

# User Guide

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## NWAU Calculator

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**Table of Contents**

**Introduction..... 3**

**Start page ..... 3**

**Edit Journey page ..... 4**

**Journey page ..... 6**

**Create an encounter..... 7**

**Encounter page..... 9**

NWAU ..... 9

Formula..... 10

**Suggestions ..... 11**

**Journey Comparison page ..... 12**

# Introduction

This user guide provides instructions on how to use the NSW Health National Weighted Activity Unit (NWAU) calculator.

## Start page

When you first open the application, you will be brought to the **Start** page. This page displays the journeys you have created and some answers to commonly asked questions about the NWAU calculator.

To add a journey, press the **+** symbol next to **Your Journeys**. You will be taken to the **Edit Journey** page.

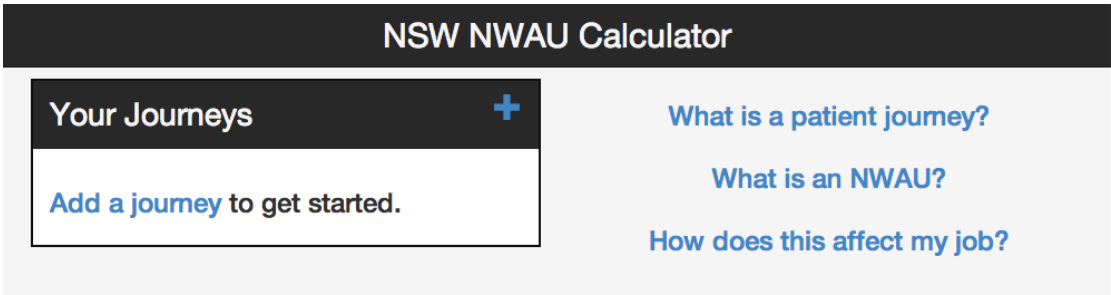


Figure 1: Start page with no journeys

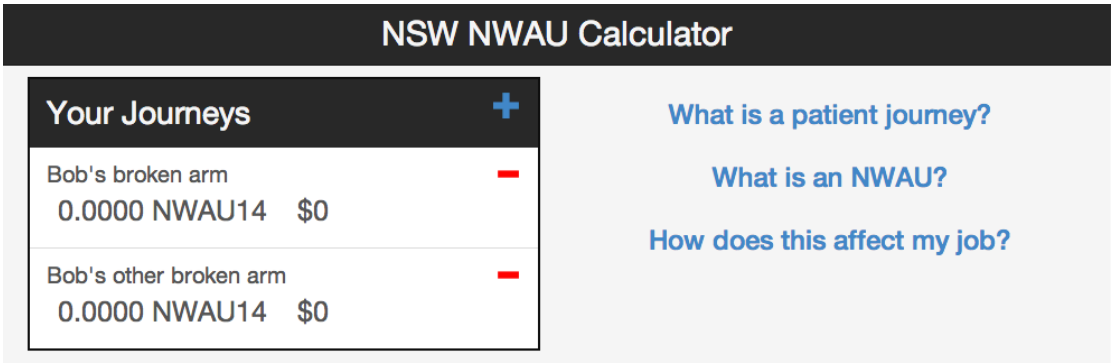
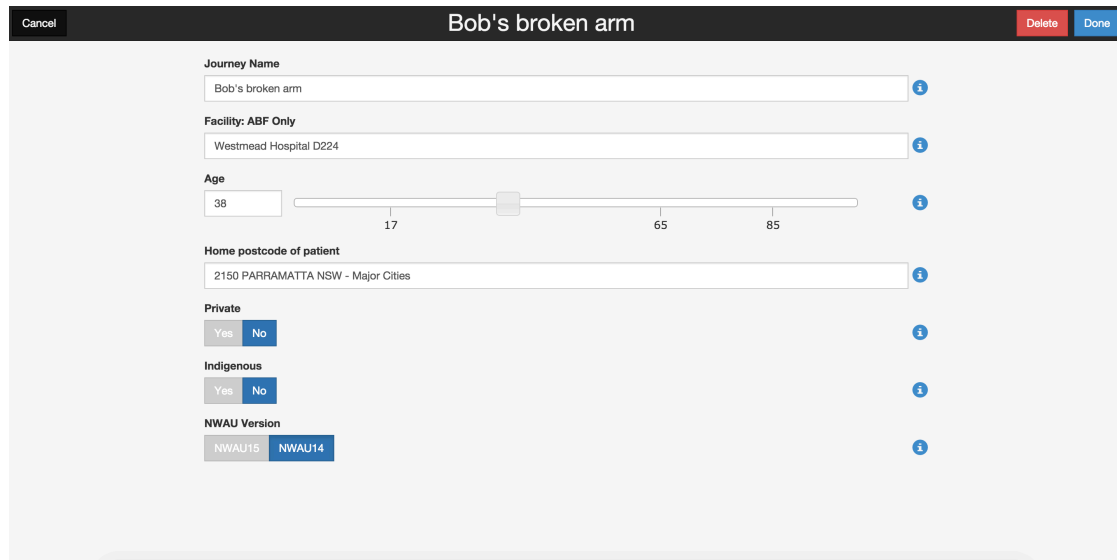


Figure 2: The start page allows you to see a list of your journeys, add and remove journeys, and find answers to commonly asked questions

## Edit Journey page

The **Edit Journey** page allows you to input the details of a journey such as the description, facility name, age, postcode, specify a patient as private, specify a patient as indigenous, and choose the version of NWAU data to be used as part of the calculation.



The screenshot shows the 'Edit Journey' page for a journey titled 'Bob's broken arm'. The page has a dark header bar with 'Cancel' on the left, the journey name 'Bob's broken arm' in the center, and 'Delete' and 'Done' buttons on the right. Below the header, the form fields are as follows:

- Journey Name:** A text field containing 'Bob's broken arm' with an information icon on the right.
- Facility: ABF Only:** A text field containing 'Westmead Hospital D224' with an information icon on the right.
- Age:** A text field containing '38' and a horizontal slider below it. The slider has tick marks at 17, 65, and 85, with a grey handle positioned at 38. An information icon is on the right.
- Home postcode of patient:** A text field containing '2150 PARRAMATTA NSW - Major Cities' with an information icon on the right.
- Private:** Two buttons, 'Yes' (disabled) and 'No' (active), with an information icon on the right.
- Indigenous:** Two buttons, 'Yes' (disabled) and 'No' (active), with an information icon on the right.
- NWAU Version:** Two buttons, 'NWAU15' (disabled) and 'NWAU14' (active), with an information icon on the right.

Figure 1: A journey that has been filled out

### Description

The description allows you to name the journey. This has no bearing on the NWAU calculation, but allows you to choose meaningful names to identify your journeys.

### Facility

Start typing the facility name or ID in this field to choose a facility.

### Age

Either the text field or slider can be used to enter the age of the patient. The ticks on the slider show the different age ranges that change an NWAU calculation.

### Home postcode of patient

Start typing the postcode, suburb, or region to choose the home postcode of the patient.

### Private

Specify if the patient is private.

### Indigenous

Specify if the patient is Indigenous.

**NWAU Version**

Select the NWAU version that will be used in the calculations for all encounters in this journey.

**Cancel Button**

Pressing *Cancel* will cancel the creation of the journey.

**Delete Button**

Pressing *Delete* will delete the journey and take you back to the *Start* page.

**Done Button**

Pressing *Done* will save the journey and take you back to the previous page.

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# Journey page

This page shows the total NWAU for the journey and a summary for each encounter.

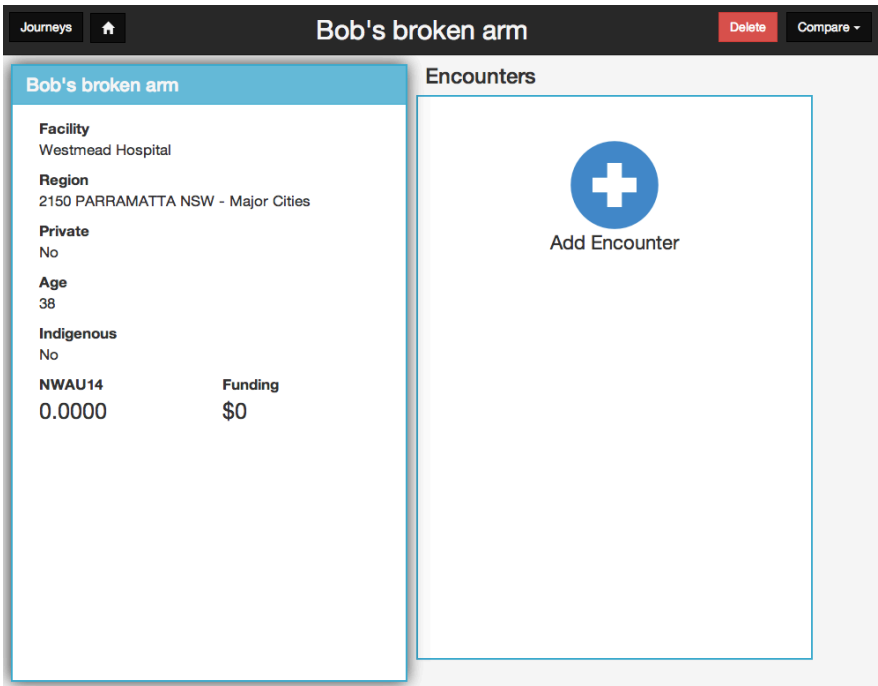


Figure 2: Journey page with no encounters

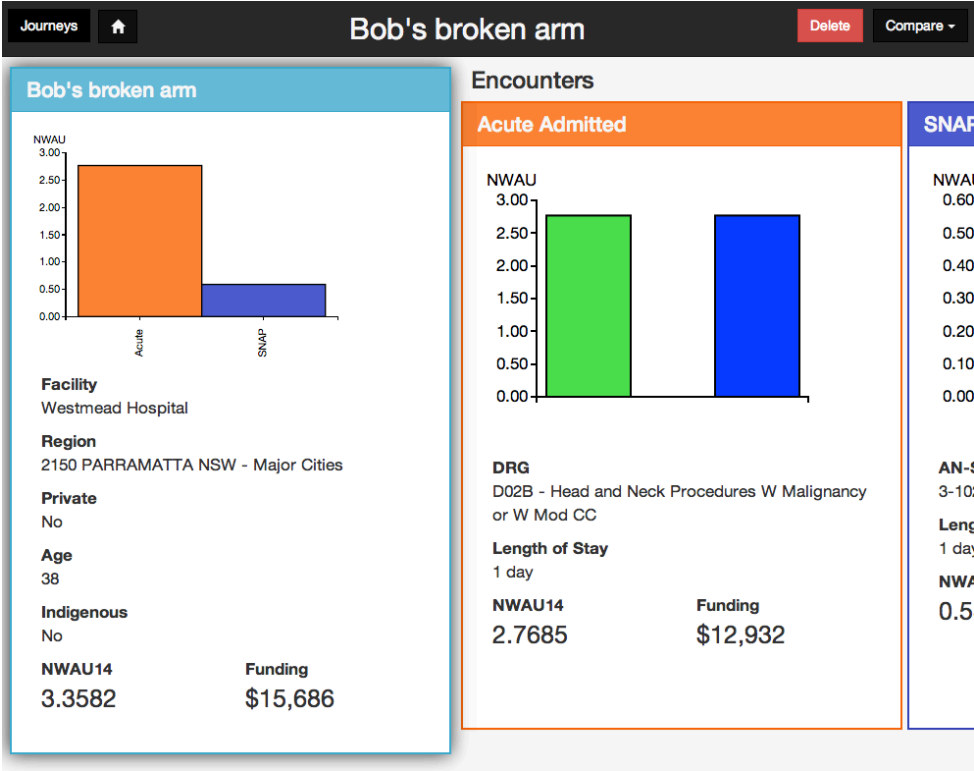


Figure 3: Journey page with multiple encounters

Each encounter summary shows the NWAU chart and pertinent information relating to that encounter.

Pressing an encounter takes you to the *Edit Encounter* page where you can see the encounter in greater detail and make changes.

### Add Encounter

Pressing *Add Encounter* will take the user to the *New Encounter* page where they can add another encounter to this journey.

### Journeys Button

Pressing the *Journeys* button will slide in the list of patient journeys you have created. Selecting one will load it on the *Journey Overview* page.

### Compare Button

When pressed, a list of other journeys is displayed. Selecting one of these journeys will take you to the Journey Comparisons page. If you only have one journey saved, the compare button won't be shown.

## Create an encounter

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When you first create an encounter, you will be asked to enter the classification.

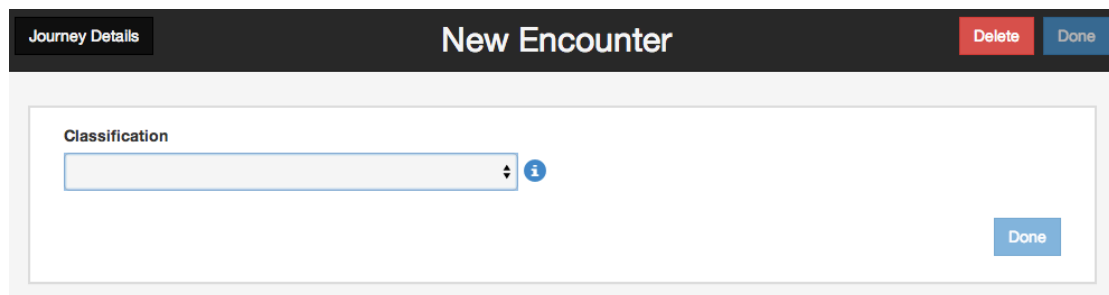
The screenshot shows a web interface for creating a new encounter. At the top, there is a dark header bar with a 'Journey Details' button on the left, the title 'New Encounter' in the center, and 'Delete' and 'Done' buttons on the right. Below the header, there is a light gray box containing a 'Classification' label above a dropdown menu. The dropdown menu is currently closed, showing a small downward arrow and an information icon. A 'Done' button is located at the bottom right of the light gray box.

Figure 4: A new encounter

Pressing the **Classification** dropdown button will show the list of available classifications for this journey's facility.

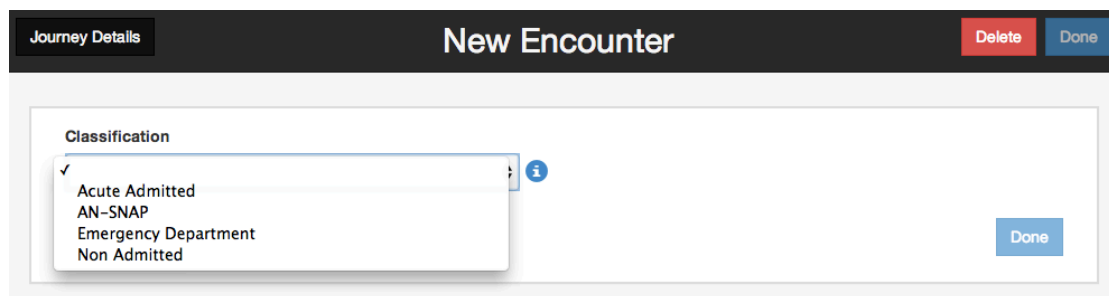
This screenshot shows the same 'New Encounter' form as Figure 4, but with the 'Classification' dropdown menu open. The dropdown menu displays a list of four options: 'Acute Admitted', 'AN-SNAP', 'Emergency Department', and 'Non Admitted'. The first option, 'Acute Admitted', is selected, indicated by a checkmark to its left. The 'Done' button remains at the bottom right of the form.

Figure 5: Available classifications

Once you select a classification, you are required to select the group. The type of group depends on the classification selected.

Classification	Group
Acute Admitted	DRG
AN-SNAP	AN-SNAP Class
Emergency Department	UDG or URG depending on facility
Non Admitted	Tier 2 Clinic

Journey Details

New Encounter

Delete

Done

Classification


Acute Admitted

DRG

The DRG for this encounter

Done

Figure 6: Acute Admitted selected

You can enter a group value by typing in the name, group code, or by pressing the  button.

Journey Details

New Encounter

Delete

Done

Classification

Acute Admitted

DRG


801

801A - OR Procedures Unrelated to Principal Diagnosis W CCC

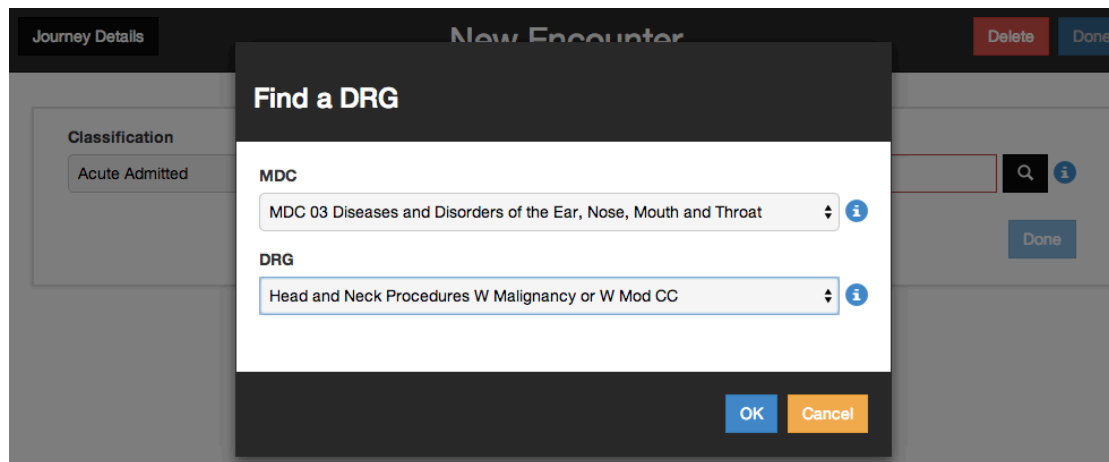
801B - OR Procedures Unrelated to Principal Diagnosis W Sev or Mod C

801C - OR Procedures Unrelated to Principal Diagnosis W/O CC

Figure 7: Typing in 801 brings up a list of all DRGs with 801 in the code or name

If you press the  button, you will be presented with a popup screen that will help you choose a group. Pressing the **OK** button will close the popup screen and enter the selected group into the group field.





**Figure 8: Choosing a DRG using the search function**

Once you have chosen a group, the NWAU will be calculated and charts and figures explaining the calculation will appear. Please see Encounter page for more information.

## Encounter page

This page allows you to see how an NWAU was calculated, and change other values relevant to the encounter, classification, and group. In Figure 9, you can change the Length of Stay, ICU hours, add the Radiotherapy adjustment, or select that there were Psychiatric days recorded.

There are three different views of the calculation: the NWAU, Length of Stay, and formula. Pressing the corresponding button will take you to that screen. The Length of Stay screen is only available if the classification uses length of stay in the calculation.

To the right of the length of stay plot, there are two pieces of information. The first is the State based LOS episodes for short stay, inlier, and long stay. The second is the legend to identify the lines represented on the graph, public is blue, private is red, National average length of stay is orange, and State average length of stay is purple.

Press the **Done** button to save changes and go back to the previous page.

Press the **Delete** button to delete the encounter.

## NWAU

On the NWAU screen, you are presented with the NWAU adjustments and the accumulated total in a graph. The table on the right hand side shows the adjustment values that were used in the calculation. Each adjustment value has a colour that corresponds to the adjustment displayed on the graph.

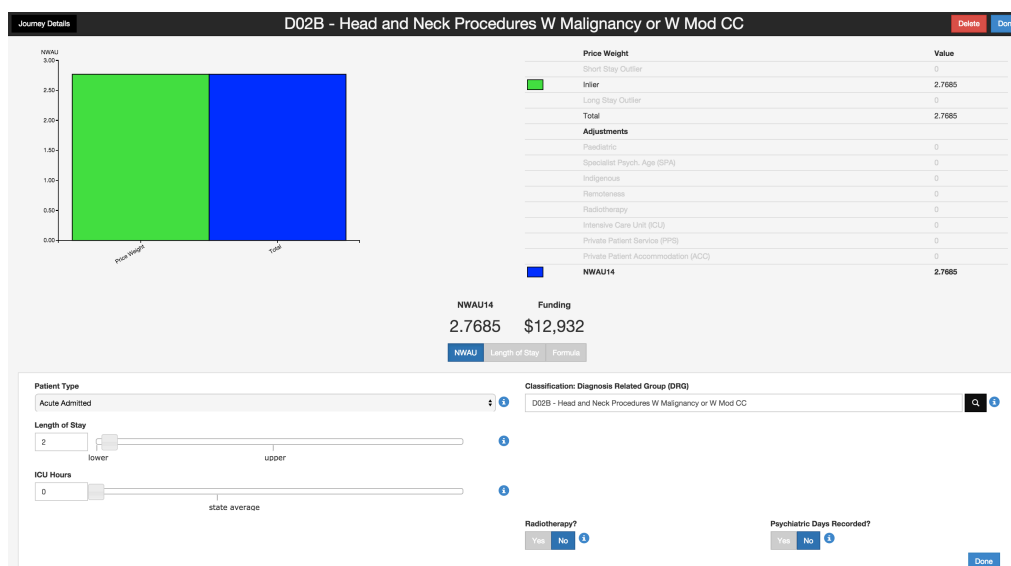


Figure 9: The NWAU calculation screen

## Length of Stay

The Length of Stay screen shows how the NWAU changes as the length of stay increases. It shows the public and private NWAU, as well as the National and State average length of stay. The dotted vertical lines show the inlier and outlier values.

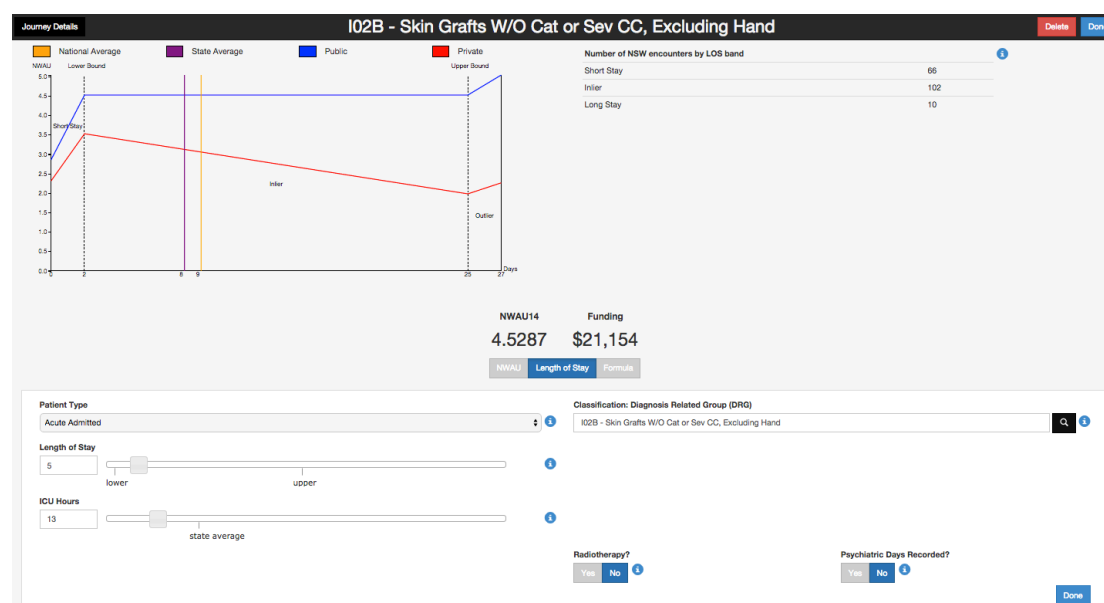


Figure 10: The Length of Stay screen shows how the NWAU changes as the length of stay increases

## Formula

The formula screen shows the NWAU formula and the adjustments that were applied in the calculation. To highlight which adjustments were applied in the calculation, the respective adjustments will change colour. If an adjustment is not being applied, the adjustment will remain black. The tables of parameters and raw adjustments show a further breakdown of the adjustment values being applied.

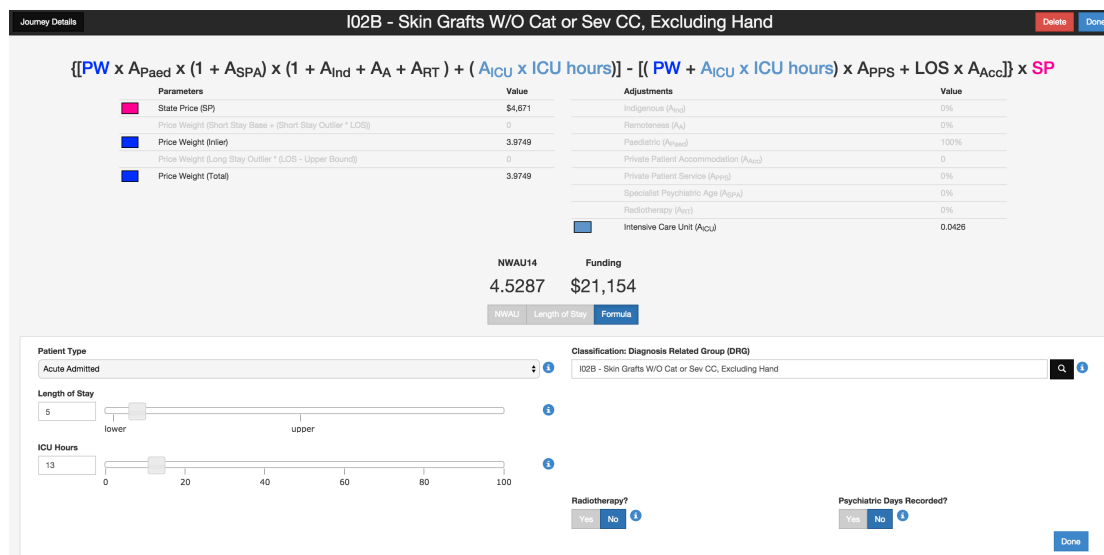


Figure 11: The Formula screen shows how the calculation was performed

## Suggestions

When you add two or more encounters to a journey, the application will search state data to suggest the next encounter based on the previous encounter in the journey. If there are suggestions, the application will present the following popup screen allowing you to choose one of the suggestions, or alternatively, make your own encounter from scratch.

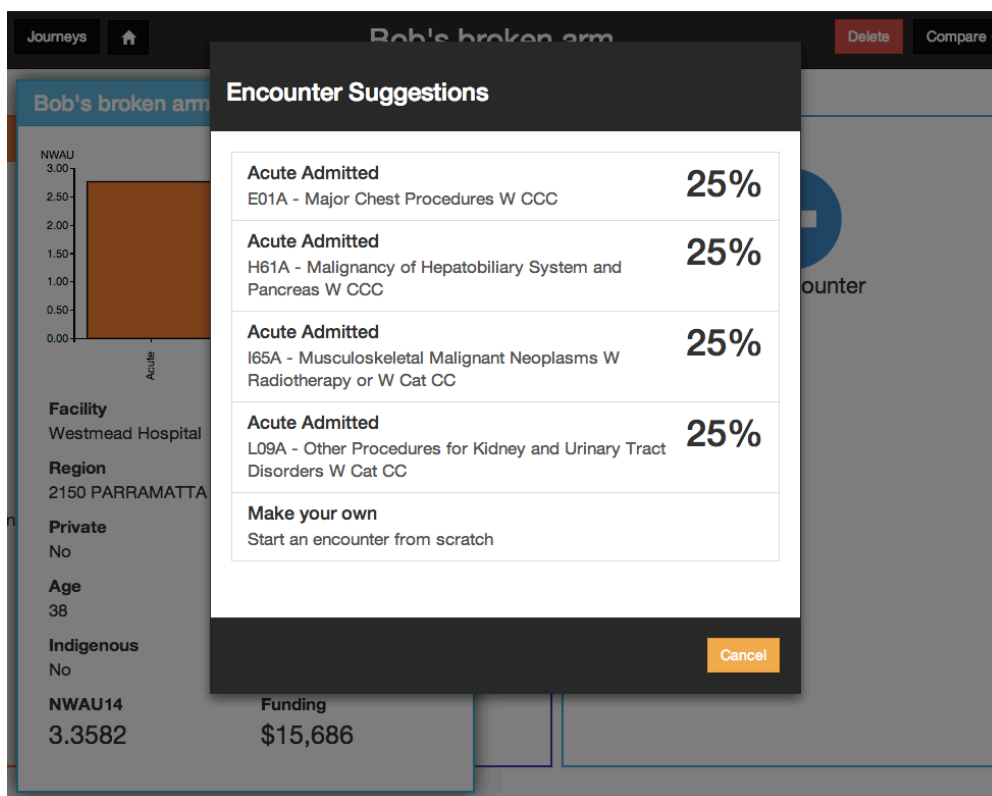


Figure 12: Encounter suggestions are based on the previous encounter in the journey

