

Australian and New Zealand Paediatric Intensive Care Registry

Data Dictionary

Part I: Data Table Definitions
Part II: Clinical Indicator Event Table Definitions

**Australian and New Zealand Paediatric Intensive Care Registry
Part I: Data Table Definitions**

ICU_NO

Description:	ICU Number (For example, first Patient in 2003 = 20030001)
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>1996000
Type:	Number (Long)
Size:	4

SURNAME

Description:	Surname
Required:	No
Registry Field Type:	Optional, not exported
Source Table:	Data
Type:	Text
Size:	450

FIRST_N

Description:	First Name
Required:	No
Registry Field Type:	Optional, not exported
Source Table:	Data
Type:	Text
Size:	50

UR_NO

Description:	Hospital medical record number
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Type:	Text
Size:	10

DOB

Description:	Date of Birth
Format:	Short Date (dd/mm/yyyy)
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>#1/01/1950# And <=Now()
Type:	Date/Time
Size:	8

GENDER

Description:	Gender (M / F)
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	"M" or "F"
Type:	Text
Size:	1

RACE

Description:	Race 1= Caucasian, 2= Aboriginal, 3= Maori, 4= Polynesian, 5= Asian, 6= other
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	1 Or 2 Or 3 Or 4 Or 5 Or 6 Or Is Null
Type:	Number (Byte)
Size:	1

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Part I: Data Table Definitions**

WT

Description:	Weight in Kg
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	<200 Or 999 Or Is Null
Type:	Number (Single)
Size:	4

POST

Description:	Post Code
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	<10000 Or Is Null
Type:	Number (Integer)
Size:	2

HADM_SC

Description:	Hospital Admission Source 1= home or scene, 2= other hosp-emergency dept, 3= other hosp-Operating Theatre/recovery, 4= other hosp-ICU or NICU, 5= other hosp-ward, 6= inborn
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	1 Or 2 Or 3 Or 4 Or 5 Or 6
Type:	Number (Byte)
Size:	1

RETRIEV

Description:	Transported by a specialist ICU transport team or equivalent 0=No 1=Yes
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	0 Or 1
Type:	Number (Byte)
Size:	1

IADM_SC

Description:	ICU Admission Source, 1= operating theatre or recovery, 2= emergency dept, 3= ward or any other in-patient area, 4= other ICU or NICU (same hospital), 5= direct ICU admission
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	1 Or 2 Or 3 Or 4 Or 5
Type:	Number (Byte)
Size:	1

PREV_AD

Description:	Previous ICU Admission during this Hospital Admission? 0= No, 1= Yes - readmitted <48 hours post discharge 2= Yes – readmitted >48 hours post discharge
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	0 Or 1 Or 2
Type:	Number (Byte)
Size:	1

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ADM_DT

Description:	ICU Admission Date and Time
Format:	General Date
Input Mask:	99/99/99\ 00:00;0;_
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>#1/01/1996# And <=Now()
Validation text:	Admission date must be greater than or equal to date of birth and less than or equal to current date
Type:	Date/Time
Size:	8

DIS_DT

Description:	ICU Discharge Date and Time
Format:	General Date
Input Mask:	99/99/99\ 00:00;0;_
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>[ADM_DT]<=Now()
Type:	Date/Time
Size:	8

PDX

Description:	Principal Diagnosis responsible for ICU Admission (from ANZPIC Registry codes)
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	(>99 And <150) Or (>199 And <700) Or (>799 And <1999)
Type:	Number (Integer)
Size:	2

UDX

Description:	Principal Underlying Disease
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	(>99 And <150) Or (>199 And <1999)
Type:	Number (Integer)
Size:	2

ADX1

Description:	Associated Diagnosis 1
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>99 And <2000 Or Is Null
Type:	Number (Integer)
Size:	2

ADX2

Description:	Associated Diagnosis 2
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>99 And <2000 Or Is Null
Type:	Number (Integer)
Size:	2

ADX3

Description:	Associated Diagnosis 3
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>99 And <2000 Or Is Null
Type:	Number (Integer)
Size:	2

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ADX4

Description:	Associated Diagnosis 4
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>99 And <2000 Or Is Null
Type:	Number (Integer)
Size:	2

ADX5

Description:	Associated Diagnosis 5
Required:	No
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	>99 And <2000 Or Is Null
Type:	Number (Integer)
Size:	2

ICOM1

Description:	Intubation Commenced Date and Time, Episode 1
Format:	General Date
Input Mask:	99/99/99\ 00:00;0;_
Required:	No
Registry Field Type:	Optional
Source Table:	Data
Validation Rule:	>=[ADM_DT] And <=Now() Or Is Null
Validation Text:	Must be between admission date and time and current date and time If intubated before admission, use the admission date and time
Type:	Date/Time
Size:	8

ICEAS1

Description:	Intubation Ceased Date and Time, Episode 1
Format:	General Date
Input Mask:	99/99/99\ 00:00;0;_
Required:	No
Registry Field Type:	Optional
Source Table:	Data
Validation Rule:	>=[ICOM1] And <=Now() Or Is Null
Type:	Date/Time
Size:	8

ICOM2

Description:	Intubation Commenced Date and Time, Episode 2
Format:	General Date
Input Mask:	99/99/99\ 00:00;0;_
Required:	No
Registry Field Type:	Optional
Source Table:	Data
Validation Rule:	>=[ICEAS1] And <=Now() Or Is Null
Type:	Date/Time
Size:	8

ICEAS2

Description:	Intubation Ceased Date and Time, Episode 2
Format:	General Date
Input Mask:	99/99/99\ 00:00;0;_
Required:	No
Registry Field Type:	Optional
Source Table:	Data
Validation Rule:	>=[ICOM2] And <=Now() Or Is Null
Type:	Date/Time
Size:	8

I_ADHR

Description:	Hours of Intubation not covered by Episodes 1 & 2 above
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Type:	Number (Single)

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Size: 4

RSCOM1

Description: Respiratory Support Commenced Date and Time, Episode 1
Format: General Date
Input Mask: 99/99/99\ 00:00;0;_
Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: >=[ADM_DT] And <Now() Or Is Null
Validation text: Must be between admission date and time and current date and time
 If receiving respiratory support before admission use the admission date and time
Type: Date/Time
Size: 8

RSCEAS1

Description: Respiratory Support Ceased Date and Time, Episode 1
Format: General Date
Input Mask: 99/99/99\ 00:00;0;_
Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: >=[RSCOM1] And <=Now() Or Is Null
Type: Date/Time
Size: 8

RSCOM2

Description: Respiratory Support Commenced Date and Time, Episode 2
Format: General Date
Input Mask: 99/99/99\ 00:00;0;_
Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: >=[RSCEAS1] And <=Now() Or Is Null
Type: Date/Time
Size: 8

RSCEAS2

Description: Respiratory Support Ceased Date and Time, Episode 2
Format: General Date
Input Mask: 99/99/99\ 00:00;0;_
Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: >=[RSCOM2] And <=Now() Or Is Null
Type: Date/Time
Size: 8

RS_ADHR

Description: Hours of Respiratory Support not covered by Episodes 1 & 2 above
Required: Yes
Registry Field Type: Core
Source Table: Data
Type: Number (Single)
Size: 4

OUTCOME

Description: ICU Outcome,
1= discharged to ward or home,
2= died in ICU,
3= transferred to another ICU or NICU,
4= still in ICU
Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: 1 Or 2 Or 3 Or 4
Type: Number (Byte)
Size: 1

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ICU_TRAN

Description:	ICU Transferred to
Required:	No
Registry Field Type:	Core
Source Table:	Data
Type:	Number (Integer)
Size:	2

ELECTIVE

Description:	Was this an elective admission to ICU?
	0= no
	1= yes
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	0 Or 1
Type:	Number (Byte)
Size:	1

RECOVERY

Description:	Recovery from surgery or a procedure
	0= no
	1= yes
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	0 Or 1
Type:	Number (Byte)
Size:	1

BYPASS

Description:	Admitted following cardiac bypass
	0= no
	1= yes
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	0 Or 1
Type:	Number (Byte)
Size:	1

RS_HR124

Description:	Mechanical ventilation during the first hour in ICU (includes CPAP, BiPAP)
	0= no
	1= yes
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	0 Or 1
Type:	Number (Byte)
Size:	1

SBPA

Description:	Systolic Blood Pressure on admission
	Not measured = 999
Required:	Yes
Registry Field Type:	Core
Source Table:	Data
Validation Rule:	<300 Or 999
Type:	Number (Integer)
Size:	2

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PUPILS

Description: Pupillary Responses on admission
1= both fixed and dilated,
0= all other responses including unknown

Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: 0 Or 1
Type: Number (Integer)
Size: 2

PO2A

Description: PaO2 on admission (arterial only)
Not measured = 999

Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: >9 And <600 Or 999
Type: Number (Integer)
Size: 2

FIO2A

Description: FiO2 at time of PO2A if O2 via ETT or Head Box
Not measured or unknown = 999

Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: >=0.21 And <=1 Or 999
Type: Number (Single)
Size: 4

BEA

Description: Base Excess on admission
Not measured = 999

Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: >-40 And <50 Or 999
Type: Number (Single)
Size: 4

PIM_UC

Description: Underlying PIM Condition (from high risk diagnosis table)

0. None
1. Cardiac arrest out of hospital
11. Cardiac arrest in hospital (preceding ICU admission)
2. Severe combined immune deficiency
3. Leukemia or lymphoma after 1st induction
4. Spontaneous cerebral haemorrhage from aneurysm or AVM
5. Cardiomyopathy or myocarditis
6. Hypoplastic left heart syndrome
7. HIV infection
8. IQ <35, worse than Downs
9. Neurodegenerative disorder (progressive ongoing loss of milestones)
10. Liver failure (acute or chronic) is the main reason for ICU admission

Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: >=0 And <11
Type: Number (Byte)
Size: 1

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PIM_LR

Description: Low risk diagnosis (from low risk diagnosis table)
0. None
1. Asthma is the main reason for ICU admission
2. Bronchiolitis is the main reason for ICU admission
3. Croup is the main reason for ICU admission
4. Obstructive sleep apnoea is the main reason for ICU admission
5. Diabetic ketoacidosis is the main reason for ICU admission

Required: Yes
Registry Field Type: Core
Source Table: Data
Validation Rule: >=0 And <6
Type: Number (Byte)
Size: 1

HADM_DT

Description: Hospital Admission Date and Time
Format: General Date
Input Mask: 99/99/99\ 00:00;0;_
Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: >=#1/01/1995# And <=[ADM_DT] Or Is Null
Validation Text: Must be before or at the same time as ICU admission
Type: Date/Time
Size: 8

HDIS_DT

Description: Hospital Discharge Date and Time
Format: General Date
Input Mask: 99/99/99\ 00:00;0;_
Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: >=[DIS_DT] And <=Now() Or Is Null
Validation text: Must be after or at the same time as ICU discharge
Type: Date/Time
Size: 8

HOSP_OUT

Description: Hospital Outcome,
1= still in hospital,
2= died,
3= discharged home,
4= transfer to rehab hospital,
5= transfer to other hospital - ICU/NICU,
6= transfer to other hospital - ward,
999= unknown

Required: No
Registry Field Type: Optional
Source Table: Data
Validation Rule: 1 Or 2 Or 3 Or 4 Or 5 Or 6 Or 999 Or Is Null
Type: Number (Byte)
Size: 1

1ST_CONT

Description: Place of first contact between the pt & a Dr from your ICU or a specialist paediatric transport team,
1= your ICU,
2= in your hospital but outside ICU,
3= outside your hospital

Required: No
Registry Field Type: Optional
Source Table: Data
Type: Number (Byte)
Size: 1

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PIM_VAL

Description:	Are the values recorded those made at first contact with the patient 0= no 1= yes
Required:	No
Registry Field Type:	Optional
Source Table:	Data
Type:	Number (Byte)
Size:	1

COMMENTS

Description:	Optional explanatory/additional comments
Required:	No
Registry Field Type:	Optional
Source Table:	Data
Type:	Text
Size:	255

NOTES ON DATA DICTIONARY

Registry Field Type - Core:

All ICU's participating in the Registry agree to collect these fields.

Registry Field Type - Optional:

These fields are optional. Participating units decide whether or not to collect and submit these fields.

For example, **Hospital Outcome** is optional.

Required Fields:

These fields must be completed for all patient records. If the field is empty an error will be reported. For example **Primary Diagnosis** (PDX) is required for all patient records while **Associated Diagnoses** (ADX1 – ADX5) are not required for all patient records. For physiological fields, if a variable was not measured 999 should be entered.

Intubation and Respiratory Support Hours:

There are two alternative methods of recording this information. Note that the field structure of the database is the same for both methods.

Option 1: Recording dates and times

The date and time of starting and stopping intubation and respiratory support are recorded for the first two episodes. If more than two episodes of intubation and / or respiratory support are required during the admission, then the total hours of therapy that occur after the first 2 episodes should be recorded in I_ADHR for intubation and RS_ADHR for respiratory support.

Option 2: Recording total hours

The number of total hours (all episodes) of intubation is recorded in I_ADHR. The number of total hours (all episodes) of respiratory support is recorded in RS_ADHR. With this method the date and time fields for starting and stopping each therapy are left empty.

**Australian and New Zealand Paediatric Intensive Care Registry
Part I: Data Table Definitions**

EXPORT SPECIFICATIONS FOR DATA TABLE

File name:	ANZPIC_EXP.TXT
Format:	ASCII text file
Field Delimiter:	,
First Row:	Field names
Text Qualifier:	"
Date Order:	DMY
Date delimiter:	/
Time delimiter:	:
Date format:	Four digit years, leading zeros in dates
Decimal symbol:	.

**Australian and New Zealand Paediatric Intensive Care Registry
Part II: Clinical Indicator Event Table Definitions**

ICU_NO

Description:	ICU Number, First Patient in 2000 = 20000001
Required:	True
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	>1996000
Type:	Number (Long)
Size:	4

Event Date

Description:	Date event occurred
Format:	Short Date (dd/mm/yyyy)
Required:	Yes
Registry Field Type:	Core
Source Table:	Clinical Indicator table
Validation Rule:	>#12/31/96# And <Now()
Validation Text:	Date must be > 1/1/97 and < current date
Type:	Date/Time
Size:	8

UR_NO

Description:	Hospital medical record number
Ordinal Position:	3
Required:	Yes
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Type:	Text
Size:	10

Event

Description:	Clinical indicator event (# refer to detailed definitions below) 1= Inability to admit patient to ICU 2= Unplanned readmission to ICU within 48 hours of ICU discharge 3= Accidental extubation
Required:	Yes
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	1 Or 2 Or 3
Type:	Number (byte)
Size:	1

SPECIFIC FIELDS FOR INABILITY TO ADMIT PATIENT TO ICU

Admission Type

Description:	Admission Type (if event = 1) Planned = Booked ICU admission after elective surgery OR elective admission for ICU procedure OR elective medical admission for diagnostic monitoring OR elective admission for a home ventilation patient. Unplanned = All other admissions 1= planned, 2= unplanned
Required:	No
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	1 Or 2 Or Is Null
Type:	Number (byte)
Size:	1

Referral Source

Description:	Referral Source (if event = 1) 1= current inpatient (or planned admission) 2= referred from outside the hospital
Required:	No
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	1 Or 2 Or Is Null
Type:	Number (byte)
Size:	1

**Australian and New Zealand Paediatric Intensive Care Registry
Part II: Clinical Indicator Event Table Definitions**

Australian and New Zealand Paediatric Intensive Care Registry Part II: Clinical Indicator Event Table Definitions

Admission Outcome

Description:	Admission Outcome (if event = 1) 1= never admitted to ICU 2= admitted to another ICU area in your hospital 3= admitted to ICU in another hospital 4= admitted to your unit after admission postponed
Required:	No
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	1 Or 2 Or 3 Or 4 Or Is Null
Type:	Number (byte)
Size:	1

No of days

Description:	If event = 1 and Admission Outcome = 4 No of days before admission occurred
Required:	No
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Type:	Number (Integer)
Size:	21

SPECIFIC FIELDS FOR UNPLANNED READMISSION

Discharged to

Description:	ICU discharge destination (If event = 2) Was the patient discharged from ICU to an HDU? 0= no 1= yes
Required:	No
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	0 Or 1 Or Is Null
Type:	Number (byte)
Size:	1

Readmitted from

Description:	ICU readmission source (If event = 2) Was the patient readmitted to ICU from an HDU? 0= no 1= yes
Required:	No
Registry Field Type:	Optional
Source Table:	Clinical Indicator table
Validation Rule:	0 Or 1 Or Is Null
Type:	Number (byte)
Size:	1

ADDITIONAL DEFINITIONS

Inability to admit to ICU: This refers to an appropriate patient referred to an ICU who could not be admitted because of inadequate resources. Appropriate patient refers to a patient who would have been admitted to ICU if a bed was available, including cancelled elective admissions.

Unplanned readmission to ICU within 48 hours of ICU discharge: Refers to re-admissions for the same condition, a related condition or a complication of the condition for which the patient was previously admitted

HDU (High Dependency Unit): This refers to a dedicated area with capacity for multimodality monitoring and staffing with high nurse:patient ratios.

Accidental Extubation: This refers to endotracheal tube or tracheostomy but not nasopharyngeal tube.

Refer to ACHS Clinical Indicators Users' Manual for more detailed explanations and definitions.

**Australian and New Zealand Paediatric Intensive Care Registry
Part II: Clinical Indicator Event Table Definitions**

EXPORT SPECIFICATIONS FOR CLINICAL INDICATOR TABLE

File name: EVENT.TXT
Format: ASCII text file
Field Delimiter: ,
First Row: Field names
Text Qualifier: "
Date Order: DMY
Date delimiter: /
Time delimiter: :
Date format: Four digit years, leading zeros in dates
Decimal symbol: .