Otis - the virtual patient

Autonomous Learning - Practice - Consolidation

### New quality standards in audiometry training

Otis – the virtual patient simulates a range of complex hearing defects so that correct audiometry can be administered without having to burden a patient at all. The software intelligently and realistically simulates the behaviour of the patient and detects possible user errors immediately. The program guides the learner through the exercises at several levels of difficulty and provides useful help.

Cost-saving features

- Intensive autonomous training
- Less supervision during audiologist training
- More efficient measurements thanks to more routine
- Otis Pro can be used on any PC for training purposes

Quality enhancing features

- Increased reliability when measuring complex hearing impairments
- Prevention of measurement errors
- Increased reliability and comfort for the patient due to training without hearing test participant
- Completely objective feedback
- Verifiable learning success through voluntary self-monitoring
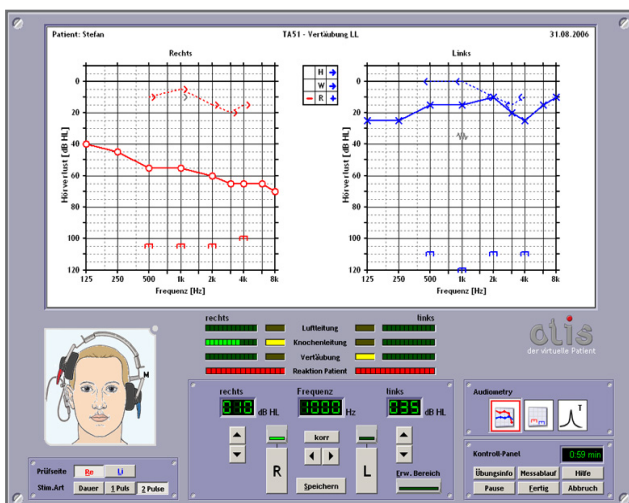
Virtual audiometer

"Audiometry is a matter of practice. Correct results can only be achieved with a great deal of practice and a feeling for the activity – and so beginners need a lot of training. That is what Otis – the virtual patient provides and a book doesn't."

Prof. Annette Limberger

Aalen University
Germany

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Learning functions

		Edition Student	Edition Pro	Edition Expert
Pure-tone audiometry	Hearing thresholds without/with masking	x	x	x
	Uncomfortable loudness levels	x	x	x
	Precise monitoring of the process / Direct feedback if errors made	x	x	x
Additional hearing tests	Tuning fork tests (Weber, Rinne)	x	x	x
	Otoscopy	x	x	x
	Tympanometry	x	x	x
	Medical history / Diagnosis	x	x	x

Evaluation

		Edition Student	Edition Pro	Edition Expert
Overall evaluation	Display exercise evaluation	x	x	x
	Display exam evaluation			x

Tutor functions

		Edition Student	Edition Pro	Edition Expert
Administration of patient profiles	Recording patient profiles with audiogram, tympanogram and otoscopy images		x	x
	Patients with pathologies			x
	Adjusting the cross-hearing values for different transducers			x
Exercise administration	Exercises of different types and at different levels	*1	*1	x
(adjustable parameters)	Individual configuration for monitoring the measuring procedure (Flowchart)			x
	Individual configuration for monitoring patient safety			x
	Individual configuration for checking for correct masking			x
	Automatic testing of non-masked hearing thresholds	x	x	x
	Export / Dispatch of exercises to learners	x	x	x
Exam administration	Defining exams via numerous parameters (see „Exercise administration")			x

*1 No self-check exercises without error indication

General

		Edition Student	Edition Pro	Edition Expert
Audiometric methods	Choice of different testing methods	x	x	x
	User-defined method	x	x	x

More information

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