

INTRODUCTION

ANZDATA Registry 46th Report Annual Report 2023

Data to 31 December 2022

Australia and New Zealand Dialysis and transplant (ANZDATA) Registry

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ACKNOWLEDGEMENTS

ANZDATA Registry offers its most grateful appreciation to everyone who helped make this 46th Annual Report possible, especially the people living with kidney failure whose willingness to share their data helps us better understand and improve the outcomes of kidney replacement therapy in Australia and Aotearoa New Zealand. The Registry wishes to thank the staff of all the Renal Units and Tissue Typing Laboratories, upon whose reporting of data this enterprise ultimately depends.

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Australian Organ and Tissue Authority Australia



Australian Government Organ and Tissue Authority

New Zealand Ministry of Health



Kidney Health



SUPPORTED BY

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PREFACE

The ANZDATA Registry has great pleasure in presenting the 2023 Annual Report, covering data collected to the 31st of December 2022.

The material contained in this report reflects enormous time and effort from a large number of people. Clinical and administrative staff throughout renal units in Australia and New Zealand have spent time collecting and contributing information, despite increasingly onerous clinical responsibilities.

The report itself contains a wide variety of information but is only a small proportion of the output of the registry. A large number of analyses are performed for other purposes, including requests from individual contributors, health departments and hospitals. The data from ANZDATA is used in safety and quality reports, health service planning and clinical research. Many of these reports can be accessed through our website (<u>https://www.anzdata.org.au/anzdata/publications/</u>).

In addition, research activities (funded by NHMRC and other sources) continue to steadily grow. Registry based trials continue to expand. The SWIFT study (examining the effect of symptom reporting on quality of life among satellite hemodialysis patients) is well underway, as are TEACH-PD (examining the effect of standardized training on PD outcomes) and RESOLVE (high vs low dialysate sodium) continue.

Co-located with the ANZDATA registry are several other registries: The Australia and New Zealand Organ Donation Registry, The Australia and New Zealand Living Kidney Donor Registry and The National Indigenous Kidney Transplant Taskforce.

We are grateful to the funders of the registry: the Australian Organ and Tissue Authority, the New Zealand Government and Kidney Health Australia. We also acknowledge support from industry - an Investigator Initiated Grant from Baxter and contributions from Astellas.

In 2023, the Australian New Zealand Society of Nephrology also provided funding to support the epidemiology fellow position. This position will provide support for advanced trainees in nephrology, and the dialysis capacity survey (separately published).

Preparation of the report has been overseen by an editorial board led by Dr Philip Clayton.

The Registry operations are overseen by an executive committee. Registry operations are supported by the ANZDATA Advisory Committee (chaired by A/Prof Nick Gray), and a wide range of working groups. All these roles are honorary and are an important part of the network of links between ANZDATA and the nephrology community.

Consumer input also grows steadily, and in 2023 ANZDATA expanded input with a formally established Consumer Board led by Steven Shirley and Luca Torrisi.

Finally, we would like to thank the Registry Staff, led by Ms Kylie Hurst who continue to rise to the challenges of increasing complexity and workload.

Stephen McDonald Philip Clayton Georgina Irish

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- Philip Clayton Chair
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- Christopher Davies
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- Darren Lee
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- Solomon Menahem
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- Matthew Roberts
- Tina Sun

For individual chapter authors, please refer to the respective chapters.

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Daniela Potter	Member
Hemant Kulkarni	Member
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Amali Mallawaarachichi	Member
Andrew Mallett	Member
Hugh McCarthy	Member
Georgina Irish	Member
Eric Au	ANZDATA Epidemiology Fellow

GUIDELINES FOR DATA RELEASE

In 2017 ANZDATA undertook an extensive review and revision of its policies and procedures, including those related to data release. These procedures continue to evolve. The latest versions of these policies and procedures are available at our website: <u>https://www.anzdata.org.au/anzdata/services/data-policies/</u>

The following are our current data release principles. Please see our website for more information on how to request data from ANZDATA.

Encourage data use

• Data extracts will be made available to contributors of ANZDATA on request, provided evidence of appropriate expertise for analysis/interpretation is shown by the requestor.

Encourage efficiency

- Where adequate for a project, release of aggregate data (group level), is preferred to the release of individual line data.
- Only data fields required for analysis of the issues / questions identified in any given request will be released.

Protect data integrity

- Data sets released are only approved for use in the specified project, subsequent use for other projects will require further approval in consultation with the registry.
- Where individual line datasets are provided, responsibility for design, conduct and interpretation of analyses lies with the requestor. A disclaimer should be included in any publications arising from these data sets.
- Details of the database structure are available in the data set specification documents and ANZDATA are available to explain the structure of the data set.
- Although much effort is put into collecting and recording data accurately, as in any large database, there may be occasional errors, for which ANZDATA does not take responsibility.

Transparency

- ANZDATA will keep and show on its website a list of the data requests (the name of the requestor and the title).
- Where a subsequent request is received for a similar or overlapping area we will endeavour to identify requestors with similar or overlapping proposals, but cannot guarantee to do so.
- Where there are overlapping requests, data will not be released for the subsequent request within 6 months of provision of data for the original request.

Prioritize contributors and funders

• Priority for data access is given to ANZDATA contributors and funders. Where requests are received from external parties, collaboration with a contributor is strongly encouraged.

- Identification of a local contributor is essential for release of identified individual line datasets - this person then acts as the "guarantor" of appropriate use and interpretation of the data and analyses.
- For release of New Zealand individual line datasets, involvement of a New Zealand ANZDATA contributor is highly desirable and consultation with Māori may be appropriate.
- Individual line data will not be released to corporations. Where requests are received, these analyses are performed "in-house". These are generally performed on a cost recovery basis, taking into account other contributions to the Registry.

Ensure ethical research practices

- The requirement for ethics committee approval depends on the nature of the project. For many clinical audits this may not be required, but is appropriate for research studies.
- Formal ethics approval and oversight is mandatory for data linkage studies.
- Where the need for ethics oversight is unclear, the requestor will be asked to seek advice from their local health research ethics committees, external to ANZDATA.

Recognise custodianship of linked data from external sources, and other modes of data collection

- Australian transplant waiting list and some other transplant data are supplied by OrganMatch Service. Approval for use of this data outside the terms stipulated in the joint memorandum of understanding is required from OrganMatch, in addition to ANZDATA.
- New Zealand transplant waiting list and some other transplant data are supplied by the New Zealand Blood Service (NZBS). Approval for use of this data outside the terms stipulated in the joint memorandum of understanding is required from the New Zealand Transplant Leadership Team, in addition to ANZDATA.
- Data arising from specifically funded projects (including trial datasets and Sharesource linked PD datasets) is only available subject to approval by the named investigators.

ATTRIBUTION OF PUBLICATIONS

Where a member of a participating unit has analysed data provided by ANZDATA and subsequently prepared a manuscript, then "ANZDATA Registry" should be acknowledged as a secondary institution in addition to the author's Hospital or University. This applies whether the primary data analysis is performed by the author or by ANZDATA staff. Where the author is an ANZDATA office holder or staff member then the primary attribution should be "ANZDATA Registry".

Where ANZDATA data is only a minor portion of the work, then it may be more appropriate to acknowledge the source explicitly in the "Acknowledgements" section.

In both cases the disclaimer on below of this report should be included.

In all cases the source and treatment of the data should be made clear in the "Methods" section. Preferably the abstract (and keywords if applicable) should also include "ANZDATA" which would allow for searching Registry publications.

SUGGESTED CITATION

An example of a suggested citation for this report is as follows:

M Roberts, C Davies, E Au, S Bateman, J Chen, K Hurst, G Irish, D Lee, H McCarthy, S McDonald, W Mulley, T Sun, P Clayton. 46th Report, Chapter 4: Haemodialysis. Australia and New Zealand Dialysis and Transplant Registry, Adelaide, Australia. 2023. Available at: <u>http://www.anzdata.org.au</u>

REQUESTS OF ADDITIONAL DATA

Not Included in the Annual Report

ANZDATA is committed to acting in accordance with Australian and New Zealand national privacy principles, and is open and transparent about the collection, management and usage of information. Details regarding the principles and policies guiding data requests to the Registry can be found at <u>https://www.anzdata.org.au/anzdata/services/data-policies/</u>.

Publications based upon ANZDATA Registry information reported here or supplied upon request, must include the citation as noted above and the following notice:

The data reported here have been supplied by the Australia and New Zealand Dialysis and Transplant Registry. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Dialysis and Transplant Registry.

DEFINITIONS AND METHODS

A number of definitions given below are used throughout this report unless otherwise stated.

1. Wording

Throughout this report 'treatment' refers to kidney replacement therapy (KRT), including haemodialysis, peritoneal dialysis (PD) and transplantation. In places the word "graft" (or "allograft") is used for kidney transplant.

HD = haemodialysis CAPD = continuous ambulatory peritoneal dialysis APD = automated peritoneal dialysis ESKD = end stage kidney disease

2. Data collection

ANZDATA collects information from all renal units in Australia and New Zealand. Data collection occurs at two time points. Key events (new patients, deaths, transplants) are notified as they occur, with units requested to send this at least monthly. An extensive cross-sectional survey is then performed annually (for data to 31st December). Data submission can occur either via a web-based interface or paper submission. Once the data has been entered it is validated for consistency and to reduce missing values. For kidney transplants, HLA typing and panel reactive antibodies are obtained direct from OrganMatch and the New Zealand Blood Service. Monthly summaries are distributed to the contributing units. Results contained in this report are based on a final database locked and prepared after the end of year survey returns are received.

3. Inclusion criteria

Included in the Registry are all patients resident in Australia or New Zealand receiving kidney replacement therapy where the intention to treat is long-term, i.e. medical opinion is that kidney function will not recover. Cases of acute kidney injury are excluded. People who move overseas permanently are censored at date of last treatment (or departure in the case of transplant recipients).

4. Modality attribution

When analysing survival by dialysis modality (HD or PD), transfers between modalities are not analysed if less than 30 days.

5. Underlying kidney disease

This is recorded by the treating hospital according to the updated European Renal Association/European Dialysis and Transplantation Association (ERA-EDTA) categories (since 2022), with primary diseases that were reported prior to 2022 using a modified EDTA coding system mapped to these updated categories (details on back of survey form).

6. Deaths

Death rate is predominantly reported as number of patients died/total number of years of treatment of all patients treated at any time during the year. It is expressed as deaths per 100 patient years (pt yrs) at risk.

7. Comorbid conditions

These are recorded by the treating hospital. No formal definitions are supplied; the treating clinician is asked to record whether the patient has coronary artery disease, chronic lung disease, cerebrovascular disease, peripheral vascular disease or diabetes according to their clinical opinion on a yes / suspected / no basis.

8. Transplant Waiting List

The active transplant waiting list is based on data from OrganMatch (Australia) linked probabilistically with ANZDATA.

9. Derived measures

9.1 Haemoglobin

Haemoglobin is recorded as the last available measurement before the end of the survey period.

9.2 Erythropoietic agents

Erythropoietin agent use is recorded as "yes" if these agents were used at any time during the survey period.

9.3 Iron studies

Iron studies are requested within the last three months of the survey period.

9.4 Estimated glomerular filtration rate

Where glomerular filtration rate is estimated from serum creatinine at entry or post transplantation, the CKD-EPI formula is used:

Females with Cr<=62 micromol/L: eGFR = (144 + 22 if black) x (Cr*0.0113/0.7)^-0.329 x 0.993^age

Females with Cr>62 micromol/L: eGFR = (144 + 22 if black) x (Cr*0.0113/0.7)^-1.209 x 0.993^age

Males with Cr<=80 micromol/L: eGFR = (141 + 22 if black) x (Cr*0.0113/0.9)^-0.411 x 0.993^age

Males with Cr<=80 micromol/L: eGFR = (141 + 22 if black) x (Cr*0.0113/0.9)^-1.209 x 0.993^age

Where Cr is creatinine in micromol/L and age is age in years. The correction for "black" race, based on US data, is not applied to any patients.

9.5 Urea reduction ratio / Kt/V

Results are requested in one of these formats, using the stop flow method on a mid-week dialysis. Single pool Kt/V is collected, along with the method used. For conversion of URR to Kt/V urea the formula used ^[2] is Kt/V = 0.023^{*} PRU - 0.284 (note that PRU = percent reduction in urea and not URR).

9.6 Body mass index

Body mass index (BMI) is calculated as weight (kg)/ (height (m))². The categories used for adults are: underweight <20 kg/m², normal 20-24.9 kg/m², overweight 25-29.9 kg/m²,

obese ≥30 kg/m². For paediatric patients ageadjusted z-scores are used to categorise BMI.

9.7 Peritoneal dialysis measures

These are the standard measures, often calculated by computerised patient management programs.

9.7.1 Residual renal function

The measure used is the arithmetic mean of urea and creatinine clearance from a

24-hour urine collection and serum creatinine and urea.

9.7.2 Peritoneal equilibration test

The ratio of dialysate to plasma glucose is used, following a 4 hour dwell of a 2 litre 2.5% bag of dialysate, performed within 6 months after initiation of peritoneal dialysis.

10. Rates and Measures

10.1 Incidence rates

Except where otherwise stated, quoted incidence rates are per calendar year, and are expressed per million population.

10.2 Prevalence rates

Except where otherwise specified, prevalence rates are point prevalence rates at 31st December 2022.

10.3 Population denominator

All populations used in this report were stratified by age and sex.

Australian populations were taken from the Australian Bureau of Statistics (ABS) and New Zealand populations were taken from Stats NZ.

All estimated and projected populations used for Australia and New Zealand were for 30 June of each year, and all websites were accessed 20 December 2022 for analysis of the annual 2022 locked dataset.

Estimated population data for each Australian state and territory came from ABS 3101.0 series ⁽³⁾

Projected population data for each Australian state and territory came from ABS 3222.0 series ⁽⁴⁾

Population data for Indigenous Australians were taken from ABS 3238.0⁽⁵⁾, using series A for populations after 2011.

Populations serviced by the Greater Southern Area Health Service were estimated by the South Eastern Region of NSW. These estimates were taken from ABS 3235.0⁽⁶⁾.

All New Zealand population estimates were taken from Stats NZ Infoshare⁽⁷⁾ and population projections were taken from NZ.Stat⁽⁸⁾. Maori populations were taken from NZ Infoshare Maori population estimates⁽⁹⁾.

Estimates of resident populations by other ethnicities were taken from Stats NZ⁽¹⁰⁾ for years 2013 onwards.

10.4 Death Population Data

All Australian death data were taken from ABS 3302.0 series⁽¹¹⁾. Death data is not available for publications by age and sex on ABS website for some states. Overall data by states and territory is used. New Zealand death data were taken from NZ Infoshare⁽⁷⁾.

10.5 Survival rates

For transplant recipients, survival rates exclude those who were transplanted overseas or were recipients of multiple organ grafts.

Rates for patient survival for fixed periods for transplantation are calculated according to the life-table method and thus include an adjustment to the risk-set of ½ of those censored without failure over the interval to create an "average" risk set.

10.6 Graft survival

For outcomes of kidney transplants, graft failure includes both loss of graft function (i.e. return to dialysis) and death of patients (with graft function). Calculations of patient survival for transplant recipients includes all subsequent modalities (i.e. deaths after graft failure are included). Patients transplanted overseas are excluded from calculations.

10.7 Dialysis Survival

Patients are followed up until they are either transplanted (at which point they are censored) or until they have a 'permanent' change of dialysis modality or until death or most recent follow up date.

10.8 Peritonitis Survival

Peritonitis survivals are calculated from first peritoneal dialysis (ignoring all earlier treatments) to date of first peritonitis episode. If there were no episodes of peritonitis then calculation is censored at change of treatment from peritoneal dialysis to haemodialysis or transplantation. Peritoneal dialysis includes automated peritoneal and continuous ambulatory peritoneal dialysis. Excluded are patients who had peritonitis before commencing peritoneal dialysis.

10.9 Death and other event rates

Rates are expressed per 100 person years at risk (unless otherwise stated). Some analyses include survival of all patients, others exclude the first 90 days of follow up. This is stated in the individual analyses.

10.10 Age standardisation

All rates are crude, not age-standardised. The age distribution of the populations for Australia and New Zealand can be obtained by contacting the Registry.

10.11 Peritonitis rates

Peritonitis rates are present using episodes of peritonitis reported during periods of peritoneal dialysis - episodes reported prior to commencement of peritoneal dialysis (for example between Tenckhoff catheter insertion and commencement of peritoneal dialysis) are not included in these calculations.

11. Database

Data is stored on a relational database using SQL Server 2019.

12. Statistics

Statistical analyses were performed using Stata version 18.

13. References

- Levey AS, Stevens LA, Schmid CH, Zhang YL, Castro AF, Feldman HI, et al. A new equation to estimate glomerular filtration rate. Ann Intern Med. 2009 May 5;150(9):604-612.
- Basile C, Casino F, Lopez T: Percent reduction in blood urea concentration during dialysis estimates Kt/V in a simple and accurate way. Am J Kidney Dis 1990: 15;40-45.
- <u>https://www.abs.gov.au/statistics/people/population/</u> national-state-and-territory-population/jun-2022
- <u>http://www.abs.gov.au/AUSSTATS/abs@.nsf/</u> DetailsPage/3222.02017%20(base)%20to%20 2066?OpenDocument
- <u>https://www.abs.gov.au/statistics/people/population/</u> regional-population-age-and-sex/latest-release
- <u>http://archive.stats.govt.nz/infoshare/</u>
- <u>http://nzdotstat.stats.govt.nz/wbos/Index.aspx#</u>

CONTRIBUTING UNITS ACROSS AUSTRALIA & NEW ZEALAND

Parent hospitals, transplanting unit and satellite dialysis units together with their state and unit codes are listed below.

In some cases, these have combined as part of a regional network and this is also indicated. The definition of a 'parent hospital' is a pragmatic one and refers to units which offer a full range of dialysis services (i.e. can commence patients on dialysis, have on-site nephrologist presence and can deal with patients of all degrees of complexity). In contrast, satellite units provide haemodialysis treatments to selected patients, usually with lower staff ratios and no nephrologist on site.



Country	Code	Name
	AUCK	Auckland City Hospital
	BYPL	Bay Of Plenty Renal Unit
	CHCH	Christchurch Hospital
NZ	DUDN	Dunedin Hospital
	HAWK	Hawkes Bay Hospital
	MIDM	Middlemore Hospital
	PALM	Palmerston North Hospital
	STAR	Starship Children's Hospital
	TARA	Taranaki Hospital
	WKTO	Waikato Hospital
	WMAT	Waitemata Renal Service
	WELN	Wellington Regional Hospital
	WHAN	Whangarei Hospital

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Dialysis Centres

State C <u>ode</u>	Code	Name
	BUND	Bundaberg Hospital
	CAIR	Cairns Hospital
	RCPR	Cairns Private Hospital
	CHER	Chermside Dialysis Centre
	CARS	Child and Adolescent Renal Service
	COOK	Cooktown Satellite Hospital
	GCPR	Gold Coast Private Hospital
	GOLD	Gold Coast University Hospital
	GREN	Greenslopes Private Hospital
	HERV	Hervey Bay Hospital
	IPSW	Ipswich Hospital
	FLYN	John Flynn Private Hospital
	MACK	Mackay Base Hospital
	QMAT	Mater Hospital, Brisbane
	MTOW	Mater Hospital, Townsville
	MYFD	Morayfield B.Braun Renal Care Centre
	MTIS	Mount Isa Base Hospital
QLD	NPRV	Nambour Selangor Private Hospital
	NLKP	North Lakes Dialysis Centre
	PIND	Pindara Renal Unit
	PSAH	Princess Alexandra Hospital
	QRTS	Queensland Kidney Transplant Service
	ROCK	Rockhampton Hospital
	RBSH	Royal Brisbane And Women's Hospital
	STIP	St Andrew's Ipswich Private Hospital
	GSTA	St Andrews Toowoomba B.Braun's
		Dialysis Clinic
	SCUH	Sunshine Coast University Hospital
	SCPR	Sunshine Coast University Private Hospital (Ramsay)
	WSLY	The Wesley Hospital Brisbane
	THUR	Thursday Island Hospital
	TWMB	Toowoomba Hospital
	ТСКН	Torres & Cape Kidney Health
	TOWN	Townsville University Hospital
	BATH	Bathurst Base Hospital
	COFF	Coffs Harbour Hospital
	CONC	Concord Repatriation General Hospital
	DURR	Dubbo Base Hospital
	GOSF	Gostord Hospital
	GREG	Gregory Hills B.Braun Renal Care Centre
	GRIF	Griffith Base Hospital
	HUNT	John Hunter Hospital
NSW	LISM	Lismore Base Hospital
	LVPR	Liverpool Private Dialysis Centre
	MANN	Manning Rural Hospital
	MATR	Mater Hospital, North Sydney
	MAYO	Mayo Private Hospital
	NEPN	Nepean Hospital
	NCAS	Newcastle Dialysis Centre
	ORAN	Orange Health Service
	PTMQ	Port Macquarie Base Hospital
	PMPH	Port Macquarie Private Hospital

State Code	Code	Name
Could	RNSH	Roval North Shore Hospital
	RPAH	Royal Prince Alfred Hospital
	SSYD	South West Sydney Renal Service
	STGH	St George Hospital
	STVI	St Vincent's Hospital Sydney
	LPDC	St Vincent's Lismore Private Dialvsis
		Centre
	STVP	St Vincent's Private Hospital Sydney
NSW	SADV	Sydney Adventist Hospital
	SCHL	Sydney Children's Hospital
	TAMW	Tamworth Hospital
	CHWM	The Children's Hospital At Westmead
	POWH	The Prince Of Wales Hospital
	TWHD	Tweed Valley Hospital
	WAGG	Wagga Wagga Base Hospital
	WEST	Westmead Hospital
	WGNG	Wollongong Hospital
ACT	ACSN	Access Nephrology
	CANB	Canberra Hospital
	ALFD	Alfred Hospital
	AUST	Austin Hospital
	BEND	Bendigo Hospital
	GDIA	Diamond Valley B.Braun Renal Care Centre
	EHRS	Eastern Health Integrated Renal Services
	EPWE	Epworth Eastern Hospital
	EPGL	Epworth Geelong Hospital
	EPWT	Epworth Richmond Hospital
	FORE	Forest Hill Dialysis Centre
	MALV	Malvern Dialysis Centre
	MMCP	Monash Childrens Centre
VIC	MMCA	Monash Medical Centre
	NMDC	North Melbourne B.Braun Renal Care
	MARM	Northern Health Service Melbourne
	PCHI	Royal Children's Hospital
	SVIN	St Vincent's Hospital Melbourne
	SNSH	Sunshine Private Dialvsis Centre -
		Fresenius
	RMBH	The Royal Melbourne Hospital
	GLNG	University Hospital Geelong Barwon Health
	WSTH	Western Health Service
	LAUN	Launceston General Hospital
TAS	RHBT	Royal Hobart Hospital
	CNAR	Central Northern Adelaide Renal Service
SA	FMDC	Flinders Medical Centre
V /1	WCHL	Women's And Children's Hospital
NIT	ALIC	Alice Springs Hospital
NT	DARW	Royal Darwin Hospital
	FSTH	Fiona Stanley Hospital
WA	PCHL	Perth Children's Hospital
	RLPT	Royal Perth Hospital
	SCGH	Sir Charles Gairdner Hospital

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ACESS IN USE <u>At First HD</u> - First Haemodialysis at any time. <u>At Last HD</u> - Enter for all patients on Haemodialysis at any time during the survey. Enter the procedure closest to the end of the survey, change to PD, transplantation, or death.

The initial drug dove (at serv months) is the **first crail maintenance** dose, do NOT enter the intravenous loading doses administered at or shortly after transplantation. Printed on : 23/11/23

Only those drugs taken at the listed intervals should be entered; where necessary provided the dose recorded on the closest day proceeding the requested time interval.

BACK TO CONTENTS

		ANZDATA Registry Peritonitis Episode Form							orm PF
This form is additional to the main data form (Form A3) and is completed during the survey period									
REGISTRY NO	CURRENT HO	SP SURNAME		ing u	GIVEN NA	MES		DATE OF B	RTH
In the DATE OF INFE	SURVEY PERIO	For <u>each (</u> od, indicate PSE OR RECU	pisode ente the number RRENCE?	r a sep of per	N = No L = Relap C = Recu	eritonitis Episode bisodes on the m RELAPSE = antibiotics w regative epi RECURREN of antibiotics	Peritonitis wit Peritonitis wit ith the same o sode ICE = Peritonit with a differen	y Form (form) thin 4 weeks of com rganism and/or a co tis within 4 weeks o nt organism	A3) pletion of iture
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3 4								-	
5									
ANTIBIOTICS	(Do not enter de	oses)				Antifungal Therapy		Y = Yes	
Please select a	II drugs from the	codes list on th	e back of this fo	rm				N = No	
DRUG TREAT	MENTS	FIRST	OTHER		SECOND	OTHER	THIRD	OTHER	
a) Initial Regin	nen								
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oj rinal Antibi	ouc negimen								
		Date Of La	st Dose						
PD SOLUTION	IS AT TIME OF	INFECTION	Y = Yes N = No						
GLUCOSE	ICODEXTRIN	LOW GDP	OTHER (SPECIFY						
OUTCOME									
Overnight Hos	pitalisation	Number o	f Nights						
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Catheter Rem	oved	L							
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N	NO NO								
Interim HD	- Vee	First Dialysis	Date						
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Permanent HF	,					-			
Y=	Yes								
N =	- 190								

Code I Organism 1-Cuture Negatism 2-Coas - Neg Staph, Staph Epidermidis 2-Coas - Neg Staph, Other (Speetly) 4-Coas - Neg Staph, Unknown 5-Staphylococcus Aureus, Mchildille Resistant 6-Staphylococcus Aureus, Mchildille Resistant 6-Staphylococcus Aureus, Mchildille Resistant 9-Streptococcus Aureus, Mchildille Resistant 9-Streptococcus, Unknown 11-Enterococcus, Unknown 11-Enterococcus, Unknown 11-Enterococcus, Unknown 11-Enterococcus, Unknown 11-Enterococcus, Unknown 11-Garan Positive Organism, Other (Specify) 13-Grann Positive Organism, Othernown 15-Peaudomonas Aeruginosa	Code I Antibiotic I Janikacin Janika
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17=Pseudomonas Cepacia	18=Ceftizidime
18=Pseudomonas Stutzer	19=Ceftizoxime
20=Pseudomonas, Other (Specify)	20=Ceftriaxone
21=Pseudomonas, Unknown	21=Cefuroxime
22=Acinetobacter Sp	22=Cephalexin
23=E. Coli	23=Cephalothin
24=Klebsiella Sp	24=Cephradine
25=Enterobacter Species	25=Ciprofloxacin
26=Serratia Species	26=Clindamycin
27=Proteus Species	27=Cloxacillin
28=Citrobacter Species	28=Dicloxacillin
29=Other Enterobacteria (Coliforms)	29=Erythromycin
3U=Neissena Sp	30=Fleroxacin
31=Gram Negative Organisms, Other (Specify)	
32=Gram Negative Organisms, Unknown	
33=Anaerobic Bacteria 24-Condido Albiopeo	
34=Candida Albicans	
25=Candida, Other (Specify)	
27-Musebastarium Tubaraulasia	
38-Mycobacterium, Other (Specify)	
39-No Culture Taken	
40-Other Organism (Specify)	
41=Roseomonas Gilardii	
99=Not Reported	
** If other Antibiotics or organisms a	re identified, contact the Re

ANTIBIOTICS (cont.)

Code I Antibiote
 Code

add to the list.

Version 2020.3.0.10

REGISTRY NUMBER			SURN	AME		GIVE	NAMES	CURR	ENT HOSPIT	AL / STATE		
GRAFT	TYPE OF (CANCER	SITE OF	CANCER	OFFICE	GRAFT	TYPE OF CANC	CER SIT	E OF CANCER	OFFICE		
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TYPE OF CANCER	DATE OF LEA	ла с ж	ANCER SITE (Write In)	CANCER STAGE AT DIAGNOSIS	TREATMENT TYP	FIRST LOCAL	DATE OF METASTASES	DATE FIRST LOCAL RECURRENCE	THIS CANCER CAUSED OR CONTRIBUTED TO RENAL FAILURE	THIS CANCER CAUSED OR CONTRIBUTED TO DEATH		
LISTA				LIST B	LISTC	NODES	SITE)		YES / NO	YES / NO		
PRIMAR	Y SKIN TU	MOURS	- ENTER (ONLY IF HI	STOLOGIC	ALLY PR	OVEN					
Date of <u>E</u> TYPE OF	<u>irst</u> Diagnosi skin cancer	DATE C	Type of Ski	SNOSIS OF E	hen on a Tre ACH CANCER	eatment N TYPE IN	DATE OF N	ialysis, On I	Dialysis, Pos	It Graft Tx) HIS TYPE OF CANCER		
Do not enter Bowen's Disease, Kerabacanthoma, Solar Kerabala or Niperkeatosia PREENTRY TO PROGRA		IV TO ESRF	ON DIALYSIS	POST TR	IANSPLANT	FIRST TO LOCAL LYMPH NODES	FIRST SYSTEMIC (TO ANY OTHER SITE)		CAUSED OR CONTRIBUTED TO DEATH YES / ND			
BASAL CEL	L (BCC)											
QUAMOUS	S CELL (SCC) ecify)											
A' TYPE O	F NON SKIN CA	NCER				'B' HIST	OLOGICAL STAGING		TYPE OF TREA	TMENT		
1 Unkno	own					1 Unk	nown	1	None			
2 Squar	mous Cell (SCC)					2 ln S	itu	2	2 Unknown			
4 Trans	itional Cell (TCC)				4 Reg	ional Lymph Nodes	3	3 Local Excision			
5 Lympi	homa (Non Hod	kins) (Pleas	e forward hist:	ological report)		5 Dist	ant Metastases	5	Wide Excision	and Node Dissec		
6 Leuka	emia (Specify T	ype)				CERVIC	AL CANCER	9	Radiotherapy			
7 Other 8 Kanor	(Specity) si Sarcoma					6 Cen	vical Cancer - Cin 1	10	10 Chemotherapy			
9 Micro	glioma of Brain (Please forwa	rd histological	report)		7 Cervical Cancer - Cin 2 11 Immune Stimulant						
10 Multip	le Myeloma					 Cervical Cancer - Cin 3 (Equivalent to SCC In Situ) 12 Reduction of I/S Drugs 						
11 Hodgi	kin's Disease (Pl	ease forward	I histological n	eport)		9 Cervical Cancer - Micro-Invasive 13 Other (Specify)						
12 Lympi 13 Melan	nopromeranve D noma	isease (Fiea	se iorward his	ulogical report	J	10 Cen	Acai Cancer - Invasive					
Comments	<u>a -</u>											

A.A.
ANZ
DATA

ANZDATA Registry **Paediatric Survey Form**

Form PA

on 2020.3.0.10

This form is additional to the main Registry Survey Form. Please complete this form for any patient under the age of 15 years. Data collection is complete when patient turns 18 years of age.

	1	ITIAL HOSPITA	L	ENT PARENT H	THOSPITAL					
Re	gistry No.	Hospital	Hospita	al Unit No.		Hospital	Hos	spital Unit No	o. Ph	ysician
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PAED	IATRIC ASSE	SSMENT COD	ES							·
101	Enrolled in ma	instream School	and in mainstr	eam Class						
102	Enrolled in ma	instream School	but special nee	eds Class or h	as Teac	her's Aid				
103	Enrolled in sp	ecial needs Schoo	l							
104	Home Schoole	ed								
105	Preschool Chi	ld								
106	Left School - F	Full or Part Time V	Vork							
107	Enrolled in Te	rtiary Education								
108	Left School - I	Jnemployed								

- HISTORIC PAEDIATRIC ASSESSMENT CODES (Not active; Codes used prior to Survey 70 2019)

 1
 Attends School Full Time In Class Appropriate For Age

 2
 Attends School In Class Appropriate For Age But Attendance Limited By Dialysis Schedule

 3
 Attends School In Class Appropriate For Age

 4
 Attends Achool For Myacity Handicapped Children

 5
 Attends School For Myacity Handicapped Children

 5
 Attends School For Developmentally Handicapped Children

- 91 92 93 94 95 96 97 98 99
- Attentos Sonorio Caracia, Medically Unit Medically Unit Merschool Child Left School Full Or Part Time Work (Inc Further Study) Left School Unemployed

Version 2020.3.0.10

REGISTRY NO	CURRENT HOSPITAL	SURNAME				GIVE	N NAMES	<u>3</u>	
Please cor	mplete this form fo	r any patient with a Pa	renthood C	Outcor	ne duri	ng the s	survey p	eriod.	
	nn sides of Form (PH) for Female patients	s and tirst j	bage (only tor	waie pa	tuents.		
REGNANCY OUTCO	ME aneous Abortion (<20	weeks)	RENAL FI	UNCTI	DN Creatini	ne (µmoi	<i>nL)</i>		
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in weeks	Best clinical estimate)		3 Months Post Delivery (only females with transplant)						
ONCEPTION	OF CONCEPTION (if	accurately known)	Y=Yes I N	AZA	ESSION J=Unkno Pred	AT COM	MMF	N Sirol	Other
A=Assiste O=Other U=Unknot	Fertilisation (IVF) d Reproduction (not I) wn	/F)							
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ongenital Abnormal	ity	Y=Yes I N=No I U=Unkn (Specify below if known)	own						
oetal Gender		M=Male F=Female U=	=Unknown						
eonatal Survival >28	3 Days	Y=Yes N=No E=Not A	pplicable						
OMMENTS									



ANZDATA Rejection This Form is additional to t REGISTRY NO CURRENT HOSPITAL SURNAM	Registry Form RE	ANZDATA Registry F Surgical Details Form (Transplant Anastomosis) This form is additional to the main data form	orm 3U
In this survey period, indicate the n DATE OF THIS REJECTION WAS A BIOPEY PERFORMED IF BIOPSY PERFORMED If FBIOPSY PERFORMED What type of rejection did the biopsy show? Please complete all N = No Antibody Mediated Y = Yes Darro Specific 2 = D Novo 3 = Phe-transplant & De Novo 4 = No DSA detected PRIMARY TREATMENT OF THIS REJECTION Tool		This form is additional to the main data form Please complete this form as close to the time of the kidney transplant or poperatively. Send data to the AKZDATA Registry bifax +61 8 8128 4769 or scan and email to anddata@anzdata.or AKZDATA Patient ID Or returnsplant or poperatively. Patient Surmane Right Colspan="2">Colspan="2"Colspa=	<u>p.au</u>
Sequential codes may be used eg: C F F B = Introduction Or Increased Dose Of Steroids C = Introduction Or Increased Dose Of Steroids D = Oxylocal / Monochan Therapy Alone * E = Introduction Or Increased Dose Of Steroids G = Introduction Or Increased Dose Of Tacrolinus G = Introduction Or Increased Dose Of Tacrolinus G = Introduction Or Increased Dose Of Tacrolinus H = Introduction Or Increased Dose Of Tacrolinus L = Personatherapic H = Introduction Or Increased Dose Of Strolinus L = Personatherapic	For all Monoclonal / Polycional therapies, enter agent & number of doses given. Code Given For a function of the set of	Cava Extension Yes No Aortic Patch Yes No Anastomosis Time Anastomosis time is the time from removal from ice to repertusion of the kidd about include any time after removal from ice to repertusion of the kidd about include any time after removal from ice to repertusion of the kidd about include any time after removal from ice to repertusion of the kidd about include any time after removal from ice to repertusion of the kidd about include any time after removal from ice to repertusion of about include any time after removal from ice to repertusion of about include any time after removal from ice to repertusion of the interval from iteration of the interval from iteration of about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval from iteration of the interval about the interval from iteration of the interval from iteration of the interval about the interval from iteration of	ney. This ion is used ' the
I = Pleamaphrensis J = Intravenous Immunoglobulin * Z = Other (Spearly) EESPONSE OF THE RELECTON TO TREATMENT A = Reclusion of rejection with insurvane of organity and C = Resolution of rejection with insurvanement of organity and C = Resolution of rejection but with insingnovement of organity E = Inadequals control of rejection with insurvanement of organity with F = Rejection of rejection but with insingnovement of organity E = Inadequals control of rejection with insurvane of grant with F = Rejection of rejection but with insingnovement of organity E = Inadequals control of rejection with insurvane of grant with F = Rejection of rejection but with insingnovement of organity E = Inadequals control of rejection with insurvane of grant with F = Rejection of rejection but with insingnovement of organity E = Inadequals control of rejection with insurvane of grant with F = Rejection of rejection but with insingnovement of organity E = Inadequals control of rejection with insurvane COMMENTS	rengiordion lovels of latter on bit not to pre-rejection twels It function with serum creatinine less than 250 unoil(. It nuclein with serum creatinine greater than 250 unoil). It not not the serum creatinine greater than 250 unoil.	Assessment codes Antrait Codes Done Relationship to Recipient 1-Common Illiar Artery (CA) 000-Becassed 000-Wite 2-betamal liar Artery (CA) 000-Becassed 000-Wite 301-Build and Artery (CA) 000-Background and Ond-Background and Ond-B	g list (exchange hange acify)

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INTRODUCTION

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