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

Muhammad Abdul Baker Chowdhury, Rahma Mkuu, Margaret Foster

Citation

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.
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.
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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
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

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Versions
21 November 2016

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