

A systematic review of the prevalence of type 2 diabetes and cardiovascular diseases in
Kenya

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Review question

What is the estimated prevalence of type 2 diabetes and cardiovascular diseases (CVD) in Kenya?

Searches

We will search for articles indexed in PubMed, CINAHL, EMBASE, PsycINFO, Global Health, and African Index Medicus from January 1990 to September 2016. Our search strategy will include keywords, medical subject headings (MeSH) terms, and exploded headings. The keywords found in the retrieved articles will feed back into the search strategy. We will also look at the reference list of the articles found through the database search and include the articles relevant to our topic of review. We will consider the articles which are published in or have been translated to English for this review. One author (Margaret J. Foster) expert in searching the databases would run the searches.

Types of study to be included

Prevalence studies, cross-sectional, survey/national surveys, observational studies.

Condition or domain being studied

Type 2 diabetes and cardiovascular diseases.

Participants/population

Adults of age 15 years and above in Kenya.

Intervention(s), exposure(s)

Not applicable.

Comparator(s)/control

Not applicable.

Context

Primary outcome(s)

Prevalence of type 2 diabetes and CVD.

Secondary outcome(s)

None.

Data extraction (selection and coding)

Two authors will be involved in data extraction. After the final decision to include into the review, data will be extracted from all the relevant articles using a standardized form which includes the following variables: authors, publication year, location, study design, population, study setting (rural, urban, semi-urban, urban slums, others), geographical area, study period, prevalence with 95% CI of diabetes and CVD.

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Risk of bias (quality) assessment

At least two reviewers would independently appraise study quality and disagreement would be resolved by using adjudication by the third reviewer. We will utilize the Joanna Briggs Institute's risk of bias assessment for prevalence studies.

Strategy for data synthesis

We will do a systematic review initially and later we will do a meta-analysis of our review. Primary analyses: The effect size of interest for this meta-analysis will be the proportion of adults with diabetes and CVD.

Analysis of subgroups or subsets

- Diagnostic Criteria
- Sex
- Study Setting
- Geographical Region

Contact details for further information

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Organisational affiliation of the review

None.

Review team members and their organisational affiliations

Mr Muhammad Abdul Baker Chowdhury.
Ms Rahma Mkuu.
Dr Margaret Foster.

Anticipated or actual start date

25 November 2016

Anticipated completion date

30 April 2017

Funding sources/sponsors

None

Conflicts of interest

None known

Language

English

Country

United States of America

Stage of review

Review_Ongoing

Subject index terms status

Subject indexing assigned by CRD

Subject index terms

Cardiovascular Diseases; Diabetes Mellitus, Type 2; Humans; Hypertension; Kenya; Prevalence

Date of registration in PROSPERO

PROSPERO
International prospective register of systematic reviews

21 November 2016

Date of publication of this version

21 November 2016

Details of any existing review of the same topic by the same authors

Stage of review at time of this submission

Stage	Started	Completed
Preliminary searches	Yes	No
Piloting of the study selection process	No	No
Formal screening of search results against eligibility criteria	No	No
Data extraction	No	No
Risk of bias (quality) assessment	No	No
Data analysis	No	No

Versions

21 November 2016

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