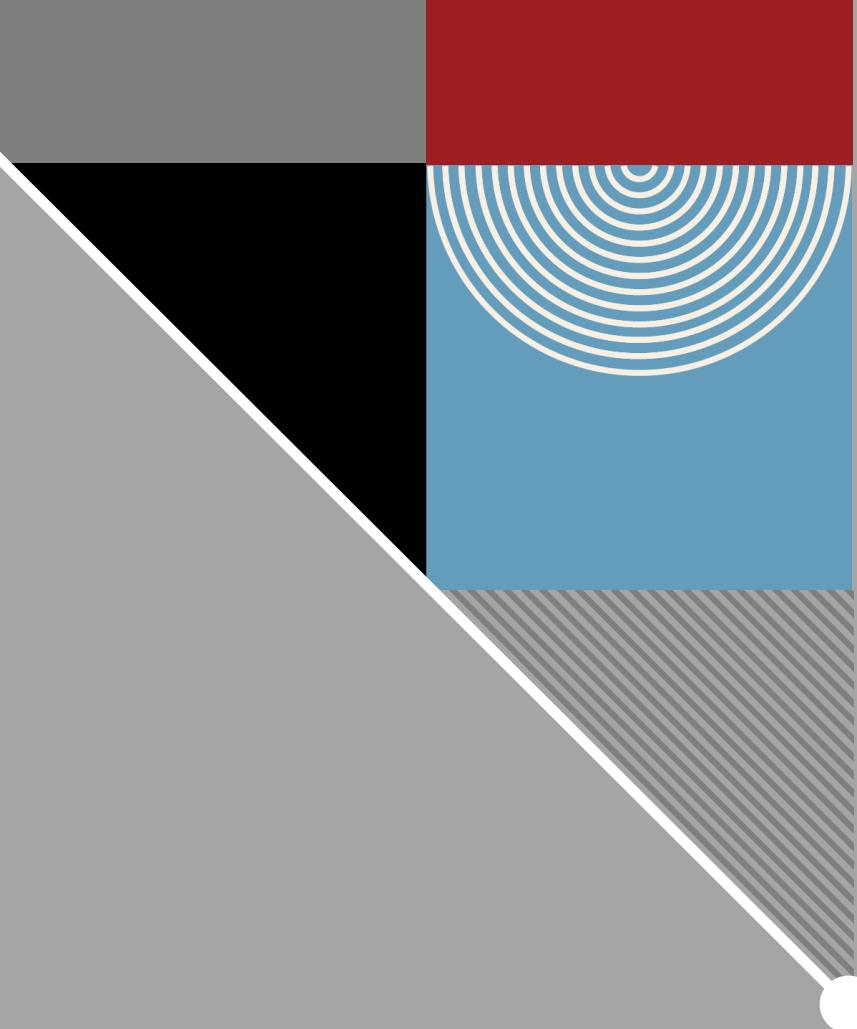




SYSTEMATIC REVIEWS AND META-ANALYSES

Shelley Facente, PhD, MPH
Sara Durán, MPH

In-Person Session 3 of 5



COURSE WEBSITE

- Slides and all other resources you'll need for the course are available at:

<https://facenteconsulting.com/srmacourse/>

CURRICULUM

Monday

Sensitivity analyses & stratified analyses

Understanding SRMA limitations

Interpreting and reporting results

Tuesday

Review and practice defining the review question and PICOS criteria to be used

Work time

Wednesday

Tips and Tricks with Covidence

Work time

Thursday

Deeper dive into evaluating bias

Publishing your review

Work time

Friday

Reviewing special types of SRs and MAs

Final chance for Q&A from the course

Virtual in October

Overview of SRs and MAs

Searching for records and studies

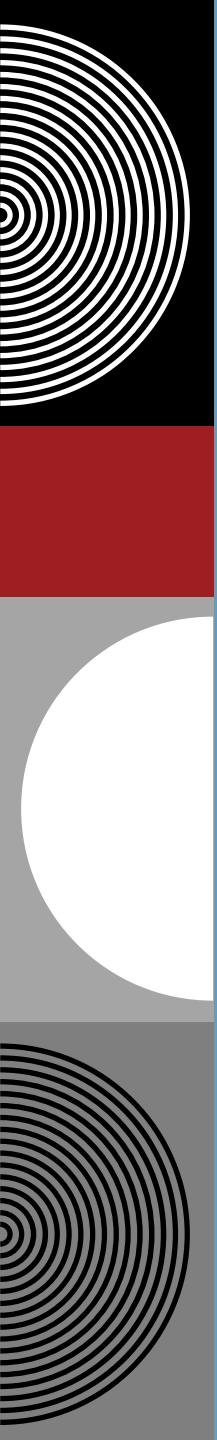
PROSPERO and PRISMA

Extracting and organizing data

Defining the review question

Summarizing data and meta-analysis

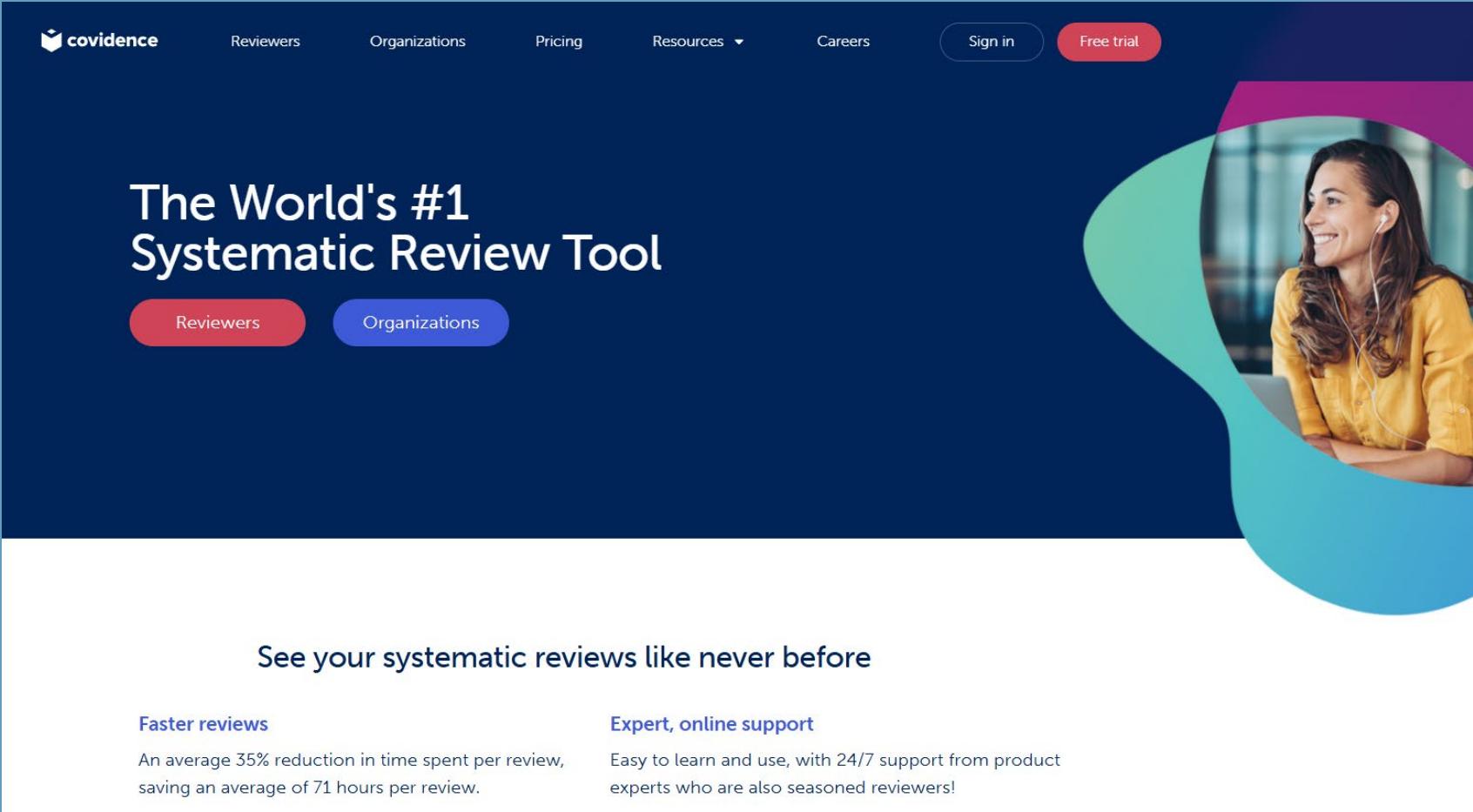
Evaluating Bias



COVIDENCE INTRODUCTION

- Web-based platform
- Designed by researchers so it was developed to be streamlined and manageable
- Can do all of the screening and data extraction steps in Covidence (and helps to track the different steps!)
- Removes duplicates simply
- Allows for blinded review by two reviewers and flags discrepancies
- Can be used in conjunction with citation managers, such as Zotero (which can make full text uploads much easier)
- Free trial can be used to screen up to 500 references while full access allows for up to 10,000 references

COVIDENCE INTRODUCTION



The screenshot shows the Covidence website homepage. The header features the Covidence logo, navigation links for 'Reviewers', 'Organizations', 'Pricing', 'Resources', 'Careers', 'Sign in', and a 'Free trial' button. The main headline reads 'The World's #1 Systematic Review Tool'. Below the headline are two buttons: 'Reviewers' (highlighted in red) and 'Organizations'. To the right is a large, stylized graphic of overlapping circles in teal, light blue, and magenta. Inside the magenta circle is a photo of a smiling woman wearing a yellow shirt and white earbuds, sitting at a desk with a laptop. The bottom section of the page has a white background with the text 'See your systematic reviews like never before' and two columns of text: 'Faster reviews' (with a subtext about a 35% reduction in time spent per review) and 'Expert, online support' (with a subtext about 24/7 support from product experts). The footer contains the text 'Covidence.org'.

The World's #1 Systematic Review Tool

Reviewers Organizations

See your systematic reviews like never before

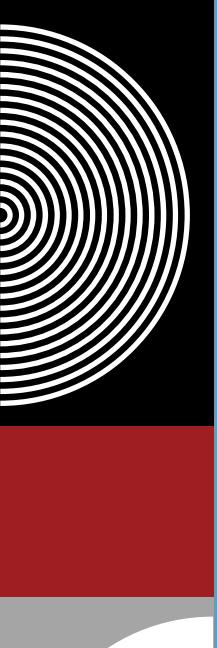
Faster reviews

An average 35% reduction in time spent per review, saving an average of 71 hours per review.

Expert, online support

Easy to learn and use, with 24/7 support from product experts who are also seasoned reviewers!

Covidence.org



START A NEW REVIEW IN COVIDENCE

To start a new review you will click on the "Start a new review" button that will be at the head of any current reviews you may have.



Your reviews

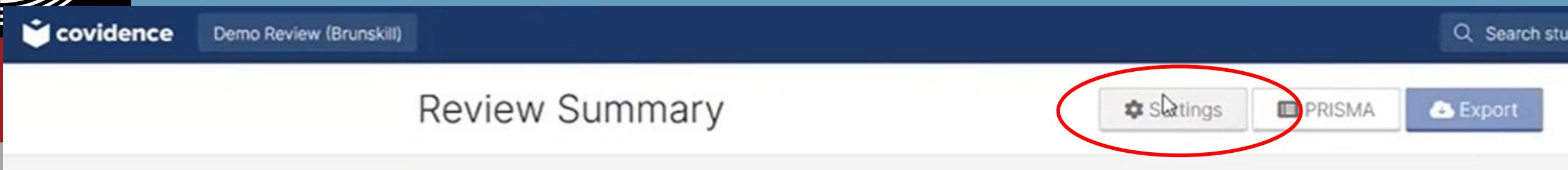
Current reviews

Archived reviews

Start a new review

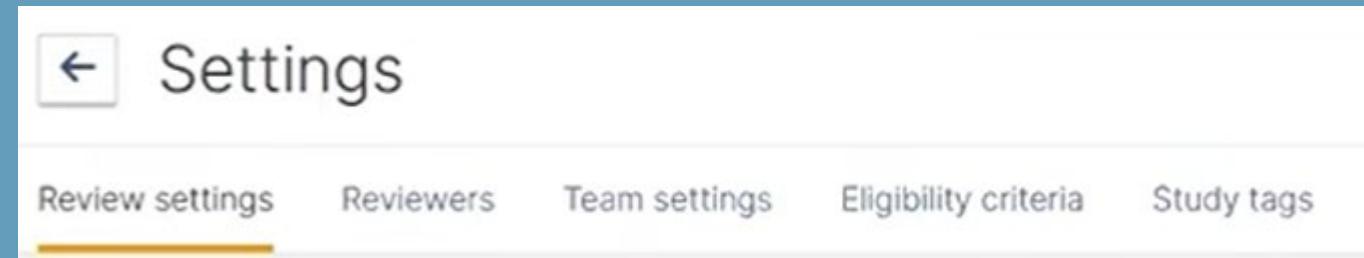


SETTINGS



The screenshot shows the Covidence software interface. At the top, there is a dark blue header bar with the 'covidence' logo, the text 'Demo Review (Brunskill)', and a search bar. Below the header, the main content area has a light blue background and is titled 'Review Summary'. In the top right corner of this area, there are three buttons: 'Settings' (highlighted with a red oval), 'PRISMA', and 'Export'. The 'Settings' button has a gear icon and the text 'Settings'.

- Setting options are available for the review itself, reviewers, team, eligibility of studies, and study tags.
- Other reviewers can be added here under "Reviewers"



The screenshot shows the 'Settings' sub-page. At the top left is a back arrow icon and the word 'Settings'. Below this is a horizontal navigation bar with five tabs: 'Review settings' (underlined in yellow), 'Reviewers', 'Team settings', 'Eligibility criteria', and 'Study tags'.

REQUIRED REVIEWERS AND DATA EXTRACTION

Reviewers required for screen

2

Reviewers required for full text review

2

Reviewers required for data extraction

2

Select your preferred data extraction tool

Extraction 1

- Standardised PICO structure to support intervention reviews and is recommended by Cochrane
- Supports dual reviewer extractions
- Exports to csv, xls, RevMan 5, RevMan Web

Extraction 2

- Customisable structure to support all review types
- Supports dual reviewer and single reviewer extractions
- Exports to csv

TEAM SETTINGS

Title and abstract screening

Team Progress



4 ● DONE

30 ● ONE VOTE

1 ● CONFLICTS

1192 ● NO VOTES

REVIEWER

CONTRIBUTION

Amelia Brunskill

34

Rosie Hanneke

6

Rules

Everyone can do anything

Manage rules

ALL STUDIES MUST BE SCREENED BY EITHER

Anyone

Select a reviewer ▾

Add

CONFLICTS CAN BE RESOLVED BY

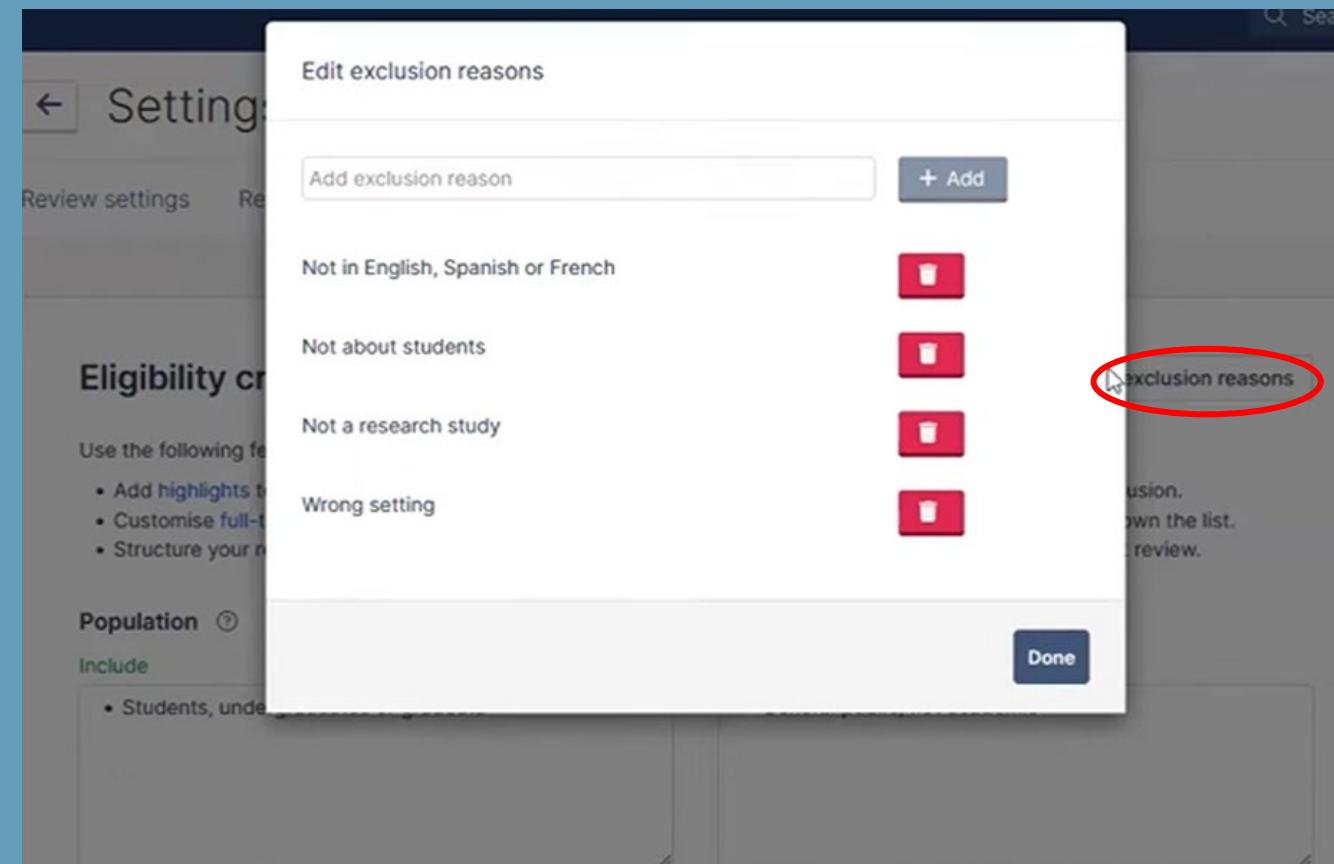
Anyone

Select a reviewer ▾

Add

ELIGIBILITY CRITERIA

- Full text exclusion reasons are required for supporting the development of the PRISMA flowchart. You can manage these from the Settings Menu
- Settings>Eligibility Criteria>Full text exclusion reasons



Import references

2479 total duplicates removed
0 auto-marked as ineligible

[Import](#)

Title and abstract screening

5270 irrelevant 2 studies to screen



Team progress



6126 ● Done
2 ● One Vote

1 ● Conflicts
0 ● No Votes

[Team settings](#)

Sara, you can still

resolve conflicts screen studies

1

2

[Continue](#)[Continue](#)

You've screened **764** studies so far

Full text review

348 excluded 5 studies to screen



USING FILTERS

- Filters can come in handy in a variety of ways
- Can filter those that have the title and the abstract already in Covidence
- Or perhaps filtering out those that have full text for the full text screening (especially useful if there is a reviewer that doesn't have access to academic journals)
- Or filtering out those that need the full text (so that those with access can add those texts for the team!)

Filter ×

Tags

Search or select from list... ▼

Keyword search

Type and press enter...

Within

Title and abstract

Authors (Exact match)

Authors (Fuzzy search) i

All of the above

Full-text

Has full-text

Needs full-text

↻ Reset filters Apply

VIEW ELIGIBILITY CRITERIA WHILE YOU SCREEN

[!\[\]\(a4e6c12a7460acb99e3ecd7781b3aea3_img.jpg\) Title and abstract screening](#)

Screen references 2 Resolve conflicts 1 Awaiting other reviewer 0 Irrelevant references 5270

All  Tag  Sort: Most recent  Filter  Show criteria  More options

VIEW ELIGIBILITY CRITERIA WHILE YOU SCREEN

[←](#)

Title and abstract screening

Screen references 2 Resolve conflicts 1 Awaiting other reviewer 0 Irrelevant references 5270

All Tag ↓↑ Sort: Most recent ↔ Filter Hide criteria ^ More options

Study Characteristics

Include

- Randomized, observational (case-control, cohort, cross-sectional) and modelling studies assessing any of the outcomes described in this protocol.
- Include a relevant population group.
- Measured one or more of the outcomes listed above.
- Published in a peer-reviewed journal, grey literature or conference abstract.

Exclude

- Studies using only non-clinical samples to derive diagnostic accuracy outcomes

USE HIGHLIGHTS TO IDENTIFY INCLUSION AND EXCLUSION CRITERIA

← **Title and abstract screening**

Screen references 2 Resolve conflicts 1 Awaiting other reviewer 0 Irrelevant references 5270

All Tag Sort: Most recent Filter Show criteria **More options**

#1912 - Songok 1994

Low prevalence of human T-lymphotropic virus type I (HTLV-I) in HIV-positive patient

Songok, E M; Tukei, P M; Libondo, D; Gichogo, A; Oogo, S A
Journal of acquired immune deficiency syndromes / 1994;7(8):876-7
United States 1994 /
Ref ID: 8021826

More options X

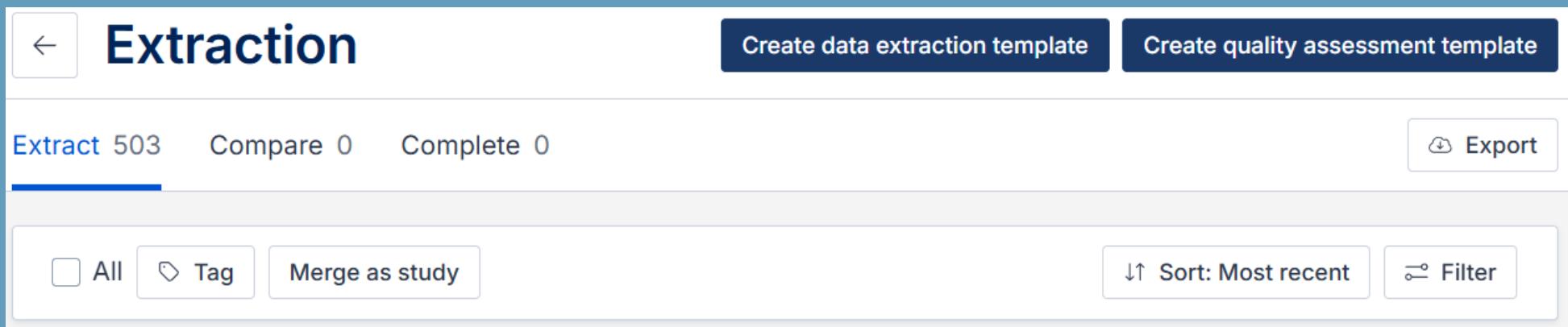
Show

Abstracts
 Highlights

Inclusion **Exclusion**

EXTRACTION

When you are ready to start data extraction, Covidence does have a data extraction template that you can use, or you can use your own template you have created.



Review Summary

Settings

PRISMA

Export

Import references

2479 total duplicates removed
0 auto-marked as ineligible

Import



Title and abstract screening

5270 irrelevant 2 studies to screen



Full text review

348 excluded 5 studies to screen



Extraction

0 extracted 503 studies to extract



[View as text](#)[Download DOCX](#)

8608 studies imported for screening

8608 references with unspecified sources [Update](#)



6126 studies screened



851 full-text studies assessed for
eligibility



503 studies included



146 duplicates identified manually
2333 duplicates identified by Covidence



5270 studies irrelevant



348 studies excluded
▶ [Show reasons](#)

0 studies ongoing
0 studies awaiting classification

Join by Web

PollEv.com/shelleyf800

Join by Text

Send **shelleyf800** and your message to **22333**

Join by QR code

Scan with your camera app





WORK TIME TOGETHER

Keep working with our support, or if you're ready, create those group presentations.