

Evaluation of resistance of human head lice to pyrethroid insecticides *ebrahim abbasi*

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Review question

Evaluation of resistance of human head lice to pyrethroid insecticides

Searches

The resources and databases we review will include the following:

PubMed/MEDLINE, EMBASE, Scopus, Web of Science, Proquest, scholar google, academic.microsoft, scienceopen, Bioone.org And We will not have any restrictions on language and location.

Search strategy

https://www.crd.york.ac.uk/PROSPEROFILES/215924_STRATEGY_20201023.pdf

Types of study to be included

We will not consider any spatial or linguistic restrictions, and our main entry criteria will be the inclusion all cross-sectional studies, including descriptive and analytical cross-sectional studies based on population, at least one of the goals of which is the resistance of human head lice to pyrethroid insecticides will be included. Therefore, we will use all descriptive studies or cross-sectional descriptive study data

Condition or domain being studied

The human head louse, *Pediculus humanus capitis*, is a cosmopolitan blood-sucking ectoparasite affecting mostly schoolchildren in both developed and developing countries. chemical pediculicides are the first line of treatment, with permethrin as their main active ingredient. Despite the extended use of these products, there is currently no research of systematic review investigating insecticide resistance in world head lice. In head lice, the most common mechanism is knockdown resistance (kdr), which is the result of two point mutations and the associated amino acid substitutions, T91I and L920F, within the voltage-sensitive sodium channel (VSSC).

Participants/population

In this systematic review, all cross-sectional studies, including descriptive and analytical cross-sectional studies based on population, at least one of the goals of which is the resistance of human head lice to pyrethroid insecticides will be included. Therefore, we will use all descriptive studies or cross-sectional descriptive study data

Intervention(s), exposure(s)

Given that the type of study will be prevalent, we will not have any intervention or confrontation

Comparator(s)/control

Given that the type of study will be prevalent, we will not have any comparators or controls

Main outcome(s)

Evaluation of resistance of human head lice to pyrethroid insecticides

* Measures of effect

Our study will be prevalent

Additional outcome(s)

Our study will be prevalent, and according to our review question, which includes all pyrethroid insecticides, it is likely that we will have a subgroup at the end, given that no systematic study has been done in this area and we will do it for the first time.

* Measures of effect

Our study will be prevalent, and according to our review question, which includes all pyrethroid insecticides, it is likely that we will have a subgroup at the end, given that no systematic study has been done in this area and we will do it for the first time.

Data extraction (selection and coding)

In this systematic review, all cross-sectional studies, including descriptive and analytical cross-sectional studies based on population, at least one of the goals of which is the resistance of human head lice to pyrethroid insecticides will be included. Therefore, we will use all descriptive studies or cross-sectional descriptive study data

Risk of bias (quality) assessment

Given that our study will not take into account any spatial or linguistic limitations and we will have access to all the initial studies that will be included in our study, so we will try not to have any bias.

Strategy for data synthesis

Free mendeley software will be used for resource management and R or Stata software for meta-analysis.

Analysis of subgroups or subsets

If there is diversity in variables or low methodological heterogeneity, a subprope can be formed if needed, although this will be considered a comparative advantage.

Contact details for further information

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Organisational affiliation of the review

Shiraz University of Medical Sciences

Review team members and their organisational affiliations

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Type and method of review

Meta-analysis, Systematic review

Anticipated or actual start date

01 July 2020

Anticipated completion date

01 January 2021

Funding sources/sponsors

We had no Grant number

Conflicts of interest

Language

English

Country

Iran

Stage of review

Review Ongoing

Subject index terms status

Subject indexing assigned by CRD

Subject index terms

MeSH headings have not been applied to this record

Date of registration in PROSPERO

22 November 2020

Date of first submission

22 October 2020

Stage of review at time of this submission

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

The record owner confirms that the information they have supplied for this submission is accurate and complete and they understand that deliberate provision of inaccurate information or omission of data may be construed as scientific misconduct.

The record owner confirms that they will update the status of the review when it is completed and will add publication details in due course.

Versions

22 November 2020

PROSPERO

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