Non-adherence to antihypertensive medication in asian countries
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Download date: 26. Jan. 2020
Non-adherence to antihypertensive medication in Asian countries: a systematic review and meta-analysis

Sajid Mahmood, Kifayat Ullah Shah, Zahraa Jalal, Tahir Mehmood Khan, Una Martin, Mamoona Dar

Citation

Review question
What is an average value for non-adherence to antihypertensive therapies across the entirety of Asia?

What is the rate of non-adherence according to gender in such populations?

Searches
The following electronic bibliographic databases: MEDLINE, EMBASE, PubMed, Scopus, Google Scholar, Cochrane Library (Cochrane database for systematic reviews), CINAHL (The Cumulative Index to Nursing and Allied Health Literature).

Studies published in English language on hypertensive patients between 2000 and 2018 will be included in our review.

The Different search terms will be used like Medication Compliance OR Medication adherence OR Medication non compliance OR Medication non adherence AND Morisky medication adherence scale OR MMAS AND Antihypertensive therapy AND using patient self reported questionnaire AND name of each country in Asia to limit our search.

Types of study to be included
All studies types will be included except the ones that fulfilled the exclusion criteria.

Condition or domain being studied
Non-adherence to anti-hypertensive therapies

Participants/population
Inclusion: All original cross sectional studies published in English language on hypertensive patients between 2000 and 2018 will be included in our review.

Exclusion: We will exclude all studies that reported inconsistent data or incomplete data with respect to our review. Studies published in language other than English will also not included. Studies on Asian population residing outside Asia were also not in our review. Studies on Children and adolescents (under 18 years of age) and pregnant women, if any will also be excluded.

Intervention(s), exposure(s)
Measurement of non-adherence to prescribed anti-hypertensive therapies by using different questionnaires/tools e.g. Morisky medication adherence scale etc.

Comparator(s)/control
Not Applicable

Context
Patients with hypertension using anti-hypertensives as major treatment for the hypertension.
Main outcome(s)
Degree/extent of Non-adherence to prescribed therapy (percentage).

Additional outcome(s)
None

Data extraction (selection and coding)
The searching will be done in two steps. first, studies will be identified by initial screening of titles and abstract. then full text screening will be done for the selected articles. the screening process will be carried out independently by two reviewers any conflict regarding the selected articles will be resolved by consulting the third reviewer. A standardized pre-pilot data extract form will be used for data extraction.

Risk of bias (quality) assessment
Since different types of studies will be included, the assessment will be carried out using the suitable checklist for each study design. For this purpose National Institute of Health (NIH) quality assessment tool will be used. The process will be done by two reviewers independently.

Strategy for data synthesis
Narrative synthesis of the quantitative data along with thematic data synthesis of the qualitative data will be done. The synthesis process will be done in three stages. the quantitative and the qualitative synthesis will be carried out in parallel and then third synthesis where combining the results of the two previous synthesis will take place.

Analysis of subgroups or subsets
If necessary data is available, subgroup analysis will be performed for the degree of non-adherence in different regions of Asia (East Asia, South Asia and Middle East) Gender wise magnitude of non-adherence to prescribed anti-hypertensive therapies will be also analysed.

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Anticipated or actual start date
10 November 2018

Anticipated completion date
31 December 2018

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Conflicts of interest

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English
Country
Pakistan

Stage of review
Review_Ongoing

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Subject indexing assigned by CRD

Subject index terms
Antihypertensive Agents; Asia; Humans; Hypertension; Medication Adherence

Date of registration in PROSPERO
13 December 2018

Date of publication of this version
13 December 2018

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

Stage of review at time of this submission

<table>
<thead>
<tr>
<th>Stage</th>
<th>Started</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary searches</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Piloting of the study selection process</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Formal screening of search results against eligibility criteria</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Data extraction</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Risk of bias (quality) assessment</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Data analysis</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Versions
13 December 2018

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