

Final Report:
Literature Database on Ageing Research
Research Network in Ageing Well

28th November 2005

Prepared by:
Centre for Research & Education in Ageing (CREA)
The University of Newcastle

Introduction

The National Health and Medical Research Council (NHMRC)/Australian Research Council (ARC) Research Network in Ageing Well recently engaged the Centre for Research and Education in Ageing (CREA) at the University of Newcastle to develop a literature database of ageing research publications. The initiative aims to promote and progress research in the Network's four priority theme areas. A progress report was submitted in September 2005. This report outlines the development and outcomes of the first iteration of literature searches, and is the final report for this project.

Objectives

The overall objective of this project was to develop a literature database of aging research conducted in Australia or by Australians (1999-2005) that covered the four priority research themes of the Research Network in Ageing Well:

- Healthy ageing
- Productivity and economic participation
- Independent living and social participation
- Population research strategies

The specific tasks were to document an effective search strategy, identify relevant publications and grants, and import identified references into an appropriate database.

Methods

Identification of Keywords

Initial searches were undertaken to identify keywords to describe each priority theme area and ageing. These keywords informed the development of the search strategy to locate relevant publications in various electronic databases, such as Medline. The searches also identified potential keywords to be assigned to citations once included in the ageing research database. For example, keywords to identify research into ageing and indigenous populations were added to relevant citations.

The list of potential keywords was generated by:

- Examining the tree structure of search terms used in major databases (e.g. Medline, PsycINFO, CINAHL)
- Examining how the publications of key Australian researchers in ageing were indexed in the major databases. Key researchers were identified from the ARC/NHMRC Research Network in Ageing Well participant list.
- Examining terms used by the ARC/NHMRC Research Network in Ageing Well in relation to the four priority research themes
- Examining keywords from early proposals for the Ageing Well Ageing Productively (AWAP) program grant on the NHMRC website.

Search Strategy

Publications

The following electronic databases were searched to locate relevant publications:

- Medline (health and medical literature)
- PsycINFO (psychological literature)
- CINAHL (nursing and allied health literature)
- EconLit (economics literature)
- AMED (allied and complementary medicine)
- AgeLine (social gerontology and aging-related articles from psychology, psychiatry, sociology, social work, demography, economics, policy studies, and the health sciences)
- Cochrane Library (systematic reviews and meta-analyses)
- The Joanna Briggs Institute (evidence based resources for nursing, midwifery, dietetics, physiotherapy, podiatry, radiography)
- Sociological Abstracts (sociological literature)

Research, reports and other publications were located by searching various websites including:

- Australian Institute of Health and Welfare (AIHW) (Ageing and Aged Care section and ageing related research published by AIHW staff)
- NHMRC and ARC

- Ageing Research Online (ageing related research projects)
- Commonwealth and State Government departments (e.g. Department of Health and Ageing, Department of Veterans' Affairs)
- Australian Bureau of Statistics (ABS)

To ensure adequate coverage, ARC/NHMRC Research Network in Ageing Well participants were asked to provide a list of their publications for the last five years. While it is the major journal on ageing in Australia, a separate search of the electronic table of contents of the Australasian Journal on Ageing was not undertaken as the journal was indexed in AgeLine and CINAHL.

The keywords generated from the above exercise informed the search strategy used to identify potentially relevant citations. Details of the final search terms for each relevant database are included as **Appendix A**. In summary, three sets of search terms were combined to locate Australian literature specific to ageing in relation to the four priority theme areas. Keywords and subject headings such as "elder\$.mp." and "Aged/" were used to locate ageing related literature. These were coupled with terms such as "exp Australia/" and "Australia.in." to limit the search to work undertaken in Australia. Finally, the third set of terms identified research under the four priority theme areas. The list of search terms was sent to the four co-ordinators of each priority theme area so that they could assist by identifying gaps in the search strategy and suggest additional terms. However, only one team leader provided feedback on the proposed search strategy.

The combination of terms used in each search varied depending on the scope of the database. For example, AgeLine focuses specifically on ageing research. Therefore, only the term "Australia" was used to locate relevant citations. In contrast, all three sets of terms were used to identify publications in Medline due to the large volume of non-relevant citations returned using a broader search strategy.

All searches were limited to years 1999-2005, English language, and humans where possible. In some databases, letters, editorials and commentaries were also excluded (using the term "NOT").

Grants

The NHMRC and ARC websites and the Ageing Research Directory (2000) were searched to identify relevant grants. Secondary searches of other websites such as the Department of Veterans' Affairs, Parkinson's Australia, Hammond Care Group (Bernard Judd Foundation), Australian Association of Gerontology (AAG), and Alzheimer's Australia were also conducted to locate other grants. Similar to the publications search, ARC/NHMRC Research Network in Ageing Well participants were asked to provide a list detailing grants obtained within the last five years.

Criteria for Inclusion in Database

Journal articles, books, book chapters, reports, and grants were included in the database if they met all of the following selection criteria:

- The publication addressed one or more of the four priority theme areas (the four themes were not mutually exclusive)
- The work was undertaken by Australians and in Australia (including multi-centre international research undertaken by Australian researchers)
- The publication was research-based (e.g. reviews, original research, epidemiological studies, qualitative and quantitative research)
- The research was conducted in humans (not animals)
- The article was published within the last five years (1999-2005).

Excluded from the database were:

- Biomedical science literature, except in relation to clinical research reporting implications and outcomes for individuals or the community
- Letters, commentaries, editorials, and ethnographies in relation to ageing
- Citations where not enough information was provided to accurately code.

Given that some citations proved difficult to code, several further criteria were established during the review process by reviewer consensus:

- The publication needed to specifically state that the research was within an elderly or older population, and/or examined the effects of ageing. For example, diseases not specific

to ageing, even though experienced by many older adults (eg, osteoarthritis, COPD, Parkinson's disease, stroke, cancer), were not included unless researched in an older population

- Studies recruiting people from, say, 30+ years or 40+ years were included only if the upper age range exceeded 60 years, or if they were longitudinal studies
- Screening studies (eg, mammography, PSA) were only included if the upper age range exceeded 60 years
- All adult longitudinal studies were included by definition
- The answer to the question: "Is this ageing research?" was used as the primary decision basis for inclusion.

Citation Review

All citations identified from the various electronic databases were imported into a reference manager database (Reference Manager Version 10). Titles and abstracts of identified studies were then scanned for relevance. Two reviewers independently rated each potentially relevant publication according to the inclusion criteria and theme area. The inclusion sheet and manual are provided as **Appendix B**. Disagreement between the two reviewers was resolved by discussion and consensus.

A proportion of citations read by both reviewers were assessed for inter-rater reliability. The level of agreement on each item was measured using observed percentage agreement and the Kappa statistic. Kappa, which expresses the agreement beyond chance as a proportion of the maximum possible agreement, is equal to one when there is perfect agreement between raters. The analyses were performed using a statistical program (STATA).

Publications meeting the inclusion criteria were imported into the ageing research database using Reference Manager (Version 10) and EndNote (Version7) and assigned priority theme area keywords plus any others that were considered applicable.

Results

Results of the Literature Search

Figure 1 outlines the process used for identifying relevant articles for the ageing research database. The searches identified 6885 citations in total. This included publications and grants lists provided by relevant Ageing Centres within Australia and the 19 (of 50) Network members who forwarded their abbreviated curriculum vitae as requested. Overall, 3599 citations were selected for further review. Of these, 2176 citations (359 of which were grants) met all the specified selection criteria and were included in the database.

Most excluded articles were not ageing focussed. That is, they did not include older adults, or researched a disease not specific to ageing, even though experienced by many older adults (osteoarthritis, COPD, Parkinson's disease, stroke, cancer), in a general population. Many citations did not have not enough information to allow coding, and particularly to decide if they were research based, or Australian, and were therefore excluded unless the full text was readily available. Many grants did not report a timeline or a funding body, so could not be included as funded research in the past five years. Reasons for exclusion were mutually exclusive (See **Table 1**).

Research projects from Ageing Research Online were not able to be downloaded in a format compatible with efficient review as the database did not have the necessary functions to allow easy download. While the reviewers considered importing information from Ageing Research Online into Reference Manager by copying each record individually (which was a possibility) this was judged to be prohibitively labour intensive as some 322 projects were identified when the search term "ageing" was used. We suggest that an efficient way to ensure that all relevant grants appear within the current database would be to obtain access to the background database used by Ageing Research Online, rather than the interface available online. However, this was beyond the scope of the current project and would be a task for the Research Network in Ageing Well to achieve.

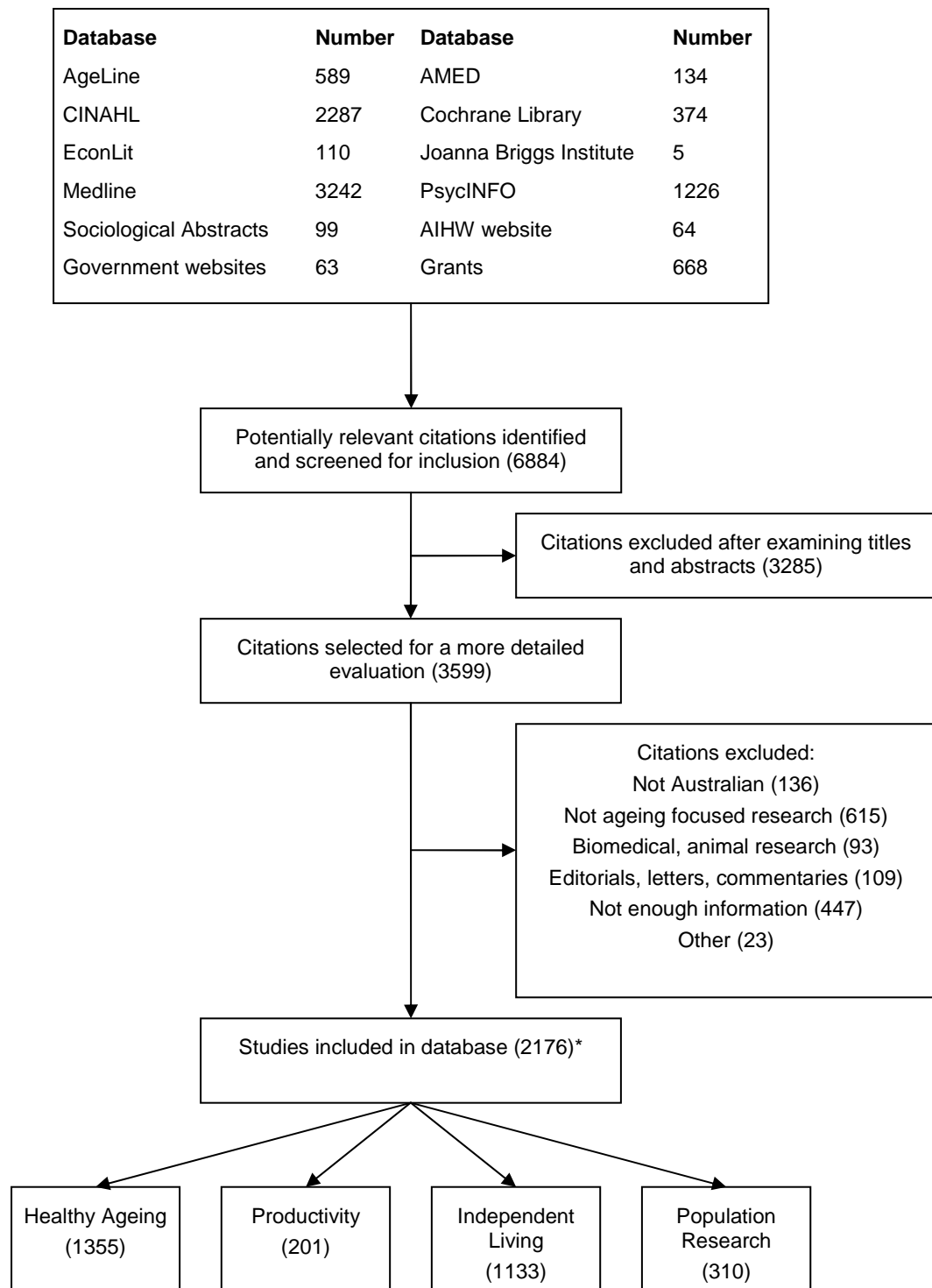


Figure 1. Inclusion and exclusion of citations for the literature database on ageing research (value in parentheses = number of citations).

* Themes were not mutually exclusive

Table 1: Reasons for exclusion from ageing research database

Reason	Number Excluded
Not Australian	136
Not ageing focused research	615
Biomedical, animal research	
Biomedical	82
Animal	11
Editorials, letters, commentaries	
Commentary	71
Guideline / review	5
Tutorial	29
Editorial	2
Textbook	2
Not enough information	
Not enough information	91
Research based?	110
No year stated	192
No funding information (grants)	54
Other	
Planned research	14
Scholarship, not grant	8
Infrastructure funding only	1
Total	1423

Coding

Inter-rater reliability for inclusion and theme area allocation was more than adequate for the first 103 citations reviewed. Observed agreement was above 94% on each item and kappa scores were between 0.79 and 0.91, for all items and within themes, with the exception of citations coded as “productivity and economic participation” which obtained a kappa score of 0.66. In general, kappa scores between 0.8 and 1.0 indicate almost perfect agreement whilst scores between 0.6 and 0.79 suggest substantial agreement. In light of these results, the two researchers reviewed a random sample of the remaining citations to ensure inter-rater agreement.

Overall, inter-rater agreement was assessed for 260 citations. Observed agreement for each item was above 93%. Kappa scores were between 0.92 and 0.95 for overall inclusion, and the themes of “healthy ageing”, and “productivity and economic participation”. A kappa score of 0.85 was calculated for citations coded as “independent living and social participation”, and “population research strategies” obtained the lowest kappa score (0.76).

Overall, 1302 citations were coded as “healthy ageing”, 1063 as “independent living and social participation”, 286 as “productivity and economic participation”, and 177 as “population research strategies” (**Figure 1**). Many included citations were relevant to more than one priority theme area. For example, research on falls prevention interventions were coded “healthy ageing” and “independent living and social participation”, so themes were not mutually exclusive.

Database Structure

The ageing research database was constructed using Reference Manager (Version 10) (**Figure 2**). **Table 2** outlines the field codes included in the database and their description. Existing database fields were modified to suit the layout of each reference type. For example, grants included the codes funding, grant number, and status. The database was also imported into EndNote (Version 7). However, no custom modifications were undertaken to improve the layout of the EndNote database as changes cannot be transferred to another computer.

A copy of the database in both Reference Manager and EndNote format is provided on CD. It is anticipated that the final product will be copied onto CD-ROM and/or converted to web database on the Ageing Research Online website. Access to Reference Manager and EndNote software (available through most Australian universities) will be requisite for use of the database.

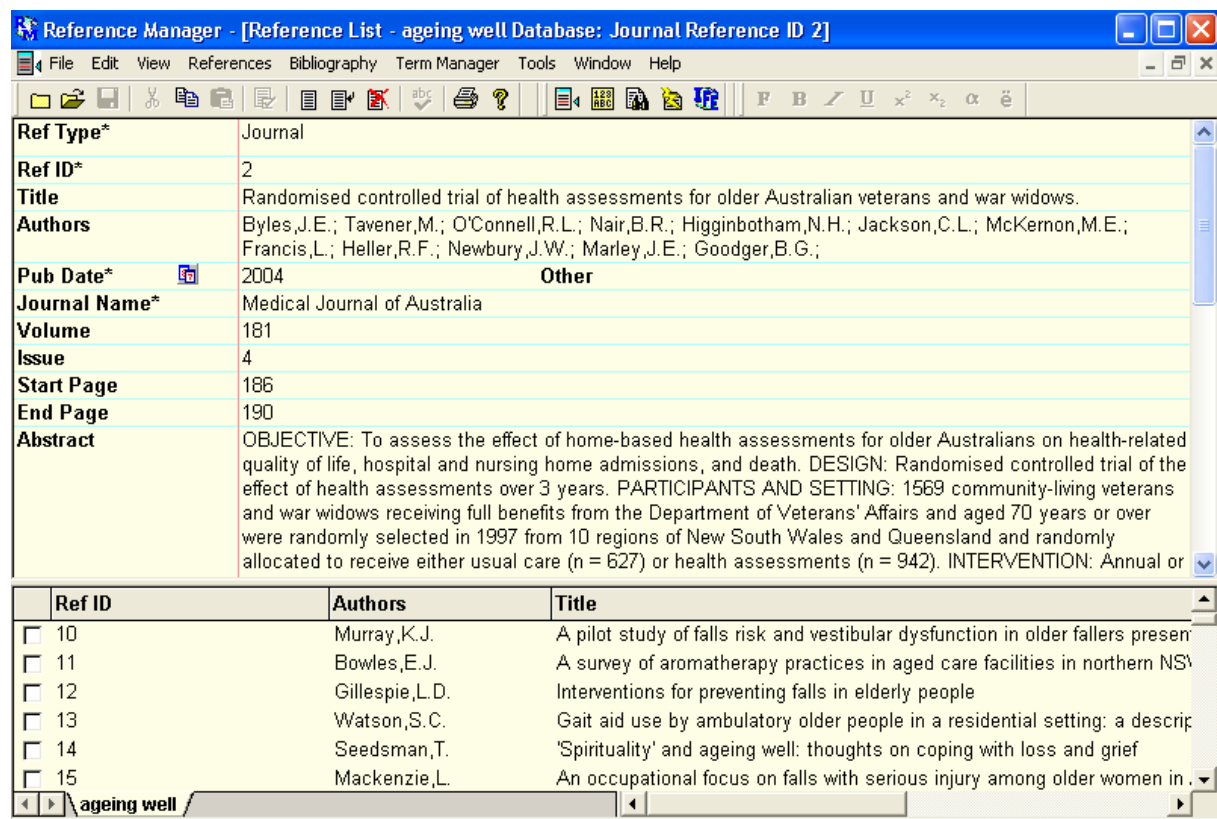


Figure 2. Example of literature database on ageing research

Table 2. Field codes included in the literature database on ageing research (Reference Manager version 10)

Field Code	Description
Ref Type	Journal, Book, (chapter), Book (whole), Report, Grant
Ref ID	Unique numerical identifier
Title	Journal article, book chapter, book, report, or grant title
Authors / Investigators	List of authors (publications) or investigators (grants)
Pub Date / Start Date / End Date	Year of publication, timeline of grant
Funding	Source of funding and amount
Grant Number	NHMRC or ARC grant number
Journal Name / Book Title	Journal name or book title
Volume / Edition	Volume or edition number
Issue	Issue number
Editors	Book editors
City	Place of publication
Publisher	Publisher of book or report
Start Page	Start page number
End Page	End page number
Series Title	Series title (where applicable)
Series Editors	Series editors (where applicable)
Abstract	Abstract or summary of article (if provided)
Notes	Notes, brief citation of letters, editorials or comments based on included article
Keywords	To identify article, includes keyword of priority area
Status	Status of grant (completed, ongoing, unknown)
Availability	Where article can be located e.g. hardcopy only (print), electronic full-text (free), electronic full-text (subscription), electronic full-text (pay upfront)
Web Links	Separate field codes for Web/URL, Link to PDF, Link to Full-text
ISSN / IBSN	ISSN and/or IBSN
Address	Address of corresponding author (if provided)

Recommendations

This prototype ageing literature database includes Australian ageing research specific to the four priority themes of the Research Network in Ageing Well, published within the last five years (1999 to September 2005). While it was suggested at the outset of this project that perhaps the last 10 years of Australian ageing research should be reviewed, the reviewers believe that the last 5 years of research should provide considerable guidance and incentive to the Network for future work. There seem to be deficits in volume and scope of published work in two of the themes, “productivity and economic participation” and “population research strategies”, compared to the other two themes. These themes therefore could warrant a greater focus in the short term, although the deficit in “population research strategies” may be a reflection of lack of maturity of the current longitudinal studies within Australia. Additionally, while several areas have been well covered in the other two themes (for example, falls, vision and dementia), there are identifiable gaps (for example, more general health promotion within “healthy ageing”, and more consideration of the social and environmental factors within “independent living and social participation”) which should be given some priority for continuing research efforts.

We suggest that searches be undertaken every 6-12 months to keep the database up-to-date. As this is intended as a dynamic database, we also suggest that theme leaders review the citations relevant to their particular theme to ensure consistency with their own thinking. There are currently 2906 keywords, so a more specific coding regime, developed with input by theme leaders, may enhance usefulness of the database for Network members. This would require concerted input from theme leaders. The current descriptions of the four themes are very broad, and lead to significant overlap in coding between themes.

Lastly, we believe it is very important that the database be widely advertised and distributed, to ensure adequate field testing. We suggest that it would be beneficial to launch the database at the NSW Rural Australian Association of Gerontology Conference, planned for 23 and 24 March, 2006, in Tamworth, NSW, if transfer to Ageing Research Online can be achieved in that time frame.

Appendix A: Search Strategy

AMED (Allied and Complementary Medicine) 1999-August 2005

#	Search History	Results	Notes
1	exp aged/	6431	Includes Frail elderly/
2	aging/	1795	
3	longevity/	23	
4	veterans/	23	
5	geriatrics/	273	
6	ag?ing.mp.	2359	Includes ageing, aging
7	aged.mp.	8572	
8	older.mp.	3930	Includes older people, older adults
9	elder\$.mp.	3695	Includes elder, elders, elderly
10	or/1-9	12308	
11	Australia/	719	
12	Australia.mp.	1156	
13	or/11-12	1156	
14	10 and 13	133	
15	limit 14 to yr="1999 – 2005"	103	
16	(kendig h\$ or bartlett h\$ or browning c\$).au.	11	
17	(healy j\$ or richardson s\$ or boldy d\$).au.	23	
18	(gibson d\$ or luszcz m\$ or andrews g\$).au.	53	
19	(anstey k\$ or banks e\$ or braithwaite j\$).au.	5	
20	(broe g\$ or budge m\$ or butler j\$).au.	37	
21	(bytes j\$ or celler b\$ or clark m\$).au.	73	
22	(clemson l\$ or cumming r\$ or earle l).au.	21	
23	(fiatarone-singh m\$ or gray l\$ or edwards h\$).au.	13	
24	(glasgow n\$ or harding a\$ or hesketh b\$).au.	6	
25	(gregory r\$ or hensher d\$ or hugo g\$).au.	26	
26	(jackson n\$ or lopez a\$ or mccallum j\$).au.	16	
27	(mcdonald p\$ or mcneil j\$ or minichiello v\$).au.	15	
28	(mitchell d\$ or ozanne e\$ or pachana n\$).au.	20	
29	(piggott j\$ or quine s\$ or rosenman l\$).au.	8	
30	(saunders p\$ or seedsman t\$ or stimson r\$).au.	16	
31	(thomas s\$ or de vaus d\$ or wilson j\$).au.	160	
31	(wooden m\$ or worrall l\$).au.	21	
32	or/16-31	519	
33	10 and 32	84	
34	limit 33 to yr="1999 – 2005"	41	
35	34 not 15	32	

Ageline 1999-August 2005

#	Search History	Results	Notes
1	Australia	1371	
2	limit results year: 1999 – 2005 audience type: research	589	

EconLit 1999-August 2005

#	Search History	Results	Notes
1	(elder*) or (older) or ((old age) in DE)	5276	appears anywhere, DE = descriptor
2	(ageing) or (aging)	3277	appears anywhere
3	1 or 2	6715	
4	Australia	12547	appears anywhere
5	3 and 4	201	
6	PY:ECON = 1999-2005	110	

AIHW Publications 1999-September 2005

#	Search History	Results	Notes
1	Ageing and Aged Care (health)	7	
2	Ageing and Aged Care (welfare)	46	
3	Other ageing related research published by Institute staff	11	Conference presentations excluded

Medline 1999-September Week 1 2005

#	Search History	Results	Notes
	Ageing Terms		
1	exp Aged/	415777	Includes: Frail elderly/; Aged, 80 and over/
2	exp Aging/	33753	Includes: Longevity/
3	Veterans/	1712	
4	Geriatrics/	2046	
5	ag?ing.mp.	46179	Includes: ageing, aging
6	older.mp.	50332	Includes: older people, older adults
7	elder\$.mp.	35561	Includes: elder, elders, elderly
8	or/1-7	471814	
	Australian Research Terms		
9	exp Australia/	19151	Includes all Australian states and territories

10	Australia.mp.	18905	
11	Australia.in.	59032	Australia as institution
12	or/9-11	69868	
	Healthy Ageing Terms		
13	Healthy ageing.mp.	309	
14	Health behavior/	6905	
15	exp Health status/	23111	Includes: Geriatric assessment/
16	exp Health promotion/	11070	Includes: Healthy people programs/
17	exp Health education/	25105	Includes: Health education, dental/ Health fairs/; Patient education/; Sex education/
18	exp *Attitude to health/	31330	Includes: Health knowledge, attitudes, practice
19	Mass screening/	17021	
20	exp Exercise movement techniques/	24917	Includes: Breathing exercises/; Dance therapy/; Drainage, postural/; Exercise/; Exercise therapy/; Relaxation/; Relaxation techniques/; Tai Ji/; Walking/; Yoga/
21	Physical fitness/	3719	
22	exp Diet/	27272	Includes: Diet vegetarian/; Diet Mediterranean/; Energy intake/
23	Nutritional status/	5128	
24	exp Nutrition therapy/	11027	Includes: Diet therapy/; Nutritional support/
25	*Chronic disease/	2327	
26	Dementia/	6486	
27	exp Dementia, vascular/	1630	Includes: Dementia, multi-infarct/
28	Alzheimer disease/	15795	
29	Parkinson disease/	9177	
30	Neurodegenerative diseases/	2850	
31	Depression/	11926	
32	Mentally ill persons/	587	
33	exp Hearing disorders/	10415	Includes: Hearing loss/; Deafness/; Hyperacusis/; Tinnitus/
34	exp Vision disorders/	8580	Includes: Vision, low/
35	Hearing impaired persons/	335	
36	Visually impaired persons/	293	
37	exp Osteoarthritis/	8320	Includes: Osteoarthritis, knee/; Osteoarthritis, hip/; Spinal Osteophytosis/
38	Arthritis/	2841	
39	Arthritis, rheumatoid/	11239	
40	exp Osteoporosis/	10313	Includes: Osteoporosis, postmenopausal/
41	exp Cerebrovascular accident/	20804	Includes: Brain infarction/
42	exp *Heart diseases/	116374	Includes: Heart failure, congestive/;

			Myocardial ischemia/; Pulmonary heart disease/; Coronary heart disease/; etc
43	Urinary incontinence/	3541	
44	Accident prevention/	864	
45	Accidental falls/	3497	
46	Accidents, home/	564	
47	Hip fractures/	2223	
48	exp Rehabilitation/	43759	Includes: Activities of daily living/; Art therapy/; Bibliotherapy/; Dance therapy/; Early ambulation/; Music therapy/; Occupational therapy/; Physical therapy techniques/; Rehabilitation of hearing impaired/; Rehabilitation, vocational/
Productivity & Economic Participation Terms			
49	Work/	805	
50	exp Employment/	10236	Includes: Employment, supported/; Personnel downsizing/; Unemployment/; Workplace/
51	Career mobility/	2338	
52	Retirement/	1089	
53	exp Psychology, industrial	12431	Includes: Absenteeism/; Efficiency/; Job satisfaction/; Task performance and analysis/; Time management/; Vocational guidance/
54	Risk sharing, financial/	512	
55	Financing, personal/	972	
56	exp Income/	9640	Includes: Pensions/; Salaries and fringe benefits
57	Investments/	1765	
58	Productivity.mp.	5080	
59	Older workers.mp.	136	
60	Attitude to computers/	1065	
61	volunteer work\$.mp.	52	Includes: volunteer work, workers
62	asset management.mp.	19	
Independent Living & Social Participation Terms			
63	exp Consumer participation/	6846	Includes: Patient participation/
64	Decision making/	13706	
65	Empower\$.mp.	2306	Includes: empowerment; empowered, empowering
66	Personal autonomy/	1945	
67	Communication/	11225	
68	exp Self care/	8153	Includes: Blood glucose self-monitoring/; Self administration/; Self medication/
69	exp Self help devices/	1326	Includes: Communication aids for disabled/; Wheelchairs/
70	exp Consumer satisfaction/	18550	Includes: Patient satisfaction/

71	Quality of life/	26929	
72	Social behavior/	5304	
73	exp Social isolation/	1921	Includes: Loneliness/; Social alienation/
74	exp Social environment/	15494	Includes: Community networks/; Social support/
75	Disabled persons/	4959	
76	Intergenerational relations/	764	
77	Elder abuse/	383	
78	Ethnic groups/	7513	
79	Cultural diversity/	2923	
80	exp Sexuality/	4492	
81	aboriginal.mp.	969	
82	indigenous.mp.	3418	
83	Health services, indigenous/	388	
84	Housing for the elderly/	463	
85	Environment design/	627	
86	exp Architecture/	3501	Includes: Facility design and construction/; Architectural accessibility/
87	exp Transportation/	9999	
88	Health services for the aged/	3179	
89	exp Home nursing/	1458	Includes: Respite care/
90	Geriatric nursing/	2240	
91	Residential facilities/	501	
92	Assisted living facilities/	206	
93	Nursing homes/	4955	
94	Homes for the aged/	1957	
95	Dental care for aged/	372	
96	Home care services/	4774	
97	Health services accessibility	11243	
98	Quality of health care/	11151	
99	exp *Health personnel/	45793	Includes: Caregivers/; Nurses/; etc
100	Attitude of health personnel/	20702	
101	Needs assessment/	10308	
102	Geriatric assessment/	4612	
103	grandparent\$.mp.	417	Includes: grandparents, grandparenting
Population Research Terms			
104	Longitudinal studies/	16206	
105	exp Demography/	211691	Includes: Age distribution/; Censuses/; Family characteristics/; Health status/; Population dynamics/; Population density/; Residence characteristics/; Sex distribution/; Vital statistics/

106	exp Vital statistics/	151505	Includes: Life expectancy;/ Life tables;/ Morbidity;/ Mortality;/ Pregnancy rate;/ Birth rate/
107	exp Population dynamics/	12043	Includes: Emigration and Immigration;/ Health transition;/ Population control;/ Population growth/;
108	or/13-107	721690	
109	8 and 12 and	5533	
110	limit 109 to (humans and English language)	5461	
111	limit 110 to yr="1999 – 2005"	5460	
112	limit 111 to ("all aged (65 and over)" or "aged (80 and over)")	4943	
113	adolescent/ or child/ or child, preschool/ or infant/ or infant, newborn/	426052	
114	112 not 113	3882	
115	limit 114 to (addresses or bibliography, or biography or case reports or classical article or clinical conference or comment or congresses or consensus development conference or consensus development conference, nih or corrected and republished article or dictionary or directory or duplicate publication or editorial or festschrift or government publications or guideline or historical article or interview or lectures or legal cases or legislation or letter or news or newspaper article or overall or patient education handout or periodical index or practice guideline or published erratum or retraction of publication or retracted publication or review or review, multicase or review of reported cases or review, tutorial or scientific integrity review or technical report or twin study or validation studies)	640	
116	114 not 115	3242	

CINAHL (Cumulative Index to Nursing and Allied Health Literature) 1999-September Week 3 2005

#	Search History	Results	Notes
1	exp aged/	108613	Includes: Frail elderly;/ Aged, 80 and over;/ Aged, hospitalized/
2	exp aging/	6141	Includes: Longevity/
3	veterans/	1158	
4	geriatrics/	554	
5	ag?ing.mp.	10736	Includes: ageing, aging
6	aged.sh.	104972	In subject heading
7	gerontologic care.sp,sh.	25139	In special interest category and subject heading
8	older.mp.	23589	Includes: older people, older adults
9	elder\$.mp.	21850	Includes: elder, elders, elderly
10	or/1-9	126450	

11	exp Australia/	17538	
12	Australia.mp.	14974	
13	Australia.in.	12743	Australia as institution
14	or/11-13	25295	
15	10 and 14	3627	
16	limit 15 to yr="1999 – 2005"	2747	
17	limit 16 to English	2744	
18	limit 17 to (middle age <45 to 64 years> or aged <65 to 79 years> or aged <80 and over>)	2287	Commentaries, editorials, letters etc searched for in Reference Manager and deleted

PsycINFO 1999-September Week 3 2005

#	Search History	Results	Notes
1	aging/	9039	
2	geriatrics/	1673	
3	gerontology/	2506	
4	ag?ing.mp.	19614	Includes: ageing, aging
5	aged.sh.id.	6525	In subject heading and key concept
6	older.mp.	45993	Includes: older people, older adults
7	elder\$.mp.	32958	Includes: elder, elders, elderly
8	old age.mp.	4513	
9	or/1-8	83227	
10	Australia.mp.	9341	
11	Australia.in.	34968	Australia as institution
12	Australia.lo.	12632	Australia as study location
13	or/10-12	38194	
14	9 and 13	2533	
15	limit 14 to yr="1999 – 2005"	1291	
16	limit 17 to (human and English language)	1226	Commentaries, editorials, letters etc searched for in Reference Manager and deleted

Sociological Abstracts 1999-September 2005

#	Search History	Results	Notes
1	DE=(elderly or aging or gerontology) or TI=(elder* or older or aged) or AB=(elder* or older)	3495	DE = descriptor, TI = title, AB = abstract
2	DE=Australia or TI=Australia or AB=Australia	2028	
3	1 and 2 Limited to date range 1999-2005, English, Journal articles	99	

The Cochrane Library 1999-September 2005

#	Search History	Results	Notes
1	elder* in All Fields or aged in Record Title or older in Abstract or older in Record Title or ageing in All Fields in all products	20861	
2	Australia in All Fields in all products	9925	
3	(#1 and #2) from 1999-2005	374	

The Joanna Briggs Institute 1999-September 2005

#	Search History	Results	Notes
1	JBI Systematic review database	55	
2	Ageing related research	5	

Commonwealth and State Government Websites 1999-September 2005

#	Search History	Results	Notes
1	Commonwealth Department of Health and Ageing	16	
2	Commonwealth Department of Veterans' Affairs	7	
3	Australian Bureau of Statistics	18	
4	NSW: Department of Ageing, Disability and Home Care	1	
5	NSW: NSW Health	3	
6	VIC: Department of Human Services, Aged Care Branch	8	
7	QLD: Queensland Health	2	
8	QLD: Department of Communities	1	
9	WA: Office for Seniors' Interests and Volunteering	8	
10	SA: Department for Families and Communities, Office for the Ageing	3	
11	TAS: Department of Health and Human Services	1	
12	ACT: Office of Ageing	1	
13	ACT: ACT Health	4	
14	NT: Department of Health and Community Services	0	

NHMRC 1999-September 2005

#	Search History	Results	Notes
1	Aged Care publications	6	
2	Limit 1 to 1999-2005	1	
3	Older (publications search)	47	
4	Limit 3 to 1999-2005	1	
5	Project grants (2003-2005)	2167	
6	"elder", "ageing", "aging", "older", "old age", "aged care"		Searched for using "Find" in Microsoft Excel (title)
7	"Geriatrics and Gerontology", "Aged Care Nursing", "Residential Client Care"		Searched for using "Find" in Microsoft Excel (field of research)
8	6 or 7	51	

ARC 1999-September 2005

#	Search History	Results	Notes
1	Ageing related publications	0	
2	Discovery projects and large research grants (2000-2005)	4849	
3	"elder", "ageing", "aging", "older", "old age", "aged care"	39	Searched for using "Find" in Microsoft Word (title and abstract)

Other Grants 1999-September 2005

#	Search History	Results	Notes
1	The Hammond Care Group (Bernard Judd)	10	
2	Australian Association of Gerontology	0	None listed on website
3	Department of Veterans' Affairs	0	None listed on website
4	Alzheimer's Australia	0	None listed on website
5	Parkinson's Australia	0	None listed on website
6	Ageing Research Directory (2000)	731	
7	Limit 6 to 1999-2005	568	

Coding Manual

Inclusion Criteria

The database will include journal articles, books, book chapters, reports, and grants meeting all of the following selection criteria:

- The article was published within the last five years (1999-2005).
- The work was undertaken by Australians and/or in Australia (e.g. multi-centre international research).
- The publication was research-based (e.g. reviews, original research, epidemiological studies, qualitative and quantitative research). Letters, commentaries, editorials, and ethnographies in relation to ageing are to be excluded.
- Research was conducted in humans (not animals).
- The publication addressed one or more of the four priority theme areas. Biomedical science literature will generally be excluded, except in relation to clinical research where implications and outcomes for individuals or the community are reported.

Priority Theme Areas

Healthy Ageing

A publication may be considered under the theme area of “Healthy Ageing” if it examines any of the following topics:

- Ways in which older people can actively maintain or restore their health and well-being (e.g. physical activity, nutrition)
- Ways in which social environments and health promotion interventions can actively postpone, reduce or prevent health problems associated with ageing
- Determinants and impacts of healthy ageing from a range of perspectives (e.g. biological, behavioural, psychological, social, environmental, economic)
- Age-related chronic illness and neurodegenerative diseases (e.g. mental illness, cognition)
- Prevention, management, and rehabilitation in persons exhibiting or at risk of frailty and disability

Productivity and Economic Participation

A publication may be considered under the theme area of “Productivity and Economic Participation” if it examines any of the following topics:

- The willingness of employers to hire older workers
- Factors affecting retirement decision-making
- The changing character of labour markets
- Informal contributions to productivity and how we value them
- The increased propensity to live alone and how this might relate to domestic productivity
- Feelings of safety and mastery of domestic technologies and the technologies of consumption (e.g. banking and payment systems, public transport and libraries) in enabling older people to be self-providing in the domestic sphere
- Adequacy of savings and public and private financial risk sharing
- Enhancing the capacity of older people, particularly women, to manage their assets for and in retirement and what works to help protect people from financial abuse and fraud

Independent Living and Social Participation

A publication may be considered under the theme area of “Independent Living and Social Participation” if it examines any of the following topics:

- Personal factors affecting positive outcomes for older people (e.g. self-management, self-actualisation, client decision making and empowerment, resident satisfaction, quality of life)
- Social factors impacting on independence and participation (e.g. social support, prevention of social isolation, disability and ageing, culture and ethnicity, intergenerational relations, attitudes towards older people, social inclusion, asset management)
- Environmental factors influencing independent living and social participation (e.g. transportation, falls prevention, environmental adaptation, accessibility issues, the built environment, affordable housing options, intelligent homes)

- The quality and adequacy of professional services for older people (e.g. community care and case management, assessment and health service use, staff skills and communication in residential aged care, regulation and quality care)

Population Research Strategies

A publication may be considered under the theme area of “Population Research Strategies” if it examines any of the following topics:

- Population dynamics of ageing including lengthening of the life span and effects of migration and birth rates
- Patterns of life expectancy
- Longitudinal studies

A publication may be relevant to one or more priority theme areas. If the publication is not relevant to any theme area, then it should not be included in the database.