

Medical Records Search

Positioned to become a transformative force in healthcare, Perfect Search's revolutionary indexing and search technology delivers unparalleled speed, precision and performance.



Unstructured Clinical Notes Data and Structured Medical Records



Perfect Search is able to fully index and search both unstructured clinical notes data and structured data.

This includes full text search of structured fields, enumerated and range search

variables and classification, as well as semantic codes and modifiers. Perfect Search's hierarchies of indexes and multidimensional access to indexed data for structured fields is combined with full text, semantic and phonetic unstructured data searching. The result: unprecedented access and insight into your organization's data.

Comprehensive Search

The ability to quickly index and recall both structured and unstructured records—each with multiple dimensions of search classifications and term relevance—through the same architecture and user interface empowers users with insight into their existing information never before possible.

Cost Effective Scalability and Green Technology

The increased efficiencies and innovation inherent in Perfect Search's software technology allows it to operate on up to 90% less hardware than similar solutions—delivering immense savings related to space, power, cooling, as well as human capital. Compared with open source Lucene, Microsoft FAST, Autonomy, Google, and others, Perfect Search provides far superior scalability.

Always Current Index

Users are able to add data via incremental indexes in real time without performance loss or data degradation. In the healthcare space, this ability enables clients to always have up-to-date and real time insight into critical data. Incremental updates run at speeds independent of the size of the overall data base or current index size.

Indexing Speed

Perfect Search indexes up to five million complex medical records a day on a single server. This blazing speed enables new digital information to be seamlessly indexed on an on-going basis and also permits limitless amounts of historical data to be indexed and made available for quick and efficient querying.

Unparalleled Performance

Perfect Search requires a mere fraction of the computational power other systems require. Users can run multiple complex ad hoc queries and reports in real time without the danger of "bringing down the system". This is enabled through a patented indexing and search software approach that is exponentially more efficient than traditional solutions.





Deep Data Mining

Perfect Search's ground-breaking technology and tools empower and equip users with the ability to connect to data faster, with less IT involvement and hassle—utilizing only a fraction of the hardware and computational power required by other systems.

NLP Integration

Perfect Search works with Natural Language Processing technologies to glean the most from your unstructured clinical notes data.

Preprocessing Advantages

Perfect Search optimizes unstructured medical text, combined with NLP expert systems' output through a customizable preprocessing step, to enhance search for structured xml, as well as free text. Gaps in the expert system regarding—for example, medical classification codes and medications—can be bridged by specialized processing to improve accuracy of results.

Custom Reporting and Export Queries

Perfect Search is able to produce specific reporting queries unique to your organization's needs. Search results are returned in easy to use XML and can be utilized in external reporting modules and engines—results can be exported to Excel, CSV, and pdf.

Sharing, Saving and Logging of Search Queries

Users have the ability to save and log search queries and can share them across the user base.

AND, OR, & NOT

Perfect Search is able to incorporate AND, OR, & NOT functionality into queries.

Fuzzy Searches

The technology supports Synonym, Hypernym, Hyponym, Spelling errors, "Sounds Like" and Parts of speech queries. Perfect Search is also able to integrate with existing taxonomies.

Word Sense Disambiguation

As NLP processing disambiguates word senses, specialized phrase and term indexing can enable unambiguous queries for those word senses.

Alerts

Perfect Search is able to support Alert Query/Rule Set up.

Search Relevance

Tailored to meet specific customer needs and unique use cases, relevance algorithms may be adjusted via the indexing rules that enable the multidimensional hierarchy of indexes. The relevance algorithm can also be modified through a runtime query splitting module, as well as in the interface UI or post-processing scripts and reports.

Easy to Use UI with Customizable Option

Perfect Search offers a base tool and user interface which allows for complex queries to be created and run in real time by clinicians, research physicians and hospital administrators, with limited involvement from IT. The UI is easily exportable and customizable.

Ease of Deployment

Perfect Search technology can be deployed in the cloud, as SDK for OEM, or as an appliance.



Find the information you need when you need it.™