

# Dual Extraction

**Dual Extraction** is a quality-controlled extraction process, where two users independently extract data from each article, and then all data are adjudicated by an Administrator.

The Admin adjudicates any disagreement between Reviewer A and Reviewer B and sets the final determination for each study. For example, if Reviewer A extracts the mean age as 70 but Reviewer B extracts it as 71, the Adjudicator will then need to choose between those values and identify the correct one.

***Only those with Admin privileges can serve as Adjudicators, but any user can serve as a Reviewer***

This feature is useful to ensure that your team curates the most accurate and high quality data possible. Dual extraction can help with this since it has been shown that dual extraction results in fewer errors than single extraction. ([source](#))

## Configure Dual Extraction

To configure dual extraction, go to the Admin page under settings and then scroll to the Extraction section. Then, toggle to dual extraction to turn this feature on.

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**Dashboard**

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**Configure Extraction**

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**Study Inspector**

**Synthesis**

**Manuscript Editor****Abstract Editor****Export**

**Extraction**

**Extract:**

Checking this box will make the extraction module available in AutoLit, allowing you to extract data.

☒ Data Extraction

**Dual vs. Standard Extraction**

In Standard Extraction, one user extracts each study and that data is considered final. Another user may review or modify final data, but the data is not subject to systematic independent confirmation.  
In Dual Extraction, two users independently extract each study and all data are reviewed by an administrator. The administrator adjudicates disagreements between the original reviewers and generates the final data set.

Standard

Dual

**Warning:** Toggling back from Dual Extraction to Standard Extraction will ONLY save final adjudications, and **all data associated with non-final individual users' extractions will be lost!**

## Dual Extraction Steps

### 1. Two users must independently extract the data.

Once Dual Extraction is configured (see above), The software will automatically queue individual studies to users until at least two Extractions are Marked Complete.

If you need help with the Extraction process, check out [this page](#). Each study will appear in the Adjudicate Extraction queue only after two independent extractions are Marked Complete.



Unlike Standard (single) Extraction, when a user is finished extracting in Dual mode, the data are NOT displayed on Synthesis. In Dual Extraction, data are queued for Adjudication, and displayed on Synthesis only after Adjudication on the study in question is Marked Complete.

## 2. Adjudicate the data

Go to the Adjudicate Extraction page to review the data extracted by the two independent, underlying users. At first the page will appear the same as the Dual Extraction page. To view the two independent decisions, expand the right hand tabs by clicking the arrows icon in the left corners.

The screenshot displays the Adjudicate Extraction interface. The main content area shows the abstract of a study from the *Journal of Antimicrobial Chemotherapy*. The title is "Sofosbuvir and daclatasvir compared with standard of care in the treatment of patients admitted to hospital with moderate or severe coronavirus infection (COVID-19): a randomized controlled trial". The authors listed are Anahita Sadeghi, Ali Ali Asgari, Alireza Norouzi, Zahedin Kheiri, Amir Anushirvani, Mahnaz Montazeri, Hadiseh Hosamirudsai, Shirin Affhami, Elham Akbarpour, Rasoul Aliannejad, Amir Reza Radmard, Amir H. Davarpanah, Jacob Levi, Hannah Wentzel, Ambar Qavi, Anna Garratt, Bryony Simmons, Andrew Hill, and Shahin Merat. The journal information is *J Antimicrob Chemother* 2020; 75: 3379–3385, doi:10.1093/jac/dkaa334, Advance Access publication 19 August 2020.

The right-hand sidebar contains three expandable tabs: "Navigation", "Study Design", and "Extracted Data". Each tab has a double-headed arrow icon in its top-left corner, which is highlighted with a red box in the image. The "Navigation" tab is currently expanded, showing a "Back" button and "Skip" and "Complete" buttons. The "Study Design" tab is also expanded, showing a table with columns for "Intervention" and "Arm Size". The "Extracted Data" tab is expanded, showing a "Filter Data Elements" input field and a button to "Add one or more arms".

This will display three columns: Reviewer A, Reviewer B, and Final. The adjudicator will put the correct data in the Final column, adjudicating differences between the reviewers. Disagreements between reviewers are highlighted in red. The adjudicator can choose to input the same data as either of the reviewers or neither of them if they were both wrong. To enter in data, hit the plus sign and fill in the cells. You may use the arrows icon to toggle between viewing reviewer decisions and the study. When done, to move on to the next study, hit Complete in the top right corner.

Navigation

Back

Skip

Complete

Study Design

Arms

Reviewer A

Intervention

Daclatasvir

Sofosbuvir

Arm Size

12

10

Reviewer B

Intervention

Daclatasvir

Sofosbuvir

Arm Size

11

10

✓

✓

Final

Intervention

Arm Size

+

Extracted Data

Filter Data Elements

Reviewer A

Age Median

Asthma

Timepoint

Baseline

Arm

Time

5

Events

Units

Days

Total

Daclatasvir

Sofosbuvir

Reviewer B

Age Median

Asthma

Timepoint

Baseline

Arm

Time

5

Events

Units

Days

Total

Daclatasvir

Sofosbuvir

Final

Age Median

Asthma

Timepoint

Baseline

Arm

Time

0

Events

Units

Days

Total

✓

✓

✓

+

+

+

Cancer

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