

Appendix 1. Search strategy

Scopus

- 1 ALL ("clinical notes" OR "medical notes" OR "clinical narratives")
- 2 ALL ("natural language processing" OR "medical language processing" OR "text mining" OR "information extraction")
- 3 ALL ("chronic disease" OR "heart disease" OR "stroke" OR "cancer" OR "diabetes" OR "lung disease"))
- 4 1 and 2 and 3
- 5 PUBYEAR AFT 2006 AND LANGUAGE (English)
- 6 DOCTYPE (ar)
- 7 4 and 5 and 6

Web of science

TOPIC:(("clinical notes" OR "medical notes" OR "clinical narratives") AND TOPIC:(("natural language processing" OR "medical language processing" OR "text mining" OR "information extraction") AND TOPIC:("chronic disease" OR "heart disease" OR "stroke" OR "cancer" OR "diabetes" OR "lung disease"))
Timespan: 2007-2018.

PubMed Keywords

((("clinical notes"[All Fields] OR "medical notes"[All Fields] OR "clinical narratives"[All Fields]) AND ("natural language processing"[All Fields] OR "medical language processing"[All Fields] OR "text mining"[All Fields] OR "information extraction"[All Fields])) AND ("chronic disease"[All Fields] OR "heart disease"[All Fields] OR "stroke"[All Fields] OR "cancer"[All Fields] OR "diabetes"[All Fields] OR "lung disease"[All Fields])) AND ("2007"[PDAT] : "2018/02/06"[PDAT])

ACM Digital Library

("Clinical notes" "clinical narratives" "medical notes")
+ ("natural language processing" "text mining" "medical language processing" "information extraction")
+("chronic disease" "heart disease" "stroke" "cancer" "diabetes" "lung disease")
All limited from January 1, 2007 to February 6, 2018.