

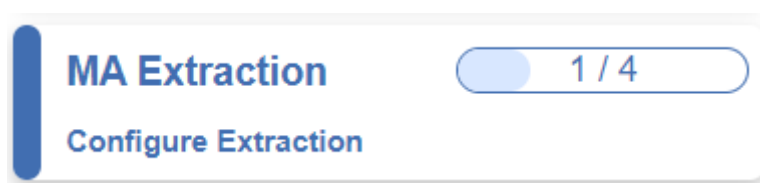
Meta-Analytical Data Extraction

Once you have [configured](#) your Interventions and Data Elements, you are ready to extract data from all included studies in the nest.

Steps for Data Extraction:

1. Navigate to Extraction

Select “MA Extraction” from the menu:



Alternatively, you can Extract MA data from the “MA Extract” tab in Inspector. See [here](#) for details on how to get to the Study Modal.

2. Add Study Arms

Study Arms represent the patient groups you plan to extract.

2a. Add Rows

To add study arms and identify the Intervention used for each arm, click the “+” button (red circle) in the Study Arms section of the Study Design panel (upper right). Add one Arm for every patient group from the study you plan to extract.

The screenshot shows a web browser on the left displaying a study design paper titled "Dual angiotensin receptor and neprilysin inhibition as an alternative to angiotensin-converting enzyme inhibition in patients with chronic systolic heart failure: rationale for and design of the Prospective comparison of ARNI with ACEI to Determine Impact on Global Mortality and morbidity in Heart Failure trial (PARADIGM-HF)". The paper is from the European Journal of Heart Failure (2013) 15, 1062–1073. On the right, a mobile app interface for "Study Design" is shown. It features a list of interventions with a red arrow pointing to the "Intervention" column header. Below the list, there are sections for "Units" and "Days" with input fields for "SD" and "N".

2b. Identify Interventions

Then, determine what Intervention the study investigated and then find that Intervention using the Intervention drop down menu (see above, red arrow).

2c. Identify Arm Sizes

Next, determine how many participants were included in the study and put that number in the "Arm Size" box.

Add a new Study Arm for every patient group you want to extract separately.

3. Extract the Meta-Analytical Data:

Once you have finished establishing the Study Arms, you are ready to extract the data from the underlying study. The first step in doing so, for each Data Element, is establishing the Measurement Timepoint for each Data Element.

3a. Select Measurement Timepoints

Each Data Element has one Timepoint presented by default; select whether this timepoint will be:

- **Baseline:** Usually reported at the start of a study. One Baseline timepoint per Data Element will be displayed on Synthesis.
- **Outcome:** Reported at a designated follow-up period. One Outcome timepoint per Data Element will be displayed on Synthesis.
- **Other:** Any additional timepoint reported that is of interest. Any number of Other timepoints may be created and saved in AutoLit, but **"Other" timepoints will not be presented on**

Synthesis.

Filter Data Elements

Age (Mean)

| | Timepoint | Time | Units | |
|---|-----------|--------------|-------|-----|
| ✓ | Baseline | 0 | Days | |
| ✓ | Baseline | Mean (years) | SD | N |
| ✓ | Outcome | 66.8 | 13.1 | 154 |
| ✓ | Other | 67.2 | 11.9 | 146 |

Male Sex

| | Timepoint | Time | Units | |
|---|-------------------------------------------------|--------|-------|-----|
| ✓ | Baseline | 0 | Days | |
| ✓ | Arm | Events | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 100 | | 154 |
| ✓ | Standard medical therapy only | 96 | | 146 |

Mortality

| | Timepoint | Time | Units | |
|---|-------------------------------------------------|--------|-------|-----|
| ✓ | Outcome | 90 | Days | |
| ✓ | Arm | Events | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 59 | | 154 |
| ✓ | Standard medical therapy only | 63 | | 146 |

mRS 0-2

| | Timepoint | Time | Units | |
|---|-------------------------------------------------|--------|-------|-----|
| ✓ | Outcome | 90 | Days | |
| ✓ | Arm | Events | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 54 | | 154 |
| ✓ | Standard medical therapy only | 44 | | 146 |



When you designate a timepoint as “Baseline” or “Outcome”, you are designating that its data should be pooled with other studies' data. This means that the Measurement Timepoint you designate as “Outcome”, for instance, in each study, must be similar to the “Outcome” timepoint designated in all other studies in that nest.

3b. Enter Time and Units for each Measurement Timepoint

For each Timepoint, enter the follow-up period with the appropriate unit of time (Days, Weeks, etc.). For Baseline Timepoints, this will typically be 0 days.

| Extracted Data | | | | | |
|----------------------|-------------------------------------------------|--------------|------|-------|--|
| Filter Data Elements | | | | | |
| Age (Mean) | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Baseline | 0 | | Days | |
| | Arm | Mean (years) | SD | N | |
| ✓ | Endovascular therapy plus/minus medical therapy | 66.8 | 13.1 | 154 | |
| ✓ | Standard medical therapy only | 67.2 | 11.9 | 146 | |
| Male Sex | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Baseline | 0 | | Days | |
| | Arm | Events | | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 100 | | 154 | |
| ✓ | Standard medical therapy only | 96 | | 146 | |
| Mortality | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Outcome | 90 | | Days | |
| | Arm | Events | | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 59 | | 154 | |
| ✓ | Standard medical therapy only | 63 | | 146 | |
| mRS 0-2 | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Outcome | 90 | | Days | |
| | Arm | Events | | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 54 | | 154 | |
| ✓ | Standard medical therapy only | 44 | | 146 | |
| mRS 0-3 | | | | | |

3c. Extract the MA Data for each Measurement Timepoint

Read through the study and extract the relevant data scoped to each specific Timepoints.

| Extracted Data | | | | | |
|----------------------|-------------------------------------------------|--------------|------|-------|--|
| Filter Data Elements | | | | | |
| Age (Mean) | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Baseline | 0 | | Days | |
| | Arm | Mean (years) | SD | N | |
| ✓ | Endovascular therapy plus/minus medical therapy | 66.8 | 13.1 | 154 | |
| ✓ | Standard medical therapy only | 67.2 | 11.9 | 146 | |
| Male Sex | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Baseline | 0 | | Days | |
| | Arm | Events | | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 100 | | 154 | |
| ✓ | Standard medical therapy only | 96 | | 146 | |
| Mortality | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Outcome | 90 | | Days | |
| | Arm | Events | | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 59 | | 154 | |
| ✓ | Standard medical therapy only | 63 | | 146 | |
| mRS 0-2 | | | | | |
| ✓ | Timepoint | Time | | Units | |
| | Outcome | 90 | | Days | |
| | Arm | Events | | Total | |
| ✓ | Endovascular therapy plus/minus medical therapy | 54 | | 154 | |
| ✓ | Standard medical therapy only | 44 | | 146 | |

3d. Changes to Total Population / Loss to Follow-up

If the total population for any Data Element differs from the total population you reported for the Study Arm as a whole, ensure that you edit this information in the “Total” column for that individual Data Element.

3e. How to use Tags to inform MA Extraction

If you hover over the tag symbol on each data point (see Figure above, red circles), you will notice that the tags applied will appear. This allows for a quick and efficient way to confirm the work of the taggers, as well as the tags giving information to you as the extractor.

3f. How to use the "Status" symbols

CAUTION: Watch for the red Xs that appear under “Status”. This means something is wrong with the data (missing information, non-numerical information, or other error).

| Extracted Data | | | | | |
|-------------------------------------------------|------------------|-----------|-----------|-------|--|
| Filter Data Elements | | | | | |
| Arm | Median | IQR Lower | IQR Upper | N | |
| Endovascular therapy plus/minus medical therapy | 264 | | | 154 | |
| Standard medical therapy only | | | | 146 | |
| sICH | | | | | |
| Timepoint | Time | | | Units | |
| Outcome | | 1 | | Days | |
| Arm | Events | | | Total | |
| Endovascular therapy plus/minus medical therapy | 7 | | | 154 | |
| Standard medical therapy only | 1 | | | 146 | |
| TICI 2b/3 | | | | | |
| Timepoint | Time | | | Units | |
| Outcome | | 0 | | Days | |
| Arm | Events | | | Total | |
| Endovascular therapy plus/minus medical therapy | | | | 88 | |
| Standard medical therapy only | | | | 146 | |
| TICI Independently Rated (Yes) | | | | | |
| Timepoint | Time | | | Units | |
| Outcome | | 0 | | Days | |
| Arm | Events | | | Total | |
| Endovascular therapy plus/minus medical therapy | 154 | | | 154 | |
| Standard medical therapy only | 146 | | | 146 | |
| Admission-to-needle | | | | | |
| Timepoint | Time | | | Units | |
| Outcome | | | | Days | |
| Arm | Median (minutes) | IQR Lower | IQR Upper | N | |

If any of your data elements have a red X, DO NOT hit “Complete”. You will need to figure out the problem and fix it before hitting “Complete” or risk losing the data from that row.

Note: Anytime there is a module box with the adjustable icon, you can drag to adjust the width of the box depending on your preference.

Data Extraction: Standard Modes: COVID-19

Abstract Full Text Supplements Related Reports 947 29 1179 5 PMC

Research

JAMA | Original Investigation

Effect of Remdesivir vs Standard Care on Clinical Status at 11 Days in Patients With Moderate COVID-19

A Randomized Clinical Trial

Christoph D. Spinner, MD, Robert L. Gottlieb, MD, PhD, Gerard J. Criner, MD, José Ramón Arribas López, MD, Anna Maria Cattelan, MD, Alex Soriano Viladomiu, MD, Oryema Ogbuagu, MD, Prashant Malhotra, MD, Kathleen M. Mullane, DO, Antonella Castagna, MD, Louis Yi Ann Chai, MD, Meta Roestenberg, MD, Owen Tak Yin Tsang, MD, Enos Bernasconi, MD, Paul Le Turnier, MD, Shan-Chwen Chang, MD, Devi Sengupta, MD, Robert H. Hyland, DPhil, Anu O. Olanusi, MD, Nguyen Cao, MD, Christiana Blaz, MS, Hongquan Wang, PhD, Anuj Gaggar, MD, PhD, Diana M. Brainard, MD, Mark J. McPhail, MD, Sanjay Bhagani, MD, Mi Young Ahn, MD, Arun J. Sanyal, MD, Gregory Huhn, MD, Francisco M. Marty, MD, for the G6-US-540-5774 Investigators

Visual Abstract
Editorial page 1041
Supplemental content

IMPORTANCE Remdesivir demonstrated clinical benefit in a placebo-controlled trial in patients with severe coronavirus disease 2019 (COVID-19), but its effect in patients with moderate disease is unknown.

OBJECTIVE To determine the efficacy of 5 or 10 days of remdesivir treatment compared with standard care on clinical status on day 11 after initiation of treatment.

DESIGN, SETTING, AND PARTICIPANTS Randomized, open-label trial of hospitalized patients with confirmed severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection and moderate COVID-19 pneumonia (pulmonary infiltrates and room-air oxygen saturation >94%) enrolled from March 15 through April 18, 2020, at 105 hospitals in the United States, Europe, and Asia. The date of final follow-up was May 20, 2020.

INTERVENTIONS Patients were randomized in a 1:1:1 ratio to receive a 10-day course of remdesivir (n = 197), a 5-day course of remdesivir (n = 199), or standard care (n = 200). Remdesivir was dosed intravenously at 200 mg on day 1 followed by 100 mg/d.

MAIN OUTCOMES AND MEASURES The primary end point was clinical status on day 11 on a 7-point ordinal scale ranging from death (category 1) to discharged (category 7). Differences between remdesivir treatment groups and standard care were calculated using

Navigation 15 / 19

Study Design

Arms

| Intervention | Arm Size |
|-----------------------------|----------|
| 10-day course of Remdesivir | 197 |
| 5-day course of Remdesivir | 199 |
| Control/Standard of Care | 200 |

Extracted Data

Filter Data Elements

Hypertension

| Timepoint | Time | Units |
|-----------------------------|--------|-------|
| Baseline | 0 | Days |
| Arm | Events | Total |
| 10-day course of Remdesivir | 85 | 197 |
| 5-day course of Remdesivir | 82 | 199 |
| Control/Standard of Care | 81 | 200 |

Diabetes Mellitus

| Timepoint | Time | Units |
|-----------------------------|--------|-------|
| Baseline | 0 | Days |
| Arm | Events | Total |
| 10-day course of Remdesivir | 85 | 197 |
| 5-day course of Remdesivir | 71 | 199 |
| Control/Standard of Care | 76 | 200 |

Cardiovascular Disease

| Timepoint | Time | Units |
|-----------|--------|-------|
| Baseline | 0 | Days |
| Arm | Events | Total |

4. Complete Data Extraction

Once you have input all of the relevant and correct data AND all of the timepoints for each Data Element you extracted have a green check mark, you can hit complete and move onto the next study!

From:
<https://wiki.nested-knowledge.com/> - **Nested Knowledge**

Permanent link:
https://wiki.nested-knowledge.com/doku.php?id=wiki:autolit:meta_analytical_extraction:extract

Last update: **2023/07/07 22:45**