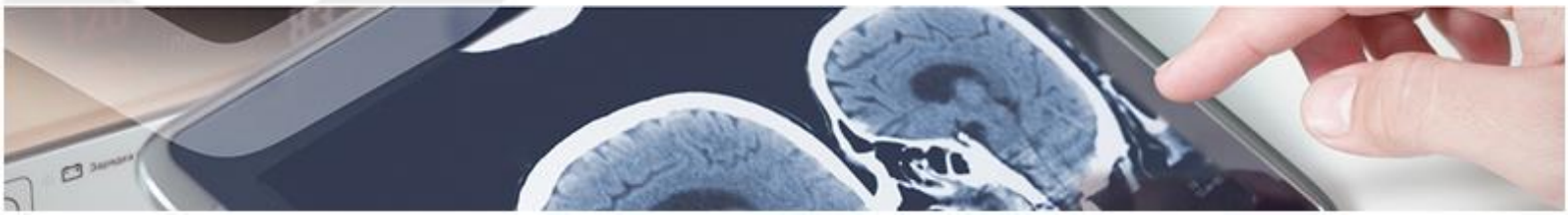
Medical Device

Medical device for gas instillation in a surgical cavity.

A researcher from the Andalusian Public Health System has developed a medical device for gas instillation in a body cavity. The device is specially designed to be used in cardiovascular surgery.

Oficina de TRANSFERENCIA DE TECNOLOGÍA
Sistema Sanitario Público de Andalucía



Description

Nitrogen contained in air should enter in a surgical cavity and produce an embolism after a surgical procedure.

To avoid this risk, **CO_2 is usually instilled into the cavity during a surgery**. Because of the CO_2 density, it has the capacity to move nitrogen outside the cavity. However, air turbulences are produced during surgeries, causing the nitrogen entered into the cavity.

To use **a laminar flow** during instillation, reduce the nitrogen entry and the embolism probability.

Most of the available devices in the market for gas instillation using a laminar flow must be suture to the patient. These devices **usually obstruct the surgery**.

To solve these problems, a researcher from the Andalusian Public Health System has developed **a medical device to be installed inside the dead space of the surgical cavity**. The device does not need to be attached to the patient, and **produces a laminar flow inside the cavity.**

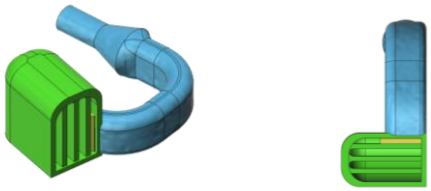


Figure 1: Device rendering. Green: The nozzle. Blue: The connection between gas supplier and the nozzle, and the tubular body.

Advantages

- Gas instillation with **a laminar flow** from inside surgical cavity.
- **It is not necessary to attach** the device into the patient.
- The device **does not obstruct the surgery**.
- **The connection** between the device and the gas source **is very easy.**

Intellectual Property

This technology is protected by national utility model application with possibility of international extension.

Aims

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

Classification

Area: Medical Device

Pathology: Surgery

Junta de Andalucía
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