iCAHE Outcomes Calculator
Musculoskeletal Version
Software Guide

Monitoring patient status over time using common pain and musculoskeletal outcome measures

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Note: This manual is to be used in conjunction with the iCAHE Outcomes Calculator User Manual.
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1. Installing the Software

On the CD there will be the following four directories:

- Chronic Disease
- Incontinence
- Musculoskeletal
- Neurological
- Patch

To install the Musculoskeletal Outcomes Calculator, open the Musculoskeletal directory by double clicking on it. Run the following file by double clicking on it:

    setup.exe

Follow the simple instructions. The program will install the software on your computer. Once the software is completely installed, an icon should appear on your desktop called “Outcomes Calculator”. Double click this icon to run the software.

2. Installation Patch

If the program opens and the following message appears (Figure 1), the patch must be installed. Open the directory called “Patch” on your CD and run the file called “idapi32.exe”. It will open a small program. Don’t change any of the settings. Just press the “Unzip” button. Then close this program. Now you can open any of the calculators again by double clicking on the icon on your desktop.

![Figure 1 Installation PDOXUSRS.NET Error](image-url)
3. Running the Outcomes Calculator

The Outcomes Calculator installation will install a shortcut in the Start Menu to allow you to start the software. For instance, if the default shortcut settings were accepted then the software may be run by navigating to:

Start Menu > Programs > Outcomes Calculator

Select this shortcut, and the calculator will start.

There will also be an icon (Figure 2) on the computer’s desktop. Double clicking this icon will also open the software.

4. Using the Quick Start Menu

When the software opens, the Quick Start window (Figure 3) is shown. This provides a way of quickly opening or creating an Episode of Care (EoC). Simply select what you want to do and press OK and the appropriate screen will open. If you don’t want to open or create an EoC, press the Cancel button. This window will not be displayed again while the software is running.
5. Performing Tasks

5.1 Create a New Episode of Care

5.1.1 Overview
An episode of care is made up by the occasions of service provided to a patient from their first presentation until they no longer require treatment. The process of creating a new episode of care requires several stages. Firstly, information is gathered about the patient whom the episode of care concerns. Secondly, information is gathered about the episode itself. Finally, outcome measures are chosen to keep track of the episode's progress over time.

5.1.2 General Controls
On each screen in the process of creating a new episode of care a set of common controls is present:

![EoC Navigation Buttons](#)

The controls consist of four buttons labelled **Prev** (Previous), **Next** and **Cancel**. These controls are located at the bottom of each screen. In the example above, the **Prev** button is not available because there is no previous screen to return to.

Select **Next** after completing a screen in order to move onto the next screen in the process. A dialog box will pop up if required details have not been filled in. Select **Prev** to return to the previous stage in the process to make changes and alterations to previously entered data. Select **Cancel** at any point to cease the process of creating a new episode of care, and return to the main Outcome Calculator screen.

Once all the general EoC data is captured, the EoC will be created and assessments can be made.

5.1.3 Step 1 – Initiating an Episode of Care
Initiate a new EoC by following these commands on the menu bar.

**Episode > New**

This is shown in Figure 5.
5.1.4 Step 2 – Enter Patient & Funding Details

Specify a Patient

The episode of care may be created for a new patient or for a patient already known to the Outcomes Calculator. To enter a new patient’s details press the New button in the Create a New Episode of Care screen (see Figure 6) and specify the name, date of birth and gender using the provided fields. Alternatively press the Select button to choose a patient whose details are already recorded in the Outcomes Calculator.

Selecting a Patient

If the Select button was pressed, the Patient Information screen will appear (Figure 7). There are two ways of finding a patient.

The first method is to browse the database using the Navigation Buttons. The leftmost button opens the first record in the database. In Figure 7, the button is inactive (grey), because the first record is displayed. The second button from the left moves one record at a time back. Again, in Figure 7 this button is inactive because the first record is displayed. The third button from the left moves one record at a time forward. The button on the right moves to the last record in the database.
This method can be time consuming. A faster way of finding a patient is to press the Search button. The Patient Information screen will change appearance and look as shown in Figure 8. Notice that the name of the Search button has changed to Close. Pressing the Close button will change the screen back to its original appearance.
Type the surname of the patient you are looking for in the box labelled **Enter Surname to Search On**: Now press the **Go** button. All the patients with this surname will be shown in the list at the bottom of the screen. Click on the patient you are looking for. The selected patient’s details will be displayed in the top part of the screen.

Once you have selected a patient, press the **OK** button. This will return you to the Patient & Funding Details screen (Figure 6).
Specify an Initial Consultation Date

The date specified marks the beginning of the episode. Press the down arrow of the box labelled Initial Consultation. A calendar will appear (Figure 9). The calendar will open at the current date. If you want to specify another date in the same month, simply click on the date. Select another month by clicking on the left and right arrows at the top of the calendar. The selected date will appear in the edit box.

![Figure 9 Calendar]

Select a Funding Source

The source of funds that the patient will use to cover the episode of care is specified using the provided form. Only one fund source may be specified in the Choose Fund Source box. If standard options do not suitably describe the fund source then select the Other option and enter a brief description in the text field provided below it.

Creating a Demo Episode of Care

This option will not be available in all versions of the calculator. A demo EoC is used in class demonstrations, etc. Simply check the Demo box.

Continue

If all patient and funding details have been entered then click Next to continue to the next step.

5.1.5 Step 3 - Enter Episode Details

A new screen (Figure 10) will open after the last step is completed.
Specify Risk Factors

The risk factors that may affect the episode of care are specified by ticking each one that applies in the Specify Risk Factors box. Any number of risks may be selected. If the standard risks do not suitably describe a risk then select the Other option and enter a brief description in the text field provided below it.

Specify Affected Body Areas

The body areas affected in the episode of care are specified by ticking each one that applies in the Specify Body Areas box. Any number of areas may be selected. Only those areas that may be measured by outcome measures in the Musculoskeletal Outcomes Calculator are available.

Continue

If all applicable risk factors and affected body areas have been selected then click Next to continue to the next step.

5.1.6 Step 4 – Configure Outcome Measures

After completing the previous step, a new screen (Figure 11) will open.
Select Appropriate Outcome Measures

The musculoskeletal outcome measures available for each body selected in the prior step are presented for selection. A minimum of one measure must be selected for each body area. To select a measure and use it in the created episode, click on it in the right hand column of the Available Outcome Measures list. To remove a measure once you have selected it, click on it in the right hand column of the Selected Outcome Measures list.

Some pairings must be configured before they can be used. If this is the case then a dialog box will be presented with a configuration form – complete this and click OK to select the measure, or click Cancel otherwise.

Continue

If all desired measures have been selected then click Next to create the episode. The episode details will be saved and the episode will automatically be opened for management. Note that once Next is pressed, the data will immediately be saved to the database and cannot be changed again. If the data was entered incorrectly, a new EoC must be created with the correct data. This is to ensure the integrity of the data.
5.2 Add a New Patient

Adding a new patient to the Outcome Calculator is done during the creation of their first episode of care (See Section 5.1 Create a New Episode of Care). Their details are recorded as part of the creation process. When the episode of care is created, these details are used to create a new patient record. Subsequent episodes of care may then be added for the patient without re-entering patient details.

New patient data can also be added at any time by using the following these commands on the top menu bar.

Patient > New

Independent of the method that you decide to add a new patient, the Patient Information Screen (Figure 7) will be displayed. Note that all the navigation buttons will be inactive and the boxes (except the Date of Birth) will be empty. Enter the correct patient data in all the fields. Note that in the Gender field, only a selection must be made by pressing on the down arrow on the right of the box. Do not type anything in the Gender box.

Make sure that all the data is correct. Once it is saved in the database, it cannot be changed again. This is to ensure the integrity of the data. Now press OK to save the data. Pressing Cancel will close the window without saving the data.

5.3 Looking Up Patient Data

The details of any patient can be checked at any time by following these commands on the top menu bar:

Patient > Browse

The Patient Information Screen (Figure 7) will be displayed. Patients can be found as explained in Section 5.1.4 Step 2 – Enter Patient & Funding Details.

5.4 Manage an Episode of Care

5.4.1 Overview

Managing an episode of care allows viewing summary information that describes the episode, adding new assessments to the episode, and viewing a chart of the progress of a patient’s progress over time.

5.4.2 Open an Episode of Care for Management

To open a created episode of care, follow these commands on the menu bar:

Episode > Open

The Select Episode of Care screen will be shown (Figure 12). The patient data of all the patients in the database are accessible. Browse to the correct patient using the Navigation Buttons on the top of the screen. As you browse, note that all the episodes of care for the selected patient is displayed in the list on the bottom of the screen. Each EoC is represented with a date range in the list box (Initial Consultation and Completed). If the EoC is still open, there will be no date in the Completed column.
To open an episode of care for a patient first select a patient from the patient list and then select an episode from the available episodes of care for that patient. Click OK to open the episode for management, or Cancel at any point to close the dialog without opening an episode.

A faster way of finding a patient is using the Search button. Pressing it will extend the screen with additional controls to find a patient (Figure 13). Note that the name of the button changed to Close. Pressing the button again will close the extra search functions. Type the patient’s surname in the Enter Surname to Search On: box. Then press the Go button. This will display all the patients in the database with that surname in the list below the Go button. You can now select a patient from this list and his/her details will be shown in the fields on the left of the screen.
5.4.3 The Episode Management Screen

The Episode Management screen (Figure 14) will be the first screen to open when an episode is loaded.

![Diagram of Episode Management Screen]

Figure 13 Search for a Patient on the Select Episode of Care Screen

Figure 14 Episode Management Screen
**Work Area (Right Hand Pane)**

The work area displays information of the currently selected item in the Item Selector (left hand pane). In Figure 14 the Episode Summary is currently selected. In the work area general information on the episode is displayed.

**Control Area (Left Hand Pane)**

The Item Selector contains an item called Episode Summary, always the first item. Below that all the outcome measures selected for this episode is displayed. When the Episode Summary is selected, the Episode Management Screen will look as displayed in Figure 14.

The Print button will print whatever is displayed in the work area, in this case the Episode Summary.

Pressing the Complete button will change the episode status of ‘open’ to complete. This indicates that no further assessments will be conducted for it. Assessments cannot be added to a completed episode.

To complete an episode of care first open an episode of care and then click the Complete button in the control area. A confirm dialog will be presented to double check that the episode should indeed be closed – click Yes to perform the action, or No to return to the management screen without completing the episode.

When a user clicks Complete the episode will remain managed. It may be closed and managed again at a later time, but it will no longer be possible to add assessments to it. An episode should be completed only when there will be no more assessments relating to that episode of care in the future.

Note that once an episode’s status is changed to closed (using the Complete) button, it cannot be changed back again.

Pressing the Close button will close the episode for management without changing the status of the episode. Therefore, when the episode is again opened for management, it will be possible to add new assessment data.

**5.4.4 View an Outcome Measure Progress Chart / Add an Outcome Measure Assessment to an Episode of Care**

Assessments of an outcome measure may be added to an episode of care to record a patient’s progress throughout the episode. To add an assessment, first open an episode of care for management. When the episode is being managed use the Item Selector drop down to select the outcome measure / body area pairing that will be assessed.

Note that the management screen’s appearance has now changed. An Assessment and Data Series panel are added to the Control Area. The Progress Chart for the selected outcome measure is displayed in the Work Area.
Progress Chart

The work area will be updated to show the current progress chart (Figure 15) for the selected outcome measure / body area pairing. If assessments are recorded then the date range of the assessments will be shown and each data series that is available for assessments of that pairing will be plotted on the chart. Each data point represents a data score for that series of the assessed outcome measure at the date/time that it was assessed.

Notice that where applicable, the vertical axis displays the range of minimum to maximum scores. This is done for all scales that have such a range. Otherwise the axis range is the range between the maximum and minimum recorded scores.

![Figure 15 Episode Management Screen with Progress Chart](image_url)

Adding an Assessment

To add an assessment for the selected outcome measure:

1. Click the Make Assessment button.
2. The Therapists screen (Figure 16) will be displayed to select the therapist who did the assessment, if the Always Use Default therapist option is off (see section 5.4.5 Selecting a Default Therapist). Use the navigation buttons at the top of the screen to make the selection.
3. If the Demo option is available in your version of the calculator, and the episode was created as a Demo, the next screen will ask you to set the assessment date and time (Figure 17). Specify the date and time. The current date and time will be selected by default. When you press OK, the selected date and time will be used as the assessment date and time.

4. Next, the questionnaire will be displayed. This screen will depend on the selected outcome measure (see section 7 Outcome Measure Screens).

Note that, unless the episode is a Demo (only available in some versions of the software), the current date and time are automatically used as the assessment date and time.
Data Series Analyses Metrics

The control area will automatically display a set of basic data series analyses metrics for any progress chart that contains at least one data series with at least one data point. This is shown in the Data Series area. If there is more than one data series on the displayed chart then the drop down box may be used to select which data series is analysed.

Each metric describes a characteristic of the data series that is being analysed. The following metrics will be displayed for a data series (when applicable):

- **Recorded Scores (#)**: The raw number of data points in the series.
- **Baseline Score**: The raw baseline (initial) score.
- **Latest Score**: The raw latest score.
- **Previous Score**: The raw second-latest score. Only available when 2 or more assessments have been made.
- **Latest Vs Baseline**: The raw latest score compared to the raw baseline score, expressed as a percentage. If the baseline score was zero, the value will be Inf.
- **Latest Vs Previous**: The raw second-latest score compared to the raw baseline score, expressed as a percentage. Only available when 2 or more assessments have been made. If the baseline score was zero, the value will be Inf.

5.4.5 Selecting a Default Therapist

It can be annoying to enter the therapist name every time if the software is only used by one therapist. The Default Therapist option allows the user to set the name of the default therapist. Use the following commands from the menu bar:

**Therapist > Set Default**

The Therapist Selection screen (Figure 16) will be displayed. Navigate to the desired therapist and press OK to make the selection the Default Therapist.

Next, make sure that the **Always Use Default** option is checked (there is a small check mark next to the option). Use the following commands from the menu bar:

**Therapist > Always Use Default**

If there is no check mark next to it, click on the option. Repeat the above menu commands without clicking on **Always Use Default**. Notice that there is now a check mark next to the command.

If the **Always Use Default** option is selected, step 2 for creating a new assessment will be skipped, because the Therapists screen will not open. The Default Therapist will automatically be selected from the database.

These options can be changed at any time.
6. Import/Export Data

All the data entered in the software is saved automatically. Sometimes it may be necessary to extract data from the database. This can be done using the import and export functions.

6.1 Export Data for Sharing

Data can be extracted from the database and saved in a file format that can again be imported by another user. This function will be used if you want to share some data with another user. The data will be saved in a special file that can be shared with anybody using the same version of the Outcomes Calculator.

Use the following menu commands:

Data > Export > Data

The Develop Query screen (Figure 18) will be displayed.

6.1.1 Query the Data

This screen (Figure 18) consists of five sections that can be used to refine the data. Any combination of the five sections, or none, or all five, can be used in the query.
Figure 18 Develop Query Screen
Initial Consultation

The initial consultation date can be specified. The Select All option must first be unchecked to activate the search options. Just click on Select All and notice that the options to the right become active. There are three options:

- **Before**: Episodes of care which started before or on the date specified in the Before box will be selected. Select the date using the drop down calendar (see Figure 9).

- **After**: Episodes of care which started after or on the date specified in the After box will be selected. Select the date using the drop down calendar (see Figure 9).

- **Between**: Episodes of care which started after or on the date specified in the first box (below Between) and before or on the date specified in the last box will be selected. Select the date using the drop down calendar (see Figure 9).

Note that only one of the date options can be used. Notice that if the Select All option is checked, all the dates will be used in the query.

Completion Date

The date on which the episode was completed (i.e. status changed to “closed”) can be selected. The Select All option must first be unchecked to activate the search options. Just click on Select All and notice that the options to the right become active. There are three options:

- **Before**: Episodes of care which were completed before or on the date specified in the Before box will be selected. Select the date using the drop down calendar (see Figure 9).

- **After**: Episodes of care which were completed after or on the date specified in the After box will be selected. Select the date using the drop down calendar (see Figure 9).

- **Between**: Episodes of care which were completed after or on the date specified in the first box (below Between) and before or on the date specified in the last box will be selected. Select the date using the drop down calendar (see Figure 9).

Note that only one of the date options can be used. Notice that if the Select All option is checked, all the dates will be used in the query.

Select Patient

One or more patients can be selected from the database. The episodes in which this patient was involved in can be queried. The Select All option must first be unchecked to activate the
search options. Just click on Select All and notice that the options to the right become active.

Add a patient to the query by clicking on the Add button. The Patient Information screen will be displayed (see Figure 7). Any patient can be selected using the normal patient search functions (see section 5.1.4 Step 2 – Enter Patient & Funding Details). Once the OK button on the Patient Information screen is clicked, the patient will be added to the Select Patient text box.

Any number of patients can be added. To add another patient, just click the Add button again and follow the same procedure as described above.

A patient can be removed from the list of patients in the Select Patient text box. Click on the patient that must be removed so that the patient is highlighted. Then click the Remove button. The patient will no longer be seen in the Select Patient text box.

Notice that if the Select All option is checked, all the patients will be used in the query.

Select Body Area

The affected body area can be specified in the Musculoskeletal Outcome Calculator. This allows you to search for episodes of care conducted on the specified body area(s). The Select All option must first be unchecked to activate the search options. Just click on Select All and notice that the options to the right become active. The list box on the right contains all the available body areas. Click on the body area that must be queried in the right hand list box. Then click the Add button. Notice that the body area is added to the list of selected body areas on the left and that it disappears from the list of available body areas on the right.

Continue to add body areas to the list of selected body areas using the procedure described above. You can add body areas until the list of available body areas is exhausted.

A body area can be deselected by clicking on the body area in the list of selected body areas. Then click on the Remove button. Notice that the body area is removed from the list of selected body areas and that it reappears in the list of available body areas.

Notice that if the Select All option is checked, all the body areas will be used in the query.

Select Outcomes Measure

You can query episodes of care that used specified outcomes measures. The Select All option must first be unchecked to activate the search options. Just click on Select All and notice that the options to the right become active. The list box on the right contains all the available outcomes measures. Click on the outcomes measure that must be queried in the right hand list box. Then click the Add button. Notice that the outcomes measure is added to the list of selected outcomes measures on the left and that it disappears from the list of available outcomes measures on the right.

Continue to add outcomes measures to the list of selected outcomes measures using the procedure described above. You can add outcomes measures until the list of available outcomes measures is exhausted.
An outcomes measure can be deselected by clicking on the outcomes measure in the list of selected outcomes measures. Then click on the **Remove** button. Notice that the outcomes measure is removed from the list of selected outcomes measures and that it reappears in the list of available outcomes measures.

Notice that if the **Select All** option is checked, all the outcomes measures will be used in the query.

**Include Demo’s**

This option is only available in some versions of the Outcomes Calculator. If the **Include Demo’s** option is checked, all the episodes that was classified as demo’s will be included in the query, otherwise they will be excluded.

**Execute the Query**

Once all the criteria are specified, click the **OK** button. This will execute the query. The results will be displayed in the **Query Results** screen (Figure 19). Pressing the **Cancel** button on the **Develop Query** screen, will close the screen without executing the query.

![Query Results](image)

**Figure 19 Query Results**
The query results are displayed in four list boxes in the **Query Results** screen. The top left box shows all the episodes of care that was found, the top right list box shows the outcome measure and body area configuration, the bottom left list box shows all the assessments and the bottom right list box shows all the scores for each data series available for that assessment. Notice that if you select any item in one of the list boxes, the items in the following boxes changes (the sequence is: top left, top right, bottom left, bottom right).

The screen and boxes can also be resized to make it easier to view the data. Resize the screen by grabbing any edge or corner of the screen with the mouse cursor and dragging it until the screen is large enough. The list boxed can be resized by slowly moving the mouse cursor over the area between the list boxes. Notice that the cursor will change shape at some point. At this point, hold the left mouse button down and drag it until the list box’s size is good enough.

**Save the Data**

When the **OK** button on the **Query Results** screen is pressed, a **Save** dialog will appear. Specify the place and file name where the data must be saved. Use the default extension (.dat) without typing it explicitly. Once the **Save** button is pressed, the data will be saved. This file can now be shared by any user of the same version of the Outcomes Calculator.

### 6.1.2 Query Using Multiple Criteria

Any combination of the criteria described in the previous section can be used to query the data. For example, a specific patient can be selected and all the episodes of care started after a specified date can be selected. In other words, from the list of all the episodes of care for the selected patients, only those started after a specified date will be selected.

This can be done by unchecking the **Select All** options for **Initial Consultation** and **Select Patient**. Now, in any order, specify the date and select the patient using the procedures described in the previous section.

Now run the query.

### 6.2 Export the Data to Excel

The data can be exported to a format that can be read by Excel. It will be exported as a comma delimited file (.csv) and will therefore actual be readable by any spreadsheet program that can read comma delimited files.

Note that this format cannot be read by the Outcomes Calculator. Therefore, this will typically be used if you want to present the data in your own way or if you want to perform your own analysis on the data.

Follow these menu commands to save the data in a comma delimited format:

**Data > Export > Excel**

The **Develop Query** screen (Figure 18) will open. Create the query in the same way as described in section 6.1.1 Query the Data. Everything will be the same as described in that section, except when the **Save** dialog appears. Now the file format will be .csv. Give the file any name you like. Don’t type the .csv extension, this will be added automatically. Once the file is saved, you should be able to open it with Excel.
7. Outcome Measure Screens

Each scale has a simple from (or forms) that must be completed to record the scores. Once all the data is captured, the scores will be calculated and the results displayed in the Episode Management screen (Figure 15). The objective of this chapter is to give some guidance to the recording of the scores in the Outcomes Calculator. It is not to give detail on the outcomes measures themselves. For that, the accompanying Outcomes Measure Manual must be consulted.

7.1 Generic Patient-Specific Scale

This scale must be configured for each patient and episode. When the scale is selected in the Selecting Outcome Measures screen (Figure 11), the Metric Configuration screen (Figure 20) will appear. Type the activities in the boxes provided. All five boxes do not have to be completed, but complete the boxes from the top down. Press OK to complete the configuration. If Cancel is pressed, the scale will not be added to the list of selected outcomes measures.

Figure 20 Generic Patient-Specific Scale Configuration Screen

The form on which the scores must be entered look like Figure 21. Enter the scores for each activity in the relevant boxes and press OK to record the score. Cancel will close the screen without recording any scores.
Figure 21 Generic Patient-Specific Scale Screen
7.2 Glasgow Pain Questionnaire

The screen is shown in Figure 22. Simply check all the applicable statements in the box to the left of the statement. Press OK to record the score. Cancel will close the screen without recording any scores.

![Glasgow Pain Questionnaire](image)

Figure 22 Glasgow Pain Questionnaire

7.3 Graded Chronic Pain Scale

The screen is shown in Figure 23. For the first three and last three questions, move the slider to the correct score using the mouse. The fourth score can be entered by typing in the correct value or by using the arrows to the right of the box to increase or decrease the score. Press OK to record the score. Cancel will close the screen without recording any scores.
7.4 Range of Movement (ROM) Scales

Enter the ROM value in the box provided. This screen (Figure 24) looks the same for all the ROM scales. Press **OK** to record the score. **Cancel** will close the screen without recording any scores.
7.5 Centre for Epidemiologic Studies Depression Scale

The data is recorded on a series of forms that looks like Figure 25. The number of the question appears in the first line. The next line contains the question. A list of options is given next. Select the appropriate option. Press the button with the right arrow to move the next question or the button with the left arrow to move to the previous question.

Press OK to record the score. This is only allowed if all the questions are answered. Cancel will close the screen without recording any scores.

Notice that if the text of the question is not completely displayed the screen can be resized. Grab a vertical edge of the screen with the mouse and move it to the left or right until the text is readable. If all the lines of the question are not displayed, move the mouse to the bottom of the panel on which the question is displayed. Notice that the shape of the mouse cursor will change. When the cursor has changed, hold the left mouse button down and drag the mouse so that the cursor moves vertically down. This will enlarge the panel so that all the lines of the text are visible.
7.6 Fear-Avoidance Beliefs Questionnaire

The data is recorded on a series of forms that looks like Figure 26. The number of the question appears in the first line. The next line contains the question. Move the slider to record the appropriate score. Notice that the score selected on the slider is also displayed in the box marked Selected Value. This box only displays the value of the slider and cannot be changed by the user. Press the button with the right arrow to move the next question or the button with the left arrow to move to the previous question.

Press OK to record the score. This is only allowed if all the questions are answered. Cancel will close the screen without recording any scores.

Notice that if the text of the question is not completely displayed the screen can be resized. Grab a vertical edge of the screen with the mouse and move it to the left or right until the text is readable. If all the lines of the question are not displayed, move the mouse the bottom of the panel on which the question is displayed. Notice that the shape of the mouse cursor will change. When the cursor has changed, hold the left mouse button down and drag the mouse so that the cursor moves vertically down. This will enlarge the panel so that all the lines of the text are visible.

![Fear-Avoidance Belief Questionnaire](image)

Figure 26 Fear-Avoidance Belief Questionnaire

7.7 Kessler Psychological Distress Scale (K10)

The scores for this scale are recorded in the same way as the scores for the Centre for Epidemiologic Studies Depression Scale.
7.8 Modified Somatic Perceptions Questionnaire

The scores for this scale are recorded in the same way as the scores for the Centre for Epidemiologic Studies Depression Scale.

7.9 Pain Frequency

The score is recorded on the screen that looks like Figure 27. First select the type of score that will be recorded by selecting one of the options Time Count, Verbal Graphic or Absolute Visual Analogue. Then record the score. For the Time Count, record the score in the edit box by typing the score or using the up or down arrows. For the other two options, move the slider to the appropriate score.

Press OK to record the score. Cancel will close the screen without recording any scores. Note that once the score is recorded, the option to change the type of score (Time Count, Verbal Graphic or Absolute Visual Analogue) will not be available again for this episode of care. This ensures the integrity of the data.

Figure 27 Pain Frequency Screen

7.10 Pain Intensity

The score is recorded on the screen that looks like Figure 28. First select the type of score that will be recorded by selecting one of the options Numeric Intensity, Verbal Graphic or Absolute Visual Analogue. Then record the score by moving the slider to the appropriate score.

Press OK to record the score. Cancel will close the screen without recording any scores. Note that once the score is recorded, the option to change the type of score (Numeric Intensity,
Verbal Graphic or Absolute Visual Analogue) will not be available again for this episode of care. This ensures the integrity of the data.
7.11 **Pain Self-Efficacy Questionnaire**

The scores for this scale are recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.

7.12 **Patient Satisfaction Subscale**

The scores for this scale are recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.

7.13 **Resumption of Activities of Daily Living Scale**

The scores for this scale are recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.

7.14 **Short-form McGill Pain Questionnaire**

All the questions, except question 16, are recorded in the same way as the Centre for Epidemiologic Studies Depression Scale. Question 16 is recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.

7.15 **Tampa Scale of Kinesiophobia (TSK-11)**

The scores for this scale are recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.
7.16 Timed Up and Go Test

This score is recorded in the same way as the Range of Movement (ROM) Scales.
7.17  **Work-Related Disability (WL-26)**

The scores for this scale are recorded in the same way as the scores for the Centre for Epidemiologic Studies Depression Scale.

7.18  **Oswestry Disability Index**

The scores are recorded on the screen shown in Figure 29. Simply select one of the options numbered 1 to 6 or **Not Allowed** for each of the 10 questions. Press **OK** to record the score. **Cancel** will close the screen without recording any scores.

![Oswestry Disability Index Screen](image)

**Figure 29 Oswestry Disability Index Screen**

7.19  **Roland-Morris Questionnaire**

The screen is shown in Figure 30. Simply check all the applicable statements in the box to the left of the statement. Press **OK** to record the score. **Cancel** will close the screen without recording any scores.
The scores for this scale are recorded in the same way as the scores for the Centre for Epidemiologic Studies Depression Scale.

7.21 **Dizziness Handicap Inventory**

The scores for this scale are recorded in the same way as the scores for the Centre for Epidemiologic Studies Depression Scale.

7.22 **Migraine Disability Assessment Questionnaire**

The data is recorded on a series of forms that looks like Figure 31. The number of the question appears in the first line. The next line contains the question. Record the answer in the box provide by typing in the value or by using the up and down arrows. Press the button with the right arrow to move the next question or the button with the left arrow to move to the previous question.

Press **OK** to record the score. This is only allowed if all the questions are answered. **Cancel** will close the screen without recording any scores.
Notice that if the text of the question is not completely displayed the screen can be resized. Grab a vertical edge of the screen with the mouse and move it to the left or right until the text is readable. If all the lines of the question are not displayed, move the mouse the bottom of the panel on which the question is displayed. Notice that the shape of the mouse cursor will change. When the cursor has changed, hold the left mouse button down and drag the mouse so that the cursor moves vertically down. This will enlarge the panel so that all the lines of the text are visible.

Figure 31 Migraine Disability Assessment Questionnaire Screen

7.23 Neck Pain and Disability Scale
The scores for this scale are recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.

7.24 Vernon Moir Neck Disability Index
The scores for this scale are recorded in the same way as the scores for the Oswestry Disability Index.

7.25 Whiplash Disability Questionnaire
The scores for this scale are recorded in the same way as the scores for the Fear-Avoidance Beliefs Questionnaire.