



## HEALTH AND BIOMEDICAL - MEDICAL DEVICE

# Tool for the selective section of the transverse processes of the cervical vertebrae

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<b>Protection</b>	N: IT102020000001702 PCT Extension Ongoing

### TRL scale



### What's needed for?

The patented tool allows access to the transverse foramen contents by partially dissecting the transverse process of the cervical vertebrae. In this way, the effective isolation of the vertebral vessels contained therein is allowed.

In medical, surgical, and veterinary sciences, access to vertebral vessels is a relevant task in academic teaching, practicing forensic medicine and forensic clinical anatomy for judicial purposes, scientific experimentation, and basic research.

An accurate anatomical dissection of the vertebral vessels is currently not easily practicable with the surgical tools available since there are no devoted instruments. These premises necessarily lead to a very high probability of instrumental injury to vertebral vessels, with the consequent medicolegal issues and interpretative dilemmas regarding the pathophysiologic origin of what has been observed. This surgical tool allows to effectively isolate the vertebral vessels safely and quickly, allowing a more accurate and precise manipulation and analysis.

### Advantages

- Ergonomic and safe introduction into the transverse foramen
- Preservation of the integrity of anatomical structures
- Grip cutting system preventing the tool from sliding backwards
- Unneeded sharpening by the blades' anti-wear system
- Bone section easier by the vector distribution of the shearing force

### Applications

Medical, surgical, and veterinary sciences:

- Surgical practice
- Clinical and surgical teaching
- Judicial and clinical oriented autopsies
- Basic research