PitMiner

Supporting clinical research in medical imaging.

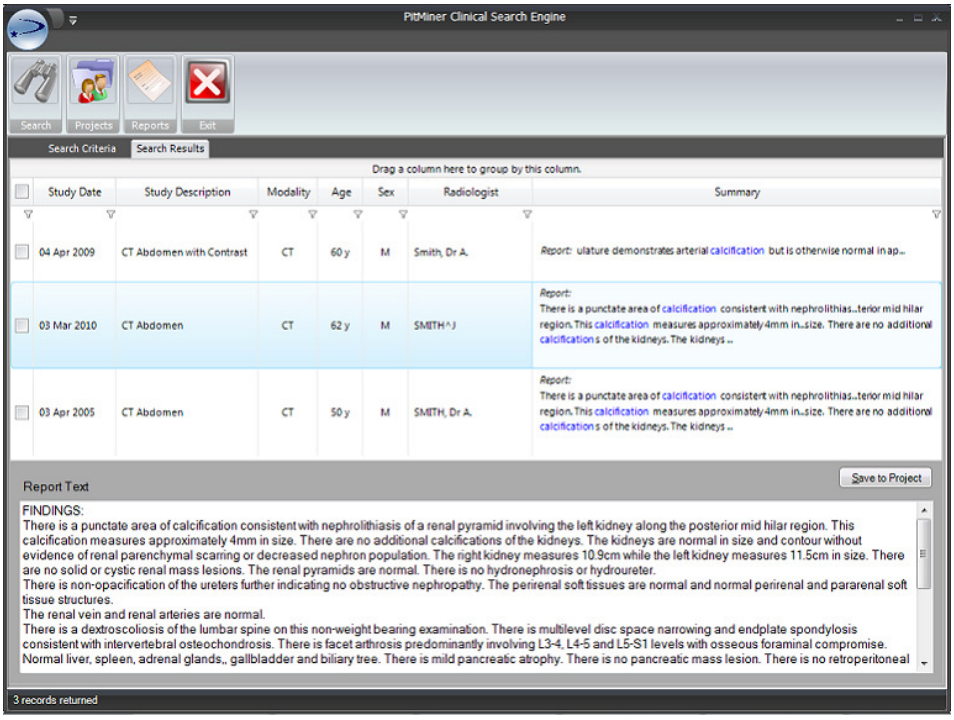
PitMiner is a simple but powerful product, designed to meet the needs of medical specialists and researchers by providing fast and accurate interrogation of the reports database.

PitMiner allows the user to perform text based searches against their local clinical report repository via an intuitive user interface. The results are available for review immediately, or can be stored as a user definable project for later use. In addition to free text searches, key attributes, such as modality, sex and age, can be used to filter results to meet research requirements.

PitMiner allows researchers to harness the rich repository of clinical data, built up over years of diagnostic reporting, without the need to understand the database structure or the use of complex queries.

Search results are presented to allow effective assessment of the report's relevance to the research work.

PitMiner search results are presented with snippets from the report, highlighting the context of where the word was found withinin the report. The full report can be viewed within the result page for ease of assessment.



Highlights:

- Fast text based searches
- Filter based on modality and other patient or study attributes
- Save results to a project for later review
- Secure access managed through user accounts.
- Report repository is populated through standard HL7 messages.

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Detailed search criteria can be easily specified to meet research requirements.

Text Based Searches

PITMINER supports text searches within reports stored in the clinical repository. Searches can be narrowed using terms that need to appear within the report. For example "carcinoma" or “thoracic”. Text searches can be defined against:

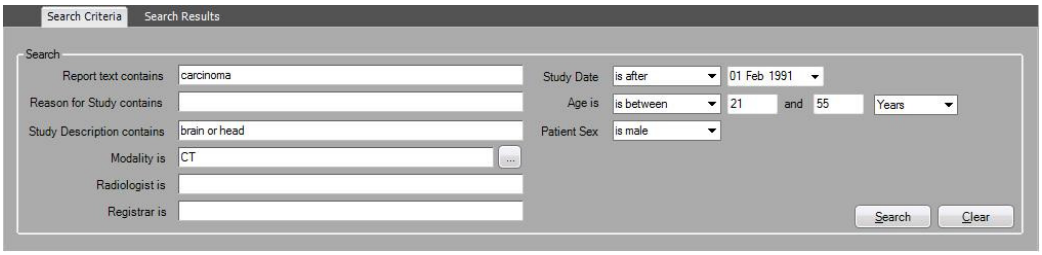
- Report text
- Reason for Study text
- Study Description text

Any combination of these can be used for text searches, and Boolean logic can be applied to perform searches with multiple terms or to exclude terms within the text.

Attribute Searches

Attributes can be used for filtering the reports to be used in the text search. The attributes that can be used for searching are:

- Sex (Male or Female)
- Age (greater than, less than or between)
- Modality (multi-selection)
- Study Date (earlier than, later than or between)



PITMINER has aided the research work of radiologists at Royal Brisbane and Women’s Hospital.

“We introduced PitMiner as a search engine in early 2010. We have come to use Pitminer as an indispensible tool in our daily radiological life; data searches are no longer being dreaded to be time-consuming and inefficient. I can strongly recommend PitMiner to anybody having to filter large amounts of saved data, be it for audits, research or teaching purposes.”

Karin Steinke
Consultant Radiologist RBWH
Associate Professor, University of Queensland — School of Medicine