



## Aims

The research group is looking for partnership and/or license agreement.



## Advantages

- It is the unique device which let **both drug aspiration and administration during surgery**.
- This surgical tool which can be **used by a human or controlled by using a robot**.
- It is possible to **change tool size and form** to be adapted to every type of laparoscopic surgery



## Classification

**Area:** Medical device / Surgery.