

Speech Understanding Technology

Maintaining physician productivity and improving medical report quality — all while decreasing costs

Emdat's ShadowScribe uses M*Modal speech understanding technology to capture dictation and convert it into a structured and encoded transcription. ShadowScribe can require no change in physician behavior, yet improves production time, reduces per line labor costs, and improves the quality and consistency of medical reports — all while interfacing with your EMR to automatically populate data. ShadowScribe can easily be incorporated into the daily transcription workflow with no capital investment.

Benefits of ShadowScribe

- **No training or changes to dictation habits are required.** Physicians and other medical professionals maintain their dictation habits and speaking style. ShadowScribe captures and comprehends dictation by factoring into the process the way people really speak, regardless of dialect, accents, speaking styles, dictation habits, grammar, mispronunciation or speaking rate. ShadowScribe boasts a physician adoption rate of over 80% and utilization across all medical specialties and work types. Dictating users conduct business as usual and do not even need to be aware that ShadowScribe is being used. There's no need to "train" the system by reading a pre-defined set of text, and users can be added at anytime.
- **Improved production time and reduced labor costs.** For many MTs, productivity is limited by typing speed. Physicians can speak 200–300 words per minute, but most typists can only average about 65–90 words per minute (this includes correcting typos). Consequently, on average, an MT will spend about 4.5 minutes producing a transcript for every one minute of dictation. With ShadowScribe, a medical transcriptionist (MT) evolves into a Medical Language Specialist (MLS), a transcription editor. An MLS focuses on the structure and content of the draft clinical document rather than transcribing the entire report. Typically, an MT produces about 110-130 lines of transcription per hour. With ShadowScribe, an MLS achieves an average rate of 220-250 lines per hour – a 100% increase in productivity – because they review draft reports rather than typing them from scratch.

Dictation/transcription solutions that automatically interface with EMRs/EHRs produce the highest quality medical document for the lowest cost, all while maintaining physician productivity and attentive patient care.

ShadowScribe allows the person recording a dictation to speak in a natural manner.

The unique combination of speech recognition and natural language processing means ShadowScribe will recognize and understand natural speech patterns and automatically capture clinical facts and orders (as opposed to just text) to create structured and encoded HL7 CDA documents.

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- **Improved quality and consistency of medical reports.** ShadowScribe's context-related interpretation puts dictation into context in relation to the facts and circumstances surrounding that patient's particular situation or event. It automatically converts dictation into narrative text and structured, encoded data with the proper grammar and punctuation. ShadowScribe represents clinical notes as dictated, while automatically placing the content in sections and lists as defined by best practices, understanding medications, dosages, measurements and more.
- **Easy Integration.** No additional hardware or software is required to engage ShadowScribe. Emdat provides on-going developer support throughout the workflow integration process. ShadowScribe is hosted in a secure data center where hardware, software, back-ups, and disaster recovery are administered. Software is updated frequently to ensure all clients are using the best speech understanding technology available.

About On~Time Transcription

On~Time Transcription is fully integrated to ShadowScribe and requires no capital investment. We can outsource your transcription to our editors or train your in-house transcriptionists to be editors and act as a backup to them. You will experience faster turnaround time, lower costs and your physicians will maintain their productivity.

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