



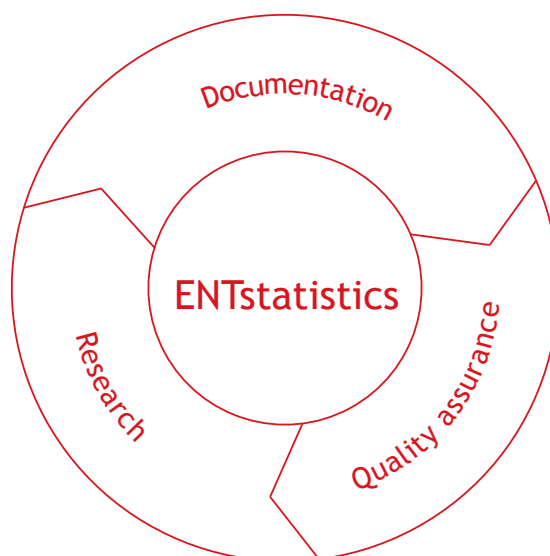
ENTstatistics Otology Module

Why an otology system?

Standard hospital information systems do not meet the specific requirements of a specialised ENT department. Although they provide for efficient access to patient records, they do not offer options such as the comparison of audiograms, the documentation of the results of complex otological examinations, surgeries and their outcomes, the statistical analysis of large data sets or the comparison of various treatment strategies within a clinical trial. But this is exactly what the otology module of the ENTstatistics program is designed to do.

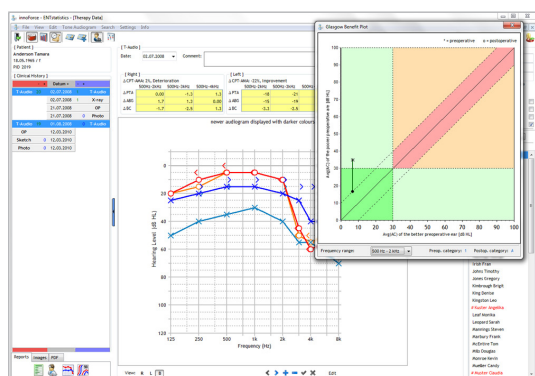
Easy integration of clinical images

While results of audiological examinations are automatically imported with the help of interfaces, other data such as preoperative CT, MRI and x-ray images, intraoperative photos and sketches prepared by the surgeon can be readily transferred to the database by means of a drag'n'drop function. Direct access to all information relevant to a procedure enables users to review cases in their entirety and make evaluations on that basis.



Prospective data collation - the benefits

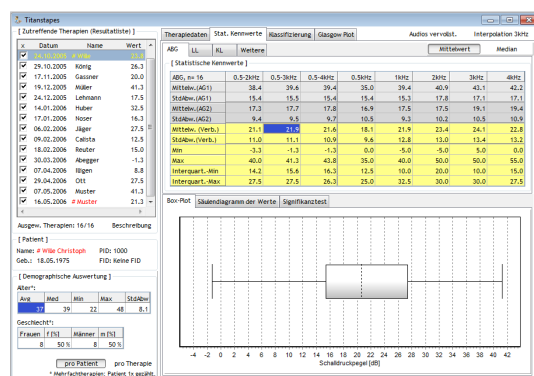
The provision of personalised medical care is a declared aim of contemporary healthcare systems. The otology database contributes to the achievement of this aim because it facilitates the illustration and explanation of the prospective success of a planned procedure, such as ossiculoplasty, during patient consultations. While data provided in major journals can provide guidance, there is no doubt that the individual experience of a surgeon can be of considerable relevance. This can be assessed in relation to the issue in question in ENTstatistics with the aid of just a few mouse clicks.



Audiogram comparison with Glasgow Benefit Plot

Statistical evaluation made easy

The otology module provides surgeons with a wealth of options for analysing data. The information stored in the database can be analysed from various perspectives and key statistical parameters, such as the average improvement of the ABG, can be rapidly calculated or viewed as graphs. This also means that outlier values can be more rapidly identified, an aspect that is relevant to clinical studies and for the increasingly important requirements of clinical reporting.



Statistical evaluation



Prof Joachim Hornung
University Hospital Erlangen
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“Each year, the ENT clinic at Erlangen’s university hospital (under Director Prof. Dr. Dr. h.c. H. Iro) carries out over 600 ear operations, including cochlear implants. At the behest of department head Prof. J. Hornung, ENTstatistics was introduced into the ENT university hospital in Erlangen in 2015 and has significantly helped to manage the vast number of patients and resulting data. Prof. Hornung and his colleagues are particularly impressed with the fast and structured input of data in the operation theatre. All subsequent changes or necessary adjustments to the input masks were made quickly.

Using the ENTstatistics software has significantly improved the process of managing, tracking and scientifically analysing ear surgery patients at the ENT clinic of the university hospital.“