

The unique and innovative
tinnitus assessment module



Expand your possibilities with the



The tinnitus test modality is an integrated application in MADSEN Astera² that expands your possibilities for treating patients with tinnitus.

MADSEN Astera² offers a dedicated application with numerous questionnaires, which is useful when assessing tinnitus (THI, THS, TFI, and BAHIA). These questionnaires are fully integrated offering the advantage of storing, reviewing and sharing data during the assessment and management. This dedicated application also gives the opportunity to perform the most relevant psychoacoustical tests like pitch and loudness matching, minimum masking level (MML), and residual inhibition (RI).

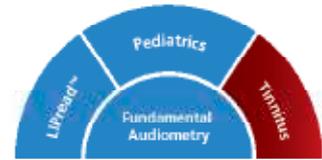
THE FACTS

- Tinnitus Matching
- Minimum Masking Level
- Residual Inhibition
- Questionnaires with Automatic Classification
- T report
- Historical tinnitus data overview (psychoacoustic and questionnaire data)



See the video about MADSEN Astera²
on www.otometrics.com/astera2

tinnitus test modality.

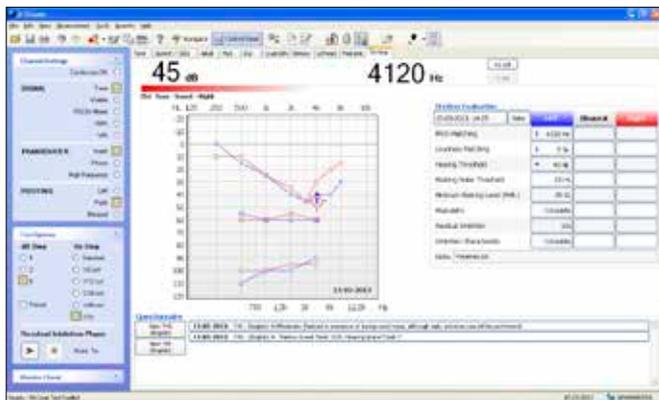


Tinnitus Matching

Tone, Warble, FRESH, NBN and WN are available as signals with high frequency resolution down to 1 Hz steps. You can change octaves up and down from any frequency with a single mouse click. 1, 2 and 5 dB steps are available for loudness matching optionally expressed in dB SL. Tone audiogram displays tinnitus markers. The tinnitus matching data is stored in a table independent of the signal routing. You can perform all established tinnitus matching tasks to describe the patient's tinnitus pitch (including octave confusion) and loudness.

Minimum Masking Level (MML)

There is dedicated data storage for Minimum Masking Level (MML) as well as predefined descriptors (Complete, Partial, None and Exacerbation) that can be optionally expressed in dB SL. You can record and describe the tinnitus maskability. It gives an indication of the appropriate management.



Residual Inhibition

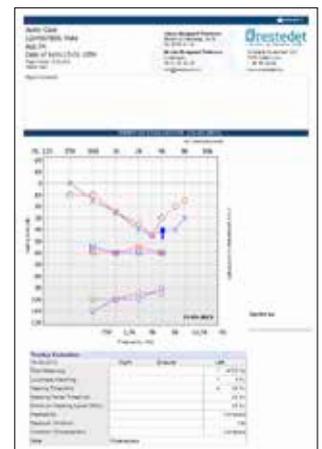
The residual inhibition player presents the noise for one minute and then measures how long it takes for the tinnitus to return. It also contains a predefined characterisation (Complete, Partial, Reduced, and Absent). You can easily manage noise presentation and timing as well as the patient's response to perform a residual inhibition. The result is automatically stored in the table.

Questionnaires with Automatic Classification

Tinnitus Handicap Inventory (THI), Tinnitus Functional Index (TFI) and Tinnitus and Hearing Survey (THS) questionnaires are fully integrated to be filled out on the computer screen or a touch screen. The score is automatically calculated and a predefined description is presented. The data is stored in NOAH as separate questionnaire entries. All the performed questionnaires are listed on the screen with the respective dates and can be clicked for review. They are available in many languages. The large choice of validated tinnitus questionnaires assists in establishing an in depth classification of the symptom and its impact on the patient's life. These questionnaires (THI, TFI, and THS) are used to evaluate the necessary level of management. You can view and print the questionnaires in a language different from what was used to fill out the questionnaire, which is particularly useful in multilingual regions. You can also compare results directly on the screen to monitor progress.

T report

A dedicated tinnitus report is available for the psychoacoustic evaluation. It includes an audiogram with tinnitus markers, a table with pitch and loudness matching, minimum masking level and residual inhibition. The report also includes a tinnitus specific note. You can visualise and share the tinnitus evaluation data in a focused way with a historical tinnitus data overview (psychoacoustic and questionnaire data). All historic tinnitus sessions are readily available in the data view area. You can monitor progress in the tinnitus management. This feature is helpful for providing counselling and selecting the right tinnitus management program. It also facilitates an outcome measure.



Facts about tinnitus

It is estimated that nearly one out of six individuals has some form of tinnitus. This translates to approximately 45 million individuals in the US and more than 135 million individuals in Europe that have some degree of tinnitus. Tinnitus is a disorder that affects about 15% of the entire worldwide population. However, only about 10-20% of those with tinnitus find it annoying enough to seek treatment. With that said, there are between 3,000,000 - 6,000,000 individuals in the US who are seeking help with their tinnitus.

According to ASHA, tinnitus is a fairly common problem and there are many effective methods to manage the sensation. It is recommended to have a medical examination and a full hearing evaluation, which can identify hearing loss that may be associated with the tinnitus. In addition to these two fundamental steps during the management process, it is very important to add a dedicated tinnitus evaluation. MADSEN Astera² offers the unique possibility to conduct this characterisation.

