

ROBORETO

ROBOTic Retractor system for Endoscopic TransOrbital surgery

👉 Novel retractor system for **endoscopic transorbital surgery (ETS)** to the brain and skull base

? CLINICAL NEED

ETS is a novel procedure that allows to perform **brain surgery** from the **transorbital pathway** for complex **brain tumors**, avoiding invasive surgeries procedures that bring high mortality and morbidity.

Orbit retraction is the key procedure in those **neurosurgeries**, and no dedicated technology is available yet.

💡 SOLUTION

We developed a **new surgical tool** to **allow the optimal access and management of the eye retraction** during ETS.

★ COMPETITIVE ADVANTAGE

Nowadays, there is no specific device to **manage and control** the eye in an optimal and safety way during ETS. Our main goal is **increase ETS positive results** and **reduce post-surgical complications**.



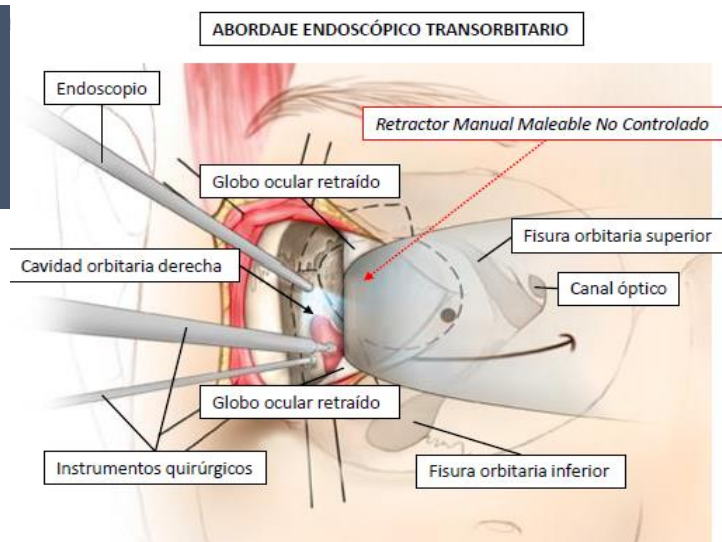
THE TEAM



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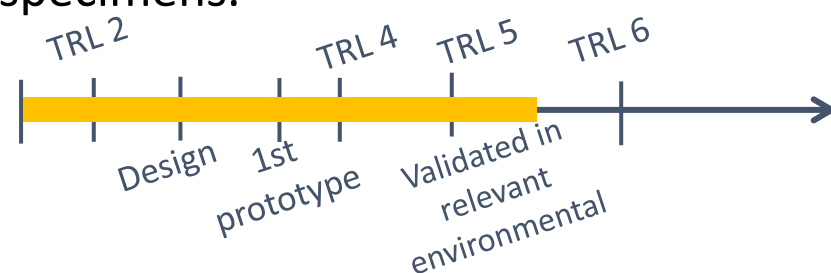


🔒 INTELLECTUAL PROPERTY

European patent (EP23382980) application was submitted 27 of September 2023 and further PCT was filed on September 2024. EESR and ISR returned positive results, indicating **strong prospects for grant**. FRCB-IDIBAPS, HCB and UB share joint ownership.

📊 DEVELOPMENT

The retractor has been **designed and several prototypes have been acquired, optimized and validated** in the laboratory with cadaver specimens.



🧩 LOOKING FOR...

Partners to advance the current **prototypes** to **arrive** an **industrializable version**, ready for large-scale production and final clinical validation.



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