



# ***ENT NAVIGATION***

*SIMPLE AND INTUITIVE*

# REVOLUTIONARY NAVIGATION TECHNOLOGY – FOR ROUTINE AND COMPLEX ENT PROCEDURES

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*We at Fiagon believe „patient care“ should be centered around the patient. For us, patient-centered-care means less traumatic procedures for faster recovery time. It means more efficient interventions for reduced surgical time. It means understanding that the difference between a life fulfilled and a life lost can be less than 1 millimeter. Patient-centered-care is why we drive innovation forward.*

In our patient-focused approach Fiagon has risen the bar of IGS navigation. We offer support for endoscopic and minimally invasive surgery with a 0.6 mm navigated Guidewire. We have developed a compact and dynamic platform that optimizes integration and surgical efficiency. To maximize precision, we engineered microsensors into the tip of our instruments.

We have meticulously engineered each innovation to support you in your mission to enhance patient-centered-care.

## ALL BENEFITS AT A GLANCE:

- » Fast and easy measurement of the patient through Photo Registration
- » Greater precision and increased patient safety
- » Cost-effective treatments with reduced rate of subsequent surgeries
- » Unique error detection and compensation in the magnetic field
- » Intuitive and easy-to-use user interface
- » Fully integratable navigation system



## FIAGON ENT NAVIGATION

Fiagon ENT navigation is indicated for Rhinology, Otology, CMF, and Skullbase. The adaptive platform allows for software and hardware to be configured around your needs, offering a customizable experience only Fiagon can provide.

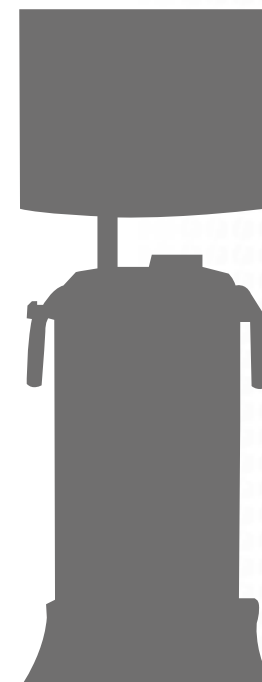
## ZERO FOOTPRINT - INTEGRATION

To reduce our footprint Fiagon developed a system that can be easily integrated into any existing O.R. infrastructure.

- » Workflow maximized
- » Fully integratable
- » Compact navigation system



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## INDICATIONS

### **Functional endoscopic sinus surgery (FESS)**

- » Minimally invasive procedures
- » Preservation of functional structures
- » Restoration of ventilation and drainage

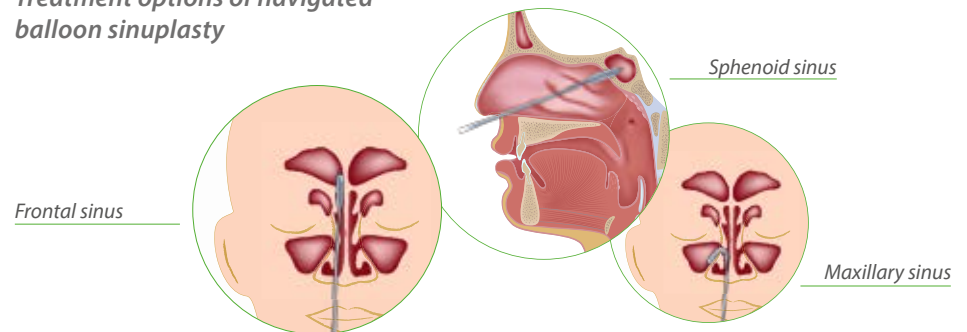
### **Surgery at the anterior skullbase – endoscopic**

- » Minimally invasive through the nose
- » Pituitary tumors
- » Other lesions at the skullbase

### **Balloon sinuplasty**

- » Minimally invasive, since no cutting and removal of bone and tissue is necessary
- » The inflation of the balloon gently expands the paranasal sinus tracts and facilitates normal sinus function
- » The healing process is shorter and the patient has less pain

### **Treatment options of navigated balloon sinuplasty**



### **WITH THE BEST RECOMMENDATIONS:**

*The American Academy of Otolaryngology Head and Neck Surgery (AAO-HNS) endorses the intraoperative use of computer-assisted surgery in accordingly selected cases. This is intended in particular to aid the surgeon during surgeries of the paranasal sinuses and base of the skull when clarifying complex anatomies.*

*The use of computer-aided surgery can be considered appropriate in the following indications, as an example<sup>1</sup>:*

- » Revision surgeries of the paranasal sinuses
- » Developmental, postoperative or traumatic changes in anatomy of the paranasal sinuses
- » Extensive polyposis of the nose and paranasal sinuses
- » Pathological conditions with involvement of the frontal sinus, the posterior ethmoid sinus and the sphenoid sinus
- » Diseases in the direct vicinity of the base of the skull, the orbital cavity, the optic nerve or the carotid artery
- » Cerebrospinal fluid rhinorrhea or diseases with a defect of the base of the skull
- » Benign and malignant sinonasal neoplasms

<sup>1</sup>American Academy of Otolaryngology–Head and Neck Surgery (AAO-HNS). Intra-Operative Use of Computer Aided Surgery. Retrieved on December 23, 2016.

## APPLICATIONS & SOFTWARE EXPANSION OPTIONS

### CMF surgery

Fiagon's navigation software for CMF surgery allows for quick and easy generation of a target structure for the damaged area using symmetry calculation from the undamaged half of the face.

- » For fractures of the zygomatic bone and the orbita
- » Target function – locating and removing foreign bodies

### Tumor navigation

Image fusion software enables, automatic superimpositions of CT, DVT and MRI image data. The fusion can be individually and continuously adjusted and is an indispensable tool in tumor surgery.

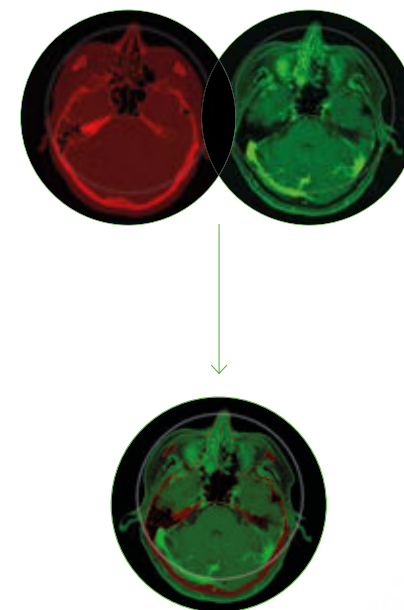
- » For tumors in the frontobasal region, the infratemporal fossa, at the petrous bone and in the foramina
- » Acoustic neuroma

### Ear surgery

The application for ear surgery is also available in combination with the fusion function

- » Interaction with the Fiagon iPad remote control
- » The FinePointer, specially developed for ear surgery
- » Includes large selection of ENT instruments
- » Fully automatic fusion – image fusion of MRI and CT image data

### Fully automatic fusion of MRI and CT images for sinus and ear surgery



# PHOTO REGISTRATION

MEASURE PATIENTS WITH JUST A FEW CLICKS

*The revolution in ENT image guided surgery is here.*

Using photo registration, the images are captured with the iPad and the navigation system calculates the registration. As a result, the quality of the registration is independent of patient and user-specific variables. Photo Registration is an innovative solution which can be used during inpatient as well as outpatient procedures.

- » Fast and easy measurement of the patient through Photo Registration
- » Easy and sterile IGS control with the Fiagon iPad remote
- » Ready-to-use for inpatient and outpatient procedures
- » Removes human error
- » Supports your workflow with maximum O.R. integration
- » For endoscopy and microscopy



# NAVIGATION ON THE SPOT

## WITH THE NAVIGATED INSTRUMENTS FROM FIAGON

**Fiagon instruments have unique proprietary technology allowing navigation to occur directly at the tip. This ensures the highest degree of precision during routine O.R. procedures changing the standard of patient care.**

With the **PointerShell Universal**, nearly every instrument, regardless of manufacturer, can be navigated.

- » Can be used with cylindrical instruments measuring 2.5 to 5 mm
- » Use your own instruments
- » Fast calibration of all instruments during the procedure



The **FlexPointer** is a malleable instrument able to reach nearly every sinus.

- » Navigated at the tip
- » Flexible and bendable
- » Specially developed for ENT navigation



The **FinePointer** is navigated directly at the tip of the instrument enabling the highest possible precision.

- » Navigated at the tip
- » Specially developed for ear surgery
- » Ø 1.5 mm



The **PointerTube Keat** is a navigated suction with an atraumatic olive tip and a working length of approx. 90 mm.

- » Developed with Dr. Siow Jin Keat
- » Olive tip for atraumatic surgery
- » Ø 3 mm

More information by  
scanning the QR code or  
under [www.fiagon.com](http://www.fiagon.com)



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