

Study Selection

Handbook: Chapter 7

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How do we began screening?

- Flow
 1. Title screening (e.g. 1000)
 2. Abstract screening (e.g. 100)
 3. Full article screening (e.g. 20)
- Keeping track (flow chart or PRISMA)
- Software (e.g. DISTILLER)





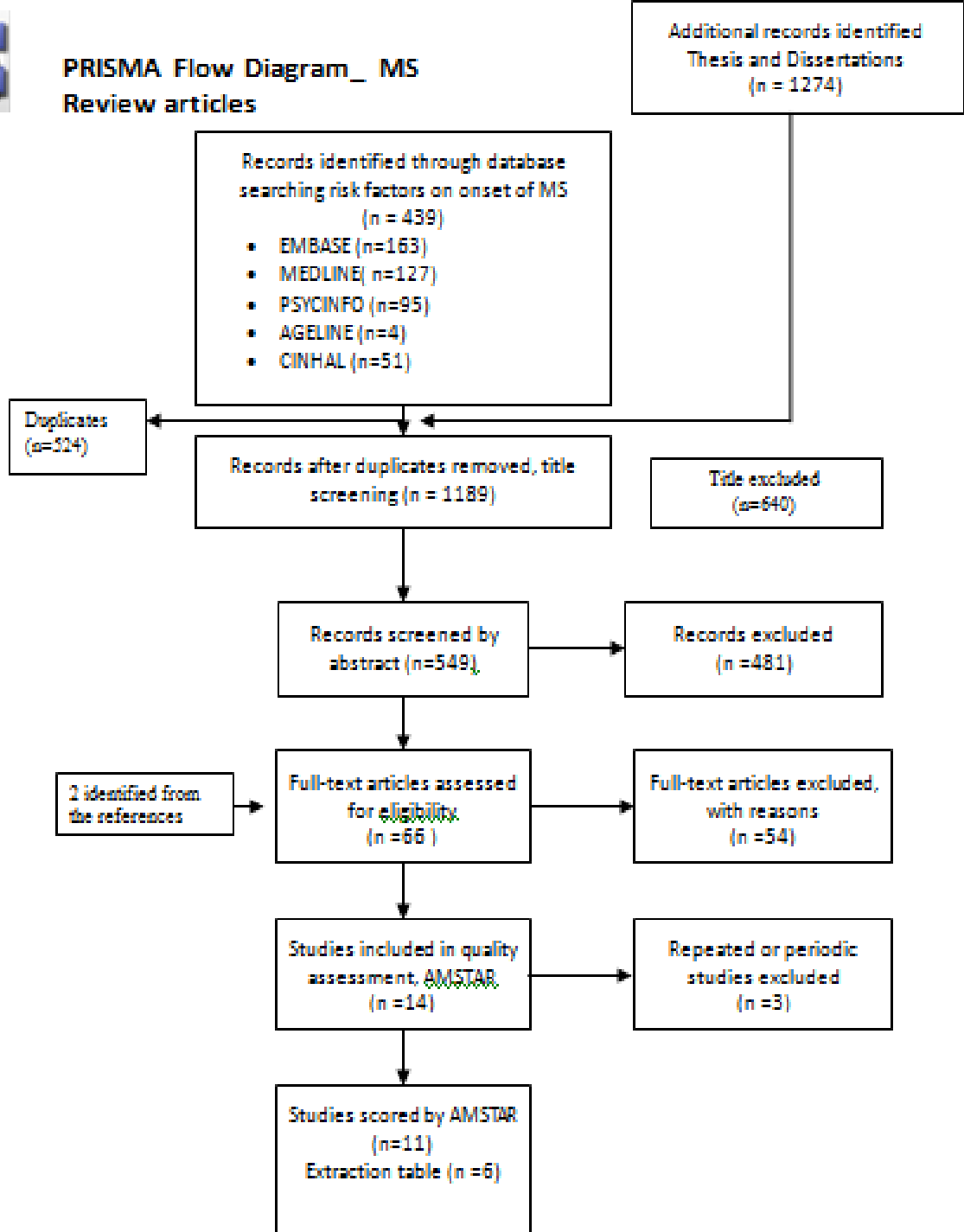
PRISMA Flow Diagram_ MS Review articles

Identification

Screening

Eligibility

Included





DistillerSR

Online user manual

Getting Started

Welcome to DistillerSR!

Here are the basic things you'll need to know to use the tool effectively and to begin participating as a reviewer on your project.

The screenshot shows the DistillerSR web application interface. At the top left is the DistillerSR logo. To the right of the logo is a navigation bar with the following items: Project (Demo Project (Switch)), User (poblenis (My Settings)), Messages (Nothing new), and a LIVE SUPPORT button (NOT AVAILABLE). Below the navigation bar is a main menu with the following items: Review, Datarama, Reports, References, Forms, Manage Levels, Users, and Logout. The main content area is divided into two tabs: My Tasks and Project Progress. The My Tasks tab is active and displays a list of tasks. Each task is represented by a box with a title, a sub-title, and a count of references to review. The tasks are: Screening (902 references to review) with sub-task Abstract Screening; Full Reference Screening (35 references to review) with sub-task Full Document Screening; Study Characteristics (8 references to review) with sub-task Data Abstraction; Baseline Characteristics (8 references to review) with sub-task Data Abstraction; and Continuous Outcomes (8 references to review) with sub-task Data Abstraction. At the bottom of the page, there is a copyright notice: Copyright © 2009, Evidence Partners, All Rights Reserved. This page took 0.126 seconds to load.

Search for:

Table of Contents

Advanced Options

Contents

- ◊ Getting Started
 - ◊ Reviewing References
 - ◊ The Review Screen
- ◊ Creating Your First Project
- ◊ Managing References
 - ◊ Uploading References to DistillerSR
 - ◊ Edit References
 - ◊ Procurement
 - ◊ Multiple Attachment Upload
 - ◊ Tracking Bulk Procurement
 - ◊ Bibliographic Formats
 - ◊ Reconcile References
 - ◊ The Quarantine
 - ◊ Duplicate Reference Detection and Removal
 - ◊ Bulk Tag Removal
- ◊ Forms

Overview

- Want to make decisions about which studies to include based on **design**, not results
 - Risk: don't want to exclude a study just because you don't like the results
- Studies, and not reports, are the unit of interest
- *A priori* need explicit criteria: follow from PICOS, although reporting of outcomes rarely used in the selection process



Selection process – detail in Protocol

Typical process:

1. Merge search results using reference management software, remove duplicate records
2. Examine **titles and abstract** to remove obvious irrelevant reports (be over inclusive, though)
 - Initial screen – one or more people?
 - Q: possibly relevant or not relevant?
 - Might be able to apply some criteria, likely not all
3. Retrieve full text reports



Selection process – detail in Protocol

Typical process (*continued*):

4. Link together multiple reports of the same study – detect duplicate publication, can introduce bias if a study included more than once in meta-analysis
5. Examine **full-text reports** for eligibility
 - Detailed screen – 2 people, independent
 - Q: does the paper meet the inclusion criteria?
 - Looking at the details
6. Correspond with study authors to clarify
7. Final decision on study inclusion.



Keep in mind...

- Articles published in other languages
- Separate step from collecting data
- Pilot test eligibility criteria
- Avoid using kappa statistic to report extent of agreement – unlikely to convey real impact of disagreements on a review
- Different categories in RevMan: included, excluded, awaiting assessment, ongoing studies



Sample eligibility checklist

ELIGIBILITY CHECKLIST

Review

ID: _____ Ref ID: _____ Date: _____ Arbitrator Initials: _____

Reviewer

Please fill in the form by ticking boxes [✓] adding comments in the spaces provided where necessary.

PATIENT DETAILS

- | | | | |
|--|---------------------------------|--------------------------------|------------------------------------|
| Do women in the study have metastatic breast cancer? | YES
<input type="checkbox"/> | NO
<input type="checkbox"/> | UNSURE
<input type="checkbox"/> |
| Do any women in the study have locally advanced breast cancer? | YES
<input type="checkbox"/> | NO
<input type="checkbox"/> | UNSURE
<input type="checkbox"/> |
| If yes, is the proportion of women with locally advanced breast cancer < 20%? | YES
<input type="checkbox"/> | NO
<input type="checkbox"/> | UNSURE
<input type="checkbox"/> |
| When did randomisation start? | | | UNSURE
<input type="checkbox"/> |
| Are women randomized to receive chemotherapy as 1 st line treatment for advanced breast cancer? | YES
<input type="checkbox"/> | NO
<input type="checkbox"/> | UNSURE
<input type="checkbox"/> |
| If no, what line treatment is the chemotherapy? | | | |