

Screen Records

Now that the Exclusions Reasons have been configured, you can proceed with screening underlying studies to identify those that should be Included for your nest, or Excluded (for one of your configured Exclusion Reasons).

Note: If you are using Two-Pass Screening or Dual Screening, this process will differ slightly from the Standard workflow outlined below. See the [Two-Pass Screening](#), [Dual Screening](#), [Dual Two-Pass Screening](#) pages for more details!

Steps for Standard Screening:

1. Navigate to Screening

You can either Screen Sequentially (by selecting “Screening” in the menu, outlined in red below), where records will be shown to you in order of expected Inclusion Probability, or screen from Inspector (outlined in black).

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Authors/Collaborators

Author Name	Author Role	Author Affiliation
Peace Olaniran	screened, tagged, and extracted most data, and wrote/updated protocol	NK
Jorge Poianco	screened, tagged, and extracted	NK
Ranita Tarchand	screened, tagged, and extracted data	NK
Kevin Kallmes	Project oversight	NK
Kathryn Cowie	Project manager	NK
Nicole Hardy	Director of Research	NK

Funding sources/sponsors:

No funding sources/sponsors indicated

Conflicts of interest:

Some members of Nested Knowledge have equity within the company. These members include Nicole Hardy & Kathryn Cowie.

Research question:

How does the existing pharmacological therapy, sacubitril/valsartan compare against sodium-glucose cotransporter 2 inhibitors (canagliflozin, dapagliflozin, and empagliflozin) with respect to safety outcomes: mortality, serious adverse events, cardiac events for heart failure with reduced ejection fraction?

Purpose:

Conduct a systematic analysis and comparison of safety outcomes and cardiac events for sacubitril/valsartan usage for heart failure with reduced ejection fraction (HFREF) using data from recently published publications with RCTs. This analysis will provide comprehensive information in the effects of specific pharmacological therapies managing HFREF.

Background:

Notes Your Mentions All Mentions

Kevin Kallmes

3/23/22, 3:23 PM

@Jade Thurnham @Nicole Hardy @Erin Sheffels @Peace Olaniran Good question! I think it's valuable information in a general sense, but will have limited utility for the analysis (since we can't break down groups based on background characteristics unless the authors do) I think we should revisit that if it's demanded by journals/etc, as it is valuable information, but I'd keep the nest smaller if we can avoid adding tags/DE's. I think we at NK tend to be very comprehensive in our gathering, and we should consider the time-costs and relevance to our primary outcomes here. I defer to your final judgment, but I recommend against adding any tags/DE's that aren't directly going to impact our main outcomes and interpretations of interest. Thx!

Jade Thurnham

3/23/22, 3:01 PM

@Peace Olaniran @Nicole Hardy @Erin Sheffels @Kevin Kallmes Whilst QC'ing this nest, I noticed a few papers report coronary artery disease, Chronic obstructive pulmonary disease, and smoker as baseline characteristics as well as nitrates and hydralazine as existing medications-- would this extra information be worth tagging and extracting for in this nest?

Nicole Hardy

3/17/22, 12:28 PM

@Jade Thurnham @Peace Olaniran Both sound like good moves to me. Thanks for noting this. :)

Jade Thurnham

3/16/22, 9:50 PM

@Peace Olaniran @Nicole Hardy Updates on QC'ing:

B I U

Comment

2. Read study abstract

The screenshot shows the RoboPICO screening interface. On the left, there's a tabbed view with 'Abstract' selected. Below the tabs, there's a search bar and filters for Population/Problem, Intervention, Outcome, and Your Keywords. The main content area displays an abstract for a study titled 'SWIFT DIRECT: Solitaire™ With the Intention For Thrombectomy Plus Intravenous t-PA Versus DIRECT Solitaire™ Stent-retriever Thrombectomy in Acute Anterior Circulation Stroke: Methodology of a randomized, controlled, multicentre study.' The abstract text is highlighted with various colors (blue, green, red) indicating different categories. On the right, there's a 'Navigation' panel with buttons for 'Back', 'Skip', 'Select Different Option', 'Full Text Review', 'Upload Full Text', 'Exclusion', 'Include', 'Tagging', 'Comments (0)', and 'History'.

Your task in screening should be to identify, based on the Abstract content, whether the record falls under any Exclusion Reason, or whether it is on-topic for your review and satisfies your criteria for inclusion.

The Screening page displays an abstract highlighted with RoboPICO, which is an open source fork of the models offered in RobotReviewer that identifies the Population, Interventions, and Outcomes in an abstract. Then, see on the right a panel to select Exclusion Reasons or Include the article in question.

Using the scite banner

Above your abstract, you can see the scite banner, which displays the number of times the publication in question was cited, supported, mentioned, and contrasted. If you click the banner, you can see more citation-related information provided by scite.ai, including retractions!

The screenshot shows the RoboPICO screening interface for a study titled 'Effects of sacubitril/valsartan on glycemia in patients with diabetes and heart failure: the PARAGON-HF and PARADIGM-HF trials.' The abstract text is highlighted with various colors. On the right, there's a 'Navigation' panel with buttons for 'Back', 'Skip', 'Screening', 'Full Text Review', 'Full Text Uploaded!', 'Exclusion', 'Include', 'Tagging', 'Comments (0)', and 'History'. A red box highlights the citation counts (3, 0, 0, 2, 0) above the PubMed button.

3. Decide if study should be Included or Excluded

If the abstract does not provide enough information for you to decide if it should be Included or Excluded, click on the study source button (in this case PubMed, see red arrow below) and source the

full text of the study.



If you read the FULL TEXT and decide it should be included, check the “Full Text Review” box.

The screenshot displays the NESTED KNOWLEDGE web application. The top navigation bar includes links for 'About', 'Docs', 'Support', 'AutoLit', and a user profile 'Kevin'. The main header shows 'Dual Screening: Acute Ischemic Stroke - RCTs' with a progress indicator '380 / 389'. The left sidebar contains various tool panels: 'Nest Home', 'Literature Search', 'Dual Screening', 'Tagging', 'Extraction', 'Risk of Bias', 'Synthesis', and 'Settings'. The central panel shows the abstract of a study titled 'SWIFT DIRECT: Solitaire™ With the Intention For Thrombectomy Plus Intravenous t-PA Versus DIRECT Solitaire™ Stent retriever Thrombectomy in Acute Anterior Circulation Stroke: Methodology of a randomized, controlled, multicentre study.' Below the abstract, there are filters for 'Population/Problem', 'Intervention', 'Outcome', and 'Your Keywords'. On the right, a 'Navigation' panel shows options for 'Full Text Review', 'Exclude', and 'Include'. A red box highlights the 'Exclude' section, and a red circle highlights the 'Include' button.

Exclude Records

If you read the abstract and find that one or more of your Exclusion Reasons (red box above) are applicable, click on the reason that applies to that specific study. This will apply your reason and automatically bring up the next study to be screened.

Include Records

If you read the abstract and find that none of your Exclusion Reasons apply, and that (based on information available to you) the publication in question is relevant to your review, select “Include” (see red circle above).

Skipping a study

Having a hard time deciding whether to include or exclude a study? You can hit skip and leave it unscreened until you're ready to make a decision.

The screenshot displays the 'Abstract' tab of a study titled 'SWIFT DIRECT: Solitaire™ With the Intention For Thrombectomy Plus Intravenous t-PA Versus DIRECT Solitaire™ Stent-retriever Thrombectomy in Acute Anterior Circulation Stroke: Methodology of a randomized, controlled, multicentre study.' The abstract text is visible, and the sidebar on the right shows a 'Navigation' panel with a 'Skip' button highlighted in red. Below the navigation panel, there is a 'Select Different Option' section with a 'Full Text Review' checkbox and a 'P(Inclusion): 0.82' value. The 'Exclude' section is active, showing a search bar and a list of reasons to exclude, including 'Secondary analysis', 'Published Before 2014-01-01', 'Not an RCT', 'Protocol or Methods article', and 'Does not report use of mechanical thrombectomy...'. The 'Include' section is also visible with an 'Include' button.

Add Exclusion Reasons on the Fly

You can add Exclusions Reasons as you screen without leaving the Screening page. To do so, in the Screening module, open the Exclusion Reason drop-down and begin typing in an Exclusion Reason.

If the reason of interest has not yet been configured, you will be presented with the ability to “Add Option.” Select this option, and write out your full Exclusion Reason. Once you have added it, it will be added to the Exclusion Reason drop-down and the Configure Exclusion Reasons page, and will be automatically applied to the study you are currently screening. To confirm that the new reason should be applied, select “Exclude”.

Unscreening a study

If you have included or excluded a study that you want to revert to 'unscreened' status so that it can be reviewed again, you can unscreen it by finding the study of interest, and then selecting the icon next to the Include button on the study you want to unscreen. A pop-up will appear and you can then click “Unscreen” to unscreen that single study.

The screenshot displays the 'Abstract' tab of a study titled 'Effectiveness of Revive SE in the RAPID registry: Revive Acute Ischemic Stroke Patients Immediately (RAPID) Prospective Multicenter Trial.' The abstract text is visible, and the sidebar on the right shows a 'Screening' panel with a 'Full Text Review' checkbox and a 'P(Inclusion): 0.25' value. The 'Exclude' section is active, showing a search bar and a list of reasons to exclude, including 'Does not report puncture-to-revascularization time', 'Secondary study or subanalysis', 'Does not report acute ischemic stroke', 'Potentially biased patient population', and 'Case report'. The 'Include' section is also visible with an 'Include' button.

Note: if you want to unscreen multiple studies, you can also do so using [Bulk Actions!](#)

4. Upload the Full Text

In general, uploading a Full Text should be completed only for Included records, and doing so assists

in preparing the Tagging step.

For instructions on how to upload a Full Text PDF, click [here](#).

No Full Text

If you cannot source a full text for the study in question, you can use the “No Full Text” option to designate an Exclusion Reason specifically to address those records.

For those records, first configure an Exclusion Reason as “No Full Text” in the Configure Exclusion Reasons page:

Exclusion Reasons					Import Set
Reason		Excluded Record	No Full Text		
Does not have an MT to thrombolysis comparison in basilar stroke		131	Signals No FT	<input checked="" type="checkbox"/>	
Published Before 2014-01-01		50	Signals No FT	<input type="checkbox"/>	
Does not relate to basilar AIS		9	Signals No FT	<input type="checkbox"/>	

Then, apply this Exclusion Reason to all records where a full text was sought but not found.

Implications: Marking “No Full Text” is a special PRISMA category, so the specific reason you configure for this purpose will be given its own listing in your [PRISMA chart](#).

5. Continue Screening

Once you have clicked “Include” or “Exclude” (or “skip”) for any study, you should be automatically shown the next study.

If you are screening from [Inspector](#), you can use the arrows in the far left and right of the screen to navigate up or down, respectively, or click out to view the Inspector study list.

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Last update: 2022/11/20 00:55