



These definitions apply throughout this report unless otherwise stated.

## 1. Wording

Throughout this report 'treatment' refers to renal replacement therapy, including haemodialysis, peritoneal dialysis and transplantation

HD = haemodialysis

CAPD = continuous ambulatory peritoneal dialysis

APD = automated peritoneal dialysis

ESRD = end stage renal disease

## 2. Data collection

ANZDATA collects information from all renal units in Australia and New Zealand every 6 months. Currently this is by a paper-based system, with manual completion of the form and manual data entry. No formal audit mechanism is in place at this stage.

For transplants, HLA matching is obtained direct from the Tissue Typing laboratories in each State.

## 3. Inclusion criteria

Included in the Registry are all patients receiving renal replacement therapy where the intention to treat is long-term, i.e. medical opinion is that renal function will not recover. Cases of acute renal failure 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

The initial mode of dialysis is determined at 90 days after first treatment, to allow for early changes and maturation of access. Other transfers (between modalities, or from satellite to hospital HD etc.) are not analysed if less than 30 days, except for transfers between dialysis centres to which a 60 day rule is applied to allow for holiday movements.

## 5. Underlying renal disease

This is recorded by the treating hospital according to a modified EDTA coding system (details on back of survey form).

## 6. Deaths

Deaths are coded by the treating hospital using a modified EDTA coding system (details on back of survey form). Where a recent change in location or modality preceded death, the death is attributed to the modality / location at time of death, although some analyses differ and this is stated. All deaths following transplant surgery are attributed to transplantation.

## 7. Co-morbid conditions

These are recorded by the treating hospital. No 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 includes listing at any stage during the survey period.

## 9. Derived measures

### 9.1 Haemoglobin

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

### 9.2 Erythropoietin

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 creatinine clearance

Where creatinine clearance is estimated from serum creatinine at entry or post transplantation, the Cockcroft-Gault equation is used [1].

$$Cl_{Cr} = (140 - \text{age}) * \text{weight} / (814 * Cr_{\text{serum}}) [*0.85 \text{ if female}]$$

The weight term used for this is lean body mass, calculated using the equation  $LBW = (0.9 * [\text{height} - 152]) + (50 \text{ if male, } 45.5 \text{ if female})$ .

### 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

$$Kt/V = 0.023 * PRU - 0.284 \text{ (note that PRU = percent reduction in urea and not URR).}$$

**9.6 Peritoneal Dialysis measures**

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

**9.6.1 Residual renal function**

The measure used is the arithmetic mean of urea and creatinine clearance from a 24-hour urine collection and serum creatinine & urea.

**9.6.2 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 PD.

**10. Rates & Measures****10.1 Incidence rates**

Except where otherwise 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 31 December 2001.

**10.3 Population denominator**

The population estimates used are the estimated resident populations (ERP) for the year 2001, released by the Australian Bureau of Statistics and Statistics New Zealand. Figures used are those for the June quarter.

For both countries, the statistics bureau record indigenous status on a self-identification basis.

For Australia, there has been considerable change in the propensity to self-identify as indigenous, such that a number of estimates are released by the ABS [3]. For this report, the low range projections have been used.

In both Australia and New Zealand, national population censuses have been carried out in 2001 which will provide an opportunity to verify the ERP's.

**10.4 Survival rates**

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

Graft survival (unless otherwise qualified) includes both cessation of graft function (i.e. return to dialysis) and patient death.

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

**10.5 Death and other event rates**

Rates are expressed per 100 person years at risk (unless otherwise stated).

**10.6 Age standardisation**

All rates are crude, not age-standardised. The age distribution of the population is given in Appendix I.

**11. Comparative measures**

In addition to the usual measures, included are a series of specific rates agreed on as an effort to harmonise reporting between ANZDATA, the UK Renal Registry and the Canadian Organ Replacement Registry. These include incidence, prevalence and transplant rates for age ranges 25-45, 45-65 and 65+ years. In addition we also report 12 month mortality for the cohort who survived 90 days after ESRD entry (i.e. mortality at 455 days after ESRD entry). These are presented in Appendix I.

**12. Database**

Data is stored on a relational database using ORACLE version 8I.

**13. Statistics**

Statistical analyses were performed using SPSS release version 10.0.7 and Stata version 7.0.

**14. References**

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**AUST. & N.Z. DIALYSIS AND TRANSPLANT SURVEY**

**THIS SECTION FOR ALL PATIENTS**

REGISTRY NUMBER 1 INITIAL HOSPITAL (Hospital/State Hosp. Unit No. Hosp. Unit No. Hospital/State) CURRENT PARENT HOSPITAL (Hospital/State Hosp. Unit No. Hospital/State) 4 SEX (M/F)

2 SURNAME (Given Names) 3 DATE OF BIRTH (YY MM DD) 5 RACIAL ORIGIN (Record from list) (If Aboriginal/Russian State at Entry) OTHER 6 PRIMARY RENAL DISEASE (Record from list) 7 BICPSY 8 SE. CREATININE (µmol/L) (If Aboriginal/Russian State at Entry) OTHER 10 POSTCODE AT ENTRY (AUSTRALIAN KIDNEY FOUNDATION)

9 COUNTRY OF BIRTH (If Australia or NZ - Tick box) (AUST NZ OTHER COUNTRY (Please specify)) 11 CO-MORBID CONDITIONS AT ENTRY (LATE REFERRAL -3 MONTHS BEFORE FIRST TREATMENT (Y/N) HEIGHT (cms) WEIGHT (kg) CIGARETTE SMOKING (N=Never, C=Current) HYPERENSION (N=No, C=Current) DIABETES (N=No, O=Type 1 Insulin dependent, P=Type 2 Non insulin requiring, Q=Type 2 Insulin requiring) CEREBROVASCULAR (Y/N) PERIPHERAL VASCULAR (Y/N) CHRONIC CORONARY ARTERY (Y/N) CHRONIC LUNG (Y/N) DISEASE AT ENTRY AND DURING CURRENT SURVEY (AT ENTRY LAST CURRENT) YES/NO S-Suspended

OTHER CO-MORBID CONDITIONS (Write in) AT ENTRY PREVIOUS ENTRIES CURRENT

12 CENTRE OF TREATMENT (Enter geographical location at Death or End of Survey) CURRENT LAST HOSPITAL / CENTRE NAME (Write in or Tick if same) CENTRE CODE DATE TRANSFER

13 ON TRANSPLANT WAITING LIST (Dialysis Patients Only) Y=Yes N=No CURRENT LAST

14 HEPATITIS C ANTIBODY 1=Positive 2=Negative 3=Indeterminate CURRENT LAST

15 COURSE OF TREATMENT - COMPLETE ACCORDING TO COODE

COODE	DAY	MTH	YR
1st			
2nd			
3rd			
4th			
5th			
6th			
7th			
8th			
9th			
10th			
11th			
12th			
13th			
14th			
15th			
16th			
17th			

16 HEPATITIS C ANTIBODY 1=Positive 2=Negative 3=Indeterminate CODE DAY MTH YR

17 CAUSE OF DEATH (Record from list) OTHER

18 WAS GRAFT SUSTAINING LIFE? (Without dialysis at time of death) Y=Yes N=No

19 PARENTHOOD (If Yes, please complete the Pregnancy Outcome sheet) HAS THIS PATIENT BECOME PREGNANT OR FATHERED A CHILD DURING THIS SURVEY Y=Yes N=No DATE OF LAST OUTCOME

**THIS SECTION FOR ALL PATIENTS DIALYSED AT ANY TIME DURING THIS SURVEY PERIOD**

20 TYPE OF DIALYSIS 21 DRY WEIGHT AT LAST DIALYSIS (Record from list) 22 HAEMOGLOBIN (g/l) (Within last 3 mths of Survey or record not done) 23 EPO AGENT (Y=Yes N=No) 24 FERRITIN (µg) (Within last 3 mths of Survey or record not done) 25 % SATURATION IRON (Transferrin Saturation) (Within last 3 mths of Survey or record not done)

HAEMODIALYSIS 26 DIALYSER BRAND (Write in) (BRAND/NAME AND MODEL) 27 BLOOD FLOW RATE (ml/min) (Pump Speed) 28 SESSIONS PER WEEK (Pump Speed) 29 HOURS PER SESSION (Pump Speed) 30 URSA REDUCTION or MIV VALUE (See List)

31 ACCESS IN USE (Functioning only) Enter for ALL PATIENTS ON HAEMODIALYSIS at the end of Survey (DECLOTTED during Survey) PRESENT (1=Native, 2=Synthetic, 3=Turned CV Catheter, 4=Non Turned CV Catheter) REUSED during Survey (N=No S=Surgical A=Angioplasty B=Both) 32 PET TEST (Once Only) (Within first 6 mths) 33 CONNECTION SYSTEM (Write in) (CODE) 34 PERITONITIS DATE OF FIRST EPISODE (During this Survey) 35 NUMBER OF EPISODES OF PERITONITIS (During this Survey) 36 TOTAL VOLUME OF WEEKLY E-EXCHANGES (Litres/week) (Litre/week)

37 DIALYSATE CREATININE CLEARANCE (Adjusted for Body Surface Area) (Litres/week/1.73 m<sup>2</sup>) 38 DIALYSATE WEEKLY KtV (Range 10-200) (Adjusted for Body Surface Area) (Litres/week/1.73 m<sup>2</sup>) 39 RESIDUAL CREATININE CLEARANCE (Adjusted for Body Surface Area) (Litres/week/1.73 m<sup>2</sup>)

40 REASON FOR TRANSFER FROM CAPD / APD (Record from list)

41 GRAFT NUMBER 42 DATE OF THIS TRANSPLANT (Write in) 43 REFERRING HOSPITAL 44 DONOR HOSPITAL 45 TRANSPLANT HOSPITAL 46 RECIPIENT ANTIBODY STATUS CMV EBV AT GRAFT 47 NUMBER REJECTION EPISODES THIS SURVEY (Complete only if recipient on immunosuppressive therapy (same episode)) (Within 6 months of transplant)

48 DONOR DETAILS SOURCE AGE SEX 49 TOTAL ISCHAEMIA (Hours) 50 IMMEDIATE FUNCTION (See list) 51 DISEASE IN GRAFT (See list) 52 DATE FIRST PROVEN (eg Graft biopsy) 53 CAUSE OF GRAFT FAILURE (Record from list)

54 MONOCLONAL / POLYCLONAL THERAPY (Record from list) COURSE DATE ASBENT OTHER NUMBER OF DOSE/GIVEN REASON OTHER

55 TOTAL DAILY DRUG DOSE (mg) TOTAL INITIAL CRAL DOSE 1 MTH 2 MTH 3 MTH 6 MTH 1 YR 2 YR 3 YR 5 YR 7 YR 10 YR 15 YR 20 YR 25 YR 30 YR 35 YR

DRUG	1 MTH	2 MTH	3 MTH	6 MTH	1 YR	2 YR	3 YR	5 YR	7 YR	10 YR	15 YR	20 YR	25 YR	30 YR	35 YR
CYA															
AZA															
PRED															
TACROL															
MIF															
SIROL															
OTHER															

56 CYA SPARING DRUG 0=NOT GIVEN 1=GIVEN (eg DILTIAZEM - KETOCOANAZOLE - VERAPAMIL)

57 BODY WEIGHT (kg)

58 SERUM CREATININE (µmol/L)

59 HLA TYPING (See list) BLOOD GROUP (See list) RECIPIENT (See list) DONOR (See list) FOR OFFICE USE ONLY (See list)

60 PRA AND CROSSMATCH (See list) MAXIMUM CURRENT



**QUEENSLAND**

Allamanda Private Hospital  
 Bundaberg Base Hospital  
 Cairns Base Hospital  
 Goldcoast Hospital  
 Greenslopes Private Hospital  
 Hervey Bay Hospital  
 John Flynn Hospital  
 Mackay Base Hospital  
 Nambour Hospital  
 Pine Rivers Private Hospital (formerly Riverview)  
 Princess Alexandra Hospital  
 Rockhampton Base Hospital  
 Royal Brisbane Hospital  
 St. Vincent's Hospital, Robina  
 Toowoomba Hospital  
 Townsville General Hospital  
 Wesley Private Hospital

**NEW SOUTH WALES**

Dubbo Base Hospital  
 East Coast Renal Service  
     *Prince of Wales Hospital*  
     *Sydney Children's Hospital*  
     *St. George Hospital*  
     *St. Vincent's Hospital*  
     *Wollongong Hospital*  
 Gosford Hospital  
 John Hunter Hospital  
 Lismore Hospital  
 Mater Misericordiae Hospital  
 New Children's Hospital  
 Port Macquarie Community Dialysis Centre  
 Port Macquarie Private Hospital  
 Royal North Shore Hospital  
 South West Sydney Renal Service  
     *Bankstown Hospital*  
     *Liverpool Hospital*  
 Statewide Renal Services  
     *Concord Hospital*  
     *Royal Prince Alfred Hospital*  
 Sydney Adventist Hospital  
 Tamworth Hospital  
 Westmead Hospital  
     *Orange Base Hospital*

**AUSTRALIAN CAPITAL TERRITORY (ACT)**

The Canberra Hospital

**VICTORIA**

Alfred Hospital  
 Austin and Repatriation Medical Centre  
 Brighton Dialysis Centre  
 Epworth Hospital  
 Geelong Hospital  
 Monash Medical Centre – Adult  
 Monash Medical Centre – Paediatric  
 Royal Children's Hospital  
 North West Dialysis Service  
     *Royal Melbourne Hospital*  
 St. Vincent's Hospital

**TASMANIA**

Launceston General Hospital  
 Royal Hobart Hospital

**SOUTH AUSTRALIA**

Flinders Medical Centre  
 The Queen Elizabeth Hospital  
 Royal Adelaide Hospital  
 Women's and Children's Hospital

**NORTHERN TERRITORY**

Royal Darwin Hospital  
 Alice Springs Hospital

**WESTERN AUSTRALIA**

Fremantle Hospital  
 Princess Margaret Hospital for Children  
 Royal Perth Hospital  
 Sir Charles Gairdner Hospital

**NEW ZEALAND**

Auckland Hospital  
     *Starship Children's Hospital*  
 Christchurch Hospital  
 Dunedin Hospital  
 Middlemore Hospital  
 Palmerston North Hospital  
 Waikato Hospital  
 Wellington Hospital  
 Whangarei Area Hospital



**QUEENSLAND**

Princess Alexandra Hospital (Adult & Paediatric)  
Director - A/Professor David Johnson  
Ipswich Road  
Woolloongabba 4102

**NEW SOUTH WALES**

John Hunter Hospital  
Director - Dr Alistair Gillies  
Lookout Road  
New Lambton Heights  
Newcastle 2304

Prince of Wales Hospital (Adult & Paediatric)  
Director - Professor John Charlesworth  
Barker Street  
Randwick 2031

Royal North Shore Hospital  
Director - Dr Lloyd Ibels  
Pacific Highway  
St Leonards 2065

Royal Prince Alfred Hospital  
Director - Professor John Horvath  
Missenden Road  
Camperdown 2050

St. Vincent's Hospital  
Director - Dr Elliott Savdie  
Victoria Street  
Darlinghurst 2010

Westmead Hospital (Adult & Paediatric)  
Director - Dr Jeremy Chapman  
Cnr Hawkesbury and Darcy Road  
Westmead 2145

**VICTORIA**

Alfred Hospital  
Director - Professor Napier Thomson  
Commercial Road  
Prahran 3181

Austin & Repatriation Medical Centre  
Director - Dr David A. Power  
Burgundy Road  
Heidelberg 3084

Monash Medical Centre Paediatric  
Director - Dr Amanda Walker  
246 Clayton Road  
Clayton 3165

Monash Medical Centre Adult  
Director - Professor Robert Atkins  
246 Clayton Road  
Clayton 3165

Royal Children's Hospital  
Director - Dr Colin Jones  
Flemington Road  
Parkville 3052

Royal Melbourne Hospital  
Director - Professor Gavin Becker  
Parkville 3052

St. Vincent's Hospital  
Director - Dr Brendan Murphy  
41 Victoria Parade  
Fitzroy 3065

**SOUTH AUSTRALIA**

The Queen Elizabeth Hospital  
Director - A/Professor Graeme R Russ  
28 Woodville Road  
Woodville 5011

Women's and Children's Hospital  
Director - Dr Paul Henning  
72 King William Road  
North Adelaide 5006

**WESTERN AUSTRALIA**

Princess Margaret Hospital for Children  
Director - Dr Ian Hewitt  
Roberts Road  
Subiaco 6008

Royal Perth Hospital  
Director - Dr Ashley Irish  
Wellington Street  
Perth 6001

Sir Charles Gairdner Hospital  
Director - Dr Brian Hutchison  
Verdun Street  
Nedlands 6009

**NEW ZEALAND**

Auckland Hospital  
Director - Dr John Collins  
Park Road  
Grafton, Auckland

Christchurch Hospital  
Director - Dr Richard Robson  
Riccarton Avenue  
Christchurch

Starship Children's Hospital  
Director - Professor Max Morris  
Park Road  
Grafton, Auckland

Wellington Hospital  
Director - Dr Grant Pidgeon  
Riddiford Street  
Newtown, Wellington South



**QUEENSLAND**

Atherton Satellite - Cairns Base Hospital  
 Calvary Hospital - Cairns Base Hospital  
 Home Hill Satellite - Townsville General Hospital  
 Innisfail Hospital - Cairns Base Hospital  
 Keperra - Royal Brisbane Hospital  
 Logan Satellite - Princess Alexandra Hospital  
 Mater Children's Hospital  
 Noosa Satellite - Nambour Hospital  
 Royal Children's Hospital  
 Sandgate Satellite - Royal Brisbane Hospital  
 Vincent Satellite - Townsville General Hospital

**NEW SOUTH WALES**

Albury Hosital  
 Ballina Satellite - Lismore Hospital  
 Bankstown Hospital - Sth West Sydney Renal Service  
 Bathurst - St. Vincent's Hospital  
 Blacktown Satellite - Westmead Hospital  
 Bourke Hospital  
 Brewarrina Hospital  
 Broken Hill Hospital  
 Coffs Harbour Base Hospital  
 Dame Eadith Walker - Statewide Renal Services  
 Dubbo Base Hospital  
 Eora Cottage - Prince of Wales Hospital  
 Gambro - Lindfield Dialysis Unit (formerly Chatswood)  
 Gosford Hospital  
 Grafton Hospital - Lismore Hospital  
 Kempsey Hospital - Port Macquarie Comm.Dx.  
 Lakehaven Satellite - Gosford Hospital  
 Lanceley Cottage - Royal North Shore Hospital  
 Liverpool Community Hospital - Sth West Syd.R.S.  
 Maitland Hospital  
 Nita Reed House (Taree) - John Hunter Hospital  
 Norfolk Island Hospital  
 Orange Base Hospital  
 Port Macquarie Community Dialysis Centre  
 Port Macquarie Private Hospital  
 Shellharbour - Wollongong Hospital  
 Shoalhaven Satellite (Nowra) - Wollongong Hosp.  
 Singleton Satellite - John Hunter Hospital  
 Sydney Adventist Hospital  
 Sydney Dialysis Centre  
 Wagga Wagga Base Hospital  
 Wansey Satellite - John Hunter Hospital

**AUSTRALIAN CAPITAL TERRITORY (ACT)**

Canberra Community Dialysis Centre

**VICTORIA**

Angliss Hospital  
 Apollo Bay Hospital  
 Ararat Hospital  
 Austin Training Satellite - Austin & Repat.Hosp.  
 Bacchus Marsh Hospital  
 Bairnsdale Hospital  
 Ballarat Hospital  
 Bendigo Hospital  
 Berwick Hospital  
 Birchip Hospital  
 Broadmeadows Hospital  
 Brunswick Satellite  
 Casterton Hospital  
 Caulfield Satellite  
 Coburg Satellite  
 Cohuna Hospital  
 Colac Hospital  
 Corryong Satellite  
 Cranbourne Satellite  
 Daylesford Hospital  
 Donald Hospital  
 Echuca Hospital  
 Edenhope Hospital  
 Epworth Hospital  
 Frankston Satellite  
 Gambro - Diamond Valley Hospital  
 Geelong Hospital  
 Goulburn Valley Hospital  
 Hamilton Hospital  
 Hastings Hospital  
 Heidelberg - Austin & Repatriation Hospital  
 Horsham Satellite  
 La Trobe Regional Satellite

**VICTORIA CONT...**

Lorne Hospital  
 Maryborough District Health Service  
 Mildura Hospital  
 Mitcham Hospital  
 Moorabbin Satellite  
 Myrtleford Hospital  
 Nauru (overseas) - Alfred Hospital  
 Nauru (overseas) - Monash Medical Centre Adult  
 Nephrocare - Brighton Dialysis Centre  
 Newcomb Satellite  
 North East Kidney Service - Austin Hosp.  
 Ormeo District Hospital  
 Peter James Centre  
 Portland Hospital  
 Robinvale Hospital  
 Rosebud Hospital  
 St. Arnaud Hospital  
 Sale Hospital  
 Sandringham Satellite  
 Seymour Hospital  
 Sunshine Hospital  
 Swan Hill Hospital  
 Terang Satellite  
 Wangaratta Hospital  
 Warrnambool Hospital  
 Werribee Mercy Hospital  
 Western Gippsland Hospital  
 Williamstown Satellite  
 Wodonga Hospital  
 Wonthaggi Hospital  
 Yarawonga District Hospital  
 Yarram Hospital

**TASMANIA**

North West Renal Unit  
 Burnie - Launceston Hospital  
 Royal Hobart Hospital

**SOUTH AUSTRALIA**

Berri Hospital  
 College Grove Private Hospital  
 Hartley Private Hospital  
 Modbury Satellite Centre  
 Murray Bridge Hospital  
 Noarlunga Satellite Centre  
 North Adelaide Satellite Centre  
 Port Augusta Hospital  
 Port Lincoln Satellite Centre  
 Wayville Satellite Centre

**NORTHERN TERRITORY**

Bathurst Island Hospital - Royal Darwin  
 Community Health Centre  
 Alice Springs Hospital  
 Katherine Dialysis Unit - Royal Darwin  
 Nightcliff Community Centre - Royal Darwin

**WESTERN AUSTRALIA**

Albany Satellite  
 Armadale Satellite  
 Baxter - Midland Private Satellite  
 Bunbury Satellite  
 Geraldton Hospital  
 Joondalup Satellite Unit  
 Kalgoorlie Hospital  
 Melville Satellite  
 Midland Satellite  
 Peel Health Campus - Mandurah  
 Pilbara Dialysis Unit - Pt.Hedland  
 Royal Perth Rehabilitation Hospital  
 - Royal Perth Hospital

**NEW ZEALAND**

Alexandra Satellite - Dunedin Hosp.  
 Carrington Satellite - Auckland Hosp.  
 Greenlane Hospital - Auckland Hosp.  
 Hastings Hospital  
 Middlemore Hospital  
 Nelson Hospital  
 New Plymouth Hospital  
 Porirui Satellite - Wellington Hospital

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