

Tools for Managing a Systematic Review

Systematic Review Training

Center for Knowledge Management

VANDERBILT  UNIVERSITY
MEDICAL CENTER



Objectives:

- ✓ Introduce common tools for managing a systematic review
- ✓ Describe benefits and limitations of different tools

AHRQ Agency for Healthcare Research and Quality

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SRDR Systematic Review Data Repository

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New Announcement

SRDR+: Moving systematic reviews forward.

SRDR+ is a free, powerful, easy to use tool for data extraction, management, and archival during systematic reviews.

Search our Repository Today!

Search

ASReview

Join the movement towards fast, open, and transparent systematic reviews

ASReview LAB v1.2 is out!

Download ASReview LAB

How it works! 1:30 min

rayyan

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FASTER SYSTEMATIC REVIEWS

Rayyan is trusted by more than 200,000 researchers to organize, manage and accelerate their collaborative systematic literature reviews. Start your review now.

GET STARTED

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Better systematic review management

Reviewers | Organizations

See your systematic reviews like never before

Systematic Review Data Repository Plus (SRDR+)

SRDR+ Systematic Review Data Repository

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Enter your search term

Search

See how you can work with SRDR+

Researchers

- Free, open-source systematic review platform
- Latest version launched in 2018 (previously launched in 2012)
- Developed by Brown University Evidence-based Practice Center & Agency for Healthcare Research and Quality (AHRQ)

“designed to improve the efficiency of the systematic review data extraction process!”

SRDR+ [Internet]. [cited 2023 Oct 12]. Available from: <https://sdrplus.ahrq.gov/>.

SRDR-Plus User Guide, October 2021 Systematic Review Data Repository User Plus (SRDR+) User Guide E. Troubleshooting Tips / Best Practices 14 E.1. Avoiding Inefficient Design of Extraction Forms 14 E.2. Best Practices for Typing Data into SRDR+ Extraction Forms 16 Appendix 1. Systematic Review Data Repository-Plus (SRDR+) Training Example Case for Blood Pressure Targets 19 [Internet]. [cited 2023 Oct 12]. Available from: https://sdrplus.s3.amazonaws.com/SRDR%2B+User+Guide+-+10-13-21_Final.pdf

Systematic Review Data Repository Plus (SRDR+) offers...

- Citation import from in variety of formats (e.g., RIS, CSV, PMID list, Endnote (enw))
- Abstract and full text screening
- Citations can be assigned to specific users
- Tracking disposition of citations during title & abstract screening
- Customizable extraction forms can be created within each project (e.g., multiple choice, checkboxes, drop-down menus)

SRDR+:
Moving systematic reviews forward.

SRDR+ is a free, powerful, easy to use tool for data extraction, management, and archival during systematic reviews.

See how you can work with SRDR+

- Researchers**
Use SRDR+ as a free platform for extracting, archiving, and sharing data during systematic reviews and accessing shared data related to systematic reviews.
- Guideline Developers**
Use SRDR+ for accessing data related to systematic reviews when producing guidelines and recommendation statements for their constituencies.
- Educators & Librarians**
Use SRDR+ for instructing students and trainees in the best practices related to research methodology and evaluation.
- Clinicians**
Use SRDR+ for quick reference to study data that are relevant to clinical questions based on systematic reviews.
- Policymakers**
Use SRDR+ for quick reference to study data that are relevant to policy questions or recommendations based on systematic reviews.



Special Features

- Side-by-side view of data extractions (performed by multiple extractors)
- Disagreements between extractors flagged
- Extractors can add outcomes/outcome measures on the fly
- Allows field dependency relationships
- Sharing of archived data and projects with other SRDR+ users

Disadvantages:

- SRDR+ Administrator controls access to your project
- Cannot store protocol
- Project Details tab holds only rudimentary data
- Contact the SRDR+ team for the most current help and guidance.



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SRDR Systematic Review Data Repository Home **My Projects** Blog Published Projects Search Contact About Help annette.williams_at_vumc.org

Project ID#4130: Interventions to reduce elderly hospital avoidance **Unpublished** Go to Extractions

Project Info Key Questions Member(s) & Role(s) Citations Screening Form Builder Abstract Screening Extractions Form Builder Extractions Comparison Tool SR-360 Data Import & Export Public

Project Info

* Name
Interventions to reduce elderly hospital avoidance

Topic Description

Attribution

Authors of Report

Methodology Description
Systematic Review

PROSPERO Registration ID

Document Object ID (DOI)

Notes

Funding Source

Mesh Terms











Save changes

Delete Project

Project Details Fields:

- Project Name
 - Topic Description
 - Attributions
 - Authors of Report
 - Methodology Description
 - PROSPERO Registration ID
 - Document Object ID (DOI)
 - Notes
 - Funding Source
 - MeSH terms
- and
- Key Questions

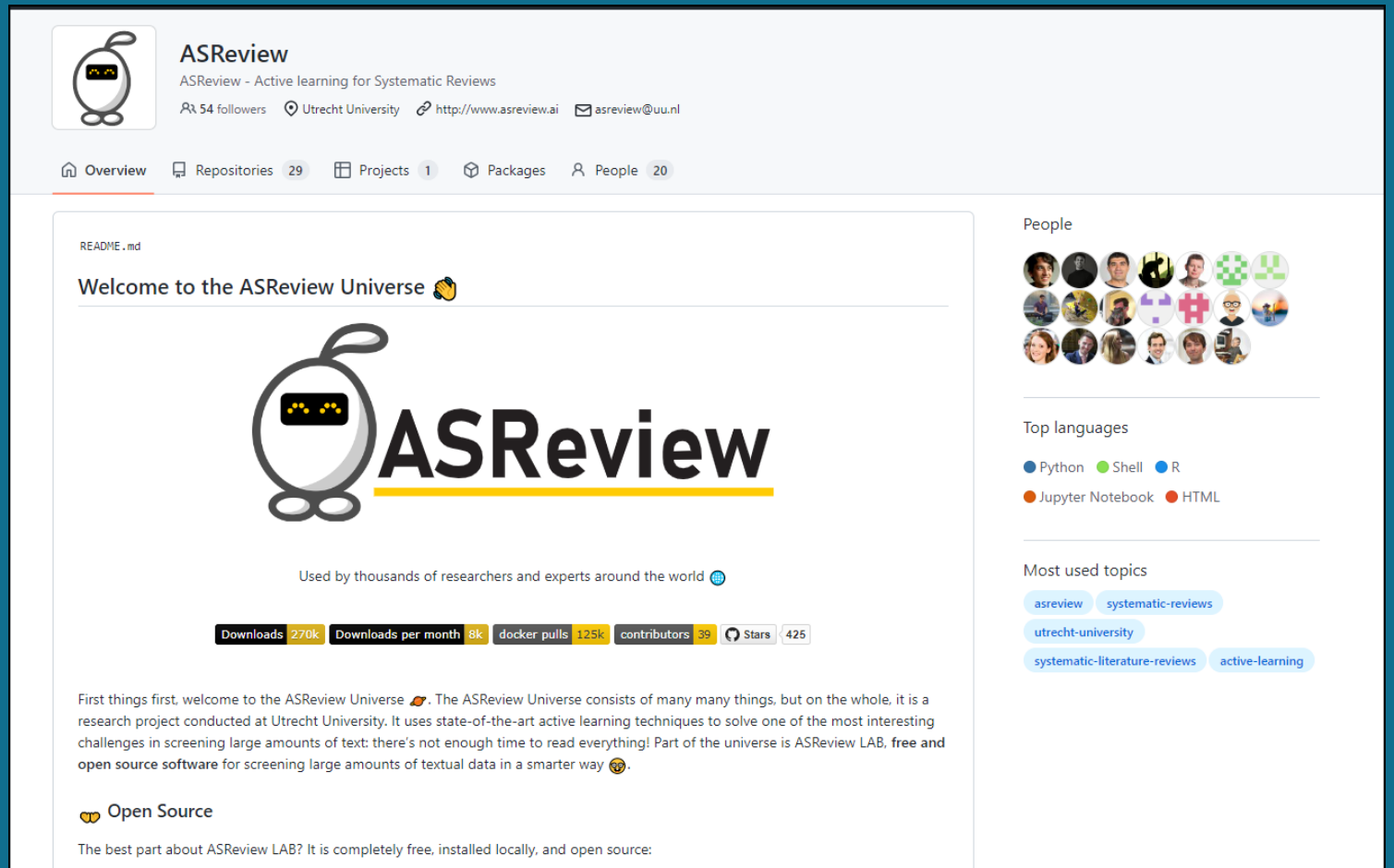
SRDR+ in Summary

Feature		
Cost & access	Free and open source	
Supports multiple users	Varied role options (e.g., leader, consolidator, contributor, or auditor)	
Aids with protocol development	<i>Not applicable</i>	
Integrates with search databases	PubMed	
Easy to import/export	Yes	
Aid with duplicate citation removal	<i>Not applicable</i>	
Title & abstract screening	Designed for title and abstract screening	
Full-text review	Designed for full-text review	
Critical appraisal	Does not aid with critical appraisal	
Assist with reporting	Aids with creating PRISMA flow diagram	

PRISMA = Preferred Reporting Items for Systematic Reviews and Meta-Analyses

ASReview

Free, open-source systematic review tool with built-in machine learning



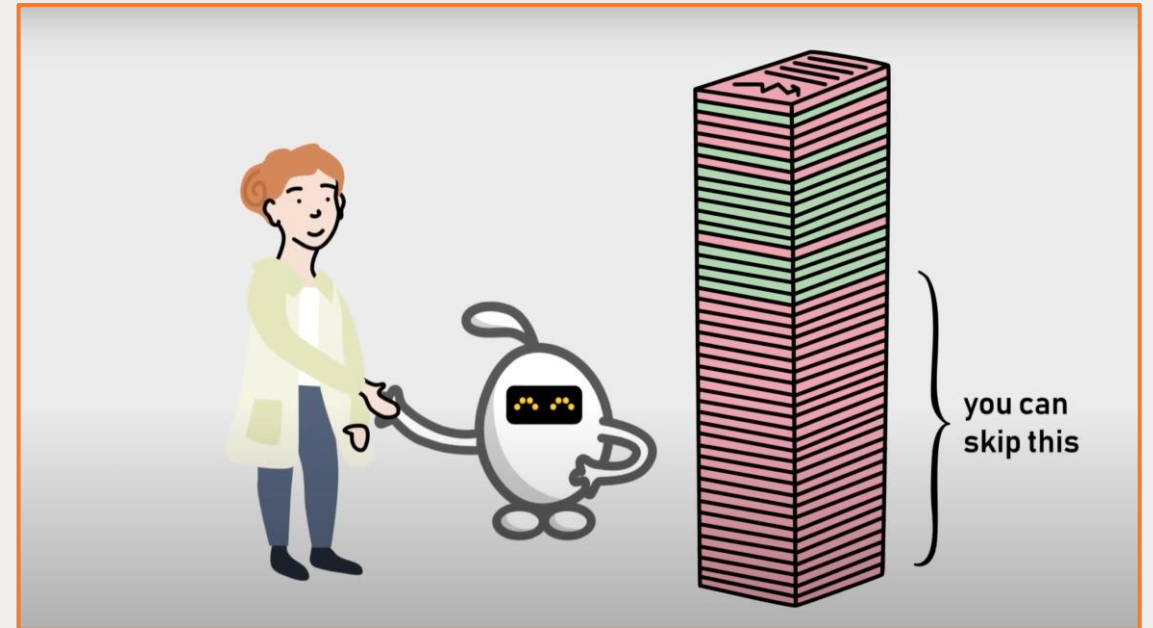
The screenshot shows the GitHub repository page for ASReview. At the top, the repository name "ASReview" is displayed with a subtitle "ASReview - Active learning for Systematic Reviews". Below this, it shows 54 followers, the location "Utrecht University", and the website "http://www.asreview.ai". The navigation bar includes "Overview", "Repositories 29", "Projects 1", "Packages", and "People 20". The main content area features a "README.md" file with the text "Welcome to the ASReview Universe" and a large logo for "ASReview". Below the logo, it states "Used by thousands of researchers and experts around the world" and provides statistics: Downloads (270k), Downloads per month (8k), docker pulls (125k), contributors (39), and Stars (425). A paragraph of text describes the project as a research project at Utrecht University using active learning techniques for screening large amounts of text. It also mentions "ASReview LAB, free and open source software". A section titled "Open Source" states that the tool is completely free, installed locally, and open source. On the right side, there are sections for "People" (a grid of profile pictures), "Top languages" (Python, Shell, R, Jupyter Notebook, HTML), and "Most used topics" (asreview, systematic-reviews, utrecht-university, systematic-literature-reviews, active-learning).

Created around 2019 by researchers at Utrecht University

Goal: to reduce the amount of time needed for screening; not limited to just systematic reviews.

AS Review Explained

- Created for scientists, guideline developers, journalists, policy makers, and other information workers
- Works by using **active learning**
 - As the user chooses which results are relevant, AS Review's machine learning system reshuffles the order of the results so that the more relevant articles are closer to the top of the list
 - User in complete control of judgement
 - Saves time; AS Review claims that users may skip having to review up to 95% of results



Some technical knowledge is needed to start a project with ASReview.

- Technical installation requires knowledge of Python and familiarity with principles of machine learning
- ASReview provides exploratory and simulation options for learning how the platform works

Create a new project

1 Project information 2 Data 3 Model 4 Warm up

Project information

Mode
Oracle
Review your dataset with interactive artificial intelligence (AI)

Title (required)

Author(s)

Description

NEXT

Add Citations

- Citation import conducted via standardized file formats (e.g., .ris, .txt, .csv, .xls)
- Only 1 data set can be imported, thus citations should be combined ahead of import

The screenshot displays the 'Create a new project' workflow. The progress bar shows four steps: 1. Project information (completed), 2. Data (current step), 3. Model, and 4. Warm up. The 'Data' section explains that a dataset contains textual records for AI labeling and requires prior knowledge. It features two main options: 'Add dataset' (Import a dataset or select a built-in dataset) and 'Add prior knowledge' (Label at least 1 relevant and 1 irrelevant record). A 'Dataset' modal is open, allowing selection by 'File', 'URL', or 'Extension'. It provides instructions on supported formats (RIS, CSV, TAB, TSV, XLSX) and a 'SELECT FILE' button.

Create a new project

1 ✓ Project information 2 Data 3 Model 4 Warm up

Data

A dataset contains textual records (e.g., abstracts of scientific papers, newspaper articles) that you want to label in interaction with the AI. Prior knowledge is required to warm up the AI.

Add dataset
Import a dataset or select a built-in dataset

Add prior knowledge
Label at least 1 relevant and 1 irrelevant record

Dataset [CLOSE]

Add a dataset from

File URL Extension

ASReview LAB accepts RIS file format (.ris, .txt) and tabular datasets (.csv, .tab, .tsv, .xlsx). The dataset should contain a title and abstract for each record. To optimally benefit from the performance of the active learning model, it is highly recommended to add a dataset without duplicate records and complete records. [Learn more](#)

Drag and drop a dataset file to add

SELECT FILE

The Review Process - “Irrelevant” or “Relevant”

The screenshot displays the ASReview LAB web interface. On the left is a navigation sidebar with a menu icon at the top. The sidebar contains the following items: 'Projects' with a back arrow, a cartoon character icon with 'IN REVIEW' on its chest, 'Your project' (Taneya eGFR test 01), 'Analytics', 'Review' (highlighted in yellow), 'History', 'Export', 'Details', 'Donate', 'Community', 'Settings', and 'Help'. The main content area shows a document titled 'Removing race from the CKD-EPI equation and its impact on prognosis in a predominantly White European population' with a DOI icon. The document text is partially visible, starting with 'Background While American nephrology societies recommend using the 2021 Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) estimated glomerular filtration rate (eGFR) equation without a Black race coefficient, it is unknown how this would impact disease distribution, prognosis and kidney failure risk prediction in predominantly White non-US populations. Methods We studied 1.6 million Stockholm adults with serum/plasma creatinine measurements between 2007 and 2019. We calculated changes in eGFR and reclassification across KDIGO GFR categories when changing from the 2009 to 2021 CKD-EPI equation; estimated associations between eGFR and the clinical outcomes kidney failure with replacement therapy (KFRT), (cardiovascular) mortality and major adverse cardiovascular events using Cox regression; and investigated prognostic accuracy (discrimination and calibration) of both equations within the Kidney Failure Risk Equation. Results Compared with the 2009 equation, the 2021 equation yielded a higher eGFR by a median [interquartile range (IQR)] of 3.9 (2.9-4.8) mL/min/1.73 m(2), which was larger at older age and for men. Consequently, 9.9% of the total population and 36.2% of the population with CKD G3a-G5 was reclassified to a higher eGFR category. Reclassified individuals exhibited a lower risk of KFRT, but higher risks of all-cause/cardiovascular death and major adverse cardiovascular events, compared with non-reclassified participants of similar eGFR. eGFR by both equations strongly predicted study outcomes, with equal discrimination and calibration for the Kidney Failure Risk Equation. Conclusions Implementing the 2021 CKD-EPI equation in predominantly White European populations would raise eGFR by a modest amount (larger at older age and in men) and'. At the bottom right of the document area is an 'ADD NOTE' button. At the bottom center are two buttons: 'IRRELEVANT' with a heart icon and 'RELEVANT' with a heart icon.

ASReview LAB

← Projects

Your project
Taneya eGFR test 01

Analytics

Review

History

Export

Details

Donate

Community

Settings

Help

Removing race from the CKD-EPI equation and its impact on prognosis in a predominantly White European population

Background While American nephrology societies recommend using the 2021 Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) estimated glomerular filtration rate (eGFR) equation without a Black race coefficient, it is unknown how this would impact disease distribution, prognosis and kidney failure risk prediction in predominantly White non-US populations. Methods We studied 1.6 million Stockholm adults with serum/plasma creatinine measurements between 2007 and 2019. We calculated changes in eGFR and reclassification across KDIGO GFR categories when changing from the 2009 to 2021 CKD-EPI equation; estimated associations between eGFR and the clinical outcomes kidney failure with replacement therapy (KFRT), (cardiovascular) mortality and major adverse cardiovascular events using Cox regression; and investigated prognostic accuracy (discrimination and calibration) of both equations within the Kidney Failure Risk Equation. Results Compared with the 2009 equation, the 2021 equation yielded a higher eGFR by a median [interquartile range (IQR)] of 3.9 (2.9-4.8) mL/min/1.73 m(2), which was larger at older age and for men. Consequently, 9.9% of the total population and 36.2% of the population with CKD G3a-G5 was reclassified to a higher eGFR category. Reclassified individuals exhibited a lower risk of KFRT, but higher risks of all-cause/cardiovascular death and major adverse cardiovascular events, compared with non-reclassified participants of similar eGFR. eGFR by both equations strongly predicted study outcomes, with equal discrimination and calibration for the Kidney Failure Risk Equation. Conclusions Implementing the 2021 CKD-EPI equation in predominantly White European populations would raise eGFR by a modest amount (larger at older age and in men) and

ADD NOTE




IRRELEVANT RELEVANT

← Projects



Your project

Taneya eGFR test 01

 Analytics Review **History** Export

History

Relevant

Irrelevant

All

 Filter

Accuracy evaluation of 2021 Chronic Kidney Disease Epidemiology Collaboration, Full Age Spectrum and European Kidney Function Consortium equations for estimating glomerular filtration rate in type 2 diabetes mellitus and healthy adults

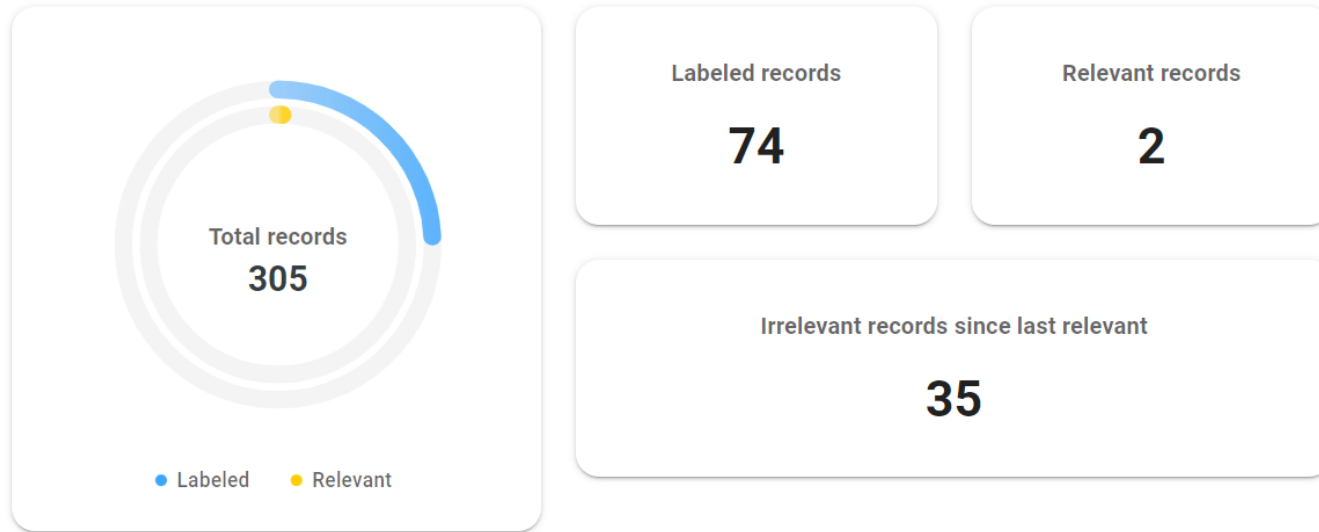


Background and aims: Estimated glomerular filtration rate (eGFR) equations accuracy has been questioned in diabetes mellitus (DM). We aimed to evaluate the performance of three equations - European Kidney Function Consortium (EKFC), Full Age Spectrum (FAS), and 2021 Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) - in healthy... FR equations with a... ssessed using Bland-

ASReview allows users to track and change their review decisions.

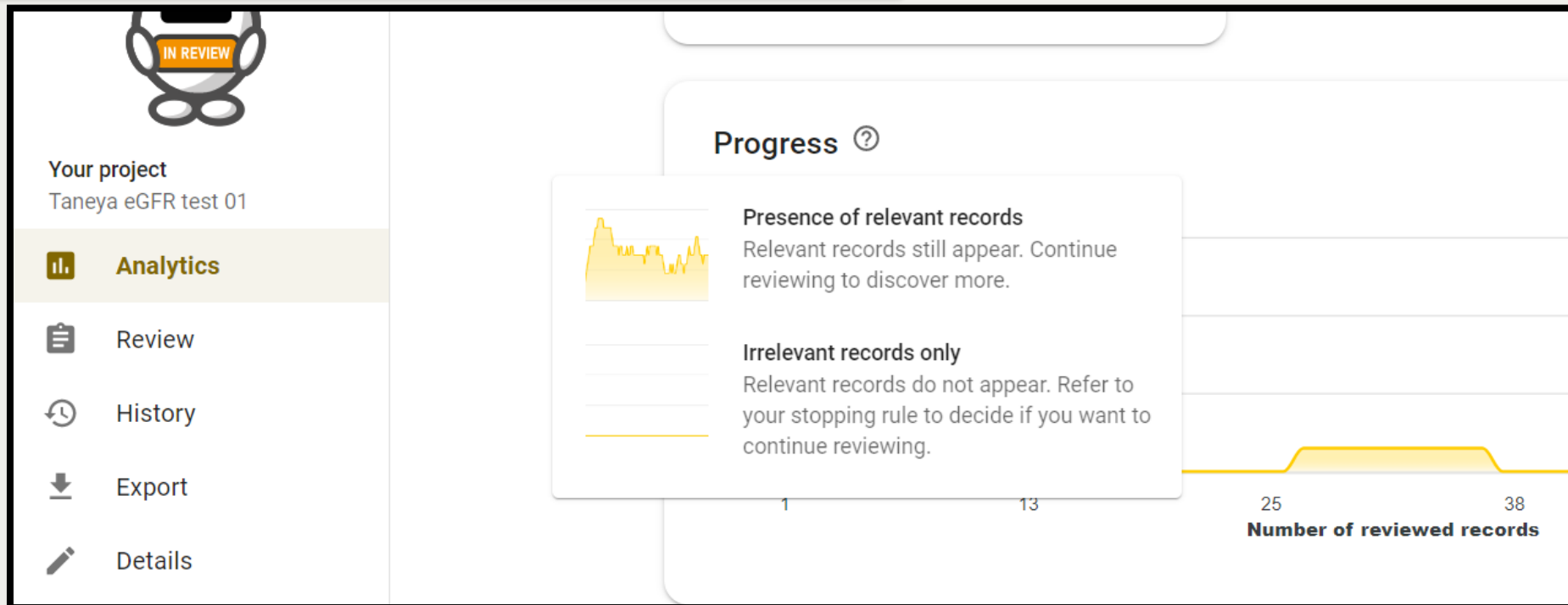
- The “History” feature allows you to see past decisions; filtered by selection status
- Notes can only be added to citations marked as “relevant”

Analytics



Analytics panel provides overview of citation dataset decisions.

“Stopping rules” can be a priori defined for screening.



An Example Flow Chart with ASReview

- Flow charts of studies using ASReview are less transparent in documenting reasons for article exclusion

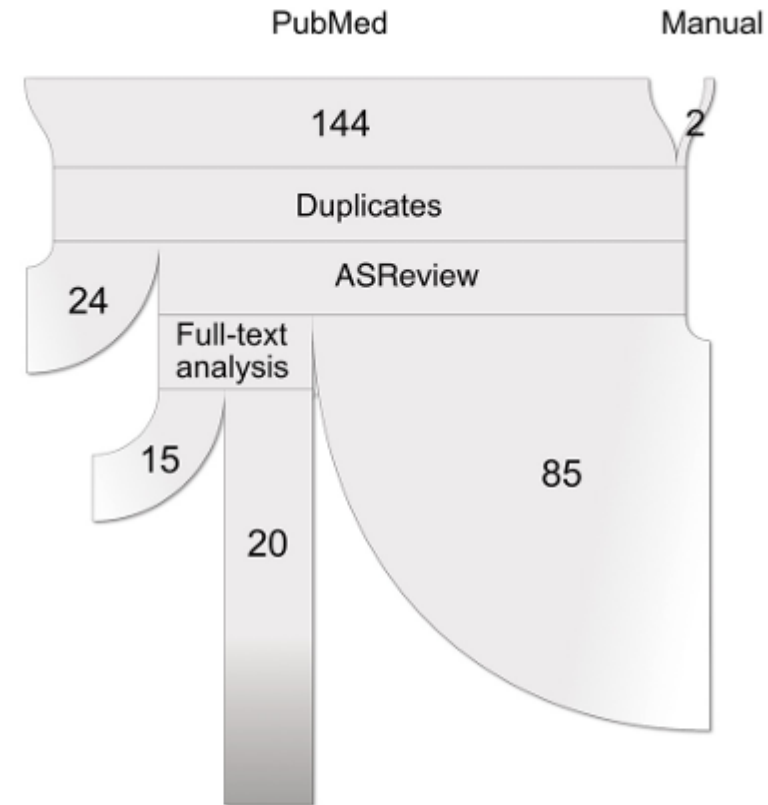




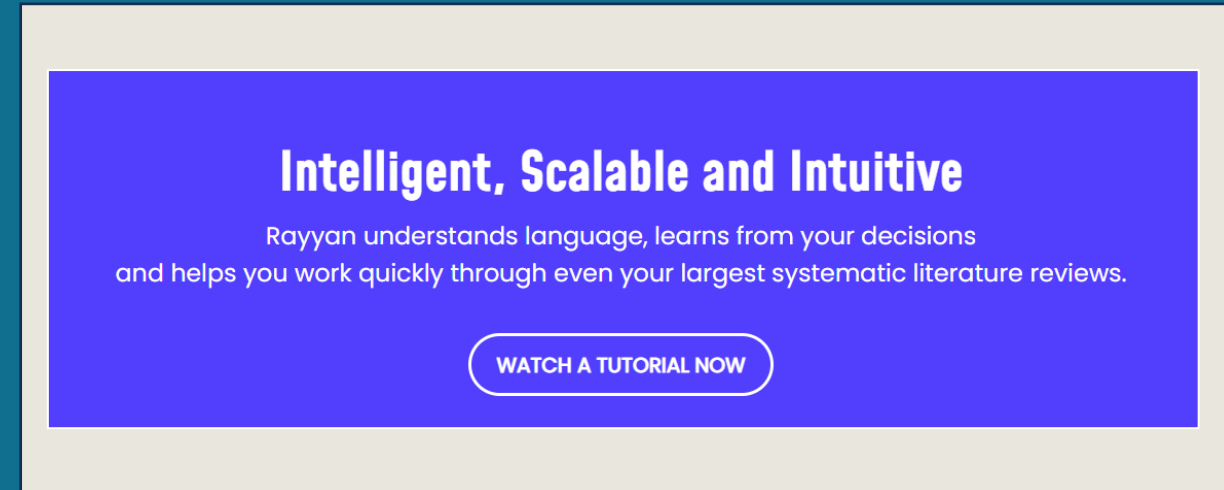
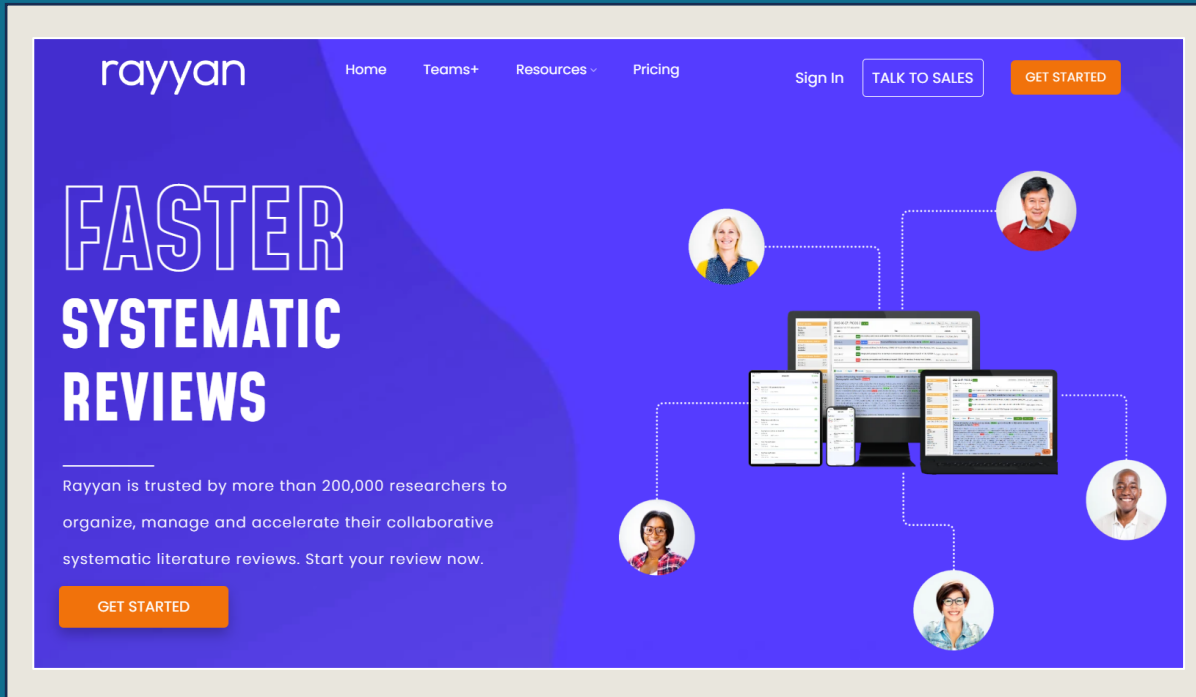


FIGURE 1 | Paper selection pipeline. PRISMA flowchart (represented as a ribbon plot, which flows from top to bottom) that schematizes the employed pipeline. A total of 144 articles were retrieved from PubMed using the string “(unsupervised learning OR clustering OR dimensionality reduction OR subtyping) AND functional MRI”. Two articles were included after the manual search, yielding a total of 146 input studies. After several systematic filters, which included the exclusion of reviews, duplicated articles, and relevance to the defined inclusion criteria, a total of 20 articles were included in the review.

ASReview in Summary

Feature		
Cost & access	Free and open source; technical expertise needed to install	
Supports multiple users	Review by one person at a time	
Aids with protocol development	<i>Not applicable</i>	
Integrates with search databases	<i>Not applicable</i>	
Easy to import/export	Easy to import and export	
Aid with duplicate citation removal	<i>Not applicable</i>	
Title & abstract screening	Designed for title and abstract screening	
Full-text review	<i>Not applicable</i>	
Critical appraisal	<i>Not applicable</i>	
Assist with reporting	<i>Not applicable</i>	



Rayyan

Developed by Qatar Computing Research Institute, first launched in 2014

Uses machine learning to accelerate the systematic review process

Through deduplication, Rayyan makes parts of the systematic review less time consuming.

- The auto-resolver feature identifies duplicate citations; can resolve large numbers of duplicates quickly
- Rating are assigned to estimate which records are “possible duplicates”

Presenting Auto-resolver: Resolve Large Number of Duplicates in Seconds

Removing duplicate references from an extensive collection of articles is not just taxing but also time consuming when it comes to literature review. To make the process easier Rayyan has introduced Auto-resolver.

With just one click, Rayyan's Auto-resolver lets you automatically detect and remove duplicate references with a statistical similarity of 95% and higher, significantly reducing the amount of time spent on de-duplication!

Date	Similarity	Title
2012-01-01	91%	Tocilizumab therapy in children with systemic onset juvenile idiopathic a
2013-01-01	91%	Tocilizumab therapy in children with systemic juvenile idiopathic arthritis
2013-01-01	95%	Rituximab in the treatment of children with systemic lupus erythematosu
2013-01-01	95%	Rituximab in the treatment of children with systemic lupus erythematosu
2012-01-01	98%	Incidence of selected opportunistic infections among children with juven
2012-01-01	98%	Incidence of selected opportunistic infections among children with juven
2013-01-01	98%	Incidence of selected opportunistic infections among children with juven
2012-01-01	99%	Long-term neurodevelopment of children exposed to above manufacture

Once you initiate Detect Duplicates, Rayyan's artificial intelligence automatically detects and resolves identical records retrieved from multiple databases that are 100% exact matches. For articles that appear to be possible duplicates based on their content overlap, Rayyan assigns them their corresponding duplicate confidence percentages and a Possible Duplicates facet will appear. You are then able to review and remove duplicates manually, or you may confirm the duplicates by comparing the title, authors, date and percentage similarity and then use the Auto-resolver to auto-resolve statistically high similarity duplicates. For a step-by-step guide on how to incorporate the Auto-resolver into your workflow, please visit this Help Center article.

Screen title and abstract, and full text, all through Rayyan.

- Rayyan helps reviewers quickly move through the screening processes by highlighting pre-determined keywords
- Users can choose (or add) a reason for exclusion/inclusion while screening

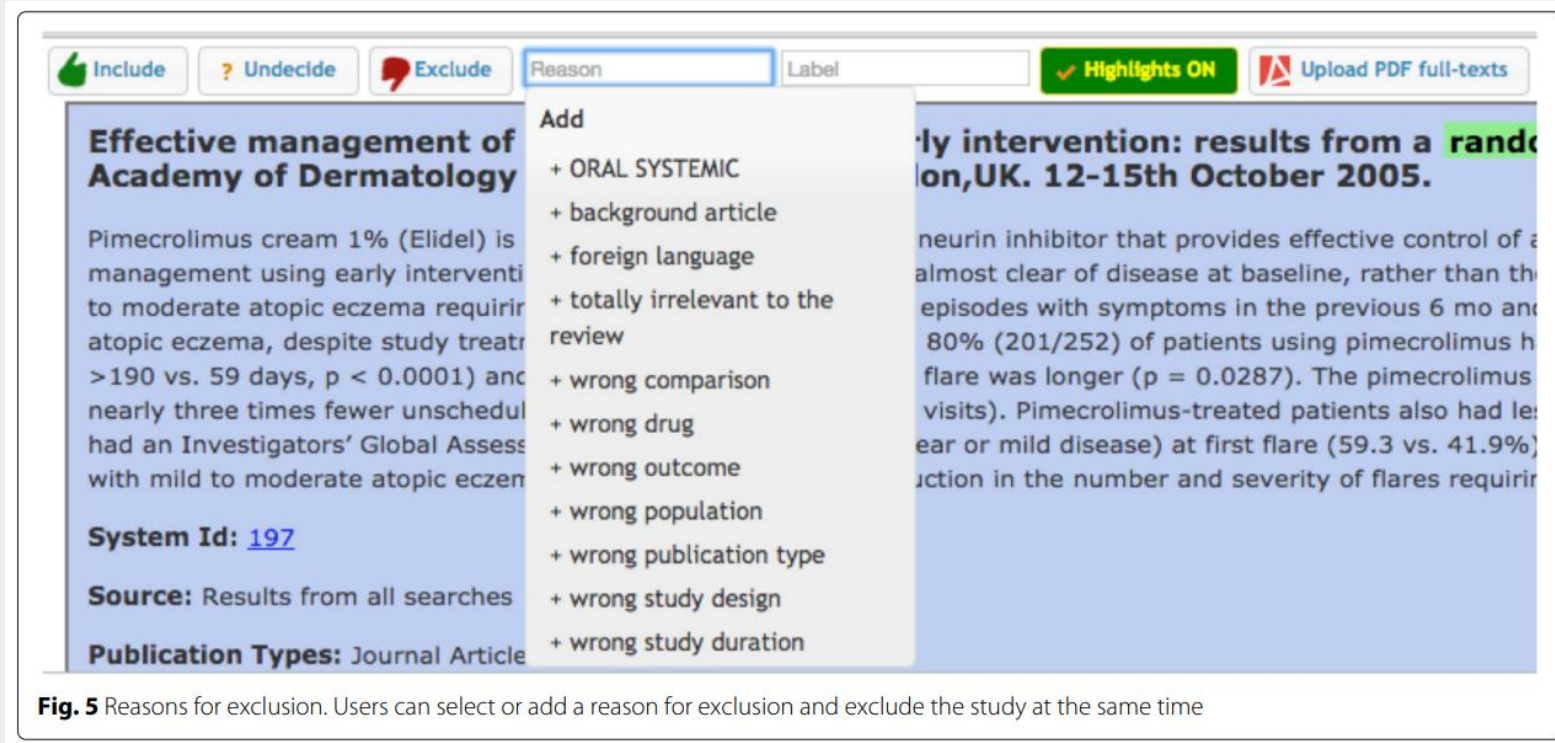


Fig. 5 Reasons for exclusion. Users can select or add a reason for exclusion and exclude the study at the same time

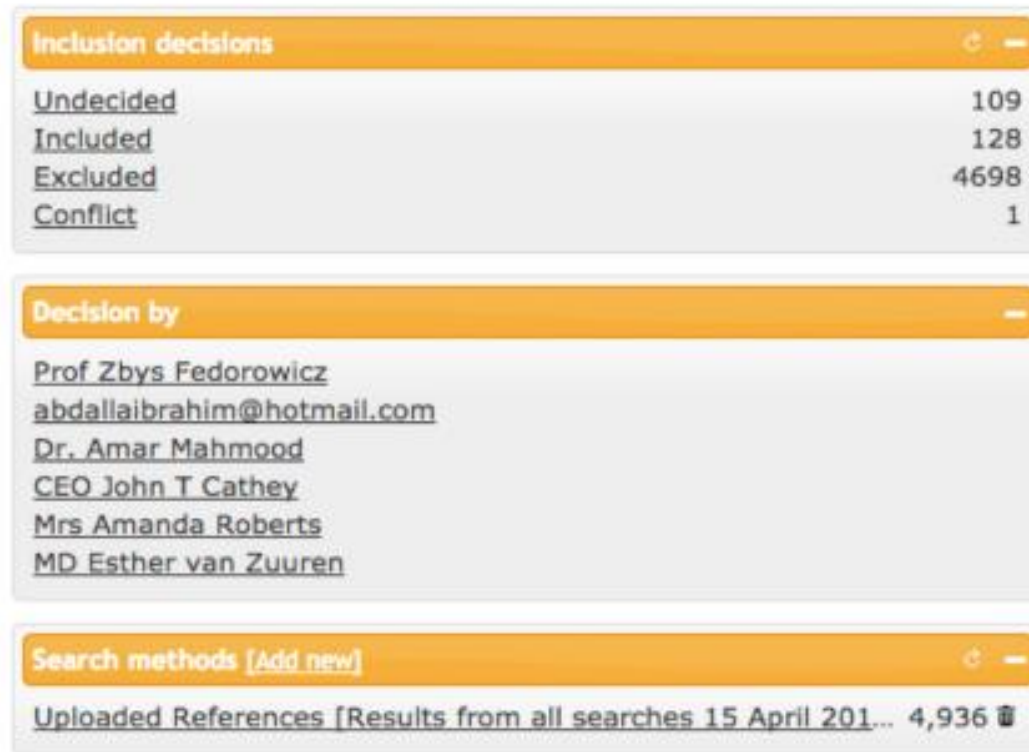
Rayyan allows for collaboration between multiple reviewers, in addition to easy communication.

- Add new reviewers to the project through email
- A “review chat” feature helps reviewers communicate within Rayyan

The screenshot displays the Rayyan interface. On the left, there are filters for inclusion decisions (Undecided: 39, Maybe: 1, Included: 43, Excluded: 40) and collaborator decisions (At least 1: 73, At least 2: 0). The main area shows a list of studies with columns for Date, Title, Authors, and Rating. A detailed view of a study titled "The efficacy and safety of a Chinese herbal product (Xiao-Feng-San) for the treatment of refractory atopic dermatitis: a randomized, double-blind, placebo-controlled trial" is shown. A review chat window is open at the bottom right, with a message from Adam: "Adam has joined". A text box at the bottom of the chat says "I have finished".

You can use the review chat at the bottom right to communicate with all of your collaborators on this review.

Keep track of any conflicts between reviewers



The screenshot displays three filter panels in the Rayyan interface. The first panel, 'Inclusion decisions', shows a table of counts for different decision statuses. The second panel, 'Decision by', lists the names of reviewers. The third panel, 'Search methods', shows the number of references from a specific search.

Inclusion decisions	
<u>Undecided</u>	109
<u>Included</u>	128
<u>Excluded</u>	4698
<u>Conflict</u>	1

Decision by	
<u>Prof Zbys Fedorowicz</u>	
<u>abdallaibrahim@hotmail.com</u>	
<u>Dr. Amar Mahmood</u>	
<u>CEO John T Cathey</u>	
<u>Mrs Amanda Roberts</u>	
<u>MD Esther van Zuuren</u>	

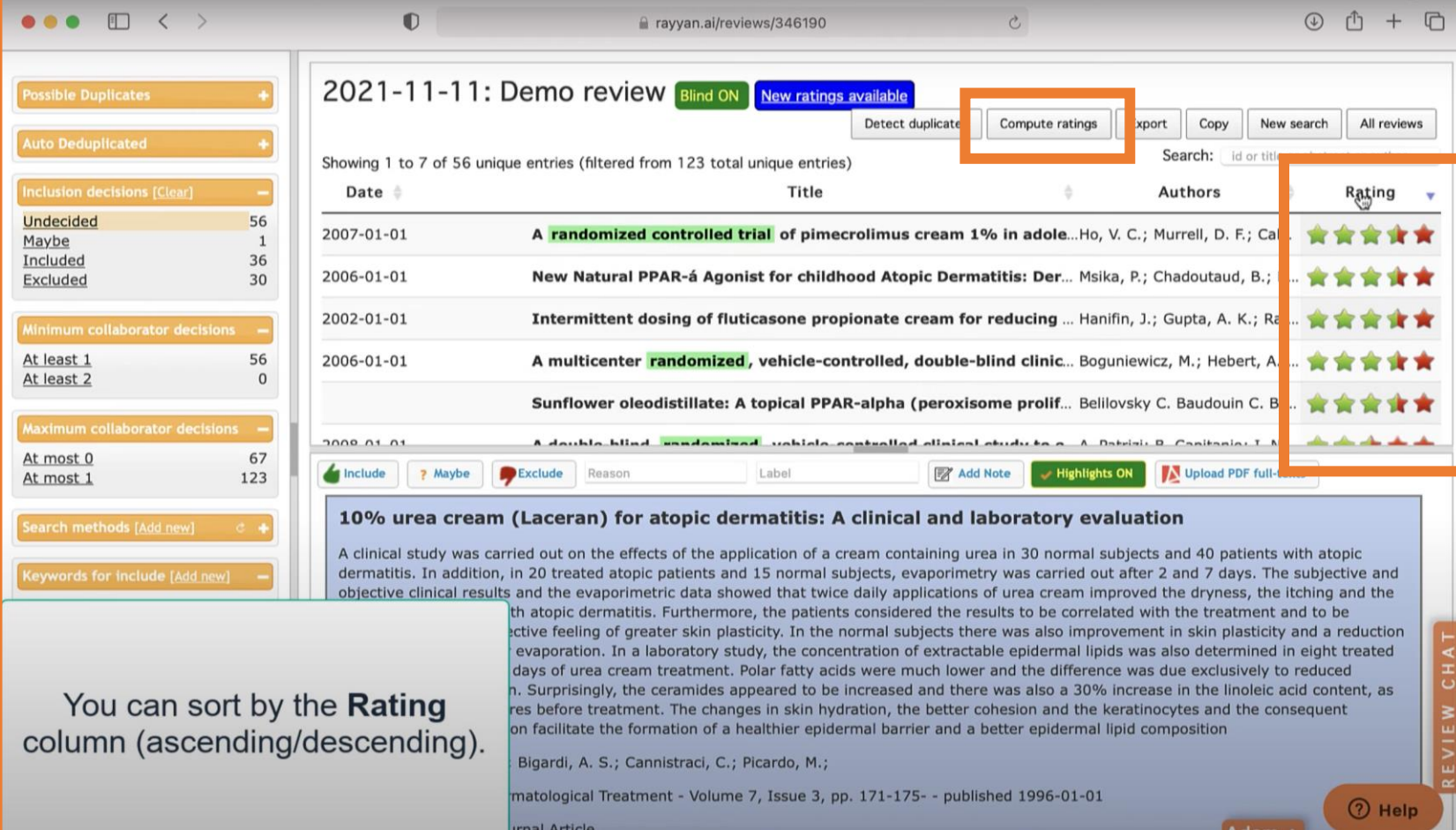
Search methods [Add new]	
<u>Uploaded References [Results from all searches 15 April 201...</u>	4,936

Fig. 6 Filtering by exclusion/inclusion decisions by author

- Masked review process
- Easily track individual decisions on inclusion/exclusion
- Identify and resolve any conflicts

Additionally, Rayyan uses machine learning to save time for reviewers by predicting relevance.

- After 50 decisions have been made, a “compute ratings” feature calculates the probability of inclusion/exclusion for each undecided reference
- More accurate predictions are made after more decisions are made by reviewers



The screenshot displays the Rayyan AI interface for a systematic review. The main area shows a list of references with columns for Date, Title, Authors, and Rating. The Rating column is highlighted with a red box, and the 'Compute ratings' button is also highlighted. A text box at the bottom left explains that references can be sorted by the Rating column.

2021-11-11: Demo review Blind ON New ratings available Compute ratings Export Copy New search All reviews

Showing 1 to 7 of 56 unique entries (filtered from 123 total unique entries)

Date	Title	Authors	Rating
2007-01-01	A randomized controlled trial of pimecrolimus cream 1% in adole...	Ho, V. C.; Murrell, D. F.; Ca...	☆☆☆☆☆
2006-01-01	New Natural PPAR- α Agonist for childhood Atopic Dermatitis: Der...	Msika, P.; Chadoutaud, B.; ...	☆☆☆☆☆
2002-01-01	Intermittent dosing of fluticasone propionate cream for reducing ...	Hanifin, J.; Gupta, A. K.; Ra...	☆☆☆☆☆
2006-01-01	A multicenter randomized, vehicle-controlled, double-blind clinic...	Boguniewicz, M.; Hebert, A...	☆☆☆☆☆
	Sunflower oleodistillate: A topical PPAR-alpha (peroxisome prolif...	Bellilovsky C. Baudouin C. B...	☆☆☆☆☆
2008-01-01	A double-blind, randomized, vehicle-controlled clinical study to e...	A. Patrício, B. Costeira, J. N...	☆☆☆☆☆

Include Maybe Exclude Reason Label Add Note Highlights ON Upload PDF full-text

10% urea cream (Laceran) for atopic dermatitis: A clinical and laboratory evaluation

A clinical study was carried out on the effects of the application of a cream containing urea in 30 normal subjects and 40 patients with atopic dermatitis. In addition, in 20 treated atopic patients and 15 normal subjects, evaporimetry was carried out after 2 and 7 days. The subjective and objective clinical results and the evaporimetric data showed that twice daily applications of urea cream improved the dryness, the itching and the th atopic dermatitis. Furthermore, the patients considered the results to be correlated with the treatment and to be active feeling of greater skin plasticity. In the normal subjects there was also improvement in skin plasticity and a reduction evaporation. In a laboratory study, the concentration of extractable epidermal lipids was also determined in eight treated days of urea cream treatment. Polar fatty acids were much lower and the difference was due exclusively to reduced n. Surprisingly, the ceramides appeared to be increased and there was also a 30% increase in the linoleic acid content, as res before treatment. The changes in skin hydration, the better cohesion and the keratinocytes and the consequent on facilitate the formation of a healthier epidermal barrier and a better epidermal lipid composition

Bigardi, A. S.; Cannistraci, C.; Picardo, M.;

matological Treatment - Volume 7, Issue 3, pp. 171-175- - published 1996-01-01

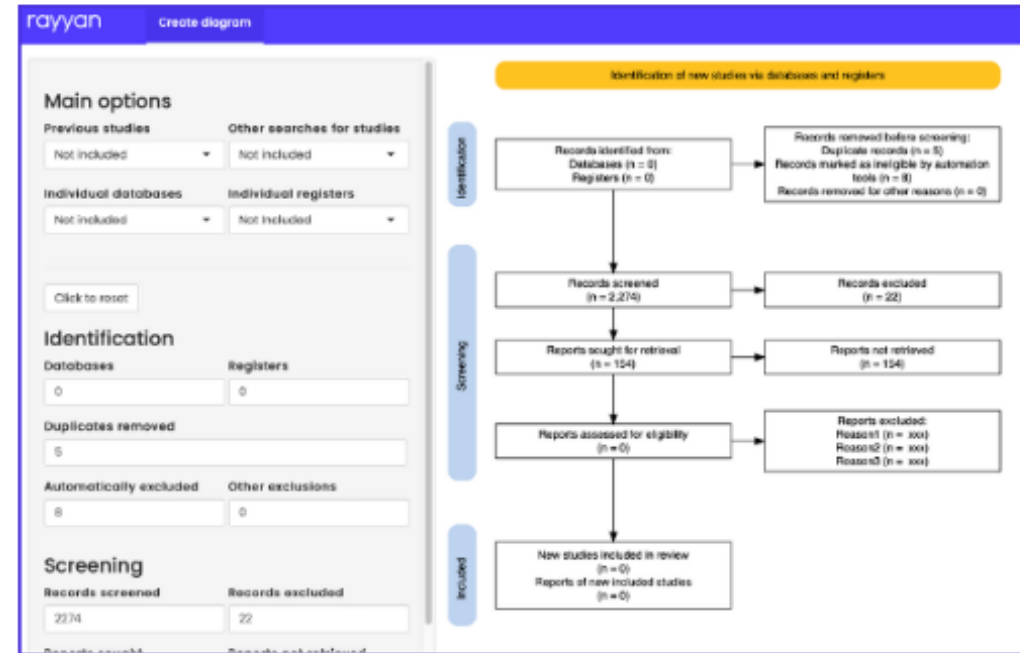
Review Article

Help

You can sort by the **Rating** column (ascending/descending).

Rayyan can be helpful in creating a PRISMA flow diagram.

Rayyan allows you to easily create a PRISMA flow diagram. PRISMA flow diagrams are commonly used in systematic reviews to show the flow of articles through the review process, from initial search results to the final included studies.



The PRISMA option on Rayyan automatically collects the available populated values from your decisions and displays them as a pre-set, ready-to-use flowchart, saving you all the labour of creating one from scratch. Additionally, Rayyan also provides a control panel to manually make updates or override values as necessary. You can then download your PRISMA Flow Diagram in any format including PDF, PNG, SVG, and Interactive HTML.

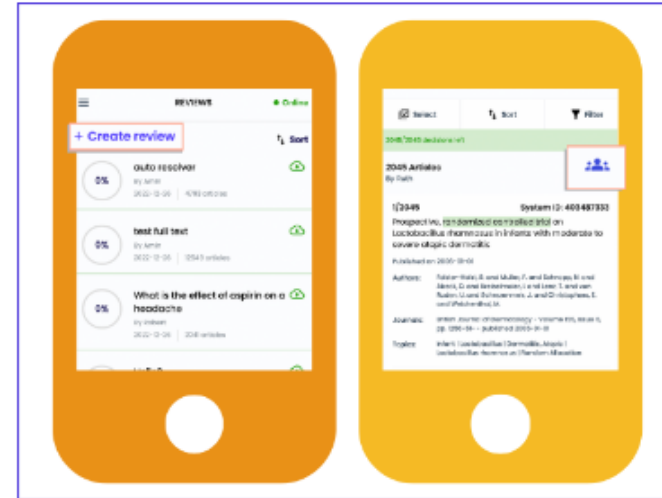
PRISMA = Preferred Reporting Items for Systematic Reviews and Meta-Analyses

A mobile app is available to keep users connected with ongoing projects.

Create Review and Manage Your Team with Rayyan's Mobile App

At Rayyan, we are always on the move to ensure that your user experience improves with every new update. Our recent major release allows you to create a new review, invite reviewers, and manage roles – all from the mobile app, in addition to other important usability enhancements for easier navigation!

Experience the All New Rayyan Mobile App and Unlock the Full Potential of Productivity



Rayyan's Mobile App is a game-changer! Learn how to use it to add productive time to your day.

Rayyan has multiple types of membership, including a free plan.



Professional, student, team, and enterprise memberships are also available



Some Rayyan features may not be available on the free membership

Free

For early career researchers just getting started with research.











US\$0

Free forever

GET STARTED

- 3 Active Reviews
- Invite Unlimited Reviewers
- Import Directly from Mendeley
- Industry Leading De-Duplication
- 5-Star Relevance Ranking
- Advanced Filtration Facets
- Mobile App Access
- 100 Decisions on Mobile App
- Standard Support
- Revoke Reviewer
- Online Training
- PICO Highlights & Filters
- PRISMA (Beta)
- Auto-Resolver (Beta)
- Multiple Teams & Management Roles
- Monitor & Manage Users, Searches, Reviews, Full Texts
- Onboarding and Regular Training

Rayyan in Summary

Feature		
Cost & access	Free and paid versions	
Supports multiple users	Multiple users can work concurrently on the same review	
Aids with protocol development	<i>Not applicable</i>	
Integrates with search databases	<i>Not applicable</i>	
Easy to import/export	Citations are easy to import and export	
Aid with duplicate citation removal	Duplicate citation removal features are offered	
Title & abstract screening	Designed for title and abstract screening	
Full-text review	Designed for full-text review	
Critical appraisal	Does not aid with critical appraisal	
Assist with reporting	Aids with creating PRISMA flow diagram	

Better systematic review management

Reviewers

Organizations



Faster reviews

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

How to access Covidence:

- Single (one review, unlimited reviewers), Package (up to three reviews), and Organizational plans are available through Covidence
- Check the website to see if your organization has a Covidence institutional license

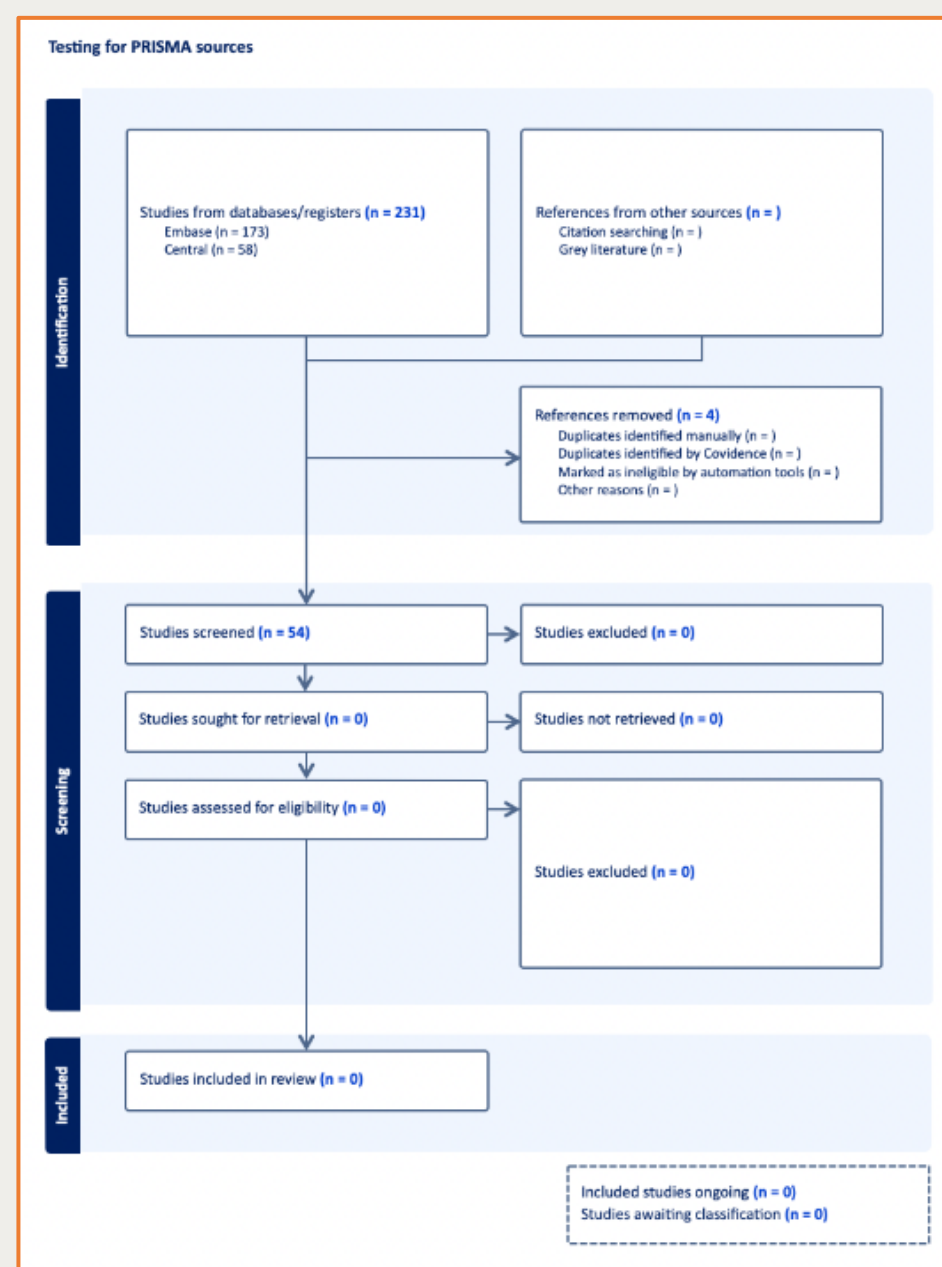
Join 300+ other leading organizations

Many of the world's leading universities, societies and hospitals around the world are already offering Covidence to their staff, students or members. With an institutional licence, you have complete admin control over user access, and visibility across reviews and authors within your organization.

See who's already using Covidence

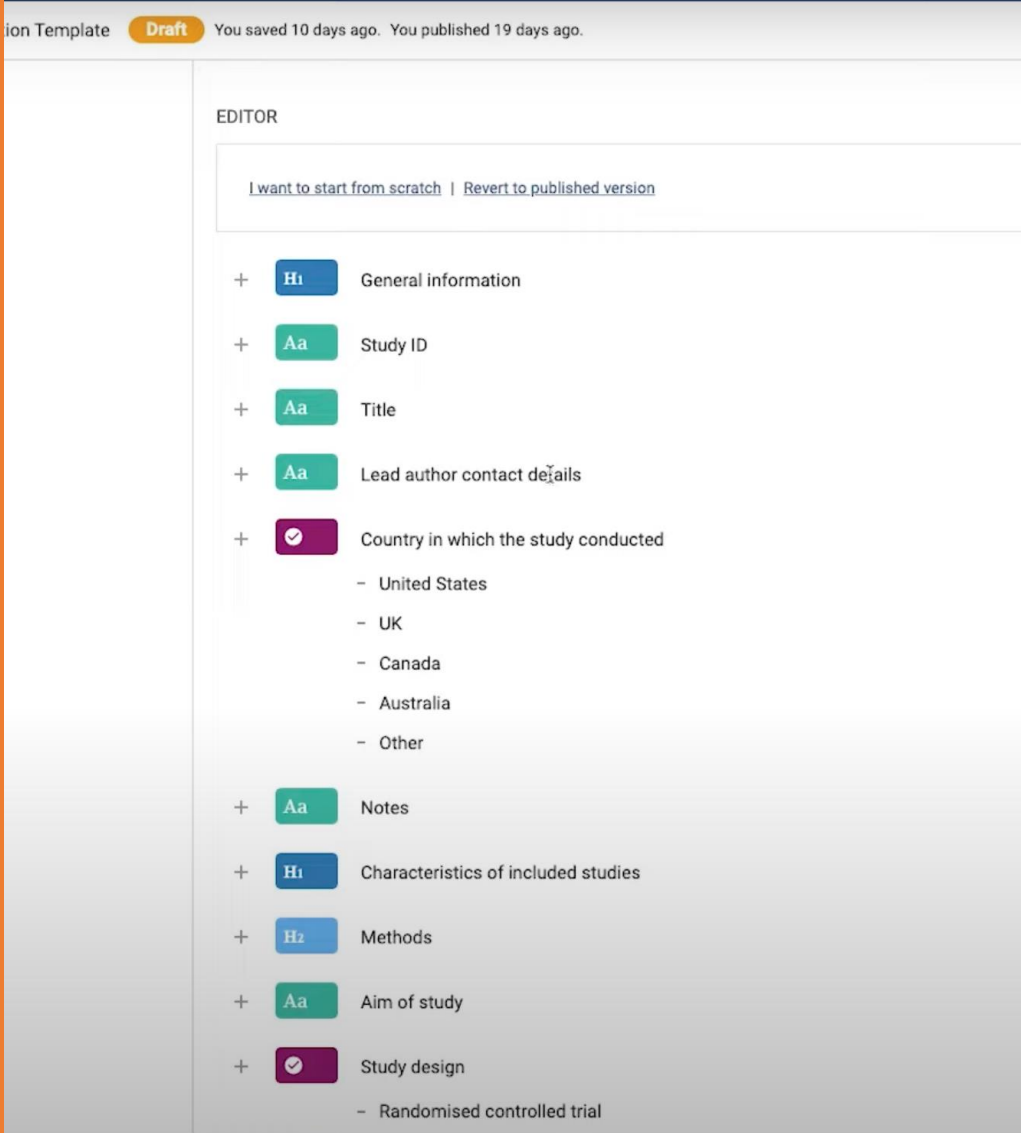
Using Covidence, users can...

- Import references
- Screen title & abstract
- Bulk PDF import
- Screen full text
- Create forms to track eligibility criteria and discordance among reviewers



Additional features

- Automatically populate risk of bias tables
- Customize forms for data extraction
- Easily export to all common formats
- Collaborate with internal and external colleagues













The screenshot shows a web interface for a data extraction form. At the top, it says "ion Template" and "Draft" in a yellow button, followed by "You saved 10 days ago. You published 19 days ago." Below this is an "EDITOR" section with two links: "I want to start from scratch" and "Revert to published version". The main content is a list of form sections, each with a plus sign and a colored icon:

- + **H1** General information
- + **Aa** Study ID
- + **Aa** Title
- + **Aa** Lead author contact details
- + **✓** Country in which the study conducted
 - United States
 - UK
 - Canada
 - Australia
 - Other
- + **Aa** Notes
- + **H1** Characteristics of included studies
- + **H2** Methods
- + **Aa** Aim of study
- + **✓** Study design
 - Randomised controlled trial

Example data extraction form

Covidence in Summary

Feature		
Cost & access	Paid versions; institutional license	
Supports multiple users	Multiple users can work concurrently on the same review	
Aids with protocol development	<i>Not applicable</i>	
Integrates with search databases	<i>Not applicable</i>	
Easy to import/export	Citation imports available in multiple formats	
Aid with duplicate citation removal	Duplicate citation detection is available	
Title & abstract screening	Designed for title and abstract screening	
Full-text review	Designed for full-text review	
Critical appraisal	Automatic calculation of risk of bias assessments	
Assist with reporting	Aids with creating PRISMA flow diagram	

Review what you learned....

Comparison of Systematic Review Tools

Feature	SRDR+	ASReview	Rayyan	Covidence
Cost				
Supports multiple users				
Aids with protocol development				
Integrates with search databases				
Easy to import/export				
Aid with duplicate citation removal				
Title & abstract screening				
Full-text review				
Critical appraisal				
Assist with reporting				



Objectives:

- ✓ Introduce common tools for managing a systematic review
- ✓ Describe benefits and limitations of different tools

Presented by
Center for Knowledge Management

