AL HAGR Retractor
Ear surgery presents mechanical and technical challenges. Due to the proximity to delicate anatomical structures, it requires a complete overview of the surgical field, situational awareness, and great precision.

So far, however, the above have required a large incision, which increases the risk of complications as well as the surgical duration, postoperative pain, and the extent of ear deformation with its associated sensory disturbances.

In the era of minimally invasive surgery, small incisions that still ensure a good overview and simultaneously allow faster wound healing are called for to avoid these problems.

Therefore, it is important to develop instruments that are ideally tailored to requirements to thereby optimize working conditions and provide the best possible patient treatment.

According to these specifications, the AL HAGR retractor was developed in collaboration with Prof. Abdulrahman Hagr, after whom it is named.

The instrument is well suited for many different procedures in head and neck surgery and particularly for cochlear implantation as well as tympanoplasty, one of the most common procedures in ear surgery.

Prof. Abdulrahman Hagr MBBS FRCS(c)
President of Saudi ORL Society
Professor King Saud University
Director of King Abdullah Ear Specialist Center
Director of Prince Sultan Research Chair for Hearing Disability & Implantable Devices
Advantages

Small incisions typically interfere with the graft harvesting necessary for tympanoplasty and fail to provide a clear view of the middle ear. The AL HAGR retractor solves this problem because it can be inserted in incisions that are only 3 cm long and provides a generous view of the temporal fascia even in revision surgeries. In addition, it generates sufficient space for creating a bone bed for cochlear implants.
The length-adjustable retractor blade allows customization to the specific surgical situation.

A conventional light cable is connected to the proximal end of the retractor.

The completely dismantling instrument guarantees optimal cleaning conditions and thereby meets the highest hygienic standards.
The retractor blade is locked in the desired position by the locking wheel.

The integrated light carrier allows optimal illumination of the surgical field.

Since the instrument can be taken apart, components can also be replaced if damaged.
Additional advantages:

Surgery with small incisions

- Reduced risk of complications such as infection, wound dehiscence, or seroma development thanks to the shorter required incision length
- Postoperative, cosmetic advantages thanks to smaller scars and optional avoidance of head shaving
- Reduced postoperative dressing requirements due to small wound cavity
- Faster opening and closing of the wound

Improved working conditions for the surgeon

- Illuminated retractor blade allows much better illumination of the surgical field, with light reflection minimized by the matte surface finish
- Self-retaining design allows the surgeon to use both hands for performing surgery, simultaneously drilling and suctioning
- Therefore, no additional assistant is required during surgery
- Retractor position can be readjusted by the surgeon personally at any time
- Retracted tissue is protected from inadvertent injury
Product information

AL HAGR Retractor,
including:
Fiber Optic Light Carrier
Retractor Arms
Retractor Blade
Light Connector
Fixation Wheel

Recommended light cables and light sources

Fiber Optic Light Cable, with
straight connector, diameter 3.5 mm,
length 180 cm
Same, length 230 cm
Same, length 300 cm
Same, diameter 2.5 mm, length 180 cm
Same, diameter 2.5 mm, length 230 cm

Cold Light Fountain LED NOVA 150,
high-performance LED and one
KARL STORZ light outlet, power supply
110-240 VAC, 50/60 Hz,
including:
Mains Cord

It is recommended to check the suitability of the product for the intended procedure prior to use.
KARL STORZ SE & Co. KG
Dr.-Karl-Storz-Straße 34, 78532 Tuttlingen/Germany
Postbox 230, 78503 Tuttlingen/Germany
Phone: +49 (0)7461 708-0
Fax: +49 (0)7461 708-105
E-Mail: info@karlstorz.com
www.karlstorz.com