

AROC TECHNICAL GUIDELINES FOR IT DEVELOPERS V4.0 DATASET (IMPLEMENTED JULY 2012)

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WHAT IS AROC?

The Australasian Rehabilitation Outcomes Centre (AROC) is a joint initiative of the Australian rehabilitation sector (providers, funders, regulators and consumers). It commenced operation on 1 July 2002. With the support of its industry partners, AROC has been established by the Australasian Faculty of Rehabilitation Medicine (AFRM) of the Royal Australasian College of Physicians (RACP). A business plan for AROC to run as a not-for-profit self-funding organisation was developed by an AROC Planning Group, consisting of representatives from across the sector.

The purpose and aims of AROC were established as, and continue to be:

Develop a national benchmarking system to improve clinical rehabilitation outcomes in both the public and private sectors.

Produce information on the efficacy of interventions through the systematic collection of outcomes information in both the inpatient and ambulatory settings.

Develop clinical and management information reports based on functional outcomes, impairment groupings and other relevant variables that meet the needs of providers, payers, consumers, the States/Commonwealth and other stakeholders in both the public and private rehabilitation sectors.

Provide and coordinate ongoing education, training and certification in the use of the FIM and other outcome measures.

Provide annual reports that summarise the Australasian data.

Develop research proposals to refine the selected outcome measures over time.

The development of the AROC Version 4.0 data set has evolved after consultation with rehabilitation providers and representatives of peak organisations from across Australia. Where possible, National Health Data Dictionary definitions have been used. Rehabilitation services participating in AROC routinely collect data and submitted to the AROC Database.

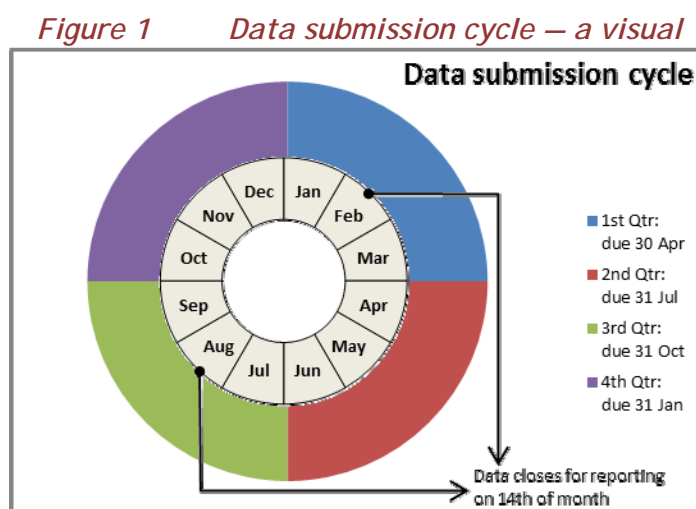
AROC is funded by a combination of a Subscription model and a User Pays model. Members of AROC pay an annual subscription fee for which they receive a number of core services. AROC also provides additional services on a User Pays basis.

DATA SUBMISSION AND REPORTING CYCLE

Data is expected to be submitted quarterly to AROC, however many facilities submit their data monthly to stay on top of their data quality and to use the online data reporting facilities available through AROC Online Services (AOS). Data may be submitted to AROC by direct data entry into AOS or via an upload to AOS of data extracted from the facilities own data entry system.

Facilities using AOS Data Entry are given error checks at the point of data entry, and can print the individual patients audit report and/or summary page for case meetings.

For facilities uploading data to AROC the process is iterative. First facilities create an AROC data extract using their data entry system based on episode discharge dates. Then upon uploading their data extract into AOS they receive a data audit, and are given the opportunity to amend their data, if required. Once corrected the data are again extracted and uploaded to AROC, to undergo the same process. This process of error checking may be required to happen multiple times until the data are free of errors or the facility determines that any remaining errors cannot be fixed.



Following data submission AROC runs benchmark reports twice a year:

- Calendar year for the most recent Jan 01 - Dec 31 period (Reporting data closes Feb 14)
- Financial year for the most recent Jul 01 - Jun 30 period (Reporting data closes Aug 14)

After the closing date for the reporting data, AROC makes a copy of the live data and commences the reporting process. As part of the reporting process inpatient data are concatenated, data items for reporting are calculated (e.g. AN-SNAP class, length of stay, age on admission, FIM total scores) and then individualised benchmark reports are generated for participating services.

For more information on AROC visit ahsri.uow.edu.au/arc

THE AROC VERSION 4.0 DATASET STRUCTURE

As with previous versions of the AROC dataset, Version 4.0 consists of Patient and Episode level data submitted in one flat file. New to the Version 4.0 dataset is the concept of six care pathways:

- Pathway 1 - Adult: Consult/Liaison, secondary provider & see patient once
- Pathway 2 - Adult: In-reach, secondary provider & see patient more than once
- Pathway 3 - Adult: Inpatient, primary provider
- Pathway 4 - Adult: Ambulatory, only care provider
- Pathway 5 - Adult: Ambulatory, shared care - primary provider
- Pathway 6 - Adult: Ambulatory, shared care - secondary provider

Patient level data

Conceptually, the items collected at the patient level should not change, such as Unique Record Number (URN), Date of Birth (DOB) and Sex.

Episode level data

For the purposes of AROC, an Episode of care is defined as a continuous period of care for a patient in one setting (i.e. acute in-reach rehab, sub-acute inpatient rehab, ambulatory rehab, etc).

To clarify this, an episode of Rehabilitation care begins on the day the patient is admitted to the Rehabilitation care provider.

The way an episode of Rehabilitation care ends depends on the setting in which the care is being provided.

In the inpatient (overnight admitted) setting, an episode ends if the patient:

- Is discharged to community (e.g. private residence, residential aged care facility)
- Is discharged to another hospital
- Is care type changed to another sub-acute or non-acute, or to an acute, episode of care
- Dies
- Patient discharges at own risk

In the ambulatory setting, an episode ends if the patient:

- Is discharged from the care of the service
- Is admitted/transferred to hospital as an overnight patient (inpatient)
- Dies
- Patient discharges at own risk

Under this definition, a patient receiving rehabilitation care can have more than one episode of care.

Conceptually, the information collected at the episode level reflects the circumstances at the beginning and end of the particular episode. This information may be different in subsequent episodes.

MINIMUM IT SYSTEM FUNCTIONALITY

An IT system incorporating the AROC Version 4 dataset should, at a minimum, allow users to:

- Create linked Patient and Episode records
- Enter all required AROC data items, as per the data rules specified by AROC, for the pathway(s) being collected
- Extract data from the system in the format required by AROC
- Search for records in order to complete, update or correct entered data

The IT system should also incorporate the business rules outlined by AROC, to ensure that data entry errors are minimised.

The structure of AROC data at the Patient and Episode level determines the processes for data entry. Users will create one flat file combining information from both Patient and Episode data:

Table 1 The Patient and Episode Data Relationship

Record	Unique Identifier	Linked to	Linked by
Patient	Unique Record Number (URN)		
Episode	Episode end date	Patient	URN

Developers can choose the structure in which they wish to store AROC data. However the linking between Patient and Episode records must be considered, along with the data item and extract requirements (Specifications 1 and 2 in this document).

A typical data entry procedure where the rehabilitation was completed within the rehabilitation episode would be:

- 1 A new Patient Record is created and the information is entered into the system
- 2 The patient's first Episode Record is created and episode start information is entered
- 3 The episode end information is entered in the Episode Record.
- 4 If a patient were to have a subsequent episode of care a user would search for the Patient Record and begin at step 2 with the next episode.

A typical data entry procedure where a suspension of inpatient rehabilitation treatment occurred would be:

- 1 A new Patient Record is created and the information is entered into the system
- 2 The patient's first Episode Record is created and episode start information is entered
- 3 The patient's rehabilitation program is suspended and the patient
 - a. stays at the same facility and after the suspension:
 - i. returns to the same program → data entry will record suspension details in this Episode Record
 - ii. requires a new program to be developed → data entry will end this Episode Record (step 4) and will start a new Episode Record (step 5) for the subsequent episode
 - iii. does not return to rehab → data entry will end this Episode Record (step 4)
 - b. goes to a different facility and after the suspension:

- i. **returns to the same program** → data entry will end this Episode Record (step 4) and will start a new Episode Record (step 5) for the subsequent episode – AROC will re-join these Episode Records during concatenation
- ii. **requires a new program to be developed** → data entry will end this Episode Record (step 4) and will start a new Episode Record (step 5) for the subsequent episode
- iii. **does not return to rehab** → data entry will end this Episode Record (step 4)

4 The **episode end** information is entered in the Episode Record.

5 If a patient were to have a subsequent episode of care a user would search for the Patient Record and begin at step 2 with the *next* episode.

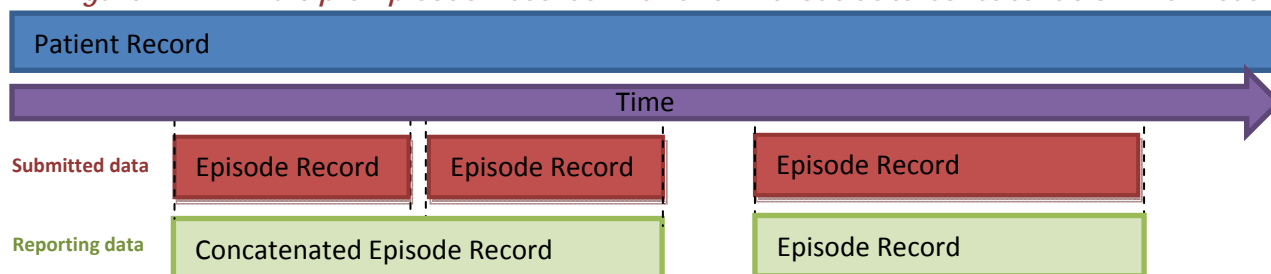
NOTE: Data concatenation — the joining of multiple Episode Records into one Reporting Record

Increasingly some jurisdictions have introduced business rules around data collection that have resulted in episode records of rehabilitation being ended and then re-commenced a few days later. AROC definitions would record these as one episode record with the period in between defined as a suspension of rehabilitation (3ai above). Such business rules result in two (or more) episode records of rehabilitation being reported to AROC when only one full episode record should be reported (Figure 2).

Whilst this happens much more frequently in some impairment groups (e.g. spinal cord injury & brain injury) it does impact all impairments to some degree. Reporting of multiple episode records impacts outcomes analysis, resulting in shorter than real length of stays and reduced FIM change being reported.

Concatenated episode records have a revised Length of stay and FIM change (start details will be taken from the identified primary episode recorded; end details from the identified final episode record), and will also have a revised number of suspensions (being the sum across all concatenated ‘submitted episode records’ plus the number of breaks between ‘submitted episode records’) and a revised number of suspension days (being the sum across all concatenated ‘submitted episode records’ plus the sum of all days between ‘submitted episode records’).

Figure 2 Multiple Episode Records with and without data concatenation – a visual



A user may also use the system to view and amend data. Users should be able to search for records using:

- A combination of Patient and Episode Identifiers, depending on the type of record
- Service and Team Identifiers
- Episode Start Date and End Dates

Items that do not change (e.g. facility in most cases) or are system generated (e.g. new patient identifier) should not be editable by the user.

SUMMARY OF CHANGES BETWEEN THE AROC VERSION 3 AND VERSION 4.0 DATASET ITEMS

This section provides a broad overview of the new data items and changes to existing items between Version 3 and Version 4.0 AROC datasets. To summarise the main changes are:

At Patient Level:

- New items added are:
 - Letters of name (used for the Statistical Linkage Key)
 - Date of birth estimate flag (used for the Statistical Linkage Key)
- The following item has a modified code set:
 - Indigenous status (NZ codes modified)
- No patient level items have been removed

At Episode Level:

- New items added are:
 - Path (used to determine which data items to collect)
 - Referral Date
 - Assessment date
 - Date clinically ready for rehab care
 - Was there a delay in episode start? (flag) & if yes Reason(s) for any delay
 - Patient related issues
 - Service issues
 - External support issues
 - Equipment issues
 - Behavioural issues
 - Carer Status prior to this impairment
 - Were any services received prior to this impairment? (flag) & if yes Service(s) received
 - Domestic assistance
 - Social support
 - Nursing care
 - Allied health care
 - Personal care
 - Meals
 - Provision of goods & equipment
 - Transport services
 - Case management
 - Date of relevant acute episode
 - Employment status after, or anticipated after, discharge
 - Date clinically ready for discharge
 - Was there a delay in discharge? (flag) & if yes Reason(s) for any delay
 - Patient related issues
 - Service issues
 - External support issues
 - Equipment issues
 - Behavioural issues
 - Complication interfering with inpatient rehabilitation Episode?
 - Interim destination
 - Carer Status post discharge
 - Will any services be received post discharge? (flag) & if yes Service(s) received
 - Domestic assistance
 - Social support
 - Nursing care
 - Allied health care
 - Personal care
 - Meals
 - Provision of goods & equipment
 - Transport services
 - Case management
- The following items have new or modified code sets:
 - Geographical residence of patient (NZ codes added, AU modified)
 - Funding source some code set values changed but options unchanged

- Employment status prior to this impairment has a completely new code set
- Mode of episode start has had an extra code added
- AROC impairment code has extra codes added
- Comorbidities interfering with rehabilitation episode has extra codes added and has been reordered
- Complications interfering with the inpatient rehabilitation episode has extra codes added
- Final destination some code set values changed but options unchanged
- Discharge plan available to patient changed from date field to flag
- The following items are no longer collected:
 - Level of support at episode start
 - Was the current impairment the result of trauma
 - Assessment only
 - Was the suspension of treatment unplanned?
 - Level of support at episode end

Refer to the **Specification 3: Mapping from Version 3 to Version 4.0 Dataset** for explicit details on the modified code sets.

SPECIFICATION 1: AROC VERSION 4.0 DATA DICTIONARIES

The AROC Version 4.0 Dataset Data Dictionaries are designed with different audiences in mind:

Clinician Data Dictionary (AU and NZ versions)

This dictionary provides a clinical perspective of the AROC dataset through clinical guidelines and justifications for why each item is included for anyone involved in the collection of AROC data (e.g. rehabilitation clinicians, allied health staff, rehabilitation service managers) and/or data entry. Separate guidelines specific to the Functional Independence Measures (FIM) are also available from the AROC website: <https://ahsri.uow.edu.au/aroc/fim>

Data Analysts Data Dictionary

This dictionary provides researchers with an understanding of the AROC dataset for the purpose of analysis and includes the definitions and value ranges of all items in the AROC dataset, including calculated fields generated at the point of benchmark reporting.

Developers Data Dictionary (AU and NZ versions)

This dictionary provides full technical details required by IT developers to modify IT systems to collect the AROC Version 4.0 dataset, including business rules and dependencies. The technical guidelines are not prescriptive in how applications should be created but specify the required clinical inputs and data extract format that AROC requires in order for data to be accepted into the AROC database.

The data dictionaries are available from the AROC website at:

<https://apps.ahsri.uow.edu.au/confluence/display/AD/AROC+Data+Dictionaries>

SPECIFICATION 2: AROC VERSION 4.0 DATA EXTRACTION

Rehabilitation facilities participating in AROC submit data for reporting a minimum of four times a year. As a result, users will require an interface that allows them to:

1. Specify a "date range" for the data to be extracted
2. Extract their data in the predefined format specified by AROC
3. Save the extracts in a predefined file type to a local drive

File Type

The AROC Database requires the data extract to be submitted in a fixed ASCII file format. Each extract can contain more than one pathways' data and can contain more than one facilities data.

In the AROC extract:

- There should be no header row
- There should be one, and only one, row for each episode of rehabilitation
- Each data item should begin at the begin position & end at the end position as per Specification 1
- Each row should be 705 characters long
- All codesets are numeric
- Where there is no value (i.e. conditional rules mean this data item is not relevant to this episode of rehabilitation) the column should be left blank.
- Alphanumeric and date data are left justified, and numeric data are right justified.
 - Always use zeros in dates where the value is less than 10 (i.e. 7th is 07 not just 7).
 - Alphanumeric items that do not occupy all columns allocated for the field can be right filled with blanks.

Extract File Naming Convention

AROC data extract files should conform to the following naming convention:

V4.0 extract: AROCFacilityNameYYYYMMDDV4.TXT

Where:

- **FacilityName:** The name of the facility submitting the data
- **YYYYMMDD:** The date the extract was created - four digit year, two digit month, two digit day
eg. 13 August 2016 would be represented as 20160813
- **Vn:** The 'n' is the version of the AROC data set.

Time period of data to be submitted to AROC

When creating the AROC extract data, it is recommended it include the most recent 12 months of completed episodes. If your facility's data goes back to October 2007, when submitting any quarter's data you are in fact submitting data covering 12 months up to the present and no longer submitting data from October 2007 to present as was the case with the V3 AROC extract data.

For example, if your facility is submitting data on 13 August 2017 and the most recent entered episode ended on 15 July 2017, your extract would include all episodes ending between 16/07/2016 and 15/07/2017 (inclusive). This ensures AROC always has the most up to date and accurate data possible.

Some facilities prefer to submit their data monthly sending one month at a time - if this is the case it is imperative that updated data is resubmitted and no month is forgotten. In this situation facilities will need to be able to enter an end of episode date range to select their data. Facilities can log in to AROC Online Services (AOS) to see where their data is up to at any time by clicking DATA...Data Summary.

SPECIFICATION 3: MAPPING FROM VERSION 3 TO VERSION 4.0 DATASET

Indigenous status (Item D7 – Pathways 3, 4, 5)

In the Version 4 dataset this item has been changed to be numeric only – alpha codesets from New Zealand (NZ) have been converted to numeric and in line with that collected by Australia (AU), although some of the code set labels vary by country. In NZ this item is no longer mandatory. In AU missing data is not permitted for this item.

Mapping table:

Version 3 – Item 8 Code	Version 4 Mapped Code	AU	NZ	Comment
1 Aboriginal but not Torres Strait Islander origin	1 Aboriginal but not Torres Strait Islander origin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2 Torres Strait Islander but not Aboriginal origin	2 Torres Strait Islander but not Aboriginal origin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3 Both Aboriginal and Torres Strait Islander origin	3 Both Aboriginal and Torres Strait Islander origin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
4 Neither Aboriginal nor Torres Strait Islander origin	4 Neither Aboriginal nor Torres Strait Islander origin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
9 Not stated or inadequately defined	9 Not stated or inadequately defined	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
A Maori	1 Maori	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
B Non-Maori	4 Non-Maori	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
C Not stated or inadequately defined	9 Not stated or inadequately defined	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed

Mapping logic:

```

if [Country]= AU & [V3_Indigenous_Status] in (1, 2, 3, 4, 9) then [V4_Indigenous_Status] = [V3_Indigenous_Status]
else if [Country]= NZ & [V3_Indigenous_Status] = A then [V4_Indigenous_Status] = 1
else if [Country]= NZ & [V3_Indigenous_Status] = B then [V4_Indigenous_Status] = 4
else if [Country]= NZ & [V3_Indigenous_Status] = C then [V4_Indigenous_Status] = 9
else [V4_Indigenous_Status] = -2

```

Please note: The -2 code is not in the permissible code set to be used by clinicians. It is a flag used by AROC to indicate missing data – not supplied.

Geographical residence of patient (Item D9 – Pathways 3, 4, 5)

In the Version 3 data set this item was only collected in Australia (AU). In the Version 4 dataset this item will be collected by both Australia and New Zealand (NZ), although the codesets will vary by country. Missing data is not permitted for this item.

Mapping table:

Version 3 – Item 9 Code	Version 4 Mapped Code	AU	NZ	Comment
1 NSW	01 NSW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
2 VIC	02 VIC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
3 QLD	03 QLD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
4 SA	04 SA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
5 WA	05 WA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
6 TAS	06 TAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
7 NT	07 NT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
8 ACT	08 ACT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
9 Other Australian territory	09 Other Australian territory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Prefixed with a zero
	10 Not Australia	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	11 Northland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	12 Auckland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	13 Waikato	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	14 Bay of Plenty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	15 Gisborne	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	16 Hawkes Bay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	17 Taranaki	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	18 Manawatu-Wanganui	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	19 Wellington	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	20 Tasman	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	21 Nelson	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	22 Marlborough	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	23 West Coast	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	24 Canterbury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	25 Otago	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	26 Southland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	27 Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added
	28 Not New Zealand	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Added

Mapping logic:

if [Country] = AU & [V3_Geographical_residence] = 1 then [V4_Geographical_residence] = 01
else if [Country] = AU & [V3_Geographical_residence] = 2 then [V4_Geographical_residence] = 02
else if [Country] = AU & [V3_Geographical_residence] = 3 then [V4_Geographical_residence] = 03
else if [Country] = AU & [V3_Geographical_residence] = 4 then [V4_Geographical_residence] = 04
else if [Country] = AU & [V3_Geographical_residence] = 5 then [V4_Geographical_residence] = 05
else if [Country] = AU & [V3_Geographical_residence] = 6 then [V4_Geographical_residence] = 06
else if [Country] = AU & [V3_Geographical_residence] = 7 then [V4_Geographical_residence] = 07
else if [Country] = AU & [V3_Geographical_residence] = 8 then [V4_Geographical_residence] = 08
else if [Country] = AU & [V3_Geographical_residence] = 9 then [V4_Geographical_residence] = 09
else if [Country] = NZ then [V4_Geographical_residence] = -4
else [V4_Geographical_residence] = -2

Please note: The -2 code and -4 code are not in the permissible code set to be used by clinicians. They are flags used by AROC to indicate missing data – not supplied and not required.

Funding source (Item D11 – Pathways 3, 4, 5)

In Funding source some code set values have been changed but the options remain the same. In the Version 4 dataset this item will be collected by both Australia and New Zealand (NZ), although the codesets vary slightly by country. Missing data is not permitted for this item.

Mapping table:

Version 3 – Item 14 Code	Version 4 Mapped Code	AU	NZ	Comment
01 Public patient	01 Public patient	☑	☒	No change
02 Private health insurance	02 Private health insurance	☑	☒	No change
03 Self-funded	03 Self-funded	☑	☒	No change
04 Workers compensation	04 Workers compensation	☑	☒	No change
05 Motor vehicle third party personal claim	05 Motor vehicle third party personal claim	☑	☒	No change
06 Other compensation	06 Other compensation	☑	☒	No change
07 Department of Veterans' Affairs	07 Department of Veterans' Affairs	☑	☒	No change
08 Department of Defence	08 Department of Defence	☑	☒	No change
09 Correctional facility	09 Correctional facility	☑	☒	No change
10 Other hospital or public authority (contracted care)	10 Other hospital or public authority (contracted care)	☑	☒	No change
11 Reciprocal health care agreement (other countries)	11 Reciprocal health care agreement (other countries)	☑	☒	No change
12 Other	98 Other	☑	☒	Code changed
99 Not known	99 Not known	☑	☒	No change
A Public patient	01 Public patient	☒	☑	Code changed
B NZ Disability	12 NZ Disability	☒	☑	Code changed
C Accident Compensation Corporation	13 Accident Compensation Corporation	☒	☑	Code changed
D Private health insurance	02 Private health insurance	☒	☑	Code changed
E Self-funded	03 Self-funded	☒	☑	Code changed
F Workers compensation	04 Workers compensation	☒	☑	Code changed
G Motor vehicle third party personal claim	05 Motor vehicle third party personal claim	☒	☑	Code changed
H Other compensation	06 Other compensation	☒	☑	Code changed
I Other hospital or public authority (contracted care)	10 Other hospital or public authority (contracted care)	☒	☑	Code changed
J Reciprocal health care agreement (other countries)	11 Reciprocal health care agreement (other countries)	☒	☑	Code changed
K Other	98 Other	☒	☑	Code changed
L Not known	99 Not known	☒	☑	Code changed

Mapping logic:

```

if [V3_Funding_source] = 12 then [V4_Funding_source] = 98
else if [V3_Funding_source] = A then [V4_Funding_source] = 01
else if [V3_Funding_source] = B then [V4_Funding_source] = 12
else if [V3_Funding_source] = C then [V4_Funding_source] = 13
else if [V3_Funding_source] = D then [V4_Funding_source] = 02
else if [V3_Funding_source] = E then [V4_Funding_source] = 03
else if [V3_Funding_source] = F then [V4_Funding_source] = 04
else if [V3_Funding_source] = G then [V4_Funding_source] = 05
else if [V3_Funding_source] = H then [V4_Funding_source] = 06
else if [V3_Funding_source] = I then [V4_Funding_source] = 10
else if [V3_Funding_source] = J then [V4_Funding_source] = 11
else if [V3_Funding_source] = K then [V4_Funding_source] = 98
else if [V3_Funding_source] = L then [V4_Funding_source] = 99
else [V4_Funding_source] = -2

```

Please note: The -2 code is not in the permissible code set to be used by clinicians. It is a flag used by AROC to indicate missing data – not supplied.

Employment status prior to this impairment (Item E23 – Pathways 3, 4, 5)

This Version 4 dataset item can backward map 100% to the Version 3 item but does not map as well going from Version 3 to Version 4. This item is collected by both Australia (AU) and New Zealand (NZ). Missing data is not permitted for this item.

Mapping table:

Version 3 – Item 17 Code	Version 4 Mapped Code	AU	NZ	Comment
1 Employed	1 Employed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2 Not employed	2 Unemployed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	3 Student	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
3 Not in labour force	4 Not in Labour force	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	5 Retired for age	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	6 Retired for disability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
9 Not stated or inadequately defined		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not mapped

Mapping logic:

if [V3_Employment_Status] in (1, 2) then [V4_Employment_Status] = [V3_Employment_Status]

else if [V3_Employment_Status] = 3 then [V4_Employment_Status] = 4

else if [V3_Employment_Status] = 9 then [V4_Employment_Status] = -1

else [V4_Employment_Status] = -2

Please note: The -1 code and -2 code are not in the permissible code set to be used by clinicians. They are flags used by AROC to indicate missing data – out of codeset and not supplied.

Mode of episode start (Item E29 – Pathways 2, 3)

In the Version 4 dataset this item has had an extra code added to the inpatient pathways (the ambulatory pathways 4 and 5 are unchanged). It is collected by both Australia and New Zealand; missing data is not permitted for this item.

Mapping table:

Version 3 – Item 23 Code	Version 4 Mapped Code	AU	NZ	Comment
1 Admitted from usual accommodation	1 Admitted from usual accommodation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2 Admitted from other than usual accommodation	2 Admitted from other than usual accommodation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3 Transferred from another hospital	3 Transferred from another hospital	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
4 Transferred from acute care in another ward	4 Transferred from acute care in another ward	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	5 Transferred from acute specialist unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
5 Change from acute care to sub/non acute care same ward	6 Change from acute care to sub/non acute care same ward	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
6 Change of sub/non acute care type	7 Change of sub/non acute care type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
9 Other	8 Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed

Mapping logic:

```

if [V3_Mode_of_episode_start] in (1, 2, 3, 4) then [V4_Mode_of_episode_start] = [V3_Mode_of_episode_start]
else if [V3_Mode_of_episode_start] = 5 then [V4_Mode_of_episode_start] = 6
else if [V3_Mode_of_episode_start] = 6 then [V4_Mode_of_episode_start] = 7
else if [V3_Mode_of_episode_start] = 9 then [V4_Mode_of_episode_start] = 8
else [V4_Mode_of_episode_start] = -2

```

Please note: The -2 code is not in the permissible code set to be used by clinicians. It is a flag used by AROC to indicate missing data – not supplied.

AROC impairment code (Item E40 – Pathways 1, 2, 3, 4, 5, 6)

In the Version 4 dataset this item has had three new codes added plus Stroke impairments have been split into haemorrhagic and ischaemic and amputee impairments have been split into traumatic and non-traumatic. Both stroke and amputee backward map from Version 4 to Version 3 but do not forward map – a statistical codeset has been created for the importation of this data to ensure the detail is not lost. It is collected by both Australia and New Zealand; missing data is not permitted for this item.

Mapping table:

Version 3 – Item 33 Code	Version 4 Mapped Code	AU	NZ	Comment
	1.11 STROKE - Haemorrhagic - Left Body Involvement (Right Brain)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.12 STROKE - Haemorrhagic - Right Body Involvement (Left Brain)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.13 STROKE - Haemorrhagic - Bilateral Involvement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.14 STROKE - Haemorrhagic - No Paresis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.19 STROKE - Haemorrhagic - Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.21 STROKE - Ischaemic - Left Body Involvement (Right Brain)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.22 STROKE - Ischaemic - Right Body Involvement (Left Brain)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.23 STROKE - Ischaemic - Bilateral Involvement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.24 STROKE - Ischaemic - No Paresis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	1.29 STROKE - Ischaemic - Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
1.1 STROKE - Left Body Involvement (Right Brain)	<i>1.31 STROKE - Left Body Involvement (Right Brain)</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
1.2 STROKE - Right Body Involvement (Left Brain)	<i>1.32 STROKE - Right Body Involvement (Left Brain)</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
1.3 STROKE - Bilateral Involvement	<i>1.33 STROKE - Bilateral Involvement</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
1.4 STROKE - No Paresis	<i>1.34 STROKE - No Paresis</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
1.9 STROKE - Other stroke	<i>1.39 STROKE - Other</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
2.11 Brain Dysfunction - Non-traumatic - Subarachnoid haemorrhage	2.11 BRAIN DYSFUNCTION - Non-traumatic - subarachnoid haemorrhage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2.12 Brain Dysfunction - Non-traumatic - Anoxic Brain Damage	2.12 BRAIN DYSFUNCTION - Non-traumatic - Anoxic brain damage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2.13 Brain Dysfunction - Non-traumatic - Other non-traumatic brain dysfunction	2.13 BRAIN DYSFUNCTION - Non-traumatic - Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2.21 Brain Dysfunction - Traumatic - Open Injury	2.21 BRAIN DYSFUNCTION - Traumatic - open injury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
2.22 Brain Dysfunction - Traumatic - Closed Injury	2.22 BRAIN DYSFUNCTION - Traumatic - closed injury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.1 NEUROLOGICAL CONDITIONS-Multiple Sclerosis	3.1 NEUROLOGICAL CONDITIONS-Multiple sclerosis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.2 NEUROLOGICAL CONDITIONS-Parkinsonism	3.2 NEUROLOGICAL CONDITIONS-Parkinsonism	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.3 NEUROLOGICAL CONDITIONS-Polyneuropathy	3.3 NEUROLOGICAL CONDITIONS-Polyneuropathy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.4 NEUROLOGICAL CONDITIONS-Guillian-Barre	3.4 NEUROLOGICAL CONDITIONS-Guillian-Barre	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.5 NEUROLOGICAL CONDITIONS-Cerebral Palsy	3.5 NEUROLOGICAL CONDITIONS-Cerebral palsy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.8 NEUROLOGICAL CONDITIONS-Neuromuscular Disorders	3.8 NEUROLOGICAL CONDITIONS-Neuromuscular disorders	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
3.9 NEUROLOGICAL CONDITIONS-Other neurologic	3.9 NEUROLOGICAL CONDITIONS-Other neurologic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
4.111 SPINAL CORD DYSFUNCTION - Non-traumatic - Paraplegia, Incomplete	4.111 SPINAL CORD DYSFUNCTION - Non-traumatic - Paraplegia, incomplete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
4.112 SPINAL CORD DYSFUNCTION - Non-traumatic - Paraplegia, Complete	4.112 SPINAL CORD DYSFUNCTION - Non-traumatic - Paraplegia, complete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change

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Version 3 – Item 33 Code	Version 4 Mapped Code	AU	NZ	Comment
4.1211 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia Incomplete C1-4	4.1211 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia incomplete C1-4	☑	☑	No change
4.1212 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia Incomplete C5-8	4.1212 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia incomplete C5-8	☑	☑	No change
4.1221 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia Complete C1-4	4.1221 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia complete C1-4	☑	☑	No change
4.1222 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia Complete C5-8	4.1222 SPINAL CORD DYSFUNCTION - Non-traumatic - Quadriplegia complete C5-8	☑	☑	No change
4.13 SPINAL CORD DYSFUNCTION - Non-traumatic - Other non-traumatic SCI	4.13 SPINAL CORD DYSFUNCTION - Non-traumatic - Other non-traumatic spinal cord dysfunction	☑	☑	No change
4.211 SPINAL CORD DYSFUNCTION - Traumatic - Paraplegia, Incomplete	4.211 SPINAL CORD DYSFUNCTION - Traumatic - Paraplegia, incomplete	☑	☑	No change
4.212 SPINAL CORD DYSFUNCTION - Traumatic - Paraplegia, Complete	4.212 SPINAL CORD DYSFUNCTION - Traumatic - Paraplegia, complete	☑	☑	No change
4.2211 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia Incomplete C1-4	4.2211 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia incomplete C1-4	☑	☑	No change
4.2212 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia Incomplete C5-8	4.2212 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia incomplete C5-8	☑	☑	No change
4.2221 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia Complete C1-4	4.2221 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia complete C1-4	☑	☑	No change
4.2222 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia Complete C5-8	4.2222 SPINAL CORD DYSFUNCTION - Traumatic - Quadriplegia complete C5-8	☑	☑	No change
4.23 SPINAL CORD DYSFUNCTION - Traumatic - Other traumatic SCI	4.23 SPINAL CORD DYSFUNCTION - Traumatic - Other traumatic spinal cord dysfunction	☑	☑	No change
	5.11 AMPUTATION OF LIMB - no trauma - Single upper amputation above the elbow	☑	☑	New code
	5.12 AMPUTATION OF LIMB - no trauma - Single upper amputation below the elbow	☑	☑	New code
	5.13 AMPUTATION OF LIMB - no trauma - Single lower amputation above the knee	☑	☑	New code
	5.14 AMPUTATION OF LIMB - no trauma - Single lower amputation below the knee	☑	☑	New code
	5.15 AMPUTATION OF LIMB - no trauma - Double lower amputation above the knee	☑	☑	New code
	5.16 AMPUTATION OF LIMB - no trauma - Double lower amputation above/below the knee	☑	☑	New code
	5.17 AMPUTATION OF LIMB - no trauma - Double lower amputation below the knee	☑	☑	New code
	5.18 AMPUTATION OF LIMB - no trauma - Partial foot amputation (includes single/double)	☑	☑	New code
	5.19 AMPUTATION OF LIMB - no trauma - Other amputation	☑	☑	New code
	5.21 AMPUTATION OF LIMB - trauma - Single upper amputation above the elbow	☑	☑	New code
	5.22 AMPUTATION OF LIMB - trauma - Single upper amputation below the elbow	☑	☑	New code
	5.23 AMPUTATION OF LIMB - trauma - Single lower amputation above the knee	☑	☑	New code
	5.24 AMPUTATION OF LIMB - trauma - Single lower amputation below the knee	☑	☑	New code
	5.25 AMPUTATION OF LIMB - trauma - Double lower amputation above the knee	☑	☑	New code
	5.26 AMPUTATION OF LIMB - trauma - Double lower amputation above/below the knee	☑	☑	New code
	5.27 AMPUTATION OF LIMB - trauma - Double lower amputation below the knee	☑	☑	New code
	5.28 AMPUTATION OF LIMB - trauma - Partial foot amputation (includes single/double)	☑	☑	New code
	5.29 AMPUTATION OF LIMB - trauma - Other amputation	☑	☑	New code
5.1 AMPUTATION OF LIMB - Single Upper Amputation Above the Elbow	5.31 AMPUTATION OF LIMB - Single Upper Amputation Above the Elbow	☒	☒	Statistical code for mapping
5.2 AMPUTATION OF LIMB - Single Upper Amputation Below the Elbow	5.32 AMPUTATION OF LIMB - Single Upper Amputation Below the Elbow	☒	☒	Statistical code for mapping
5.3 AMPUTATION OF LIMB - Single Lower Amputation Above the Knee	5.33 AMPUTATION OF LIMB - Single Lower Amputation Above the Knee	☒	☒	Statistical code for mapping
5.4 AMPUTATION OF LIMB - Single Lower Amputation Below the Knee	5.34 AMPUTATION OF LIMB - Single Lower Amputation Below the Knee	☒	☒	Statistical code for mapping

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Version 3 – Item 33 Code	Version 4 Mapped Code	AU	NZ	Comment
5.5 AMPUTATION OF LIMB - Double Lower Amputation Above the Knee	5.35 AMPUTATION OF LIMB - Double Lower Amputation Above the Knee	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
5.6 AMPUTATION OF LIMB - Double Lower Amputation Above/below the Knee	5.36 AMPUTATION OF LIMB - Double Lower Amputation Above/below the Knee	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
5.7 AMPUTATION OF LIMB - Double Lower Amputation Below the Knee	5.37 AMPUTATION OF LIMB - Double Lower Amputation Below the Knee	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
5.8 AMPUTATION OF LIMB - Partial Foot Amputation (includes single/double)	5.38 AMPUTATION OF LIMB - Partial Foot Amputation (includes single/double)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
5.9 AMPUTATION OF LIMB - Other Amputation	5.39 AMPUTATION OF LIMB - Other Amputation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Statistical code for mapping
6.1 ARTHRITIS - Rheumatoid Arthritis	6.1 ARTHRITIS - Rheumatoid arthritis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
6.2 ARTHRITIS - Osteoarthritis	6.2 ARTHRITIS - Osteoarthritis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
6.9 ARTHRITIS - Other Arthritis	6.9 ARTHRITIS - Other arthritis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
7.1 PAIN SYNDROMES - Neck Pain	7.1 PAIN SYNDROMES - Neck pain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
7.2 PAIN SYNDROMES - Back Pain	7.2 PAIN SYNDROMES - Back pain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
7.3 PAIN SYNDROMES - Extremity Pain	7.3 PAIN SYNDROMES - Extremity pain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
7.4 PAIN SYNDROMES - Headache (includes migraine)	7.4 PAIN SYNDROMES - Headache (includes migraine)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
7.5 PAIN SYNDROMES - Multi-site pain	7.5 PAIN SYNDROMES - Multi-site pain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
7.9 PAIN SYNDROMES - Other Pain	7.9 PAIN SYNDROMES - Other pain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.111 ORTHOPAEDIC CONDITIONS - Fracture of hip, unilateral (includes #NOF)	8.111 ORTHOPAEDIC CONDITIONS - Fracture of hip, unilateral (includes #NOF)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.112 ORTHOPAEDIC CONDITIONS - Fracture of hip, bilateral (includes #NOF)	8.112 ORTHOPAEDIC CONDITIONS - Fracture of hip, bilateral (includes #NOF)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.12 ORTHOPAEDIC CONDITIONS - Fracture of shaft of femur (excludes femur involving knee joint)	8.12 ORTHOPAEDIC CONDITIONS - Fracture of shaft of femur (excludes femur involving knee joint)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.13 ORTHOPAEDIC CONDITIONS - Fracture of pelvis	8.13 ORTHOPAEDIC CONDITIONS - Fracture of pelvis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.141 ORTHOPAEDIC CONDITIONS - Fracture of knee (includes patella, femur involving knee joint, tibia or fibula involving knee joint)	8.141 ORTHOPAEDIC CONDITIONS - Fracture of knee (includes patella, femur involving knee joint, tibia or fibula involving knee joint)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.142 ORTHOPAEDIC CONDITIONS - Fracture of leg, ankle, foot	8.142 ORTHOPAEDIC CONDITIONS - Fracture of leg, ankle, foot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.15 ORTHOPAEDIC CONDITIONS - Fracture of upper limb (includes hand, fingers, wrist, forearm, arm, shoulder)	8.15 ORTHOPAEDIC CONDITIONS - Fracture of upper limb (includes hand, fingers, wrist, forearm, arm, shoulder)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.16 ORTHOPAEDIC CONDITIONS - Fracture of spine (excludes where the major disorder is pain)	8.16 ORTHOPAEDIC CONDITIONS - Fracture of spine (excludes where the major disorder is pain)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.17 ORTHOPAEDIC CONDITIONS - Fracture of multiple sites	8.17 ORTHOPAEDIC CONDITIONS - Fracture of multiple sites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.19 ORTHOPAEDIC CONDITIONS - Other orthopaedic fracture	8.19 ORTHOPAEDIC CONDITIONS - Other orthopaedic fracture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.211 ORTHOPAEDIC CONDITIONS - Unilateral hip replacement	8.211 ORTHOPAEDIC CONDITIONS - Unilateral hip replacement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.212 ORTHOPAEDIC CONDITIONS - Bilateral hip replacement	8.212 ORTHOPAEDIC CONDITIONS - Bilateral hip replacement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.221 ORTHOPAEDIC CONDITIONS - Unilateral knee replacement	8.221 ORTHOPAEDIC CONDITIONS - Unilateral knee replacement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.222 ORTHOPAEDIC CONDITIONS - Bilateral knee replacement	8.222 ORTHOPAEDIC CONDITIONS - Bilateral knee replacement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.231 ORTHOPAEDIC CONDITIONS - Knee and hip replacement same side	8.231 ORTHOPAEDIC CONDITIONS - Knee and hip replacement same side	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.232 ORTHOPAEDIC CONDITIONS - Knee and hip replacement different sides	8.232 ORTHOPAEDIC CONDITIONS - Knee and hip replacement different sides	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.24 ORTHOPAEDIC CONDITIONS - Shoulder replacement or repair	8.24 ORTHOPAEDIC CONDITIONS - Shoulder replacement or repair	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.25 ORTHOPAEDIC CONDITIONS - Post spinal surgery	8.25 ORTHOPAEDIC CONDITIONS - Post spinal surgery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
8.26 ORTHOPAEDIC CONDITIONS - Other orthopaedic surgery	8.26 ORTHOPAEDIC CONDITIONS - Other orthopaedic surgery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	8.3 ORTHOPAEDIC CONDITIONS - Soft tissue injury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
9.1 CARDIAC - Following recent onset of new cardiac impairment	9.1 CARDIAC - Following recent onset of new cardiac impairment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
9.2 CARDIAC - Chronic cardiac insufficiency	9.2 CARDIAC - Chronic cardiac insufficiency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	9.3 CARDIAC - Heart or heart/lung transplant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
10.1 PULMONARY - Chronic Obstructive Pulmonary Disease	10.1 PULMONARY - Chronic obstructive pulmonary disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	10.2 PULMONARY - Lung transplant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code

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Version 3 – Item 33 Code	Version 4 Mapped Code	AU	NZ	Comment
10.9 PULMONARY - Other	10.9 PULMONARY - Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
11 BURNS	11 BURNS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
12.1 CONGENITAL DEFORMITIES - Spina Bifida	12.1 CONGENITAL DEFORMITIES - Spina bifida	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
12.9 CONGENITAL DEFORMITIES - Other	12.9 CONGENITAL DEFORMITIES - Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
13.1 OTHER DISABLING IMPAIRMENTS - Lymphoedema	13.1 OTHER DISABLING IMPAIRMENTS - Lymphoedema	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	13.3 OTHER DISABLING IMPAIRMENTS - Conversion disorder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
13.2 OTHER DISABLING IMPAIRMENTS - Other Disabling Impairments. This classification should rarely be used.	13.9 OTHER DISABLING IMPAIRMENTS - Other disabling impairments. This classification should rarely be used.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
14.1 MAJOR MULTIPLE TRAUMA - Brain + Spinal Cord Injury	14.1 MAJOR MULTIPLE TRAUMA - Brain + spinal cord injury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
14.2 MAJOR MULTIPLE TRAUMA - Brain + Multiple Fracture/Amputation	14.2 MAJOR MULTIPLE TRAUMA - Brain + multiple fracture/amputation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
14.3 MAJOR MULTIPLE TRAUMA - Spinal Cord + Multiple Fracture/ Amputation	14.3 MAJOR MULTIPLE TRAUMA - Spinal cord + multiple fracture/ amputation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
14.9 MAJOR MULTIPLE TRAUMA - Other Multiple Trauma	14.9 MAJOR MULTIPLE TRAUMA - Other multiple trauma	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
15.1 DEVELOPMENTAL DISABILITIES	15.1 DEVELOPMENTAL DISABILITIES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
16.1 RE-CONDITIONING/RESTORATIVE - Re-conditioning following surgery	16.1 RE-CONDITIONING/RESTORATIVE - Re-conditioning following surgery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
16.2 RE-CONDITIONING/RESTORATIVE - Re-conditioning following medical illness	16.2 RE-CONDITIONING/RESTORATIVE - Re-conditioning following medical illness	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
16.3 RE-CONDITIONING/RESTORATIVE - Cancer rehab	16.3 RE-CONDITIONING/RESTORATIVE - Cancer rehabilitation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change

Mapping logic:

if [V3_Impairment_Code] in (2.11, 2.12, 2.13, 2.21, 2.22, 3.1, 3.2, 3.3, 3.4, 3.5, 3.8, 3.9, 4.111, 4.112, 4.1211, 4.1212, 4.1221, 4.1222, 4.13, 4.211, 4.212, 4.2211, 4.2212, 4.2221, 4.2222, 4.23, 6.1, 6.2, 6.9, 7.1, 7.2, 7.3, 7.4, 7.5, 7.9, 8.111, 8.112, 8.12, 8.13, 8.141, 8.142, 8.15, 8.16, 8.17, 8.19, 8.211, 8.212, 8.221, 8.222, 8.231, 8.232, 8.24, 8.25, 8.26, 9.1, 9.2, 10.1, 10.9, 11, 12.1, 12.9, 13.1, 14.1, 14.2, 14.3, 14.9, 15.1, 16.1, 16.2, 16.3) then [V4_Impairment_Code] = [V3_Impairment_Code]

else if [V3_Impairment_Code] = 1.1 then [V4_Impairment_Code] = 1.31

else if [V3_Impairment_Code] = 1.2 then [V4_Impairment_Code] = 1.32

else if [V3_Impairment_Code] = 1.3 then [V4_Impairment_Code] = 1.33

else if [V3_Impairment_Code] = 1.4 then [V4_Impairment_Code] = 1.34

else if [V3_Impairment_Code] = 1.9 then [V4_Impairment_Code] = 1.39

else if [V3_Impairment_Code] = 5.1 then [V4_Impairment_Code] = 5.31

else if [V3_Impairment_Code] = 5.2 then [V4_Impairment_Code] = 5.32

else if [V3_Impairment_Code] = 5.3 then [V4_Impairment_Code] = 5.33

else if [V3_Impairment_Code] = 5.4 then [V4_Impairment_Code] = 5.34

else if [V3_Impairment_Code] = 5.5 then [V4_Impairment_Code] = 5.35

else if [V3_Impairment_Code] = 5.6 then [V4_Impairment_Code] = 5.36

else if [V3_Impairment_Code] = 5.7 then [V4_Impairment_Code] = 5.37

else if [V3_Impairment_Code] = 5.8 then [V4_Impairment_Code] = 5.38

else if [V3_Impairment_Code] = 5.9 then [V4_Impairment_Code] = 5.39

else if [V3_Impairment_Code] = 13.2 then [V4_Impairment_Code] = 13.9

else [V4_Impairment_Code] = -2

Please note: The 1.3* codes, 5.3* codes and -2 code are not in the permissible code set to be used by clinicians. They are flags used by AROC to indicate un-mappable stroke / amputee data and missing data – not supplied.

Comorbidities interfering with rehabilitation episode (Items E104, E105, E106, E107 – Pathways 1, 2, 3, 4, 5)

In the Version 4 dataset this item has extra codes added and has been reordered. It is collected by both Australia and New Zealand. Missing data is only permitted for item E104 where the **Existing Comorbidity?** item is “No”. Items E105, E106 and E107 may or may not be missing depending upon how many comorbidities are being reported.

Mapping table:

Version 3 – Item 35 Code	Version 4 Mapped Code	AU	NZ	Comment
1 Ischaemic heart disease	01 Cardiac disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
2 Cardiac failure	01 Cardiac disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
3 Atrial fibrillation	01 Cardiac disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
4 Osteoporosis	20 Osteoporosis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
5 Osteoarthritis	19 Osteoarthritis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
6 Upper limb amputation	99 Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
7 Lower limb amputation	99 Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
8 Depression	06 Mental health problem	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
9 Bipolar Affective Disorder	06 Mental health problem	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
10 Drug and alcohol abuse	03 Drug and alcohol abuse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
11 Dementia	04 Dementia	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
12 Asthma	02 Respiratory disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
13 CAL/COPD	02 Respiratory disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
14 Renal failure	07 Renal failure with dialysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
15 Epilepsy	09 Epilepsy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
16 Parkinsons disease	10 Parkinsons disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
17 Stroke	11 Stroke	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
18 Spinal cord injury/disease	12 Spinal cord injury/disease	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
19 .. Visual impairment	24 Visual impairment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
20 Hearing impairment	15 Hearing impairment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
21 Diabetes mellitus	16 Diabetes mellitus	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
22 Delirium	05 Delirium, pre-existing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
23 Morbid obesity	17 Morbid obesity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code changed
99 Other	99 Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No change
	08 Renal failure NO dialysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	13 Brain injury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	14 Multiple sclerosis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	18 Inflammatory arthritis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	21 Chronic pain	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	22 Cancer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
	23 Pressure ulcer, pre-existing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code

Mapping logic:

```

if [V3_Comorbidity] = 1 then [V4_Comorbidity] = 01
else if [V3_Comorbidity] = 2 then [V4_Comorbidity] = 01
else if [V3_Comorbidity] = 3 then [V4_Comorbidity] = 01
else if [V3_Comorbidity] = 4 then [V4_Comorbidity] = 20
else if [V3_Comorbidity] = 5 then [V4_Comorbidity] = 19
else if [V3_Comorbidity] = 6 then [V4_Comorbidity] = 99
else if [V3_Comorbidity] = 7 then [V4_Comorbidity] = 99
else if [V3_Comorbidity] = 8 then [V4_Comorbidity] = 06
else if [V3_Comorbidity] = 9 then [V4_Comorbidity] = 06
else if [V3_Comorbidity] = 10 then [V4_Comorbidity] = 03
else if [V3_Comorbidity] = 11 then [V4_Comorbidity] = 04
else if [V3_Comorbidity] = 12 then [V4_Comorbidity] = 02

```

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else if [V3_Comorbidity] = 13 then [V4_Comorbidity] =02
else if [V3_Comorbidity] = 14 then [V4_Comorbidity] =07
else if [V3_Comorbidity] = 15 then [V4_Comorbidity] =09
else if [V3_Comorbidity] = 16 then [V4_Comorbidity] =10
else if [V3_Comorbidity] = 17 then [V4_Comorbidity] =11
else if [V3_Comorbidity] = 18 then [V4_Comorbidity] =12
else if [V3_Comorbidity] = 19 then [V4_Comorbidity] =24
else if [V3_Comorbidity] =20 then [V4_Comorbidity] =15
else if [V3_Comorbidity] =21 then [V4_Comorbidity] =16
else if [V3_Comorbidity] =22 then [V4_Comorbidity] =05
else if [V3_Comorbidity] =23 then [V4_Comorbidity] =17
else if [V3_Comorbidity] =99 then [V4_Comorbidity] =99
else if [V3_Existing_Comorbidity] = 2 then [V4_Comorbidity] =-4
else [V4_Comorbidity] = -2

Please note: The -2 code and -4 code are not in the permissible code set to be used by clinicians. They are flags used by AROC to indicate missing data – not supplied and not required.

Complication interfering with inpatient rehabilitation Episode? (Item E108 – Pathways 2, 3)

This is a new item in the Version 4 dataset that can be mapped from the V3 item **Complications interfering with the rehabilitation episode – complication 1**. It is collected by both Australia and New Zealand. Missing data is not permitted.

Mapping table:

Version 3 – Item 36 Code	Version 4 Mapped Code	AU	NZ	Comment
1 No Complications	2 No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
2 UTI	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
3 Pressure ulcer	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
4 Wound infection	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
5 DVT/PE	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
6 Chest infection	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
7 Significant electrolyte imbalance	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
8 Fall	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
9 Faecal impaction	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item
99 Other	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New data item

Mapping logic:

```
if [V3_Complication1] = 1 then [V4_Complication_Flag] = 2
else if [V3_Complication1] = 2 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 3 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 4 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 5 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 6 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 7 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 8 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 9 then [V4_Complication_Flag] = 1
else if [V3_Complication1] = 99 then [V4_Complication_Flag] = 1
else [V4_Complication_Flag] = -2
```

Please note: The -2 code is not in the permissible code set to be used by clinicians. It is a flag used by AROC to indicate missing data – not supplied.

Complications 1–4 interfering with the inpatient rehabilitation episode (Items E109, E110, E111, E112 – Pathways 2, 3)

In the Version 4 dataset these items have extra codes added. They are collected by both Australia and New Zealand. Missing data is only permitted for item E109 where the **Complication Interfering with inpatient rehabilitation Episode?** item is “No”. Items E110, E111 and E112 may or may not be missing depending upon how many complications are being reported.

Mapping table:

Version 3 - Item 36 Code	Version 4 Mapped Code	AU	NZ	Comment
1 No Complications		☒	☒	Mapped to a new data item E108
2 UTI	01 UTI	☒	☒	Code changed
	02 Incontinence faecal	☒	☒	New code
	03 Incontinence urinary	☒	☒	New code
	04 Delirium	☒	☒	New code
	05 Fracture	☒	☒	New code
3 Pressure ulcer	06 Pressure ulcer	☒	☒	Code changed
4 Wound infection	07 Wound infection	☒	☒	Code changed
5 DVT/PE	08 DVT/PE	☒	☒	Code changed
6 Chest infection	09 Chest infection	☒	☒	Code changed
7 Significant electrolyte imbalance	10 Significant electrolyte imbalance	☒	☒	Code changed
8 Fall	11 Fall	☒	☒	Code changed
9 Faecal impaction	12 Faecal impaction	☒	☒	Code changed
99 Other	99 Other	☒	☒	No change

Mapping logic:

```

if [V3_Complication1] = 1 then [V4_Complication1] = -4
else if [V3_Complication1] = 2 then [V4_Complication1] = 01
else if [V3_Complication1] = 3 then [V4_Complication1] = 06
else if [V3_Complication1] = 4 then [V4_Complication1] = 07
else if [V3_Complication1] = 5 then [V4_Complication1] = 08
else if [V3_Complication1] = 6 then [V4_Complication1] = 09
else if [V3_Complication1] = 7 then [V4_Complication1] = 10
else if [V3_Complication1] = 8 then [V4_Complication1] = 11
else if [V3_Complication1] = 9 then [V4_Complication1] = 12
else if [V3_Complication1] = 99 then [V4_Complication1] = 99
else [V4_Complication1] = -2
    ➔ Repeat for Complication2, Complication3 and Complication4
  
```

Please note: The -2 code and -4 code are not in the permissible code set to be used by clinicians. They are flags used by AROC to indicate missing data – not supplied and not required.

Final destination (Item E116 – Pathways 2, 3, 4, 5)

In the Version 4 dataset this item has been changed to be numeric only – alpha codesets from New Zealand (NZ) have been converted to numeric and in line with that collected by Australia (AU), although some of the code set labels vary by country. In NZ this item is no longer mandatory. In AU missing data is not permitted for this item.

Mapping table:

Version 3 - Item 31 Code	Version 4 Mapped Code	AU	NZ	Comment
1 Private residence (including unit in retirement village)	1 Private residence (including unit in retirement village)	☑	☒	No change
2 Residential, low level care (hostel)	2 Residential, low level care (hostel)	☑	☒	No change
3 Residential, high level care (nursing home)	3 Residential, high level care (nursing home)	☑	☒	No change
4 Community group home	4 Community group home	☑	☒	No change
5 Boarding house	5 Boarding house	☑	☒	No change
6 Transitional living unit	6 Transitional living unit	☑	☒	No change
7 Other	8 Other	☑	☒	Code changed
9 Unknown	9 Unknown	☑	☒	No change
A Private residence (including unit in retirement village)	1 Private residence (including unit in retirement village)	☒	☑	Code changed
B Rest home level care	2 Rest home level care	☒	☑	Code changed
C Hospital level care (requires 24 hr nursing)	3 Hospital level care (requires 24 hr nursing)	☒	☑	Code changed
D Community group home	4 Community group home	☒	☑	Code changed
E Boarding house	5 Boarding house	☒	☑	Code changed
F Transitional living unit	6 Transitional living unit	☒	☑	Code changed
G Other	8 Other	☒	☑	Code changed
H Unknown	9 Unknown	☒	☑	Code changed

Mapping logic:

```

if [V3_Final_destination] in (1, 2, 3, 4, 5, 6, 9) then [V4_Final_destination] = [V3_Final_destination]
else if [V3_Final_destination] = 7 then [V4_Final_destination] = 8
else if [V3_Final_destination] = A then [V4_Final_destination] = 1
else if [V3_Final_destination] = B then [V4_Final_destination] = 2
else if [V3_Final_destination] = C then [V4_Final_destination] = 3
else if [V3_Final_destination] = D then [V4_Final_destination] = 4
else if [V3_Final_destination] = E then [V4_Final_destination] = 5
else if [V3_Final_destination] = F then [V4_Final_destination] = 6
else if [V3_Final_destination] = G then [V4_Final_destination] = 8
else if [V3_Final_destination] = H then [V4_Final_destination] = 9
else if [V3_Mode_of_episode_end] in (1,2,) then [V4_Final_destination] = -2
else [V4_Final_destination] = -4

```

Please note: The -2 code and -4 code are not in the permissible code set to be used by clinicians. They are flags used by AROC to indicate missing data – not supplied and not required.

Discharge plan available to patient (Item E143 – Pathways 3, 4, 5)

In the Version 4 dataset this item changed from date field to a yes/no flag. It is collected by both Australia (AU) and New Zealand (NZ), missing data is not permitted for this item.

Mapping table:

Version 3 – Item 42 Code	Version 4 Mapped Code	AU	NZ	Comment
Has a date	1 Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code
Does not have a date	2 No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	New code

Mapping logic:

```
if [V3_Discharge_plan] <> Null then [V4_Discharge_plan] = 1  
else [V4_Discharge_plan] = 2
```

Please note: The 2 code has been used for all episodes that did not provide a date as it is not possible to determine the difference between no date=not provided and no date = not answered.

CONTACTS

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