

The Effectiveness Of Syndromic Surveillance For The Early Detection Of GI Infections: A Systematic Review

Ph.D. Researcher: Olubusola Adedire

BACKGROUND

Early detection is essential for successful prevention and management of gastrointestinal (GI) infections. UKHSA coordinates a programme of GI surveillance including laboratory reporting of viral and bacterial pathogens. In addition to traditional GI surveillance, syndromic surveillance can be utilised to support laboratory surveillance.

Real-time syndromic surveillance provides public health intelligence to aid in early warning and monitoring of public health impacts, or reassurance when an impact has not occurred. It uses information collected during routine patient care based on signs, symptoms, or preliminary diagnoses.

Examples of syndromic surveillance data range from; calls from those who are ill in the community to telehealth advice phone lines to patients attending in person in primary care, or in emergency care situations including emergency departments (ED).

METHODS

LITERATURE SEARCH

The search strategy will include searching the Cochrane Library, Medline/PubMed, EMBASE, Scopus, and Web of Science for relevant published articles using a combination of the keywords related to both Syndromic Surveillance, and Gastrointestinal infection, for example:

("syndromic surveillance" OR "real-time surveillance" OR "real time surveillance" OR "syndrome surveillance" OR "early detection" OR "chief complaint" OR "presenting complaint")

AND ("Gastrointestinal infection" OR "gastrointestinal activity" OR "diarrhoea" OR "diarrhea")

Grey literature such as conference abstracts will be excluded and other studies like systematic reviews, interviews, case reports, newsletters, government reports, technical reports, and dissertations will also be excluded. The publication period will be set from 2000 to date, and only peer reviewed publications in English will be included in the search strategy. The bibliographies of the eligible articles will be screened to identify additional studies. We will also search Google Scholar for articles using the same key words to assess potential publications not identified in the bibliographic databases.

WARWICK

ERPOOL

National Institute for Health Research

AIM:

To identify and describe evidence of the utility of syndromic surveillance for the early detection and monitoring of GI infection.



The research was funded by the National Institute for Health Research Protection Research Unit (NIHR HPRU) in Gastrointestinal Infections at University of Liverpool in partnership with the UK Health Security Agency (UKHSA), in collaboration with University of Warwick. The views expressed are those of the author(s) and not necessarily the NIHR, the Department of Health and Social Care or the UK Health Security Agency.

Security

Agency