

Serological diagnosis of soil-transmitted helminth (*Ascaris*, *Trichuris* and hookworm) infections: a scoping review

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Supporting information 2 - Detailed search strategy

1. Literature search

1.1 Ovid MEDLINE

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations and Daily <1946 to September 23, 2022>

- 1 (Serol* or seroprev* or seropos* or seroneg* or serodiagn*).tw.
- 2 (ELISA or enzyme*linked*immunosorbent*assay* or lateral*flow*assay* or LFA or point*of*care or POC or multiplex or western*blot or rapid*diagnostic*test or RDT or immunoassay* or diagnos*).tw.
- 3 (Blood or serum or plasma).tw.
- 4 (STH or soil*transmitted*helminth* or geohelminth*).tw.
- 5 (Ascar* or roundworm*).tw.
- 6 (Trichuri* or whipworm*).tw.
- 7 (Hookworm* or An#ylostoma or Necator).tw.
- 8 2 and 3
- 9 1 or 8
- 10 4 or 5 or 6 or 7
- 11 9 and 10

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations and Daily <1946 to October 11, 2022>

- 1 (Ascar* or Trichur* or hookworm*).mp.
- 2 ((antigen* or immunogen*) adj2 (protein* or peptid*)).mp.
- 3 1 and 2

1.2 Embase

Sources Embase, MEDLINE, Preprints
1946 to September 23, 2022

Query (serol*:ab,ti OR seroprev*:ab,ti OR seropos*:ab,ti OR seroneg*:ab,ti OR serodiagn*:ab,ti OR ((elisa:ab,ti OR enzyme*linked*immunosorbent*assay*:ab,ti OR lateral*flow*assay*:ab,ti OR lfa:ab,ti OR point*of*care:ab,ti OR poc:ab,ti OR multiplex:ab,ti OR western*blot:ab,ti OR rapid*diagnostic*test:ab,ti OR rdt:ab,ti OR immunoassay*:ab,ti OR diagnos*:ab,ti) AND (blood:ab,ti OR serum:ab,ti OR plasma:ab,ti))) AND (sth:ab,ti OR soil*transmitted*helminth*:ab,ti OR geohelminth*:ab,ti OR ascar*:ab,ti OR roundworm*:ab,ti OR trichuri*:ab,ti OR whipworm*:ab,ti OR hookworm*:ab,ti OR an*ylostoma:ab,ti OR necator:ab,ti)

Mapped terms n/a

1.3 Cochrane Library

Date Run: 24/09/2022 19:24:19

- #1 (Serol* OR seroprev* OR seropos* OR seroneg* OR serodiagn*):ab,ti
- #2 (ELISA or enzyme*linked*immunosorbent*assay* or lateral*flow*assay* or LFA or point*of*care or POC or multiplex or western*blot or rapid*diagnostic*test or RDT or immunoassay* or diagnos*):ab,ti
- #3 (Blood or serum or plasma):ab,ti
- #4 (STH or soil?transmitted?helminth* or geohelminth*):ab,ti
- #5 (Ascari* or roundworm*):ab,ti
- #6 (Trichuri* or whipworm*):ab,ti
- #7 (Hookworm* or An?ylostoma or Necator):ab,ti
- #8 #2 AND #3
- #9 #1 OR #8
- #10 #4 OR #5 OR #6 OR #7
- #11 #9 AND #10

2. Patent search (<https://worldwide.espacenet.com>)

Date search: 12/10/2022

(ta all "ascaris" OR ta all "ascariasis" OR ta all "Trichuris" OR ta all "trichuriasis" OR ta all "hookworm" OR ta all "necator" OR ta all "ancylostoma" OR ta all "ankylostoma") AND (ta any "blood" OR ta any "serum" OR ta any "plasma")

(ta all "ascaris" OR ta all "ascariasis" OR ta all "Trichuris" OR ta all "trichuriasis" OR ta all "hookworm" OR ta all "necator" OR ta all "ancylostoma" OR ta all "ankylostoma") AND (ta any "diagnostic" OR ta any "diagnose" OR ta any "diagnosis")

3. Google keyword search (<https://www.google.com>)

Ascaris

Ascariasis serology kit

Trichuris

Trichuriasis serology kit, *Trichuris* serology kit, *Trichuris* antibody serology kit, *Trichuris* antibody detection, *Trichuris* diagnostic kit, Whipworm serology

Hookworm

Hookworm serology kit, *Ancylostoma* serology, *Necator* serology