

Nursing and midwifery labour force, South Australia, 2004

Additional tables

Table A1: Nurse registrations: labour force status, 1997 to 2004

	1997	1999	2001	2003	2004	% change 1997–2004
<i>In the South Australian nurse labour force</i>	21,384	21,490	21,692	22,687	23,836	11.5
Employed in nursing, only/mainly in South Australia	20,466	20,760	21,071	21,883	23,099	12.9
On extended leave	537	370	369	556	474	-11.7
Looking for work in nursing	381	361	252	248	263	-31.0
<i>Not in the South Australian nurse labour force</i>	1,007	849	1,046	1,843	1,523	51.2
Overseas	100	97	153	174	185	84.5
Not looking for work in nursing	599	581	610	1,304	1,016	69.7
Employed mainly or solely interstate	308	171	284	365	322	4.4
Total registrations	22,391	22,339	22,738	24,530	25,359	13.3

Sources: Nursing Labour Force surveys, South Australia, 1997 to 2001; Nursing and Midwifery Labour Force surveys, South Australia, 2003 and 2004.

Table A2: Nurse registrations: selected characteristics, 2004

Characteristics	Employed in nursing in South Australia			Not employed in nursing in South Australia ^(a)		
	Registered	Enrolled	Total	Registered	Enrolled	Total
Citizenship						
Australian citizen	16,142	5,260	21,402	1,559	512	2,071
<i>Not Australian citizen</i>	1,167	349	1,516	140	30	170
Permanent resident	1,047	342	1,389	93	27	119
Not permanent resident	120	7	128	47	3	50
Not stated	118	63	181	17	3	19
Country of initial qualification						
Australia	12,279	4,016	16,295	1,258	384	1,642
New Zealand	144	31	175	17	n.p.	18
Oceania	8	—	8	n.p.	—	n.p.
UK/Ireland	802	91	893	74	8	83
Europe	146	5	152	21	—	21
Middle East/North Africa	9	n.p.	10	n.p.	—	n.p.
Asia	175	9	183	22	—	22
North America	47	4	51	5	3	8
Other	94	3	97	11	—	11
Not stated	3,723	1,511	5,234	303	148	451
Total	17,427	5,673	23,099	1,715	544	2,260

(a) Comprises nurses on extended leave, overseas, working but not in nursing, nurses not working and those working mainly or only interstate.

Source: Nursing and Midwifery Labour Force Survey, South Australia, 2004.

Table A3: Employed nurses: weekly hours worked, 1997 to 2004

Year	Hours worked per week						Not stated	Total
	Less than 15	15–24	25–37	38–44	45–54	55 or more		
1997	1,314	5,483	4,969	6,345	493	160	1,703	20,466
1999	2,420	6,488	4,879	5,163	107	18	1,684	20,760
2001	2,219	6,458	6,180	5,539	228	34	413	21,071
2003	1,169	5,100	6,701	6,168	1,379	312	1,055	21,883
2004	1,186	5,348	7,144	6,575	1,488	551	807	23,099

Sources: Nursing Labour Force surveys, South Australia, 1997 to 2001; Nursing and Midwifery Labour Force surveys, South Australia, 2003 and 2004.

Table A4: Post-registration qualifications held: qualification field and per cent within each field held by nurses working in corresponding^(a) area of activity, 1997 to 2004

	1997		1999		2001		2003 ^(b)		2004 ^(b)	
	% working in area of activity	Total number	% working in area of activity	Total number	% working in area of activity	Total number	% working in area of activity	Total number	% working in area of activity	Total number
Nurses without post-registration or enrolment qualifications		12,479		10,148		9,628		12,803		13,691
Nurses with post-registration or enrolment qualifications	48.8	7,997	50.6	10,611	52.5	11,443	58.5	9,080	56.3	9,408
Total employed nurses		20,466		20,760		21,071		21,883		23,099
Total qualifications^(c)		10,923		15,274		16,865		15,615		15,782
Critical care/emergency	43.0	1,298	45.6	1,948	42.7	2,200	43.8	2,297	42.7	2,429
Perioperative	73.5	489	68.7	705	66.5	752	66.9	790	66.9	802
Medical/surgical nursing (incl. gynaecology)	50.6	594	51.6	1,005	49.3	1,244	49.0	1,874	49.3	1,851
Midwifery	41.5	2,178	31.3	3,723	28.2	3,869	30.9	2,291	29.7	2,294
Paediatric and child health	47.4	551	40.6	749	37.3	810	27.7	887	28.8	841
Community health	26.5	386	28.4	420	24.9	458	26.3	958	28.1	996
Mental health	54.1	1,001	59.2	1,271	59.9	1,486	53.5	1,032	52.3	1,040
Aged care	57.9	1,154	60.5	1,272	59.1	1,249	53.0	929	49.5	915
Disability	34.5	93	52.8	118	46.2	119	35.1	63	36.2	76
Rehabilitation ^(d)	..	..	..	..	..	..	23.5	211	26.4	195
Management/administration	11.2	673	15.1	801	9.5	963	26.5	840	25.8	887
Education ^(e)	..	278	9.0	323	2.1	407	24.8	309	22.7	339
Other	4.2	2,227	5.3	2,940	20.2	3,308	7.7	3,134	7.2	3,117

(a) A 'corresponding' area of activity is defined as a current main area of activity in the same field in which a post-registration qualification is held. See 'Area of activity' in the Glossary for the groupings and concordance. Nurses who undertook mental health or midwifery undergraduate courses are included.

(b) With the narrower scope in 2003 and 2004, this includes only post-registration study of more than 6 months' duration. Includes hospital-based certificates and tertiary qualifications in nurse management and clinical nursing.

(c) Qualifications total more than the number of nurses because nurses can hold more than one qualification.

(d) Rehabilitation was not separately available as an area of activity category in 1997 and 1999, or a qualification category in 1997, 1999 and 2001.

(e) The area of activity category of Education was not available separately in 1997.

Sources: Nursing Labour Force surveys, South Australia, 1997 to 2001; Nursing and Midwifery Labour Force surveys, South Australia, 2003 and 2004. Table A5: Employed nurses: main area of activity and whether held corresponding qualifications, 1997 to 2004

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Table A5: Employed nurses: area of activity and whether held corresponding qualifications, 1997 to 2004

Main area of activity	1997			1999			Total number
	With corresponding qualifications ^(a)	With non-corresponding qualifications ^(b)	No post-registration/enrolments ^(c)	With corresponding qualifications ^(a)	With non-corresponding qualifications ^(b)	No post-registration/enrolments ^(c)	
Critical care/emergency	558	241	670	888	241	641	1,770
Peroperative	359	256	851	484	321	575	1,380
Medical/surgical nursing (incl. gynaecology)	300	1,497	5,055	519	1,951	4,211	6,681
Midwifery	904	205	410	1,166	113	203	1,482
Paediatric and child health	261	183	429	304	179	325	808
Community health	102	513	1,106	119	755	953	1,827
Mental health	542	233	496	753	222	524	1,498
Aged care	668	638	2,771	770	841	1,961	3,572
Disability	32	83	142	62	49	184	295
Rehabilitation ^(e)	..	..	..	..	..	..	..
Management/administration	76	35	85	121	167	96	384
Education ^(f)	..	..	..	29	71	30	130
Research ^(g)	..	..	..	..	65	21	86
Other	94	207	464	156	267	425	847
Total nurses	3,897	4,091	12,479	5,370	5,241	10,148	20,760

(continued)

Table A5 (continued): Employed nurses: area of activity and whether held corresponding qualifications, 1997 to 2004

Main area of activity	2001			2003(d)			2004(d)		
	With corresponding qualifications(e)	With non-corresponding qualifications(b)	No post-registration/enrolment qualifications(c)	With corresponding qualifications(e)	With non-corresponding qualifications(b)	No post-registration/enrolment qualifications(c)	With corresponding qualifications(e)	With non-corresponding qualifications(b)	No post-registration/enrolment qualifications(c)
Critical care/emergency	939	228	550	1,006	173	835	1,037	178	932
Perioperative	500	291	577	529	231	771	536	215	859
Medical/surgical nursing (incl. gynaecology)	614	1,881	3,907	918	1,123	4,278	912	1,204	4,456
Midwifery	1,093	65	114	708	92	500	681	91	523
Paediatric and child health	302	136	256	245	93	238	242	105	280
Community health	114	796	858	252	516	1,137	280	528	1,223
Mental health	889	151	276	552	84	524	544	106	472
Aged care	738	851	1,826	492	478	2,389	453	541	2,522
Disability	55	40	120	22	28	128	27	37	120
Rehabilitation(e)	..	93	95	50	62	329	51	82	337
Management/admin.	91	51	60	222	287	310	229	340	327
Education(f)	9	17	20	77	118	92	77	124	116
Research(g)	..	10	8	..	116	58	..	127	84
Other	669	821	961	240	367	1,212	225	435	1,441
Total nurses	6,013	5,431	9,628	5,313	3,767	12,803	5,294	4,114	13,691
			21,071			21,883			23,099

(a) A 'corresponding' field of qualification is defined as a post-registration qualification in the current main area of work activity. See 'Area of activity' in the Glossary for the groupings and concordance. Nurses who undertook mental health or midwifery undergraduate courses are included.

(b) 'Without corresponding qualifications' refers to nurses with a postgraduate qualification but not one that is directly relevant to their current main area of work activity.

(c) 'No post-registration qualification' refers to nurses with no post-registration qualifications at all.

(d) Includes only post-registration qualifications of more than 6 months' duration. Includes hospital-based certificates and tertiary qualifications in nurse management and clinical nursing.

(e) Rehabilitation was not available as an area of activity category in 1997 and 1999, or a qualification category in 1997, 1999 and 2001.

(f) The area of activity category of Education was not available separately in 1997.

(g) The area of activity category of Research was not available separately in 1997. There is also no specific qualification of Research and, as such, is not an option on the questionnaires.

Sources: Nursing Labour Force surveys, South Australia, 1997 to 2001; Nursing and Midwifery Labour Force surveys, South Australia, 2003 and 2004.



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Explanatory notes

Method

The labour force data in this publication were obtained from the South Australian component of the Nursing and Midwifery Labour Force surveys conducted by each state and territory nurses/midwifery registration board on behalf of the AIHW. A survey questionnaire is sent to all nurses and midwives as part of the registration renewal process.

Scope and coverage

The Nursing and Midwifery Labour Force Survey, South Australia, covers all nurses and midwives registered with the Nurses Board of South Australia and eligible to practise. The coverage may exclude nurses/midwives who registered for the first time during the current year.

Response rate

Based on the total registrations in South Australia, the response rate to the survey was 71.2%. However, complete data were not available for all responding nurses/midwives because not all survey questions were completed. The overall response rate can only be estimated, not measured with complete accuracy. It is known that some nurses/midwives who were registered in more than one state or territory completed a questionnaire in just one state or territory. It is not known how often this occurs because survey records cannot be matched across states or territories.

Labour force estimates

The figures produced from the Nursing and Midwifery Labour Force Survey are estimates of the whole nurse population of active registrations. Estimates of characteristics other than age and sex are based on the assumption that survey non-respondents had the same labour force characteristics as respondents. Age and sex data were available from the Nurses Board of South Australia, whereas missing survey data were estimated based on the distribution of survey responses. In 2001, a new survey estimation method was introduced to improve processing. For consistency across surveys, data for surveys before this have been revised using the new method and, as a result, pre-2001 figures shown in this report are different from estimates published in the past.

Rounding of estimates may result in numbers not adding up to totals in some tables.

Break in series

In 2003 there were substantial changes to the survey questionnaire. The main changes were:

- a large expansion of the categories of work activity;
- a narrower scope to the definition of post-registration qualifications;
- an expansion of the categories for field of post-registration qualifications; and
- an increase in the information relating to hours worked.

As result of this break in series, estimates are not directly comparable over time.

Glossary

Area of activity of nursing and corresponding field of study

For the purposes of analyses contained within this publication, main area of activity and field of study have been classified into corresponding groups. The table below illustrates these groupings based on the survey coding frames introduced in 2003. Surveys before 2003 contained slightly different categories for main area of activity and field of study; however, these categories have been revised to concord with the groupings in Table A.6.

Table A.6: Grouping of main area of activity and qualification field from 2004 survey

Groupings of main area of activity/field of study	Main area of activity	Field of study	Groupings of main area of activity/field of study	Main area of activity	Field of study
Critical care/emergency	32, 34-41	2, 4-9, 24	Mental health	60-64	31-34
Perioperative	23-26	1, 10	Aged care	57-59	53-55
Medical/surgical nursing (incl. gynaecology)	1-22, 33, 44, 45, 70, 74	3, 11-15, 16-21, 59, 67	Disability	65	56, 57
Midwifery	27-31	28-30	Rehabilitation	66, 67	58
Paediatric and child health	43, 46-49	22, 23, 25-27, 45, 49	Management/administration	71, 72, 75, 77	46, 60-63
Community health	42, 50-56, 68, 69, 79	35-44, 47, 48, 50-52	Education	73	64-66
			Research	78	
			Other	76, 80, 81	68, 69

Main area of activity				
1 Cardiology	18 Plastics	35 Emergency	50 Community health	67 General rehab/disability
2 Endocrinology	19 Surgical nursing	36 High dependency	51 Health promotion	68 Alcohol & other substance abuse
3 Gastroenterology	20 Urology	37 Intensive care	52 Indigenous health	69 Health ed./disease management
4 Medical nursing	21 Vascular	38 Neonatal intensive care	53 Medical practice nurse	70 Infection control
5 Neurology	22 General surgical	39 Paediatric critical care	54 Public health	71 Informatics
6 Oncology/haematology	23 Anaesthetic	40 Retrieval	55 Sexual health	72 Management
7 Palliative care	24 Perioperative	41 General critical care	56 General comm. health	73 Nurse education
8 Renal medicine	25 Recovery	42 Family planning	57 Aged care	74 Nurse practitioner
9 Respiratory	26 General perioperative	43 Family, youth & child health	58 Gerontology	75 Occupational health and safety
10 General medical nursing	27 Antenatal	44 Infertility & assisted reproduction	59 General aged care	76 Policy
11 Burns	28 Labour	45 Men's health	60 Adult mental health	77 Quality management
12 Cardiothoracics (surgical)	29 Postnatal	46 Paediatric and child health	61 Child and adolescent mental health	78 Research
13 Ear, nose & throat	30 Maternal and child health	47 School health	62 Forensic	79 Rural and remote health
14 Gastro-intestinal nursing	31 General midwifery	48 Women's health	63 Psychogeriatric	80 No one area of practice
15 Neurosurgical	32 Cardiac/coronary care	49 General family & child health	64 General mental health	81 Other
16 Ophthalmology	33 Cardiothoracic (critical care)		65 Disability	
17 Orthopaedic	34 Critical care		66 Rehabilitation	

Field of study				
1 Anaesthetic & recovery	18 Orthopaedic	32 Community psychiatric	43 Health education	57 Other disability
2 Cardiac	19 Renal/nephrology	33 Mental health/psychiatric nursing practice	44 Health promotion	58 Rehabilitation
3 Cardiothoracic	20 Surgical nursing	34 Rural and remote mental health	45 Infertility & associated reproduction	59 Respiratory
4 Critical care	21 Wound management	35 Indigenous health	46 Occupational health & safety	60 Applied management
5 Emergency/trauma	22 Family, child, & adolescent health	36 Alcohol & other drug studies	47 Public health	61 Health services management
6 High acuity (ward care)	23 Lactation & infant feeding	37 Asthma education	48 Rural & remote health	62 Nursing administration
7 Intensive care	24 Neonatology/neonatal	38 Clinical forensic nursing	49 School health	63 Nursing leadership
8 Neonatal intensive care	25 Paediatric & child health	39 Community health	50 Sexual health	64 Clinical education
9 Paediatric critical care	26 Parenting education	40 Correctional nursing	51 Substance abuse	65 Clinical teaching
10 Perioperative	27 Women's health	41 Corrections health & forensic nursing	52 Transcultural nursing	66 Nurse education
11 Neuroscience (incl. spinal injury)	28 Midwifery	42 Diabetes education and management	53 Aged care	67 Nurse practitioner
12 Acute/clinical care	29 Midwifery continuity of care		54 Continenence	68 Bachelor of App. Science/Health Science/Nursing (Post-registration)
13 Burns and plastics	30 Midwifery practice in risk-associated pregnancies		55 Gerontology	69 Other
14 Gastroenterology	31 Child & adolescent mental health		56 Developmental disability	
15 Infection control				
16 Medical nursing				
17 Oncology/palliative care				

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Enrolled nurse

A nurse who possesses at least a 1-year certificate (certificate IV) from a vocational education and training institution or equivalent from a recognised hospital-based program, and is on the register maintained by the Nurses Board of South Australia to practise nursing in that state. It is necessary for a nurse to have practised in the field of nursing in the previous 5 years to maintain registration.

Full-time equivalent (FTE)

FTE calculations in this report are based on the standard full-time working week for nurses/midwives in South Australia of 38 hours per week. The FTE (supply) in this report is based on the total hours worked, divided by 38 hours for all nurses/midwives.

Hours worked

The total number of hours worked per week self-reported by responding nurses/midwives as the usual number of hours worked per week in all nursing-related jobs in the week prior to completing the survey form. Hours worked exclude time spent on travel between work locations (except travel to call-outs) and unpaid professional and/or voluntary activities. In the editing of survey responses, maximum hours worked was limited to 125 hours per week for all jobs. In this publication 38 hours per week has been used for the cut-off for full-time and part-time work:

- *full-time*: 38 hours or more per week
- *part-time*: less than 38 hours per week.

Geographic classification

There are several classifications used to differentiate between various regions in Australia. The Remoteness Area Structure of the Australian Standard Geographic Classification (ASGC), produced by the Australian Bureau of Statistics (ABS 2002), was used in this publication to present regional data. This classification is based on the Accessibility/Remoteness Index of Australia (ARIA+), where the remoteness index value of a point is based on the physical road distance to the nearest town or service in each of five population size classes based on the 2001 Census of Population and Housing. These classes are:

- Major Cities of Australia
 - Inner Regional Australia
 - Outer Regional Australia
 - Remote Australia
 - Very Remote Australia
- } Metropolitan
- } Non-metropolitan

For additional information, the ASGC Remoteness Areas for South Australia are shown on the state map in the main body of this report.

Midwife

A nurse holding a Bachelor of Midwifery and registered as a midwife with the Nurses Board of South Australia.

Nurse clinician

A registered/enrolled nurse or midwife who is mainly involved in the care and treatment of patients, including nursing diagnosis and preventive action.

Nursing labour force

The nursing labour force (registered nurses/midwives and enrolled nurses) in South Australia includes nurses/midwives currently employed in nursing and nurses/midwives who are not employed in nursing but are looking for work in nursing. Nurses/midwives who, at the time of the survey, were on maternity or other extended leave for more than 3 months are employed, and thus part of the nursing labour force. However, in most cross-classified tables for employed nurses/midwives, those on extended leave have not been included.

Nursing role

Describes the job function within the field of nursing of a person with nursing qualifications. The categories are:

- *Nurse clinician*: A registered/enrolled nurse or midwife who is mainly involved in the care and treatment of patients, including nursing diagnosis and preventive action.
- *Nurse clinician manager*: A registered or enrolled nurse who manages a hospital nursing care unit or other sub-unit of a hospital, nursing home or health care facility, or supervises nursing staff for a particular unit or shift.
- *Administrator*: A person mainly employed in nursing administration.
- *Teacher/educator*: A person who teaches or trains persons in nursing for their initial qualification or in advanced skills after initial qualification.
- *Researcher*: A person engaged in nursing research.
- *Other*: A job function in nursing which is not one of the above, for example industrial relations or public health activities in nursing.

Nursing workforce

The nursing workforce comprises nurses/midwives currently employed in nursing or midwifery (excluding nurses/midwives on maternity or other extended leave for more than 3 months).

Qualifications/field of study

The scope qualifications/field of study was narrowed in the 2003 survey to include only post-registration qualifications of 6 months or more duration that were not in-service or continuing education sessions.

Registered nurse

A nurse or midwife holding at least a 3-year degree from a tertiary education institution or equivalent from a recognised hospital-based program, and is on the register of the Nurses Board of South Australia to practise nursing or midwifery in that state. Registered nurses/midwives may have their practice certificate endorsed to work in a specific clinical area (for example midwifery) on completion of a recognised postgraduate course. To maintain registration, a nurse must have practised in the field of nursing in the past 5 years.

Symbols and other usages

Throughout this publication, data may not add to the totals shown due to the estimation process for non-response. Percentages may not add to 100 due to rounding. Italics within a table denote a subtotal. Where tables contain a 'not stated' category, percentage calculations exclude these figures.

.. denotes not applicable.

— denotes nil or rounded to zero.

n.a. denotes not available.

References

- ABS (Australian Bureau of Statistics) 2004. Australian demographic statistics. Cat. No. 3101.0. Canberra: ABS.
- ABS 2002. Australian Standard Geographical Classification. Cat. No. 1216.0. Canberra: ABS.
- AIHW (Australian Institute of Health and Welfare) 2003. Nursing labour force 2002. AIHW Cat. No. HWL 29. Canberra: AIHW (Health Labour Force Series no. 29).
- DEST (Department of Education, Science and Training) 2002. National review of nursing education: our duty of care. Canberra: DEST.
- SCAC (Senate Community Affairs Committee) 2002. The patient profession: time for action. Report on the inquiry into nursing. Available on Internet, <www.apf.gov.au/senate/committee/clac_ctte/nursing/report/index.htm>.
- South Australian Department of Human Services 2002. The South Australian Nursing & Midwifery Recruitment and Retention Strategic Directions Plan 2002–2005. Adelaide: DHHS.



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