Tracking.

pathTrack reliably tracks children with suspected hearing disorders for your quality controlled screening.

PATH MEDICAL SOLUTIONS

Automated status generation

Bidirectional remote servicing

Out of the box solution

Highest level of data security

Follow up web interface with automated link to tracking database

Full recording of all measurements and trials without data corruption

Open to other screening instruments

Full quality analysis for all data with respect to the different needs of tracking center, hospital and patient including automated benchmarking

Data filtering for customized training and lectures

Self-checking unique ID to avoid typos and mismatches

10 key features and questions to be answered when using tracking for neonatal hearing screening.

Precise and target-oriented operating through automated generated status

Each data transmission to the tracking software leads to an automatic status generation or update. The system reminds operators automatically if patient require further activities. Separate list functions and popup functions help to manage all cases efficiently-and timely. This will eliminate the problem of overlooking or forgetting children which need a follow-up. Standardized procedures such as reminder letters and phone calls to parents are completely available. All activities are documented consistently in the database. Regions with e.g. 50,000 annual births experience up to 200 data entries per day. Automated status generation is absolutely reliable and helps to reduce the amount of daily work.

pathTrack helped to reduce the loss to follow-up rate in the Hessian Screening Program from about 40% to 0.2%.

Remote servicing from a central point reduces costs

The Tracking Center strives for quality and does not spend much time traveling around for simple maintenance of devices or configuration issues. Unified user lists, risk factors lists and comment lists are serviceable from a central location with remote, bidirectional connectivity from the device to the Tracking Center. Even when temporary devices or exchange units are being utilized, a complete configuration will be transmitted to the unit.

pathTrack provides bidirectional site and facility management – validated since 2010.

Independence from local conditions - available anywhere

Extraordinary solution provides highly secure data exchange between institutions and the Tracking Center. With its installation, the solution is ready to work and does not interfere with the network of hospitals and their patient databases. Via web-service all data is sent directly to or from the Tracking Center. There is no need for tedious interface configurations and adjustments to individual hospital systems.

pathTrack solutions - immediate and usable anywhere

With pathTrack software more than 500.000 children in Germany have been administered in the last few years.

PATH MEDICAL SOLUTIONS

Highest level of data security

When transmitting data to a central server, data security is crucial. The latest state of the art technology must be used to keep up high level security. Separation of personal data from medical data, pseudonymisation and encrypting the data will help as well as private network technology (SSL).

pathTrack data transfer was certified by different German data security officers to provide an adequate high level data security level. Controlled and always adapted to new needs – operated for many years.

Modern instruments reflect more than only measurement results

Sealed probes, noisy air conditions or crying babies are influencing the test but can't be seen at a first glance by reviewing the test result only. Therefore, factors for measuring quality (e.g. artefacts, impedances and calibration data) are provided with the test results. To get a clear picture of the quality of measurements, the system doesn't allow to manipulate data by normal users. Instead users can enter comments describing circiumstances to avoid misunderstandings.

pathTrack is able to indicate the measurement environment of all examinations.

Demonstration of examiners' learning curves concerning their device handling

The effectiveness of the screening program depends highly on the quality of the examiners performance. The lower the failed rate (should not exceed 4 %) the more confident are the parents and the lower is the amount of follow-up investigations. pathTrack reflects the complete outcome of each examiner measurements with statistical curves. It shows the necessity for retraining and sparks the interest for better performance.

With pathTrack a realistic outcome of the examiners performance is visible.

Secure web interface for follow up institutions

Follow up institutions are using a wide variety of equipment and several methods of investigation. They retrieve all previous information, comments, risk factors and medical findings via web frontend from the Tracking Centre. After investigation results can be entered with a few mouse clicks. Next appointments are stored automatically. All information is documented on a printable data sheet and will be sent back to the Tracking Centre. Afterwards pathTrack computes an updated status.

pathTrack enables a simple and complete communication with follow up institutions.

Automated and manual data analysis shows the effectiveness of a quality-controlled screening

Defined issues for screening quality (e.g. reports, queries), collection rates and quarterly figures are a prerequisite of evidence-based medicine and are required to meet benchmarks. All relevant analysis and reference values are easily displayed. In addition, all parameters recorded in the database can be evaluated individually.

pathTrack enables cost-benefit calculations and complete outcome descriptions

The utilization of alternative screening instruments for competitive and quality purposes

Examiners in the hospital may prefer to use alternative instruments because they can do optimal work when they use devices they are most comfortable with. Do not lock out new developments by limiting the tracking database to selected instruments only.

pathTrack is adaptable and has been interfaced with multiple instruments since 2007.

Secure exchange of information with a self-checking screening ID

The foundation for a secure exchange of information between different facilities and the Tracking Centre is a randomized, machine-readable, anonymous and unique Screening ID for each child. Information or medical findings are only recallable if the parents can specify the ID. Devices and database software identify typos and mismatches immediately. Wrong identification is nearly impossible. Without a self-checking ID an error rate of 8-10% is common.

pathTrack identifies children by their unique Screening ID – established in Germany since 2006 .

The data aquired with pathTrack fulfills all needs for a quality assured universal newborn hearing screening program. It has been efficiently used in several German states for many years.