Pre-processed report

"Report"

Importation of textual variables

ECMT

Query sent to ECMT

Results retrieved by sentence

UrgIndex

"Report_twice"

Patients selected

Natural language

"phrase"

Textual variables divided into phrases

Punctuations, certain coordinating conjunctions and prepositions: language divided into syntagmas

Negations: exclusion of corresponding concepts

Abbreviations or non-standard spelling: replaced by standard terms

Removing of numeric variables

Re-concatenation in phrases

Suspected infections identified from 4 filter tables

"Table_Apr_filter"

Processed data recorded in tables

"Complaint" "Observations" "Procedures" "Prescriptions" "..."