

# SEVERE NEUROTOXICITY OF ORAL IVERMECTIN: A SYSTEMATIC REVIEW OF CASES AND CASE SERIES

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## Objective

- Assess the evidence about severe neurological toxicity cases after ivermectin use.

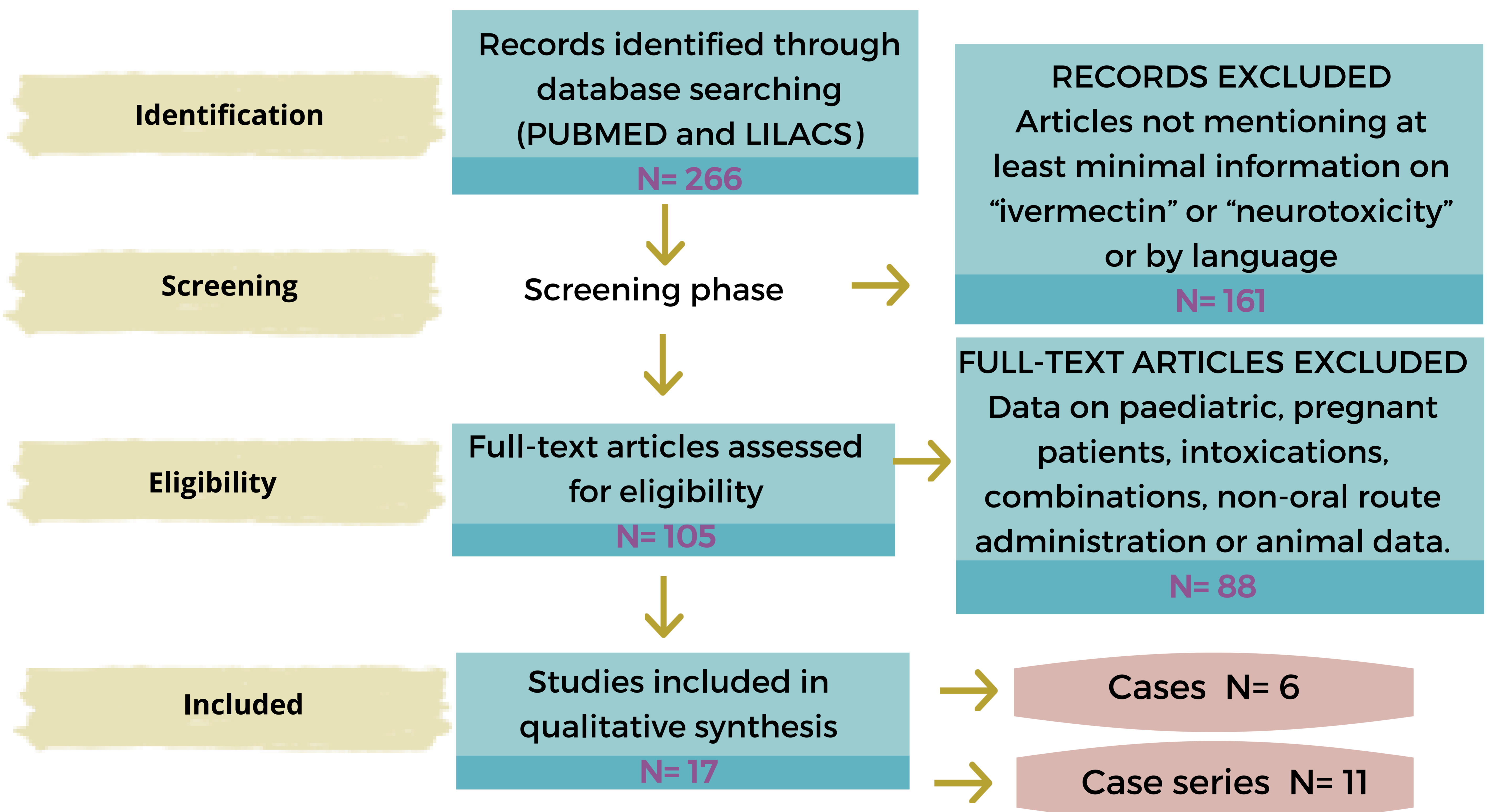
## Material and Methods



### Systematic review following PRISMA recommendations

a search combining terms associated with "ivermectin" and "drug toxicity" was conducted of MEDLINE, and LILACS databases for all relevant English- and Spanish-language articles from inception through 30 September 2021

## Results



- IVERMECTIN was used to treat strongyloidiasis, onchocerciasis, loiasis and scabies.
- 17 studies reported severe neurotoxicity occurrence such as CONSCIOUSNESS DISORDERS, SEIZURE or CONVULSION, ENCEPHALOPATHY and COMA.

## Conclusions and relevance

- Severe neurotoxicity after ivermectin use must be detected early to avoid fatal consequences.
- Authors related this toxicity with Human ABCB1 nonsense mutations that allows ivermectin penetration into the central nervous system. This could be a future field of research.