**Detailed Methods**

**Overview:** This document provides a comprehensive explanation of the process used to retrieve EHR publications data from MEDLINE and Embase.

The *Figure 1* and *Figure 2* show the trends in the total number of EHR publications with geotagging and the proportions of EHR publications by study population, retrieved from MEDLINE and Embase, from 2014 to 2024. The data in *Figures 1* and *Figure 2* were both retrieved on February 6, 2025, from Ovid MEDLINE(R) ALL <1946 to February 5, 2025> and Embase <1974 to February 5, 2025>.

The key difference lies in the search terms used. *Figure 1* employed a multi-purpose (.mp.) search to identify keywords across multiple fields (see appendix A), while *Figure 2* utilized EHR-related subject headings from MeSH and Emtree (see appendix B). Geographic region-related subject headings of study population from MeSH and Emtree were used to retrieve EHR publications (see Appendix C).

*Figure 1: Trends in the Total Number and Proportion of EHR Publications with Geotagging Over Time by Study Population. The top panel presents the annual total number of EHR publications with geotagging retrieved from MEDLINE and Embase. The middle and bottom panels illustrate the distribution of study populations in MEDLINE and Embase, respectively, highlighting shifts in composition across different years.*

Date of query: February 6, 2025

Databases:

* Ovid MEDLINE(R) ALL <1946 to February 05, 2025>
* Embase <1974 to 2025 February 05>

Search terms:

* MEDLINE: (EHR or EMR or electronic health record\* or electronic medical record\* or electronic patient record\*).mp.
* Embase: (EHR or EMR or electronic health record\* or electronic medical record\* or electronic patient record\*).mp.

*Figure 2: Trends in the Total Number and Proportion of EHR Publications Over Time by Study Population. The top panel presents the annual total number of EHR publications retrieved from MEDLINE and Embase. The middle and bottom panels illustrate the distribution of study populations in MEDLINE and Embase, respectively, highlighting shifts in composition across different years.*

Date of query: February 6, 2025

Databases:

* + Ovid MEDLINE(R) ALL <1946 to February 05, 2025>
  + Embase <1974 to 2025 February 05>

Search terms:

* + MEDLINE: (exp electronic health records/)
  + Embase: (exp electronic health record/ or electronic medical record/ or electronic patient record/)

**Appendix A[[1]](#footnote-1)**

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A screenshot of a computer

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A screenshot of a computer

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**Appendix B[[2]](#footnote-2)**

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**Appendix C**





**Appendix D**

Date of query: February 18, 2025

Databases:

* Ovid MEDLINE(R) ALL <1946 to February 17, 2025>
* Embase <1974 to 2025 February 17>

Search terms:

* MEDLINE: (EHR or EMR or electronic health record\* or electronic medical record\* or electronic patient record\*).mp.
* Embase: (EHR or EMR or electronic health record\* or electronic medical record\* or electronic patient record\*).mp.



**Appendix E**

Date of query: February 18, 2025

Databases:

* Ovid MEDLINE(R) ALL <1946 to February 17, 2025>
* Embase <1974 to 2025 February 17>

Search terms:

* MEDLINE: (exp electronic health records/)
* Embase: (exp electronic health record/ or electronic medical record/ or electronic patient record/)



1. https://wkhlrp.my.site.com/ovidsupport/s/contentdocument/0693w000007kcPcAAI [↑](#footnote-ref-1)
2. https://www.ncbi.nlm.nih.gov/mesh/?term=electronic+health+records [↑](#footnote-ref-2)