

# 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 “Extraction” from the menu:

Nest Home

Dashboard

Settings

Literature Search

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Other Sources

Duplicate Review

Search Exploration

Query Builder

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Configure Screening

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Configure Tagging

Extraction

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Configure Extraction

Risk of Bias

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Study Inspector

Synthesis

Manuscript Editor

Abstract Editor

Export

Alternatively, you can Extract data from the “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 the Yonsei Medical Journal (YMJ) article page. The article title is "A Single Flow Re-direction Endoluminal Device for the Treatment of Large and Giant Anterior Circulation Intracranial Aneurysms". The Study Design panel on the right shows the "Arms" section with a dropdown menu for "Intervention" and a red arrow pointing to the "+" button to add a new arm.

## 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 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.

Filter Data Elements

Extracted Data

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 Data for each Measurement Timepoint

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

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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 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 1,179 5 PMC

**Navigation** 15 / 19

**Study Design**

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

**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; Onyema Ogbuagu, MD; Prashant Malhotra, MD; Kathleen M. Mullane, DO; Antonella Castagna, MD; Louis Yi Ann Chai, MD; Meta Roesterberg, MD; Owen Tak Yin Tsang, MD; Enos Bernasconi, MD; Paul Le Turnier, MD; Shan-Chwen Chang, MD; Devi Sridhar, MD; Robert H. Hyland, DPhil; Anu O. Ojinski, MD; Huyen Cao, MD; Christiana Blau, MS; Hongquan Wang, PhD; Anuj Gaggar, MD, PhD; Diana M. Brainard, MD; Mark J. McPhail, MD; Sanjay Bhargava, MD; Mi Young Ahn, MD; Arun J. Samy, MD; Gregory Huhn, MD; Francisco M. Marty, MD, for the GS-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 RESULTS 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

## 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!

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