report 21



The Australian Longitudinal Study on Women's Health

20 September 2003





in association with

REPORT 21

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EXECUTIVE SUMMARY

- 1. This Report, unlike previous six-monthly Reports, covers a three-month period. Major activities have been the production of brochures outlining research synthesis work, continuation of Survey 3 of the Younger cohort, development of Survey 4 of the Midage cohort, preparation of a newsletter to distributed to all participants in October, negotiation over continued funding of the project, student supervision, conduct of substudies and analyses, statistical and data management, and conference presentations.
- 2. The "glossy" reports that summarise Research Syntheses conducted in the first half of 2003 have been completed and provided to the Department of Health and Ageing. Additional copies have been distributed widely to other Commonwealth and State Departments, and to other relevant government and non-government organizations.
- 3. The work program of annual surveys continues to progress smoothly. Survey 3 of the Younger cohort was mailed in March. During the reporting period, intensive efforts have been made to track and telephone non-respondents, and the response rate for this survey is now 60%, at 9th September 2003. Planning for Mid-Age Survey 4, which will be conducted in 2004, is continuing. The survey has been finalised and pilot work is currently under way. The data from Older Survey 3, collected in 2002, have been cleaned and distributed within the research team.
- 4. Graduate research students provide an important dimension to the project. In the reporting period, it is pleasing to note that two PhD students have submitted their theses in this three-month period and several others are working towards completion later in the year. Research students are an investment in the future of health research and evaluation in this country. Most are supported by scholarships and grants from other sources, meaning that they add to the project and its outcome without significant cost to core funds.
- 5. Other research activity has continued during the reporting period. A number of substudies and additional analyses are underway. These include substudies on and health services for older women with cardiovascular disease; the health service experiences of family caregivers; processes of negotiating time use within couples; and mid-age women's history of contraceptive use.
- 6. Work on methods and measurement has also continued during the reporting period. In particular, work is being carried out on variables defining risky behaviours such as unsafe alcohol consumption, cigarette smoking, and the use of illicit drugs.
- 7. Dissemination of findings to the scientific community has included the publication of five papers in peer-reviewed academic journals, the acceptance of seven other for future publication, and six conference presentations at national meetings, as well as a range of other symposia and public addresses.
- 8. The research team has expended considerable time and effort in organizational activity. This has mainly centred on re-funding of the project. At the time of printing, we are awaiting the outcome of negotiations over continued funding. We hope for a

satisfactory resolution that will enable us to concentrate on the project rather than on financial negotiation. At the same time, there has been some structural reorganization. Professor Christina Lee, who has been Project Manager in Newcastle since January 2000, has relocated to the University of Queensland and is now the Project Coordinator (65% full time). Dr Penny Warner-Smith has taken over as Interim Project Manager in Newcastle, while Professor Lois Bryon has taken on the part-time position of Director of the Research Centre for Gender and Health. With the new arrangements in place, the research team is confident of our ability to maintain continuity.

1. COLLABORATIVE RESEARCH ACTIVITIES

1.1. SCIENTIFIC MEETINGS AND TELECONFERENCES AMONG RESEARCH TEAM

The strategy of electing a Steering Committee who participate in teleconferences and other planning activities, and report to the broader group of Investigators, has continued. The Steering Committee consists of a core group of Investigators who are able, at the time, to commit considerable effort to the project. Membership is flexible and decided on an annual basis, so that a group of about six people are involved at this level at any one time. Current Steering Committee members are: Annette Dobson (Chair); Wendy Brown; Lois Bryson; Julie Byles; Christina Lee; Penny Warner Smith; and Anne Young.

Appendix 1.1 includes meeting notes and minutes for Steering Committee teleconferences held on 7th July 2003; 7th August 2003; and 4th September 2003.

A face-to-face meeting of researchers and staff from the Universities of Newcastle and Queensland who work with the data was held on Friday 11th July 2003. This resulted in the production of two detailed work plans covering the period from July 2003 until December 2005, one covering surveys, data preparation and analyses, and the other listing the reporting process. These work plans, together with notes from the meeting, appear in Appendix 1.2. It should be noted that the work plans and timetables are provisional and will be modified as necessary when a further contract is finalized.

1.2. SUMMARY OF COLLABORATIVE RESEARCH ACTIVITIES 1.2.1. Projects completed and in progress by WHA investigators and collaborators

Project:	Violence against young women and reproductive health
WHA Investigator:	Professor Christina Lee
Collaborative Investigators:	Dr Angela Taft (Centre for Mothers' and Children's Health, La
	Trobe University) & Dr Lyn Watson (Centre for Mothers' and
	Children's Health, La Trobe University)
Funding Source:	Office for the Status of Women

This analysis of existing data has been commissioned by the Office for the Status of Women, Department of the Prime Minister and Cabinet, and has been under way since mid 2002. The project is in three parts:

- A cross-sectional analysis of the correlates of violence against young Australian women at each of Surveys 1 and 2, completed in March 2003
- A report on these analyses to the Office for the Status of Women's annual conference, held in March 2003
- A longitudinal analysis of patterns of consistency and change in experiences of abuse, and of the longer-term effects of abuse on reproductive health across Surveys 1 and 2, completed in mid September 2003.

The final report describes the associations of violence against young Australian women, with an emphasis on reproductive health. While there is already some clinical evidence from Australia, and community-based surveys from overseas, the Australian Longitudinal Study on Women's Health provides the first Australian evidence at a population level on this topic.

Data from Survey 1 (1996) and Survey 2 (2000) of the Young cohort of ALSWH provide the raw material for this analysis. Cross-sectional analyses of the two surveys and the transitional analysis have been completed and reported. At each survey, women were categorised into four mutually exclusive groups:

- 1. No violence: women in category 1 report not having experienced violence or abuse 75% at Survey 1; 82% at Survey 2
- 2. Recent non-partner violence (physical or sexual violence from people other than intimate partners)
 - 13% at Survey 1; 5% at Survey 2
- 3. Previous partner violence
 6% at Survey 1; 7% at Survey 2
- 4. Partner violence together with current or recent physical or sexual violence 5% at Survey 1; 3% at Survey 2

Overall, 24% of young women reported violence in Survey 1 and 15% in Survey 2. Experience of violence, particularly violence by partners, was associated with significantly poor reproductive and pregnancy outcomes and reproductive risks, as well as with a range of demographic factors, poor mental and physical health, unhealthy behaviours such as drinking and smoking, and low social support. Nevertheless, the survey also provides evidence of the beneficial effect of social support in enhancing victimised women's physical and mental wellbeing and the protective effect of education. As women separate and are more removed from the violence, their mental health improves.

The data demonstrate that partner violence in particular is associated with a worrying level of health problems, many of which have far-reaching implications for these women's health and the health of their children. While some health problems improve when women separate, others such as STDs persist and still place women at risk, indicated by high abnormal pap smears rates, even in this young age group. They also provide evidence of women's active help-seeking from health services, which increases as women's experience of violence intensifies. They indicate a need for concerted efforts to prevent violence against women, to educate health service providers in the identification of violence, the many serious risks associated with it and to provide appropriate and effective early interventions, especially in partner violence.

This report includes a linked analysis of women's Survey 1 and Survey 2 data, allowing an exploration of the effects of changes in women's life circumstances on their experiences of violence and on their reproductive health and on their wider health and wellbeing.

Project:	How well do health and community services help older people
-	with neurodegenerative disorders and their family caregivers?
WHA Investigators:	Professor Annette Dobson, Professor Christina Lee
Collaborative Investigators:	Dr Leigh Tooth, Professor Andrew Wilson, Assoc Professor
	Gerard Byrne
Funding Source:	NHMRC Project Grant

This is a comparative study of family carers for older people living with neurodegenerative

disorders which are likely to require different types of support and services. Disorders may have effects which are largely cognitive (eg Alzheimer's disease), largely physical (eg Parkinson's disease), or both. Information will be obtained from carers of their experiences of health care and other services, and the impact of caring on their own health.

Draft surveys were assessed by focus groups of women caring for family members with a range of disabilities. These showed that considerable revision of the content and layout was required, in order to be responsive to the needs and concerns of caregivers. Surveys have been revised and a further round of focus groups, targeting carers of family members with neurodegenerative disorders only, is being arranged. Following these focus groups, and any further adjustments to the survey instruments, a survey of Older caregivers is planned for 2004.

Project:	Are cardiac conditions in older women managed appropriately?
WHA Investigator:	Professor Annette Dobson
Collaborative Investigators:	Professor Andrew Wilson & Ms Lindy Humphreyes-Reid
	(Queensland University)
Funding Source:	NHMRC Project Grant & NHMRC scholarship for Ms
-	Humphreyes-Reid

Cardiac conditions, including heart attack, heart failure, angina and hypertension, are very common among older Australians. They account for a large proportion of mortality, morbidity and health care costs. For most of the conditions there are highly effective treatments, however there is evidence that these are not as well used as they might be. Also, for women, diagnosis may be delayed because of perceptions that heart disease is a problem mainly of men. This substudy is based on the Older cohort of ALSWH. Women with cardiac conditions will be surveyed concerning their medical care. This targeted information, together with data from the main Surveys 1, 2 and 3, and Medicare unit records where they are available, will be compared with best practice guidelines established by NHMRC and the National Heart Foundation of Australia. The first stage of this project involves the development and validation of the targeted survey. This will be done with groups of cardiac patients with known diagnoses, drawn from hospital and general practice populations.

Project:	Weight maintenance in young women
WHA Investigator:	Dr Kylie Ball
Collaborative Investigators:	Associate Professor David Crawford (School of Health
	Sciences, Deakin University)
Funding Source:	NHMRC Fellowship; Internal Deakin University Funds

This substudy follows-up a selected sample of women from the Younger cohort who have gained weight between surveys 1 and 2 and women who have maintained their weight during this period, and to investigate potential psychosocial and environmental predictors of weight gain/maintenance in this cohort. Surveys were mailed to 1200 young women early in 2002, and completed surveys were received from a total of 939 women. Data coding, entry and cleaning has been completed and preliminary analyses are continuing.

Project:	Dietary Analyses: Mid-age Women
WHA Investigator:	Dr Kylie Ball, Professor Wendy Brown, Professor Annette
	Dobson, Professor Christina Lee, Dr Gita Mishra, Dr Amanda
	Patterson
Collaborative Investigators:	Allison Hodge (Cancer Council Victoria)
Funding Source:	NHMRC Travel award (Dr Kylie Ball); MRC-NHR

This series of analyses aims to describe the diets of Australian women and how they vary by sociodemographic and health characteristics. Analysis of Food Frequency Questionnaire data from the Mid-age cohort was conducted during a visit by Investigator Kylie Ball to Cambridge University where she worked with Investigator Gita Mishra. Two papers – one focusing on describing the dietary intakes of women in the Mid-age cohorts, and one on assessing the extent to which they meet dietary guidelines – have been submitted for publication.

Project:	Work-life tensions: time pressure, leisure and well-being among dual-earner parents in Australia
WHA investigator:	Professor Peter Brown, Professor Lois Bryson & Dr Penny Warner- Smith
Collaborative investigators: Funding Source:	Associate Professor Duncan Ironmonger (Melbourne University) ARC Discovery Grant (2003-2005)

Project summary: Empirical studies of work-life tensions, especially for women, have rarely considered how individuals actually experience time pressures. The main aim of this project is to examine the hypothesis that well-being is positively related to reduced time pressure, more leisure and greater control over time schedules. The project will use an innovative time-use sampling method to examine this hypothesis for parents in dual-earner households. The project will also investigate relationships between women's time use, life course experience and measures of physical and mental well-being by using data already available from the Mid-age and Younger cohorts.

Project progress: Ethics applications were submitted to Griffith and Newcastle Universities in January and both have been approved. Focus groups are currently being conducted in Newcastle and Brisbane, with participants recruited from outside the ALSWH study. Subsequent phases of the study – using random time-sampling and follow-up interviews – will involve a sample of 50 mid-age and 50 younger women selected from the ALSWH study, and their partners.

Project:	Comparison of non-heterosexual and heterosexual women in Young Survey 2
WHA investigator:	Professor Christina Lee
Collaborative investigators:	Dr Ruth McNair & Ms Liz Stewart (Melbourne University).
	Professor Marian Pitts, Dr Lynn Hillier, Dr Anne Kavanagh, Ms
	Philomena Horsley & Ms Anne Mitchell (Australian Research
	Centre in Sex, Health and Society, La Trobe University)
Funding Source:	Royal Women's Hospital, Victoria - donation\$5 000Further funding is being sought\$5 000

The research team has recently re-convened due to new funding and are planning analysis from two different ALSWH surveys.

Younger Survey 2

Comparison between the non-heterosexual and heterosexual women initially focused on mental health and drug use. The analysis planned next includes: health service usage sexual health, cervical health reproductive (pregnancy, abortion, contraceptive) exercise, body image, BMI, diet

Subgroups of the research team will look at each of these areas with a view to preparing papers for publication.

Mid-age Survey 3

The analysis will begin during September to October 2003. It is expected that areas will be analysed that allow comparison between the young and middle-aged cohorts.

1.2.2. Completed postgraduate theses (since June 2003)

Project:	Stress, health behaviours and the transition to adulthood among young
	women
Degree:	PhD Thesis
Candidate:	Mrs Sandra Bell (University of Newcastle)
Supervisor:	Professor Christina Lee
Funding Source	University of Newcastle Science Faculty Postgraduate Award and
	Research Quantum Funds
Date of Submission:	4 July 2003

Stress, smoking and physical activity are areas of particular concern for young women, as they report higher levels of stress, are taking up smoking at a higher rate, and are less likely to undertake vigorous leisure time physical activity, than young men. In this thesis the health psychology concepts of stress, smoking and physical activity were examined in a life-span perspective. The focus was on the transition to young adulthood, which is a time of many changes for most individuals and represents the move from a dependent adolescent to an independent adult. The transition to young adulthood was defined objectively by using positions in four life domains: residential independence, employment, relationships and parenthood. Young women participating in the ALSWH project, who were aged 18 to 23 at Survey 1 in 1996 and 22 to 27 at Survey 2 in 2000, provided the data used in this thesis. The majority of these women could be classed as being in the transition to young adulthood at the time of both surveys. The stages of transition to young adulthood were used to examine, both cross-sectionally and longitudinally, the relationships with stress, smoking and physical activity. Overall, the strongest relationships were found with stress and smoking. Physical activity was most strongly related to relationship and motherhood, but not to other stages or transitions. A consistent finding was that participants who were in the most adult stage by Survey 1 showed the most negative outcomes for longitudinal changes in stress, smoking and physical activity. The exact age at which life changes were made could not be ascertained from the main surveys. This led to a survey, which asked about the timing of six major life changes, being sent to a subsample of the young women. Early timing of the life changes

was found to be most related to negative outcomes for smoking behaviour. The implications for health and developmental psychology theories and prevention/intervention strategies are discussed. Future research could incorporate more subjective measures of the transition to young adulthood, whilst future work will entail the examination of a more complex assessment of longitudinal transitions and the impact of the timing of transitions.

Project:	Abused Mid-aged Women in Australia: Experiences, Well-being, and
-	Ways of Coping
Degree:	PhD Thesis
Candidate:	Ms Glennys Parker (University of Newcastle)
Supervisor:	Professor Christina Lee
Funding Source	University of Newcastle
Date of Submission:	9 th September 2003

This thesis examines the relationship between characteristics of abuse, coping, and emotional well-being among women from the Australian population. Using data from the mid-aged cohort (N = 12339) of the Australian Longitudinal Study of Women's Health, abused women (n = 4268) were identified as an at-risk group for a number of adverse health, behavioural, and social problems. One hundred and forty-three women, who had earlier participated in a targeted survey on their experiences of abuse, completed a second questionnaire that drew on both quantitative and qualitative methods to investigate the strategies used to cope with abuse in adult relationships. This survey included the Revised Ways of Coping Checklist and the Antonovsky Sense of Coherence scale. Multivariate analysis of variance showed that problem-focused coping at the time of the abuse was not related to current emotional health, while emotion-focused coping was related to poor emotional health, and a high sense of coherence was related to better emotional health. Using data from this and the earlier abuse surveys, analysis of covariance indicated that the effect of emotion-focused coping on emotional health was indirect, through its inverse relationship with sense of coherence. In the final summary path model, sense of coherence emerged as the only coping measure to have significant direct effects on current emotional health. Greater use of emotion-focused coping was associated with frequent abuse, with the number of abusers, with talking about the abuse to a medical practitioner, with emotional abuse, with returning to an abusive partner, with feeling a bond with other abused women, with feeling vulnerable to further abuse, and with viewing oneself as a victim, and not with talking about the abuse to family or friends. After controlling for emotion-focused coping, a high sense of coherence was positively related to disclosure of the abuse to family and friends, but inversely associated with abuse from strangers, with frequent abuse, with recent abuse, with talking about the abuse to a psychiatrist, with talking about the abuse to a social worker, with talking about the abuse to a financial advisor, with feeling vulnerable to further abuse, and with viewing oneself as a victim. However, characteristics of abuse experience explained less than 29 per cent of the variance on coping measures. Qualitative analysis of women's own descriptions of useful ways of coping generally identified self-determination and self-affirmation, distancing and distraction tactics, and open disclosure of the abuse. The thesis concludes that coping is more usefully viewed as a personal resource than as a strategy, and its efficacy in situations of abuse will be determined by each woman's perception of the situation, by the degree of challenge to comprehensibility, manageability, and meaningfulness, and by the extent of individual resolve for change.

1.2.3. Student projects in progress

Table 1.1 lists students who are currently enrolled in PhD projects. All provided progress reports in June 2003 (Report 20) and will provide further reports in December 2003 (Report 22).

Name	Institution	Supervisors	Thesis topic	Expected Submission Date
Melissa Graham	La Trobe (Bendigo)	Erica James Helen Keleher Julie Byles	Treatments for Menstrual Symptoms: An Epidemiological Investigation	Oct 2003
Esben Strodl	University of Queensland	Justin Kenardy	Psychological factors in coronary heart disease	Oct 2003
Heather McKay	University of Melbourne	Jane Fisher	Childlessness and the Role of Choice in Childless Women's Reproductive Outcome	Maternity leave
Lauren Miller-Lewis	Flinders University	Tracey Wade Christina Lee	Wade Psychosocial Risk	
Nadine Smith	University of Queensland	Annette Dobson Nancy Pachana	Depressed mood: Psychometric and Health-Related Issues	Jan 2005
Cate France	University of Newcastle	Christina Lee Sue Outram	An exploration of how young Australian women cope with depressive symptoms	Sept 2005
Liane McDermott	University of Queensland	Annette Dobson Neville Owen	Reducing cigarette smoking among young women	March 2006
Lindy Humphreyes- Reid	University of Queensland	Annette Dobson Andrew Wilson	Management of cardiac conditions in Older women	Nov 2006
Sheree Gregory	University of Melbourne	Jill Astbury Penny Warner- Smith	Understanding Young Women's Decision- making Regarding Employment whilst Pregnant	Feb 2009

Table 1.1. Currently enrolled PhD studer	its
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1.3. RESEARCH SYNTHESIS "GLOSSY" BROCHURES

A major activity in the previous reporting period was the preparation of five research syntheses - overviews focusing on current policy issues for the Commonwealth Department of Health and Ageing – in the areas of Chronic Disease and Health Service Use, Healthy Ageing, Mental Health, Physical Activity and Obesity, and Rural Health.

In order to increase the profile of the Study across the Department of Health and Ageing, and to introduce it to staff who may not have been aware of potential relevance in their area of responsibility, five eight-page "glossy" brochures were designed. These aimed to present the most important and policy-relevant aspects of the Research Syntheses in an attractive and readily accessible format, and included references for obtaining further information. The material was prepared by the research team, and layout was done by Tim Neve. Brochures have been produced, and as well as distribution within the Department of Health and Ageing they have been distributed widely among State Departments of Health, other Commonwealth Departments, relevant NGOs, politicians, public servants and academics.

Copies of the five brochures appear in Appendix 2.

2. CONDUCT OF SURVEYS

2.1. YOUNGER SURVEY 3 (IN PROGRESS)

Survey 3 for the Younger cohort was mailed initially in March 2003. Copies of survey materials were included in Report 20 (June 2003). Table 2.1 summarizes the timetable for Survey 3 of the Younger Cohort, and Table 2.2 the response rates at the 9th of September 2003.

Date	Mailout	Items	Number
11 March 2003	Mailout 1	Package mailed including survey, reply- paid envelope, letter of invitation and change of details card	12,796 mailed
7 April 2003	Mailout 2	Thank you/reminder leaflet mailed to all in Mailout 1, except recent withdrawals	12, 285 mailed
12 May 2002	Mailout 3	Reminder leaflet to all non-responders	6,008 mailed
June and July 2003	Extra mailouts	 Packages mailed (as Mailout 1) to: those previously not sent surveys because of no current contact details, who have since given new contact details; those who elected to have telephone interviews; 	2,270 mailed to date
June – October 2003	Phone reminder	 those who rang to say they received a reminder but did not receive the first survey; those who have been tracked following return-to-sender Reminder phone calls to all non-respondents will be carried out 	Approx 5,000

Table 2.1. Timetable for Younger Survey 3 (at 9th September 2003)

Table 2.2. Response Rates for Younger Survey 3 (at 9th September 2003)

	N	%
Completed Surveys	7971	61.0%
Deceased	3	0.0%
Withdrawn	211	1.6%
Overseas – will not do	62	0.5%
Not this time	96	0.7%
Other have not returned	4723	36.1%
survey		
TOTAL	13,066	100.0%

Survey 3 of the Younger Cohort is progressing smoothly. While Younger women have been difficult to track in previous years, they are now slightly older (age in 2003 is between 25 and 30) and many appear to be leading somewhat more stable lives. The number who are changing their surnames is still considerably higher than in the Mid-age and Older cohorts, but these women are now much more likely to be listed in Electronic White Pages and Electoral Rolls. Further, many of those who have been travelling overseas have now returned to Australia. There is still a substantial number working and travelling overseas, and once again we have been able to provide a British maildrop for the high proportion of overseas women who have permanent or semi-permanent British addresses. These women are invited to return their surveys to Dr Janice Muir at the University of Cardiff in Wales, who then returns the surveys to the Women's Health Australia office.

2.2. MID-AGE SURVEY 4 (PILOTING)

Preparation for the fourth survey of the Mid-age cohort, which is scheduled to take place from March 2004, began in March 2003. The Mid-age women will be aged between 53 and 58. A meeting of the research team was held on 12th June 2003 to make decisions about possible changes for Survey 4 of the Mid-age cohort. Restrictions on modification include the necessity of maintaining consistency for longitudinal analysis; a perception that a longer survey might be unacceptable to many respondents; additional costs for printing and postage of a longer survey; and the need to pay copyright holders for some materials.

Table 2.3 outlines the changes made between Mid-Age Survey 3 and the pilot version of Mid-age Survey 4, together with sources of items and explanations of changes.

Approval for pilot testing of Survey 4 has been obtained from the University of Newcastle Human Research Ethics Committee. The pilot survey will be mailed to 369 women, originally from the Bathurst and Illawarra areas, who have also served as pilot test participants for Mid-age Surveys 1, 2 and 3. This part of the surveying procedure is scheduled to take place on the 12th of September 2003.

Table 2.3. Summary of items in Mid-Age Pilot Survey 4, derivation, and relationship to Mid-Age Survey 3 (2001).

Mid 4 Pilot item number	Question description					
1-11	SF-36	Ware JE & Sherbourne CD. The MOS 36- Item Short-Form Health Survey	No change	M3Q1-M3Q11		
12 a-c	No. of times consulted a family doctor or a GP, hospital doctor, specialist doctor	WHA	No change	M3Q12a-c		
13 a-n	Whether consulted health care professionals	Modified from ABS. 1989-1990 National Health Survey. Summary of results, Australia. Canberra: ABS, 1991; Catalogue No. 4364.0. consultations	Chiropractor and osteopath combined into one item Massage therapist added "Other allied or alternative health practitioner" changed to "Other			
			alternative health practitioner"			
14 a-b	Consistency of GP visit			M3Q14a-b		
15	Cost of last GP visit	WHA	No change	M3Q15		
16	GP lifestyle advice	WHA	New - responding to DoHA interest in promoting the role of GPs in lifestyle change			
17	Date of birth	WHA	No change	M3Q32		
18	Health care card	WHA	No change	M3Q17		
	DVA coverage	WHA	DELETED, now covered by M4Q19	M3Q18		
19	Health insurance for hospital cover/ancillary services	WHA	Changed back to M2Q18 and M2Q19, including reasons for not having cover (one option from M2Q19 was deleted for consistency and because of very low endorsement at M2	M3Q19		
20 a-r	Access to health care		Item k small grammatical change Item r "advice from health professionals about lifestyle changes" added to reflect DoHA concerns	M3Q20a-q		

Mid 4 Pilot item number	Question description							
21 a-b	last had a pap/mammogram							
22 a-b	abnormal pap/mammogram			M3Q24a-b				
23 а-е	screening			M3Q25a-e				
24 a-b	OCP/HRT			M3Q26a-b				
25 а-с	menstrual history			M3Q27a-c				
26	menstrual changes			M3Q28				
27	age periods stopped			M3Q29				
28	Dates of children's births	WHA	NEW. Identical to Y3Q36					
29 a-s	Medications	WHA	Expanded to provide more detail: "pain" changed to "headache" "backache" "other pain" Added "high blood pressure", "high cholesterol", "heart problems", "diabetes" "asthma"	M3Q33				
30			No change	M3Q34				
31a-g	Falls	DVA trial NEW. Identical to O3Q15a-g						
32 a-w	Medical History	Modified from ABS 1989-1990 NHS	Added skin cancer (so that they will not endorse "other cancer"). Removed HIV/AIDS, hepatitis. Combined types of diabetes.	M3Q35a-y				
33a-f	Sleeping problems	Nottingham Health Profile	NEW. Identical to O3Q14a-f					
34	Trouble staying awake	WHA	NEW.					
35а-р	Surgery/procedures	WHA	Expanded. Added "joint replacement", "removal of skin cancer", "other cancer surgery", "chemotherapy", "other surgery". Deleted "cosmetic surgery"	M3Q36a-1				
36	Caesarean birth	WHA	NEW					
37a-f	Memory changes	Crook T et al. Assessment of memory complaints in age-associated memory impairment: The MAC-Q. International Psychogeriatrics, 1992; 4:165-75.	NEW. Identical to O3Q33a-f					
38 A/B/C a-u	Symptoms and help seeking	WHA (Survey 1) with revisions	"leaking urine" and "passing urine 2x night" deleted - replaced by M4Q39. Four items about menstruation replaced with "menstrual problems". "difficulty sleeping" deleted - replaced by M4Q32-33.	M3Q37a-aa				

Mid 4 Pilot item number	Question description	Source	Notes	Identical or similar item in Mid 3 survey
39	Life isn't worth living	Modified from Beck A, Schuyler D & Herman I. Development of the Suicide Intent Scale. In Beck AT, Resnick HLP & Lettieri D. The prediction of suicide. Bowie PA: Charles Press, 1974.	No change	M3Q21
40	Self-harm	Modified from Beck A, Schuyler D & Herman I. Development of the Suicide Intent Scale. In Beck AT, Resnick HLP & Lettieri D. The prediction of suicide. Bowie PA: Charles Press, 1974.	No change	M3Q22
41	Urine leakage	Gunthorpe PhD	NEW	
42	Need help	WHA	No change	M3Q75
43a-b	Residential and postal postcode	WHA	No change	M3Q48a-b
44	Serious illness/condition/ disability	WHA	No change	M3Q16
45a-j	Sources of stress	WHA	No change	M3Q39a-j
46a-f	Life Control Scale	Bobak M, Pikhart H, Hertzman C, Rose R & Marmot M. Socioeconomic factors, perceived control and self-reported health in Russia. A cross-sectional survey. Social Science Medicine, 1998; 47(2): 269-279.	No change.	M3Q83a-f
47-51	Smoking questions	Australian Institute of Health & Welfare. Standard questions on the use of tobacco among adults. (1998)	Only change is that age at starting smoking has been added	M3Q41-43
52 a-k	Depression - CES-D	Andresen EM. Carter WB, Malmgren JA & Patrick DL. Screening for depression in well older adults: evaluation of a short form of the CES-D. American Journal of Preventive Medicine, 1994; 10: 77-84.	No change. Note that item k is not part of the scale.	M3Q44a-k
53 a - hh	Life events	Modified from Norbeck JS. Modification of life event questionnaire for use with female respondents. <i>Researching in Nursing &</i> <i>Health</i> , 1984; 7: 61-71	Changes from M3: Split death of child and death of other family member into separate categories; split you or spouse/partner being made redundant; add birth of grandchild; add you or family member involved in problem gambling; add major personal	M3Q45a-ee

Mid 4 Pilot item number	Pilot item		Notes	Identical or similar item in Mid 3 survey
			achievement	
54 a-f	Optimism - approach to life	Modified from Scheier MF, Carver CS, Bridges MW. Distinguishing optimism from neuroticism (and trait anxiety, self-mastery and self-esteem): a reevaluation of the Life Orientation Test. <i>Journal of Personality &</i> <i>Social Psychology</i> , 1994; 67(6): 1063-1078.	No change	M3Q84a-f
55a-i				
56a-b	Parents still living	WHA	No change	M3Q37a-b
57 a -b	Height and weight	WHA	No change	M345a-b
58a-c	Weight changes	WHA	No change	M3Q47a-c
59-61	Alcohol intake	AIHW	Not in M3 as included in FFQ, identical to M2Q39-41	
62	Serves of vegetables		NEW	
63	Serves of fruit		NEW	
64	Fluid intake		NEW	
65а-е	Hours spent sitting	Wendy Brown	More detail than in Mid 3	M370a-b
66-67	Exercise questions	Wendy Brown	No change	M3Q68-69
68a-h	Time use in past week	WHA but items modified from ABS (1992) Time use survey.	Three paid-work categories combined into one; socializing and using a computer deleted	M3Q71a-1
69 a-b	Rushed/pressured time on hands	Modified from Statistics Canada (1985)	No change	M3Q73a-b
70	Provide care to children	WHA	No change	M3Q74
71-74	Provide care	WHA	No change	M376-79
75	Happy with share of tasks	WHA	Same as Y3Q92	
76a-i	Neighbourhood Satisfaction		No change	M3Q82
77a-h	Types of paid work	WHA	Same as Y3Q88 - includes causal work and having more than one job	M3Q72a-f
78	Occupation self & partner	ABS. Australian Standard Classification of Occupations Second Edition. 1997. Catalogue No. 1220.0. From the Web page.	No change	M3Q80
79	Retirement status	HILDA study	NEW	
80	Age at retirement	HILDA study	NEW	

Mid 4 Pilot item number	Question description	Source	Notes	Identical or similar item in Mid 3 survey
81	Age expect to retire	HILDA study	NEW	
82	Age want to retire	HILDA study	NEW	
83	Retirement decision-making	HILDA study	NEW	
84	Sources of retirement income	HILDA study	NEW	
85a-i	Abuse	Modified from Neale AV, Hwalek MA, Scott RO & Stahl C. Validation of the Hwalek-Sengstock elder abuse screening test <i>Journal of Applied Gerontology</i> , 1991; 10(4): 406-418.	Not in Mid 3. Same as Y3Q86a-i	
86	Manage on income	n income WHA No change		M3Q89
87	Living arrangements	ABS Census dictionary. 1996 Catalogue No. No change 2901.0		M3Q90
88	Others dependent on income	WHA	No change	M3Q91
89	Social Support	Sherbourne CD & Stewart AL. The MOS Social Support Survey. <i>Social Science &</i> <i>Medicine</i> , 1991; 32(6): 705-714.	19-item full version (as M2Q82) replaces 6-item version from M3	M3Q81
90	Marital status	WHA	No change	M3Q85-86
91 a-g	Satisfaction with life	WHA	No change	M3Q92a-g
	infertility	lity WHA		M3Q30
	sexual orientation	WHA	DELETED as unlikely to change	M3Q31
	Stress reduction	WHA	DELETED	M3Q40
	Food frequencies	Anti Cancer Council of Victoria Food Frequency Questionnaire. Includes alcohol and replaces previous alcohol items.	DELETED	M3Q49-66
	Income	WHA	DELETED	M3Q87a-b
	Number dependent on this income	WHA	DELETED	M3Q88

3. METHODOLOGICAL ISSUES: SOURCES AND DEVELOPMENT OF INSTRUMENTS, RELIABILITY AND VALIDITY OF MEASURES

3.1. DERIVED VARIABLES

Many of the variables used in analyses are derived by combining the responses to several items within the surveys. Where possible, standardized methods for their calculation are derived and documented. Appendix 3 lists definitions of the following variables for use in analyses and reporting:

Appendix 3.1 Smoking Status - Younger and Mid-Age Cohorts, Surveys 1 & 2
Appendix 3.2 Alcohol Consumption and Binge Status – Younger, Mid-Age and Older Cohorts, Surveys 1 & 2
Appendix 3.3 Alcohol patterns. Younger, Mid Age and Older Cohorts, Surveys 1 & 2

Appendix 3.3 Alcohol patterns - Younger, Mid-Age and Older Cohorts, Surveys 1 & 2 Appendix 3.4. Physical Activity (Revised index) – Mid-Age Cohort, Survey 1 Appendix 3.5 Physical Activity (Cumulative score) – Mid-age Cohort, Surveys 1, 2 & 3

Appendices 3.2 and 3.3 reflect different methods of categorizing alcohol intake – Appendix 3.2 is based on definitions used by the National Heart Foundation and AIHW prior to 2002, while Appendix 3.3 is based on the NHMRC's 2003 guidelines.

3.2. TRANSITION VARIABLES

Methodological and analytical work continues to concentrate on the measurement of change. For categorical and ordinal variables, such as smoking status, marital status, and alcohol consumption, it is necessary to define and develop transition variables. In many cases, the questions used to assess these variables have changed between surveys in order to reflect current best practice. This is one of several reasons why the definition of transition variables is complex. Appendix 3 also includes definitions of the following transition variable between Surveys 1 and 2:

Appendix 3.6: Transition in Alcohol Patterns - Younger Cohort, Surveys 1 & 2

3.3. ACCESS TO, AND SATISFACTION WITH, HEALTH SERVICES: ANALYSIS BY LANGUAGE SPOKEN AT HOME

This report, prepared by Natalie Grove, assesses the methodological questions that arise when comparing responses from women who do and do not speak English at home.

3.3.1. Abstract of Report

Objective: to determine whether women who speak a language other than English at home differ from English speaking women in their perceived access to and satisfaction with health services.

Results: Both English-speaking and women who spoke other languages showed high levels of satisfaction with and access to health services, with older women the most satisfied and younger women the least. On most items, more than 75% of women, both 'English' and 'Other', rated their access or satisfaction as good, very good or excellent. The lowest ratings were commonly given to items concerning time (time spent in waiting room, access to after hours care, hours GP is available) as well as ease of seeing GP of choice. This pattern of satisfaction was similar for the two language groups, suggesting that the experience and expectations of the health services were similar. After controlling for possible confounding of education, occupation, area of residence and mental health, there appeared to be a small, consistent difference in the levels of access to and satisfaction with some health services; women who spoke English at home more likely to rate these services higher than women who spoke other languages. However the differences were small, less than 10% difference in satisfaction or access for most items. Finally and importantly, a differential use of the "don't know" category was noted, with non-English speaking women as much as three times more likely to choose this response for some items.

Conclusions: This analysis indicated a tendency for English speaking women to rate their access and satisfaction slightly higher than women who spoke other languages. However, we are unable to determine whether these differences reflect a different use of the response scale and/ or difficulty interpreting the questions, or in fact reveal different levels of access and satisfaction. Furthermore, the differences are statistically significant but may be inconsequential at a service delivery level, as the overall ratings were mostly high and the differences often less than 10% between language groups. Satisfaction and access differ more substantially between urban and rural areas and between age cohorts than by language spoken at home.

3.3.2. Details of Analysis and Interpretation

Satisfaction with health services was based on items from Survey 1, asking women to rate their satisfaction with various aspects of their most recent visit to the GP, including time spent in the waiting room, personal manner of the GP etc: Q13a-i (Y1), Q13a-i (M1), Q14a-I (O1).

Access to health services was based on items from Survey 2 which asked women to think about their own health and to rate their access to health services including medical

specialists, hospitals, GPs who bulk billed etc: Q8a-k (Y2), Q17a-b, d-i, l, o-p (M2), Q5a-g (O2).

Language group was determined by Survey 1 response to the question, "Do you usually speak a language other than English at home?" with responses categorized as English or Other. All analysis was conducted on data from women who completed Survey 1 and the long version of Survey 2 (N=9600 for Younger Cohort, N=11648 for Mid-age Cohort and N=9501 for Older Cohort). Table 3.1 shows the distribution of women in the three cohorts.

	Younger		Mid-Age		Older	
	Ν	%	Ν	%	Ν	%
Other	659	7.2%	564	5%	502	5.9%
English	8,481	92.8%	10,753	95%	7,997	94.1%

Table 3.1. Percentage of women in each cohort who spoke a language other thanEnglish at home.

Initial Analyses

Chi-square analyses conducted for the research syntheses demonstrated strong associations between language spoken at home and satisfaction and access in the mid-aged and older cohorts, and for access in the younger cohort (see Table 3.2). Analysis for the research synthesis was concerned with high levels of satisfaction and dichotomized responses in the following way:

Satisfied: excellent/ very good Unsatisfied: good/ fair/ poor

Women who missed the item or responded "don't know" (available for access items only) were excluded from these analyses.

		Younger			Mid-ag	e		Older	
Access	All	Other	English	All	Other	English	All	Other	English
Medical specialists	44	41	44	58	47	58	60	47	61
Hospital if needed	54	48	55	65	50	65	63	49	63
After hours care	32	25	33	43	35	43	44	31	44
GP Bulk bills	48	54	47	49	53	49	70	63	70
Female GP	44	42	44	48	43	48	-	-	-
Hours GP	33	28	33	43	39	43	52	45	52
No. GPs to choose from	43	37	43	50	45	51	54	44	55
Ease seeing GP choice	36	35	36	48	46	49	63	52	63
Ease Pap test	63	55	64	75	68	75	-	-	-
Access counselling	38	32	39	45	40	45	-	-	-
Satisfaction									
Convenience of surgery location	73	69	73	72	61	73	72	61	74
Length of waiting time	34	34	34	40	30	40	50	37	51
Personal manner of doctor	69	66	69	79	68	79	88	79	89
Doctor's explanation	60	56	61	72	64	72	81	70	81
Interest of doctor in feelings	55	53	55	68	60	68	80	67	80
Opportunity to ask questions	63	58	63	72	65	73	81	69	82
Amount of time spent with	51	49	52	65	56	66	73	58	74
doctor									
Cost of visit	49	46	49	45	43	45	73	62	74
Visit overall	57	55	58	66	55	67	79	65	80

Table 3.2. Percentages of women responding "excellent" or "very good" to items onhealth service access and satisfaction. Bold face indicates p < .005 and more than 3</td>percentage point difference.

Recategorization and reanalysis

A decision was made to redefine 'satisfied' for this analysis, using a broader category of satisfied that included excellent, very good and good. This enabled comparison of those who were definitely unsatisfied with all other women, and allowed us to investigate whether the two language groups were using the response scale differently. These categories were used throughout the remaining analysis:

Satisfied = Excellent/ very good *and good* Unsatisfied = Fair/ poor

Women who missed the item or responded "don't know" (available for access items only) were excluded from these analyses.

This recategorization resulted in fewer significant associations between language and access and especially between language and satisfaction (see Table 3.3). This suggests there may have been a different use of the response scale in the two language groups (i.e. non-English speaking women were more likely to rate the item 'good', than to use the end of the scale 'very good' or 'excellent').

		Younger	•		Mid-ag	e	Older				
Access	All	Other	English	All	Other	English	All	Other	English		
Medical specialists	78	81	78	82	81	82	89	86	89		
Hospital if needed	86	80	87	89	82	90	90	83	91		
After hours care	64	58	64	69	67	69	75	67	75		
GP Bulk bills	70	81	68	66	79	65	88	88	88		
Female GP	72	71	72	74	79	73	-	-	-		
Hours GP	72	68	72	77	77	77	87	86	87		
No. GPs to choose from	77	74	78	80	81	80	86	83	86		
Ease seeing GP choice	68	68	68	77	77	77	90	87	90		
Ease Pap test	91	86	91	96	94	96	-	-	-		
Access counselling	75	70	76	76	77	75	-	-	-		
Satisfaction											
Convenience of surgery location	93	92	93	92	90	92	92	86	92		
Length of waiting time	60	59	60	69	62	69	79	69	80		
Personal manner of doctor	88	89	88	94	92	94	98	97	98		
Doctor's explanation	82	81	82	90	88	90	95	93	95		
Interest of doctor in feelings	79	79	78	88	86	88	95	94	95		
Opportunity to ask questions	83	83	83	90	88	90	95	92	95		
Amount of time spent with	79	77	80	88	83	89	94	86	94		
doctor											
Cost of visit	74	72	74	71	68	72	90	84	91		
Visit overall	85	84	86	90	88	91	96	92	96		

Table 3.3. Percentages of women responding "excellent", "very good" or "good" toitems on health service access and satisfaction. Bold face indicates p < .005 and more</td>than 3 percentage point difference.

Adjustment for Confounding

As the patterns were similar within each cohort, the mid-age cohort was selected for assessment of the possible effect of confounders. Logistic regression analyses predicting lack of satisfaction (ratings of fair or poor) were performed. Table 3.4 shows odds ratios, both crude and adjusted for area of residence, occupation, education, and mental health.

	Percent	t rating "fair	" or "poor"		Adjusted		
	All	Other	English	Crude OR	P value	OR ^a	P value
Access (Mid-age Survey 2)							
Medical specialists	18	19.5	17.9	1.1	ns	1.6	0.0002
Hospital if needed	10.7	18.4	10.4	1.9	<0.0001	2.1	<0.0001
After hours care	30.8	32.9	30.7	1.1	ns	1.2	ns
GP Bulk bills	34.2	20.7	34.9	0.5	<0.0001	0.8	ns
Female GP	26.5	20.9	26.5	0.7	0.0087	1.0	ns
Hours GP	23.2	23	23	1.0	ns	1.1	ns
No. GPs to choose from	19.8	19.5	19.7	1.0	ns	1.4	0.0162
Ease seeing GP choice	23	23.3	23	1.0	ns	1.2	ns
Ease Pap test	4.4	5.9	4.3	1.4	ns	1.4	ns
Access counselling	24.5	23.4	24.5	0.9	ns	1.1	ns
Satisfaction							
(Mid-age Survey 1) Convenience of surgery location	8.4	10.5	8.3	1.3	ns	1.2	ns
	31.2	38.1	30.8	 1.4	0.0003	1.2 1.4	0.0012
Length of waiting time							
Personal manner of doctor	5.7	7.6	5.5	1.4	0.0354	1.3	ns
Doctor's explanation	10.2	11.5	10.1	1.2	ns	1.1	ns
Interest of doctor in feelings	12.5	14.3	12.4	1.2	ns	1.1	ns
Opportunity to ask questions	9.8	11.6	9.7	1.2	ns	1.2	ns
Amount of time spent with doctor	11.7	17	11.3	1.6	<0.0001	1.5	0.0008
Cost of visit	28.7	32.2	28.5	1.2	ns	1.4	0.0015
Visit overall	9.5	12.4	9.4	1.4	0.0164	1.4	0.0251

Table 3.4. Access and Satisfaction with Health Services by Women who Speak a Language Other than English at Home: Crude and adjusted odds ratios for responding "fair" or "poor". Mid-age Cohort.

adjusted for area of residence, education, occupation, mental health

After adjustment, women of non-English speaking background were found to be more dissatisfied with access to medical specialists and hospitals, length of time in the GPs waiting room, amount of time with the doctor and the cost of the visit than women of English speaking background. Dissatisfaction tended to increase with distance from urban centres and with reduced mental health. Education was significantly associated with lack of satisfaction with access to medical specialists, a GP who bulk bills, hours the GP is available, and counselling, although there was no consistent pattern with levels of education. Women in lower status occupations were less likely to be dissatisfied with access to a GP who bulk bills.

Investigation of "Don't Know" and missing responses

Finally, an investigation of non-respondents, both those who did not answer and those who responded "don't know" to access questions, was conducted. Women who spoke a language other than English were more likely to have missing data for each of the access and satisfaction questions, although the percentages were small (1.9% - 4.8% missing). The access items contained a response option of "don't know" and the use of this option differed substantially between the language groups, even after adjusting for area of residence, education, occupation and mental health; women who spoke a language other than English were up to three times more likely to select "don't know" than English speaking women (see Tables 3.5 and 3.6). This differential use of "don't know" by language spoken suggests difficulty with interpreting/ answering the access items and calls into question the interpretability of results for women who do not speak English at home.

Table 3.5. Distribution of "Don't Know" and Missing Responses by Women who Speak a Language Other than English at
Home: All Cohorts.

Item		% Missing									% Don't know among the 'non-missing'							
	All			Other			English			All				Other			English	
	Y	М	0	Y	М	0	Y	М	0	Y	М	0	Y	М	0	Y	М	0
Medical specialists	0.5	0.7	3.7	0.7	1.9	6.8	0.5	0.7	3.5	9.5	5.0	4.6	10.3	7.1	7.5	9.4	4.9	4.4
Hospital if needed	0.4	0.7	4.3	0.6	2.3	10.4	0.4	0.6	4.0	6.9	4.1	6.5	9.4	10.6	8.9	6.8	3.7	6.3
After hours care	0.5	1.1	10.1	0.7	2.6	17.8	0.5	0.9	9.6	10.0	12.4	17.8	11.0	20.6	19.9	10.0	11.9	17.7
GP Bulk bills	0.8	1.6	8.1	1.2	3.3	10.3	0.7	1.5	8.0	8.3	20.1	9.7	9.3	17.2	7.7	8.3	20.3	9.9
Female GP	0.6	1.3	-	0.9	2.9	-	0.6	1.1	-	7.4	15.1	-	9.4	20.7	-	7.3	14.8	-
Hours GP	0.7	1.8	5.9	0.9	3.8	11.8	0.7	1.7	5.5	3.2	4.1	4.0	4.6	6.8	5.0	3.1	3.9	4.0
No. GPs choose from	0.7	1.3	7.9	1.0	3.8	13.7	0.6	1.1	7.5	3.1	4.3	7.1	4.8	11.3	10.8	3.0	3.9	6.8
Ease seeing GP choice	0.7	1.3	9.3	1.5	3.6	8.1	0.6	1.1	2.6	3.1	2.1	1.1	4.2	5.2	3.3	3.1	1.9	1.0
Ease Pap test	0.8	1.2	-	1.3	2.6	-	0.8	1.1	-	12.4	5.6	-	29.3	9.4	-	11.1	5.4	-
Access counselling	1.0	0.9	-	1.2	3.8	-	0.9	0.8	-	40.0	48.0	-	45.6	50.7	-	39.6	48.0	-
Satisfaction																	1	
Convenience of surgery location	0.8	1	1.6	1.5	2.8	3.7	0.8	0.8	1.5									
Length of waiting time	0.8	0.9	1.8	1.6	2.8	3.7	0.8	0.8	1.7									
Personal manner of doctor	0.7	0.8	1.1	1.6	2.6	1.9	0.6	0.6	1.0]				
Doctor's explanation	0.8	1	1.4	1.3	2.4	1.7	0.7	0.8	1.4								1	
Interest of doctor in feelings	0.8	1.4	2.2	1.5	3.1	3.1	0.8	1.3	2.1									
Opportunity to ask Q's	0.9	1	1.3	1.6	2.8	1.9	0.8	0.8	1.2									
Amount of time spent with doctor	0.9	1.1	2.3	1.6	3.3	3.7	0.8	0.9	2.2]				
Cost of visit	1.4	1.8	12.2	2.4	4.8	15.9	1.3	1.5	12.0								 	
Visit overall	0.8	1.1	3.0	1.8	4	6.4	0.6	0.9	2.8									

a. adjusted for area of residence, education, occupation, mental health

Item		n't know a 'non-missi	mong the	Cru	ide OR	Adjı	isted ^a OR
	All	Other	English	OR	P value	OR	P value
Medical specialists	5.0	7.1	4.9	1.5	0.0228	1.3	ns
Hospital if needed	4.1	10.6	3.7	3.1	<0.0001	2.2	<0.0001
After hours care	12.4	20.6	11.9	1.9	<0.0001	1.6	<0.0001
GP Bulk bills	20.1	17.2	20.3	0.8	ns	1.0	ns
Female GP	15.1	20.7	14.8	1.5	0.0002	1.4	0.0049
Hours GP	4.1	6.8	3.9	1.8	0.0006	1.9	0.0006
No. GPs to choose from	4.3	11.3	3.9	3.1	<0.0001	2.7	<0.0001
Ease seeing GP choice	2.1	5.2	1.9	2.8	<0.0001	2.3	0.0002
Ease Pap test	5.6	9.4	5.4	1.8	<0.0001	1.7	0.0016
Access counselling	48.0	50.7	48.0	1.1	ns	1.0	ns
Satisfaction							
Convenience of surgery location							
Length of waiting time							
Personal manner of doctor							
Doctor's explanation							
Interest of doctor in feelings							
Opportunity to ask questions							
Amount of time spent with doctor							
Cost of visit							
Visit overall							

Table 3.6. Analysis of non-respondents (don't know): crude and adjusted odds ratios for mid-aged cohort.

b. adjusted for area of residence, education, occupation, mental health

Other Factors Associated With "Don't Know" Response

Selection of the "don't know" response was consistently associated with area of residence, with the exception of access to specialists and ease of obtaining a Pap smear. Women living in non-urban areas reported "don't know" less often than urban women for access to hospital, after hours care, access to a female GP, number of GPs (small/other rural only), ease of seeing a GP (higher for remote), access to counselling. However, women living in non-urban areas reported "don't know" more often than urban women for access to GP who bulk bills and hours the GP is available (remote only).

Higher levels of mental health were associated with a "don't know" response for access to GP who bulk bills, access to a female GP and access to counselling. Lower levels of mental health were associated with a "don't know" response for ease of Pap smear.

All other education groups were compared with women with Year 12 education. Women with no formal education more often gave a "don't know" response for access to after hours care, access to a female GP, for number of GPs to choose from and ease of obtaining a Pap smear. Women with trade or certificate level education more often gave a "don't know" response for number of GPs to choose from. Women with university education less often gave a "don't know" response for access to a female GP and ease of obtaining a Pap smear and more often gave a "don't know" response for number of GPs to choose from university education less often gave a "don't know" response for access to a female GP and ease of obtaining a Pap smear and more often gave a "don't know" response for number of GPs to choose from.

All other occupation groups were compared with administrative assistants and sales. No paid work and occupation missing more often reported "don't know" for number of GPs, and ease of obtaining a Pap smear. Machine operators and manual workers more often reported "don't know" for access to medical specialists, access to a female GP and number of GPs. Trades and para-professionals less often reported "don't know" for access to counselling. Managers and professionals more often reported "don't know" for number of GPs.

Other Findings Concerning Women Who Speak A Language Other Than English At Home

In the course of understanding the associations between language spoken at home and health services, various exploratory analyses were conducted. We report the main findings here to prevent duplication of this effort. Table 3.7 provides descriptive language and migration information on women who speak a language other than English at home, while Table 3.8 describes health service use and common symptoms.

	Young Urban	Urban NESB	Rural English	Rural NESB	MID Urban	Urban NESB	Rural English	Rural NESB	OLD Urban	Urban NESB	Rural English	Rural NESB
	English		0		English		0 -		English		0	
Years in Australia												
1986 or later	2	22	1	8	2	19	1	10	-	-	-	-
1985-1966	5	16	2	9	13	47	7	43	6	18	3	13
1965-1956	-	-	-	-	5	16	3	16	5	28	4	24
1955 or earlier (mid)	-	-	-	-	6	11	4	14	-	-	-	-
1955-46	-	-	-	-	-	-	-	-	6	48	6	47
1945 earlier (old)	-	-	-	-	-	-	-	-	3	4	2	8
Australian born	93	62	97	83	74	8	84	17	80	2	86	9
Speak English												
Not very well	-	17	-	15	-	48	-	36	-	24	-	12
Well	-	-	-	-	-	-	-	-	-	46	-	49
Very well	-	83	-	85	-	52	-	64	-	30	-	39
Native	100	-	100	-	100	-	100	-	100	-	100	
Language at home												
English	100	0	100	0	100	0	100	0	100	0	100	0
Southern Europe	-	40	-	45	-	36	-	29	-	27	-	20
Northern Europe	-	10	-	18	-	19	-	34	-	41	-	65
Eastern Europe	-	3	-	6	-	7	-	7	-	16	-	7
SE Asia	-	7	-	3	-	6	-	2	-	3	-	0
North Asia	-	17	-	6	-	17	-	6	-	6	-	3
Middle East	-	9	-	5	-	3	-	3	-	4	-	1
Africa	-	1	-	0	-	0	-	1	-	0	-	1
Pacific Islands	-	1	-	4	-	1	-	2	-		-	
Filipino									-	1	-	1

Table 3.7. Characteristics (%) of women who speak English or another language at home: year of arrival in Australia, English competency and language spoken at home.

	Young Urban English	Urban NESB	Rural English	Rural NESB	MID Urban English	Urban NESB	Rural English	Rural NESB	OLD Urban English	Urban NESB	Rural English	Rural NESB
GP visit												
Always prefer female GP	19	18	17	17	18	15	13	22	12	15	9	14
Prefer female GP	65	71	53	68	45	58	39	50	33	48	30	41
GP/ go to same place	40	42	59	57	69	62	76	80	-	-	-	-
GP/ See same GP	25	33	34	24	46	56	48	59	-	-	-	-
Incurred cost at GP visit	47	36	74	74	53	43	73	69	21	20	38	38
Satisfied with cost	27	28	23	17	36	46	35	26	33	32	30	16
High use GP	32	30	32	35	46	52	44	44	33	40	25	28
Symptoms												
Hypertension	9	6	13	14	23	22	26	28	51	56	54	54
Bronchitis/ Emphysema	-	-	-	-	24	16	20	13	21	20	18	14
Osteoporosis	-	-	-	-	6	8	5	5	27	31	23	31
Arthritis	-	-	-	-	-	-	-	-	43	53	43	46
Service Use												
Seen Hospital Dr	20	19	29	29	13	21	15	22	18	22	17	22
Admitted to hospital	16	16	24	15	15	15	17	19	28	26	28	27

Table 3.8. Characteristics (%) of women who speak English or another language at home: Responses to GP visit questions, prevalence of selected symptoms and reported hospital use.

Figures in **bold** indicate statistically significant difference at p<.005

4. MAINTENANCE OF COHORTS

Cohort maintenance and tracking of "return-to-sender" mail continues according to the strategies outlined in previous reports. The office team continues to track all women who responded to Survey 1 in 1996, even those who have not responded to Survey 2 or Survey 3. Participants for whom we have no current contact details remain in the tracking system unless they are positively identified as deceased, withdrawn, permanently emigrated, or otherwise ineligible or unwilling to participate. Secondary contacts, electoral rolls, and electronic white pages continue to be the main sources of information. Increasingly we are finding email addresses to be useful, especially among the younger women. While in previous years, email addresses seemed to be fairly short-lived and unstable, it now appears that individuals are likely to keep the same email address for some years.

5. DISSEMINATION OF STUDY FINDINGS

5.1. WEB SITE

The Study web site is maintained at the University of Newcastle. In the first half of 2003 we appointed Ms Rachael Gill to develop and update the web site. Rachael revised the site extensively, including the updating and re-formatting of all files and directories, before finding permanent work elsewhere. Mr Tim Neve has continue the work on the new website, which can be viewed at http://www.newcastle.edu.au/centre/wha

We plan to install a password-protected section for work in progress, internal reports, minutes, agendas, and other internal information.

5.2. COMMUNICATION WITH STUDY PARTICIPANTS

A newsletter is in preparation and will be mailed to all participants in October 2003. A copy of the newsletter will be included in the next Report.

5.3. PUBLICATIONS

5.3.1. Papers Published

Lee C & Russell A. Effects of physical activity on emotional well-being among older Australian women: cross-sectional and longitudinal analyses. *Journal of Psychosomatic Research*, 2003; 54: 155-160.

Objective: To explore relationships between physical activity and mental health, cross-sectionally and longitudinally, in a large cohort of older Australian women.

Method: Women in their 70s participating in the Australian Longitudinal Study on Women's Health responded in 1996 (aged 70-75) and in 1999 (aged 73-78). Cross-sectional data were analysed for 10,063 women and longitudinal data for 6,472. Self-reports were used to categorize women into four categories of physical activity at each time point, as well as to

define four physical activity transition categories across the three-year period. Outcome variables for the cross-sectional analyses were the mental health component score, and mental health subscales, of the SF-36. The longitudinal analyses focused on changes in these variables. Confounders included the physical health component scale of the SF-36, marital status, body mass index, and life events. Adjustment for baseline scores was included for the longitudinal analyses.

Results: Cross-sectionally, higher levels of physical activity were associated with higher scores on all dependent variables, both with and without adjustment for confounders. Longitudinally, the effects were weaker but women who had made a transition from some physical activity to none generally showed more negative changes in emotional well-being than those who had always been sedentary, while those who maintained or adopted physical activity had better outcomes.

Conclusion: Physical activity is associated with emotional well-being among a population cohort of older women both cross-sectionally and longitudinally, supporting the need for the promotion of appropriate physical activity in this age group.

Mishra GD, Brown WJ & Dobson AJ. Physical and mental health: Changes during menopause transition. *Quality of Life Research*, 2003; 12(4): 405-412.

Objective: To measure changes in physical and mental health in six groups of women defined by menopausal status or use of hormone replacement therapy (HRT).

Design: Longitudinal study with 2 years follow-up.

Participants: Eight thousand six hundred and twenty three women participating in the Australian Longitudinal Study on Women's Health, aged 45-50 years in 1996.

Main outcome measures: Changes in the eight dimensions of the Short Form General Health Survey (SF-36) adjusted for baseline scores, lifestyle, behavioural and demographic factors.

Results: At baseline, mean scores for five of the eight dimensions of the SF-36 were highest (indicating better state of health or well-being) in pre-menopausal women. There were declines (that is, worsening health) in the SF-36 dimensions in most groups of women. Declines were largest in physical functioning (adjusted mean change of -4.9, standard error (SE) 0.7) and physical role limitation (-5.7, SE: 1.3) in women who remained perimenopausal throughout the study period and in women taking HRT at the time of either survey (physical functioning: -5.3 (0.7), role physical limitation: -7.5 (1.2)). They were smallest in women who remained pre-menopausal (physical functioning: -3.2 (0.7); role physical limitation: -2.1 (1.1).

Conclusions: Physical aspects of general health and well-being decline during the menopausal transition. Sensitive measures and careful analysis are needed to understand why these changes are worse for peri-menopausal women and those taking HRT.

Powers JR & Young AF. Beware mixing mail and telephone administration of surveys. *Australian Epidemiologist*, 2003; 10(2): 41-44.

Non-refereed letter. No Abstract Available.

Sibbritt D, Adams J, Easthope G & Young A. Complementary and alternative medicine (CAM) use among elderly Australian women who have cancer. *Supportive Care in Cancer*, 2003; 11: 548-550.

The use of complementary and alternative medicine (CAM) in the general population has grown considerably in recent years. However, little is known about the prevalence of CAM use amongst women with cancer. Our research provides the first step in addressing this gap in knowledge by reporting on a survey of 9,375 Australian women aged 73-78. We found that, for all cancers combined, 14.5% of women with cancer consulted an alternative practitioner. This percentage varied depending on the type of cancer: skin (15.0%), breast (11.5), bowel (8.8%), and other (16.5%). Our findings suggest that CAM is now a significant practice issue for those delivering cancer-patient care and management.

Adams J, Sibbritt D, Easthope G & Young A. The profile of women who use complementary and alternative medicine (CAM) in Australia. *Medical Journal of Australia*, 2003; 179(6): 297-300.

Objectives: To compare the characteristics of complementary and alternative medicine (CAM) users and non-users among Australian women.

Design: Cross-sectional postal questionnaire conducted during 1996, forming the baseline survey of the Australian Longitudinal Study on Women's Health.

Participants: Women aged 18-23 (n=14,779), 45-50 (n=14,099) and 70-75 (n=12,939) years, randomly selected from the Health Insurance Commission (Medicare) data base, with oversampling of women from rural and remote areas of Australia.

Main outcome measures: Consultation with an alternative health practitioner in the twelve months prior to the survey.

Results: Women in the mid age cohort were more likely to have consulted an alternative health practitioner in the previous year (28%) than women in the younger cohort (19%) or older cohort (15%). In all age groups, CAM users were more likely to reside in non-urban areas, to report poorer health, have more symptoms and illness and be higher users of conventional health services than CAM non-users.

Conclusions: There is clear evidence of use of CAM in parallel with conventional health services by women in Australia. These findings highlight a need for further research exploring the determinants of women's use of CAM.

Byles JE, Mishra GD, Harris MA & Nair K. The problems of sleep for older women: Changes in health outcomes. *Age and Aging*, 2003; 32(2): 154-163.

Objective: To identify the persistence of sleeping difficulty and medication use in a cohort of older Australian women from baseline to 3-year follow-up and to explore the relationship between these factors and health-related quality of life scores, falls and other health care use. *Method:* A three-year longitudinal survey of Australian 10,430 women aged 70–75 years at baseline. These women were participants in the Australian Longitudinal Study on Women's Health (ALSWH) randomly selected from the Australian Medicare database.

Results: A majority of women (63%) endorsed one or more items related to sleeping difficulty at 3-year follow-up: 33% reported one item only, 16% reported two or three items, and 14% reported more than 3 items; 4,194 (42.4%) reporting "waking in the early hours",

2,592 (26.0%) "taking a long time to get to sleep", 2,078 (21.0%) "sleeping badly at night", 1,072 (10.84) "lying awake most of the night" and 1,087 (11.0%) "worry keeping you awake". Total scores on the Nottingham Health Profile sleep sub-scale ranged from 0-100 and were skewed to the right. The median score was 12.57. There was a strong statistical association between reporting sleeping difficulty at baseline and at follow-up. A total of 1,532 (15%) women reported use of sleeping medication at follow-up and women were 6.5 times more likely to report use if they also reported any item of sleep difficulty. There was a moderate level of agreement (88%, Kappa = 0.56) between taking sleeping medication within 4 weeks before the baseline survey and within 4 weeks before follow-up. On multivariate analysis, sleeping difficulty at baseline was negatively associated with general health perceptions, emotional role limitations and general mental health sub-scales of the Short-Form-36 Health Survey at follow-up; the use of sleep medication at baseline was negatively associated with physical functioning, bodily pain, vitality, social functioning and general mental health Short-Form-36 sub-scale scores. The use of sleep medication was also significantly associated with falls, accidents, and health care utilisation.

Conclusion: Sleeping difficulty is a common and persistent complaint among older women and is strongly associated with use of sleeping medications. Both behaviours are negatively associated with health status.

5.3.2. Papers Accepted

Hillier L, DeVisser R, Kavanagh A & McNair R. The association between drug use and sexuality in young women. Refereed Letter. *Medical Journal of Australia*.

Studies of non-representative samples reveal that recreational drug use is more prevalent among non-heterosexual women than heterosexual women. The Australian Longitudinal Study of Women's Health allowed an examination of the links between sexuality and recreational drug use in a representative sample of 9,260 women aged 22-27 in 2000.

Respondents reported their history of smoking tobacco. Reported frequency and volume of alcohol consumption were recoded according to NHMRC guidelines. Use of illicit drugs in the last year was dichotomised between marijuana and other illicit drugs - amphetamines, LSD, ecstasy/designer drugs, tranquilisers, natural hallucinogens, cocaine, inhalants, heroin, or barbiturates. Respondents also indicated whether they had ever injected illicit drugs.

The analyses compare exclusively heterosexual women to all other women. Data were weighted to correct for over-sampling in non-metropolitan areas. Odds ratios were adjusted for three confounding variables: age, region of residence, and father's occupation. Younger women were significantly more likely to report risky drinking, and illicit drug use. Women from urban areas were significant more likely to be non-heterosexual and to use illicit drugs, but less likely to report risky drinking. Women with professional/manager fathers were significantly more likely to be non-heterosexual and more likely to use illicit drugs, but less likely to smoke or report risky drinking. Details are available from the authors.

Non-heterosexual women were significantly more likely than heterosexual women to have ever smoked, to be current smokers, and to report risky levels of alcohol consumption, to have used marijuana and other illicit drugs in the last year, and to have ever injected drugs. Although these relative differences are important, so too are the absolute values - 45.6% of non-heterosexual women were smokers, and 45.6% reported risky alcohol consumption. In the last year 54.6% had used marijuana, and 40.7% used other illicit drugs. One in ten had injected illicit drugs.

Although women in general are less likely than men to use drugs, and may not be a highpriority target for drug education, non-heterosexual young women's rates of illicit drug use are at least as high as those of young men. Greater drug use among non-heterosexual young women may the result of individual experiences of homophobic discrimination, where drugs are used as an (albeit, short lived) panacea.1 Greater drug use may also be the result of normalisation of recreational drug use within lesbian communities. There is a need for specific interventions among young lesbians and bisexual women, and for further research to determine the reasons for their high levels of recreational drug use.

Turner C, Russell A & Brown W. Prevalence of illicit drug use in young Australian women, patterns of use and associated risk factors. *Addiction*.

Objectives: To estimate the prevalence of illicit drug use in young Australian women, determine their patterns of drug use and identify associated risk factors.

Methods: Data were collected in 2000 as part of the second survey of the youngest cohort in the Australian Longitudinal Study on Women's Health (n=9512).

Results: Among women aged 22-27 years, 58% reported having used an illicit drug at some time with most (57%) having used cannabis. Amphetamines (16%), ecstasy/designer drugs (15%) and LSD (14%) were the next three most commonly used drugs. Four different patterns of drug use were identified: past users of cannabis only (39%); current users of cannabis only (17%); past multiple drug users (13%) and current multiple drug users (31%). Living in a de-facto relationship or never being married, living with non-family members, a history of physical abuse, sexual intercourse, smoking and binge drinking were significantly associated with exclusive use of cannabis and with use of multiple drugs compared to never using illicit drugs. Living with a partner, experience of sexual or emotional abuse, pregnancy, diagnosis of depression and taking sleeping medication were significantly associated with being a multiple drug user but not for exclusive cannabis use. Multiple drug users had, on average, used cannabis 2-3 years before using any other drug.

Conclusions: Given the strong association found between smoking, heavy drinking and drug use of varied patterns, public health initiatives targeted at preventing young women from smoking and drinking should additionally target illicit drug use.

Schofield MJ & Mishra GD. Three year health outcomes among older women at risk of elder abuse: Women's Health Australia. *Quality of Life Research*.

Background: Elder abuse is increasingly being recognized as a serious form of familial violence, yet detection is poor and very little is known of the long term health effects of this psychosocial problem. The effectiveness of the brief, self-report Vulnerability to Abuse Screening Scale in predicting three year health outcomes was investigated among women enrolled in the Australian Longitudinal Study on Women's Health.

Methods: The sample comprised a cohort of 10,421 women aged 73-78 who completed the 1996 and 1999 postal surveys (attrition rate 19.5%). The Time 2 sample had a small bias towards lower risk for elder abuse at Time 1 and better health on SF-36 and self-rated health. *Results:* This study provides the first clear evidence of a long term impact of psychological abuse on health outcomes among older women, even when controlling for a large number of confounders. The dejection factor of the VASS, which measures emotional and psychological abuse, was strongly and consistently related to all subscales of the SF-36 quality of life measure and the physical (PCS) and mental health (MCS) factors of the SF-36. The vulnerability factor, involving physical and psychological abuse, predicted three year mental health.

Conclusions: These findings have important implications for health service providers who need to enhance their recognition of psychological abuse through easily administered brief questions such as provided in the VASS, and develop effective ways of intervening to reduce the likelihood of abuse and improve quality of life, and particularly mental health, among older people.

Smith N, Young A & Lee C. Optimism, health-related hardiness and well-being among older Australian women. *Journal of Health Psychology*.

Understanding the role of psychological characteristics in predicting or maintaining positive well-being in older age may help provide directions for preventive intervention. This paper addresses the question of whether optimism and health-related hardiness contribute to health and well-being among older women. Positive psychological characteristics, including optimism and health-related hardiness, are known to be associated with good self-rated health, but the nature of the relationship is open to question, since these variables are all affected by socioeconomic status, social support, major physical illness, and access to health services. The paper uses data from 9,501 women aged 73 to 78, participating in the population-based Australian Longitudinal Study on Women's Health. Hierarchical multiple regression established that optimism and health-related hardiness explained a significant proportion of the variance in all subscales of the SF-36, and in a measure of stress, even after these potential confounders were taken into account. The data, although cross-sectional, suggest that positive personal characteristics such as these may make a unique contribution to well-being, at least among older women.

Warner-Smith P & Byles J. The big picture: The health and Wellbeing of three generations of women in rural and remote areas. *Annual Review of Health Sciences*.

Given the social and economic changes occurring in many areas of rural Australia (Beilin, 1995; Lawrence, 1996), and claims of an increasing 'gap' between urban and rural areas where there is 'higher unemployment, higher suicide rates, lower standards of health care, education and telecommunication services, and lower life expectancy' (Kilpatrick and Bell, 2000: 4) and given also that 'women bear the brunt when social services in rural communities are reduced' (Haslam McKenzie 2000:86), it is timely to consider the health of country women compared to women in the cities, to help fill in the big picture.

This paper draws on findings from the Australian Longitudinal Study on Women's Health (ALSWH), a 20 year study of the health of 40,000 Australian women in three age cohorts, to present an overview of rural women's health. The age groups were selected in order to follow women through life stages which are likely to be critical to their health and well-being. Here we discuss aspects of the lives of three generations of rural women: Younger women who were aged 18-23 at the time of the first ALSWH survey in 1996; Mid-age women who were 45-50: and Older women who were 70-75.

Grove N, Brough M, Canuto C & Dobson A. Aboriginal and Torres Strait Islander health research and the conduct of longitudinal studies; issues for debate. *Australian* and New Zealand Journal of Public Health.

The National Health and Medical Research Council, Research Agenda Working Group (RAWG) and the literature on Indigenous health have identified the need to fill gaps in descriptive data on Aboriginal and Torres Strait Islander health and noted both the lack of research with urban populations and the need for longitudinal studies. This paper presents some of the broad ethical and methodological challenges associated with longitudinal research in Indigenous health and focuses particularly on national studies and studies in urban areas. Our goal is to advance debate in the public health arena about the application of ethical guidelines and the conduct of longitudinal studies in Aboriginal and Torres Strait Islander communities. We encourage others to offer their experiences in this field.

Powers JR, Goodger B & Byles JE. Assessment of the abbreviated Duke Social Support Index in a cohort of older Australian women. *Australasian Journal on Ageing*.

Objectives: To assess the acceptability, reliability and validity of the 11-item Duke Social Support Index (DSSI) in community-dwelling older Australian women and to describe its relationship with the women's socio-demographic and health characteristics.

Method: Women aged 70-75 years were randomly selected from the national Medicare database, with over-sampling of rural and remote areas. The mailed survey included items about social support, Medical Outcomes Study Short Form Health Survey (SF-36), health service use, recent life events and socio-demographics.

Results: All DSSI items were completed by 94% of the12,939 participants. Internal reliability was reasonable for ten of the 11 DSSI items and its factors, social interaction (4 items) and satisfaction with social support (6 items; Cronbach's alpha of 0.8, 0.6, 0.8). The factor structure was consistent for subgroups of women: urban/non-urban; English speaking/non-English speaking background; married/widowed. Summed scores were highly correlated with factor scores and showed good construct validity. Higher social support was associated with better physical and mental health, being Australian born, more educated and better able to manage on income.

Conclusion: Ten of the 11 DSSI items provided an acceptable, brief and valid measure of social support for use in mailed surveys to community-dwelling older women.

5.4. CONFERENCE SYMPOSIA AND SPECIAL EVENTS

5.4.1. NSW Department for Women Roundtable: Young Women and Pregnancy, Sydney, 25th July 2003.

Warner-Smith, P. 'Teenage pregnancy and parenting'.

ALSWH is a longitudinal survey of a representative national sample of 40,000 Australian women, spread across three age groups -young, mid-age and older - with the young cohort aged 18-23 in 1996. The longitudinal nature of the ALSWH project is increasingly providing the potential to examine women's lives as they move through critical life stages. ALSWH data are presented here which describe and compare three groups of young women: those who had their first baby in their teens, those who became mothers after the age of 20, and those who did not have children. The data show that the mental and physical health of those women who had a baby in their teens was poorer than either of the other two groups, and a range of risk factors for teenage pregnancy are discussed.

5.5. CONFERENCE PRESENTATIONS

Taft A*, Small R, Hegarty K, Lumley J, Watson L with Women's Health West. Evaluating interventions for women experiencing intimate partner abuse: challenges in the development of a randomised community intervention trial. The story of the mosaic (mothers advocates in the community project). *National Nursing Network Against Violence*, 21st International Conference, Adelaide 20th-22nd June 2003.

With a growing emphasis on interventions to prevent or reduce domestic violence, how do we know these are helping women? Governments and NGOs are increasingly concerned with the effectiveness and cost-effectiveness of interventions in health and other systems that attempt to reduce and prevent intimate partner abuse. This paper will review the issues in methods that have been developed to date to evaluate VAW interventions and discuss their strengths and limitations. It will then illustrate the challenges of developing a rigorous, generalisable, collaborative and women-centred evaluation strategy, using the story of the MOSAIC project development. MOSAIC is a proposed randomised controlled community intervention trial in the culturally and linguistically diverse north-western area of Melbourne. The study's primary aims are:

* to reduce partner abuse among women pregnant or with children under 5 GPs identify as at risk

* to reduce depression in women pregnant or with children under 5 whom GPs identify as at risk

Its broad objectives are:

* to determine the effectiveness of providing mentor mothers' support to women at risk in a CALD community through a randomised trial design, including process, impact and outcome evaluation

* to strengthen the attachment of at-risk women to their children

* to enhance GP case management of family members living with partner abuse

* to enhance effective inter-sectoral collaboration between general practice and communitybased family violence networks

The paper will describe the outcomes of the development phase of this project, the evaluation challenges the research team faced and how these were resolved.

Taft A. Abuse and young Australian women's reproductive health outcomes – emerging data from the Australian Women's Longitudinal Health Study: what are the implications? *Emerging issues in pregnancy care: tackling violence and depression: Evidence, dilemmas and solutions*. Seminar: La Trobe University, Melbourne, 25th June 2003.

No abstract available.

Kelaher, M. Unemployment, contraceptive behaviour and reproductive outcomes among young Australian women. 20th Annual Research Conference: Academy of Health Services Research and Health Policy. Nashville, Tennessee, United States of America, 27th-29th June 2003.

Research objective: To test the hypothesis that welfare reliance provides incentives for single/early motherhood. If this hypothesis is true it would be expected that:

- 1) Unemployed young women might be less likely to aspire to marry, more likely to aspire to having children and less likely to aspire to being unemployed than employed young women
- 2) Unemployed young women would be more likely to fall pregnant
- 3) Unemployed young women may be more likely to give birth

It would be further expected that such differences could not be explained by differences in contraceptive practices.

Study Design: The Australian Longitudinal Study of Women's health conducted mailout surveys of young Australian women (18-22 years) in 1996 and 2000. The current analysis used the following variables.

Unemployment: At time 1 women were considered unemployed if they indicated that they were unemployed and looking for work. All other women including those in full time study were considered not unemployed.

Aspirations at 35 years of age: The women were asked about whether they aspired to have children, be married and be working at age 35 years.

Pregnancy, births and terminations: These were coded as dichotomous variables. The analyses only included outcomes that had occurred since time 1, this resulted in the exclusion of 234 women but the percentage of unemployed was still 6.9%.

Contraception: Perceived need for contraception, use of oral contraceptives and condoms at time 1 were also examined.

Age, socioeconomic status of parents and area and partnership status were taken into account in all analyses.

Population studied: There were 14779 women in the young group at time 1 and d 9683 women at time 2. Most of the women had valid data (98.3%) had valid data on unemployment, with 6.9% of the sample reporting that they were unemployed and looking for work.

Principal Findings: Rates of pregnancy among young unemployed women were higher than rates among unemployed women. However these differences do not reflect a response to the incentives provided by welfare. Unemployed women were less likely that employed women to aspire be married by 35 years but were also less likely to aspire to have children and more likely to aspire to work at 35 years. There was also no evidence that unemployed women were less likely to see a need for or to use contraception. However there was evidence that higher rates of pregnancy among unemployed women were the result of lower use of the contraceptive pill in this population.

Conclusions: Barriers to contraceptive use rather than incentives provided by the welfare system may be responsible for differences higher rates of pregnancy among young unemployed Australian women.

Miller-Lewis L. Psychosocial risk factors for late-adolescent pregnancy and birth: a Women's Health Australia Study. 8th European Congress of Psychology. Vienna, Austria, 6th-11th July 2003

This study investigated psychosocial predictors of late-adolescent pregnancy and childbirth in young Australian women. Two mail-out surveys assessing reproductive behaviour and socio-demographic, unemployment/competence, psychosocial well-being, and aspiration factors, were completed four years apart by 1647 late-adolescent females selected from the young cohort of the Australian Longitudinal Study of Women's Health. Cross-sectional findings indicated that lower psychosocial maturity correlated with both late-adolescent pregnancy and birth, and problem behaviour correlated with late-adolescent pregnancy. Low educational involvement combined with low status employment also correlated with lateadolescent childbirth. Longitudinally, poorer psychosocial well-being and high family aspirations combined with low job aspirations were risk factors for both late-adolescent pregnancy and childbirth. Stress and alcohol use was an additional risk factor for pregnancy, and unemployment with lower income another risk factor for childbirth. These findings provide some support for the Eriksonian developmental model of adolescent pregnancy and childbirth, in that psychosocial well-being partially mediated the relationship between unemployment/income and subsequent late-adolescent childbirth. It is concluded that psychosocial factors play an important role in the understanding of late-adolescent pregnancy and childbirth, and the implications of this for prevention are discussed.

McNair RP. The health of young lesbians in Australia. Australian Lesbian Medical Association annual conference 2003, Noosa, 15th-17th August 2003.

No abstract available.

Brown WJ. Reducing risks and big fat lies: global and local perspectives on weighty issues. *Invited keynote presentation to the inaugural Queensland conference of the Australian Health Promotion Association*. Mackay, August 2003.

No abstract available.

5.6. OTHER PRESENTATIONS

Powers J. Women's Health Australia: Selected results. Older Women's Network, Newcastle, Australia, 5th June 2003.

Lee C. Mental health in the Women's Health Australia cohort. *Research Centre for Gender and Health's monthly seminar series: 'RCGH does lunch'*, the University of Newcastle, Newcastle, Australia, 10th June 2003.

Powers J. Lost and found: Tracking, retention and types of attrition. *Research Centre* for Gender and Health's monthly seminar series: 'RCGH does lunch', the University of Newcastle, Newcastle, Australia, 8th July 2003.

Watson L & Taft A. Taking control of a large cohort dataset grappling with the Australian Longitudinal Study of Women's Health. *Methods Seminar*, Clinical Epidemiology and Biostatistics Unit and the Centre for the Study of Mothers and Children's Health, Royal Women's Hospital, Melbourne, Australia, 30th July 2003.

Hillier L & Kavanagh A. Substance use and mental health and health service usage among non-heterosexual young women in Women's Health Australia. *Lesbian Health Research Seminar*, Australian Research Centre for Sex, Health and Society, La Trobe University, Melbourne, 4th August 2003.

Warner-Smith P. Virgin births and other information about teenage pregnancies: data from the Australian Longitudinal Study on Women's Health. *Research Centre for Gender and Health's monthly seminar series: 'RCGH does lunch'*, the University of Newcastle, Newcastle, Australia, 12th August 2003.

Young A. Postmenopausal hormone replacement therapy: Is it worth the risks? *Research Centre for Gender and Health's monthly seminar series: 'RCGH does lunch'*, the University of Newcastle, Newcastle, Australia, 9th September 2003.

Byles J. Australian Longitudinal Study on Women's Health. *Hunter Chapter of the Australian Association of Gerontology: Dick Gibson Oration*, Willows Convention Centre, Warners Bay, New South Wales, 18th September 2003.

5.7. MEDIA

Date	Media	Title	WHA Collaborator
10/06/03	Article – The Age	"1 in 4 young women	Dr Angela Taft
	(Farah Farouque)	hit by violence"	
16/06/03	Article - The	"Risk-taking behaviour	ALSWH Research team
	Medical Journal of	of young women in	
	Australia (Michael R	Australia: screening for	
	C Carr-Gregg, Kate	health-risk behaviour"	
	C Enderby & Sonia		
	R Grover)		
16/06/03	Article – The	"Teenage girls are	ALSWH Research team
	Sunday Herald Sun	drinking more"	
	(Mary Papadakis)		
20/06/03	Article – The Age	"It's the stress of	Professor Annette
	(Deborah Cameron)	success"	Dobson & Dr Kylie Ball
21/06/03	Article – The Age	"Money, work and	Professor Annette
	(Deborah Cameron)	family send stress	Dobson & Dr Kylie Ball
		levels soaring"	
21-22/06/03	Article - The Sydney	"The young and the	Professor Annette
	Morning Herald	restless"	Dobson & Dr Kylie Ball
20/07/02	(Deborah Cameron)		
28/07/03	Article - The	"Risky Business"	ALSWH Research team
	Courier-Mail (Jane		
21/00/02	Fynes-Clinton)		Due ferre an Arrivette
21/08/03	Interview for Yen	NA	Professor Annette
	magazine (Michelle Graham)		Dobson
08/03	Article – Uninews	"Virgin births and	Dr Donny Worner Smith
08/05	The University of	teenage pregnancy"	Dr Penny Warner-Smith
	Newcastle	teenage pregnancy	
09/09/03	Newcastle	"Risks and benefits of	Dr Anne Young
07/07/05	University Radio	Postmenopausal	
		Hormone Therapy"	
08/09/03	Local ABC Radio	"Older women and	Professor Julie Byles
00,00,00	(Newcastle)	alcohol use"	1 10100001 Valle Dyleb
08/09/03	Newcastle	"Older women and	Professor Julie Byles
	University Radio	alcohol use"	
27/09/03	ABC Radio National	"Profile of CAM users	Dr Jon Adams
		in Australia"	

6. ARCHIVING

Data from main surveys are archived with the Social Sciences Data Archive, once they have been cleaned and checked, and preliminary calculation of variables has been performed. Data dictionaries and a copy of the survey are also archived. Archiving is current to Survey 3 of the Mid-age cohort (collected in 2001). There has been no archiving activity in the current reporting period. We expect that data from Old Survey 3 (2002) will be ready for archiving by December 2003.

7. FINANCIAL STATEMENT

Expenditure July- September 2003 Based on University of Newcastle Financial Reporting System 12/9/03 Account 593-1029

The following table outlines income received from the Commonwealth, including the September contractual payment which has not yet been received, and expenditure associated with the conduct of the project. This includes forward estimates for the period October-December 2003.

INCOME EXPENDITU				RE			
Source	Details	Income	Items	Actual Expenditure 1/7/03– 12/9/03	Forward Estimate 13/9/03- 30/9/03	Forward estimate 1/10/03-31/12/03	
DoHA	Contract	382,040	Surveys & data			31,306	
		(UN)	entry				
	September	37,000	Newsletter		11,583		
	contractual	(UQ)	printing	2 (20		1.10	
	payment (not yet received)	190,000 (UN)	Data linkage (AEC, HIC, CCV, NDI)	2,620		440	
		60,000	Computer	124			
		(UQ)	h'ware, s'ware Equipment & maintenance	24		800	
			Postage & freight	1,801	500	22,750	
			Telephone	2,740	498	1,100	
			Printing, stationery, office supplies	15,297	880	550	
			General consumables/ Repairs	1,876	340	550	
			Travel/ Hospitality	9,393		8,800	
			Salaries UN	133,315	24,239	157,554	
			On-costs	30,516	5,548	36,064	
			Salaries UQ	42,195	7,672	49,867	
			On-costs	8,439	1,534	9,973	
			Annual Report			4,400	
			University O'head charge	57,306		37,500	
			Postgraduate scholarships/ fees	7,155	1,301	5,500	
			Student research costs				
TOTAL S				312,801	54,095	367,154	
		\$669,040		\$7	/34,050 (\$	65,010)	

Table 7.1. Financial State

8. PROJECT STAFF JULY - SEPTEMBER 2003

8.1. PROJECT STAFF: RESEARCH CENTRE FOR GENDER AND HEALTH, UNIVERSITY OF NEWCASTLE

Research Centre Director:	Professor Lois Bryson (part-time position)
Project Manager:	Dr Penny Warner-Smith
Data Manager:	Mrs Jean Ball
Statistician:	Dr Anne Young
Statistician:	Ms Jenny Powers
Research Assistants:	Mrs Lyn Adamson
	Ms Rosie Brotherston
	Ms Jennifer Helman (part-time)
	Mrs Joy Goldsworthy (maternity leave)
Data Assistant:	Ms Eliza Fraser
Secretary (shared position):	Mrs Penny Knight, Ms Sue James
Part-time Project Assistants:	Ms Kath Bell

Ms Kath Bell Mrs Catherine Chojenta Ms Ashlea Dwyer Ms Katie Lawrence Mr Tim Neve Ms Ingrid O'Neill Ms Paula Setz Ms Suzanne Stevens Ms Zoe Turner Ms Jacqui Warner-Smith

8.2. PROJECT STAFF: UNIVERSITY OF QUEENSLAND

Project Coordinator: Senior Project Officer: Part-time Research Assistants: Professor Christina Lee (part-time position) Ms Anne Russell Ms Jess Ford Ms Natalie Grove Ms Nadine Smith Ms Helen Gramotnev

8.3. PROJECT INVESTIGATORS

Professor Annette Dobson, School of Population Health, University of Queensland, Study Director Dr Kylie Ball, School of Health, Deakin University Professor Wendy Brown, School of Human Movement Studies, University of Queensland Emeritus Professor Lois Bryson, Director, Research Centre for Gender and Health, University of Newcastle, and RMIT University Professor Julie Byles, Centre for Research and Education in Ageing, University of Newcastle Professor Christina Lee, Schools of Psychology and Population Health, University of Oueensland Dr Gita Mishra, Medical Research Council Human Nutrition Research Unit, Cambridge, UK Dr Nancy Pachana, School of Psychology, University of Queensland Associate Professor Margot Schofield, School of Health, University of New England Dr Penny Warner-Smith, Research Centre for Gender and Health, University of Newcastle Dr Anne Young, Research Centre for Gender and Health, University of Newcastle 8.4. ASSOCIATE INVESTIGATORS CURRENTLY WORKING WITH THE MAIN COHORTS Dr Jon Adams, Centre for Clinical Epidemiology and Biostatistics, University of Newcastle Mr Michael Bittman, School of Sociology, University of New South Wales

Mr Michael Bittman, School of Sociology, University of New South Wales
Professor Peter Brown, School of Leisure Studies, Griffith University
Dr Rafat Hussain, School of Health, University of New England
Associate Professor Justin Kenardy, School of Psychology, University of Queensland
Dr Ruth McNair, School of General Practice, University of Melbourne
Dr Amanda Patterson, King's College, London
Dr Charmaine Power, School of Nursing and Midwifery, Flinders University
Dr David Sibbritt, Centre for Clinical Epidemiology and Biostatistics, University of Newcastle
Dr Angela Taft, Centre for Mothers' and Children's Health, La Trobe University
Dr Stewart Trost, School of Population Health, University of Queensland
Dr Tracey Wade, School of Psychology, Flinders University
Dr Edith Weisberg, FPA Health

APPENDICES

APPENDIX 1. SCIENTIFIC MEETINGS AND TELECONFERENCES AMONG RESEARCH TEAM

APPENDIX 1.1. STEERING COMMITTEE TELECONFERENCE MINUTES

Steering Committee Teleconference Tuesday 10th June 2003

Present: Annette Dobson, Penny Warner-Smith, Christina Lee, Anne Young, Lois Bryson, Wendy Brown, Julie Byles Apologies: None Minutes: Penny Knight

Item No	Item	Action	By whom Due date
1	Welcome and apologies: Annette welcomed everyone.		
2	Minutes and matters arising All on agenda – no problems with previous minutes.		
3	Strategic issues		
	Refunding Annette spoke to Brendan Gibson last week. He advised to escalate contact. Annette emailed Rob Wooding with a copy to Joy Eshpeter – no reply from either of them to date. Annette to contact Rob Wooding later today. The present contract expires at the end of June, and any extension thereof has to have the University of Queensland as a signatory. Staff at WHA to be advised that the contract will be renewed for three months, and that there are sufficient funds to continue until the end of 2003. Decisions will have to be made at that time as to the future of the study and its three cohorts if we do not receive the funding we have requested.		
	 <u>Management issues</u> Chris in Queensland from July 1. Penny to take over her duties in Newcastle. Lois becomes the director of the Research Centre. Lois, Penny and Chris to see Ron McDonald in Newcastle at 8:30 am on Friday 13th June to discuss financial matters. Data meeting on 11 July in Queensland. Ronis Chapman will represent the Department of Health and Ageing at the Mid 4 meeting on Thursday. Several investigators will attend as well. It is proposed at the meeting on Thursday to spend time working out a research agenda for the 		

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Item No	Item	Action	By whom Due date
	Old cohort. Time limit on research proposals needs to be set. There is a potential for collaboration on research proposals. Priorities have to be set both from the perspective of the Stats group, and also the PI's with regard to the data sets.		
	Research syntheses Wendy has completed first draft of the PA glossy and will circulate for comment later today. Four syntheses have been sent to Print National for printing and binding. Tim has nearly final drafts of three glossies – Chris to circulate these to PI's. Reports from UN and UQ UN report on the table. UQ – huge backlog with ethics approval at the hospital. AOB National Symposium on Ageing Research – documentation has been circulated. Important that people from our Study be there for all of the events, including those with Dept of Ageing. Julie	Chris to circulate glossies	Chris
	to follow up with Hal Kendig. Chris to draw up schedule for meetings for the second half of the year.	Chris to draw up schedule for meetings	Chris

Next meeting: Monday 7th July 2003 at 9 am

Steering Committee Teleconference Monday 7th July 2003

Present: Annette Dobson, Penny Warner-Smith, Christina Lee, Anne Young, Lois Bryson, Wendy Brown

Apologies: Julie Byles Minutes: Penny Knight

Item No	Item	Action	By whom Due date
1	Welcome and apologies: Annette welcomed everyone.		
2	Minutes and matters arising		
	All on agenda – no problems with previous minutes.		
3	Strategic issues		
	Report on Research Syntheses		
	Hard copies of research syntheses and one CD have been sent to Canberra.		
	Glossies are deliverables for the extension of the contract and must be in Canberra by		
	September. Three are nearly complete, and two are still being worked on. It was agreed that they should be sent to the Department as soon as they are ready, possibly even by the end of		
	July. Once they are with the Department, we will work out a distribution strategy for them.		
	July. Once they are with the Department, we will work out a distribution strategy for them.		
	Report on Re-funding progress		
	Long term re-funding details are unclear at this time. A three month extension to the current		
	contract, till the end of September, has been signed.		
	Management issues for 2003		
	The data management workshop on Friday 11 th July will be used to help formulate a work plan		
	for the next couple of years.		
	Reports from UN and UQ		
	UN – surveys still coming in (55%). Overseas surveys received from Janice Muir. Telephone		
	reminders going well. Another three part-timers have been employed. Congratulations to all		
	concerned with the huge task of tracking 5000 young women by phone.		
	Working on the website.		
	OSW contract signed and Deb Loxton has started work on this. Proposal from NSW		
	Department for Women to put in a linkage grant application to look at teenage pregnancy.		

Item No	Item	Action	By whom Due date
	 Penny will be going down to the round table for this proposal at the end of this month. UQ – Chris has taken up her post at UQ. Major holdups with ethics so therefore the two grants cannot progress further at this stage. It is possible we will lose the Cardio-vascular NHMRC grant due to the delay in obtaining ethics approval. ARC Research Networks: Hal Kendig for Ageing. Mark Wooden for Panel studies. Trevor Breusch and Mark Western for Social Science data archives. 		
	AOB None		

Next meeting: Thursday 7th August 2003 at 9 am

Steering Committee Teleconference Thursday 7th August 2003

Present: Annette Dobson, Penny Warner-Smith, Christina Lee, Julie Byles, Anne Young, Lois Bryson, Wendy Brown Apologies: None Minutes: Penny Knight

Item No	Item	Action	By whom Due date
1	Welcome and apologies: Annette welcomed everyone.		
2	Minutes and matters arising All on agenda – no problems with previous minutes.		
3	Strategic issues Report on Research Syntheses Glossies are with the printers, and we should receive the first copies for proofreading by tomorrow. There has been no response from the Minister yet with regard to our request for the Research Syntheses launch. Wendy will be speaking to Andrew Laming again about this issue. Report on Re-funding progress Annette to follow up details of proposed funding from OSW, with Joy Eshpeter and Tanya. Enabling Grant has to be in to UQ by the end of next week. Not possible to have all 11 Investigators on the form, but 7 is a reasonable compromise. Everyone to send a one page cv with comments and suggestions to Chris, and these will be collated and circulated over the weekend. Need a firm strategy to keep the study together, but funded in a more realistic way, from several sources. Reports from UN and UQ UN – Mid 4 pilot close to being finalised. Complete Elder Abuse scale is to go into the pilot, and the Mid cohort will be asked to comment. Evaluation form will be sent out with the pilot surveys. Rosie has 'mapped' the Young cohort and Penny will circulate this document. Young 3 response up to 56%. Phoning going really well. Jean expecting a final response rate of between 60% and 65%. UQ – Work on which aspects of SES (eg education, income, occupation, parents' SES) as they apply to young women and how they relate to health is now coming together and Natalie Grove	All to send cv's and comments	All

Item No	Item	Action	By whom Due date
	has a well advanced draft paper. Jess and Wendy are working on physical activity. Nadine, Nancy and Chris are working on papers on DSSI and MH. The Indigenous paper (why a national longitudinal study is inappropriate) has been accepted for ANZJPub Health. Ethics committee issues continue to plague the 2 NHMRC grants – approval has not yet been received in writing from RBH for focus groups for carers of people with neurodegenerative conditions (which does have UQ Ethics approval), and the heart disease project still needs a full set of documentation before it can go to UQ Ethics. Anne R is mainly working on non- ALSWH projects at present (with funding from Neville Owen). Liane is making steady progress analysing the transcripts for the interviews with young women on smoking.		
	Substudies Mids will have to be excluded from the CVD substudy because of timeline problems. Substudies for next year will have to be carefully planned, because there is the Mid 4 main survey, and also the pilot survey for Old 4. More attention should be given to substudies which entail personal contact, especially with the Old cohort.		
	AOB Teleconference costs were investigated. It was decided to stay with Telstra for now.		

Next meeting: Thursday 4th September 2003 at 9 am

Steering Committee Teleconference Thursday 4th September 2003

Present: Annette Dobson, Penny Warner-Smith, Christina Lee, Julie Byles, Anne Young, Lois Bryson, Wendy Brown **Apologies:** None

Minutes: Penny Knight

Item No	Item	Action	By whom Due date
1	Welcome and apologies: Annette welcomed everyone.		
2	Minutes and matters arising All on agenda – no problems with previous minutes.		
3	Strategic issues Report on Re-funding progress Nothing finalised. Annette, Wendy and Christina, together with the Deputy Vice Chancellor from UQ are meeting with Tanya Utkin tomorrow, Friday 5 th September – the agenda for this meeting is unclear. A three-way teleconference will be set up after the meeting to advise the PIs of the outcome. Lois spoke to Jeff Whalan in the Prime Minister's office yesterday. The Department appears committed to the cause, but there is a shortage of funds. Lois to contact Perrin now that Jeff Whalan has left. Christina revised the budget and a copy was sent to David Siddle and to Ron McDonald. It is important that the UQ DVC understands thoroughly what the situation is with regard to both Universities. Ron and David have undertaken to put in \$50 000 per year should the application for the Enabling Grant be successful. Report from UN Young Survey 3 Now up to 60% and hopeful that this could rise. Newsletter Unclear when this will be mailed as Tim has other priorities, such as posters for the Conference at the end of the month, which are taking much of his time. Still expecting to get it out early October. Lyn has written permission from all the women whose stories we are going to use.		

Item No	Item	Action	By whom Due date
	<i>Mid 4</i> Ethics received from Newcastle. We have had a quote from Lane and the distribution list is to be sent to them today.		
	List of Registered Users Lois met David Hazlehurst in Canberra from FACS who spoke about a list of registered users. Rosie and Jean are compiling a list of people who have a Privacy Agreement and an MOU. This list could be used if we were called upon to produce a list of registered users. Data Management group have decided to ask people to sign a confidentiality statement annually.		
	AMA newsletter Two documents prepared and sent to Margaret McDonald. Must ensure we do not trivialise our findings.		
	ARC Research Networks Julie advised that she and Annette have been invited on to the Hal Kendig network and also the John McCallum network. Julie has sent details for the Hal Kendig network, and Annette to do the same. John McCallum – not quite as developed at this point. Julie is asking for clarification on its progress. Mark Wooden (HILDA) one – panel studies. Minimalist information on this. Christina on Research network on Women and Reproductive Health, being put together by Jane Usher, psychologist in Sydney. Pls should endeavour to get on as many of these networks as possible.		
	AOB Grants Julie advised the meeting that they have received a \$10 000 grant from HMRI to assist with the analysis of the data for the older women and alcohol use. Still awaiting a response from Brewers in this regard. Julie and Annette to circulate a short proposal for money from the Pharmaceutical Alliance looking into muscular skeletal conditions and treatment. (Sean Lybrand and Mark Schultz – Julie's contacts).		

I

Item No	Item	Action	By whom Due date	
	Conferences Julie has been invited to run a workshop at the International Congress on Longevity in Sydney next year, and would like to do the workshop on this Study. All in agreement this would be good for the Study. Christina has been asked to be the Keynote speaker at next year's Australian Psychological Society Conference, and will be speaking about WHA. There is an international Health Network Conference in Newcastle next month. We have been			

Next meeting: Thursday 2nd October 2003 at 9 am

APPENDIX 1.2. ALSWH DATA MEETING

Notes on ALSWH Data Meeting University of Queensland 11th July 2003

Date of this document: 15th July 2003

Present:

UQ: Annette Dobson, Christina Lee, Jess Ford, Anne Russell, Nadine Smith, Natalie Grove UN: Penny Warner-Smith, Anne Young, Jean Ball, Eliza Fraser, Jenny Powers

Conversation was frequently discursive so I have tried to summarize decisions and action plans in logical order rather than in the order they happened. At the end I have a list of actions which summarizes who is to do what.

1. Month-by-month work plan

A draft had been drawn up by CL and circulated. We went through this adding names to tasks and modifying as appropriate.

National Death Index

Annette's preference is to do this annually rather than triennially. To review when exact budget is known (leave in work plan as annual for the moment)

Data on Deaths

What quality of data do we have on deaths? For how many do we know actual date of death, cause of death? Jenny P to prepare a table and circulate.

Glossies

Penny WS to get these printed as soon as possible.

Distribution list – PWS and CL to work with LA on mailing list. To include those who receive Annual Report (Lyn to update contact details), plus members of NHMRC committees, advisors in PMC, Margaret McDonald, Jon Kruger, State and Federal presidents, & others at AMA, journalists

Data linkage Report

Anne Russell and Jess Ford to look at finalizing what is currently in draft form and include in December 2003 Report, then consider what might go into subsequent reports in early 2004 (when some of the current uncertainties about funding and about HIC may or may not be resolved)

Web

Explore methods for getting all surveys and all databooks put on web as pdf files for simpler downloading

Replace the current survey-with-percentages (previously prepared by Joy) with copy of survey and copy of databook

2. Derived Variables

Anne Russell presented a list of variables completed or being worked on (data dictionary supplement)

Comments on Anne's TO DO column (and other variables which arose).

SES Young – Jess Ford is working on this. Mid and Old.

Work/study status - only needs writing up in standard format

 $\underline{Menopause}$ – there has been work done by various people, not sure how much has been shared.

AY and JP to collect materials on menopause and menopause transition (including anything prepared by Lauren Williams) and circulate to data meeting

Menopause transitions (1-2 and 2-3) to be added to data meeting agenda

CL to remind Gita about proposed paper on HRT and hysterectomy

Stress – CL to write up new materials

<u>Physical activity</u>, including transitions and cross-sections – Jess Ford has this nearly finished for Mids. Will do Young and Old once Mids is completed and approved. CL to extract from Sandra Bell's thesis the section on PA transitions among Young, and circulate to AR, JF and WB.

<u>BMI</u> – cross-sectional data have been sorted and cleaned. Longitudinal – waiting on T3 data to decide on inconsistencies in heights and weights. AY to work on longitudinal inconsistencies.

FFQ – documentation of energy adjustment – AD will ask Gita to provide information

<u>Medical history</u> – JP will send information on diagnoses and symptoms to AR. We need a standard method for calculating number of symptoms, to replace present system of adding up all or some and of including "rarely" in some analyses and not others.

<u>Psych variables</u> – CESD, satisfaction, DSSI, opt/hard – documentation done, formatting only needed. NS to send code for opt/hard to JB.

- GADS. NS will look at this variable. Add to data meeting agenda.
- Perceived control JF and CL to work on

3. HIC issues

Anne Young led this discussion. Progress with HIC depends on funding and on the acceptability of the protocol for 100% linkage. Decided we should consider pursuing other types of linkage. Anne Y, Annette D and Michael Hobbs (WA) to look at possibility of NHMRC grant involving linkage with WA data, need to have a specific research question (maybe CVD?). Applications due in December.

Should we proceed with obtaining PBS data? The quality of the data is widely considered to be poor and we probably do not have the capacity to work with the data at the moment.

The question of whether our current data and/or data obtainable under a new protocol would include DVA data has not yet been answered.

4. Substudies

Discussion of possible substudies for 2003 and 2004. These include:

FPA contraception substudy - pilot completed, main survey to start soon

Younger women and depression – Kate France – working on survey and ethics for 2004 CVD study – Annette et al. – progress on this depends on ethics committees and the NHMRC accepting the problems of cross-institutional research management

Carers - we hope to have this completed in 2003

Elder abuse substudy – Margot Schofield – no response to CL's request for information, now too late for it to go ahead in 2003, need to explore with Margot whether best to abandon it or conduct in 2004

Work/life balance – Penny et al. – focus groups proceeding, project will continue into 2004 Wendy B and colleague on PA – CL to circulate information to PSA

5. Longitudinal Studies Capacity Grant

Gail Williams joined the meeting together with four of the LSU postdoc – Rob Ware, Jolieke van der Pol, Leigh Tooth, and Adrian Barnett. They explained the purpose of the Longitudinal Studies Unit, with an initial focus on (a) measurement of change and (b) generalizability, with initial emphasis attrition. General discussion of how best to collaborate with ALSWH, and a presentation of work in progress. AB is working on dealing with highly skewed data/floor & ceiling effects and LT is working on strategies for understanding predictors of attrition. All have signed confidentiality agreements and can now use ALSWH data as well as other datasets to explore methods.

6. Discussion of Research Theme – Measurement and Analysis of Health Outcomes

Annette prepared an outline of major topics under this theme, derived largely from the 2002 Report to Reviewers. Discussion of the main points:

Attrition

others?

Respondents vs non-respondents

Attrition S1-S2-S3 for Mid and Old – JP and AY working on descriptive report – characteristics of who is lost

Respondents vs 2001 census

Jenny P waiting on data

Deaths and survivors

Death data to be reviewed and tidied (as discussed earlier). Discussion of paper on compression vs prolongation of morbidity – differences in SF36 etc at previous survey for Deaths vs Survivors, taking SES and region into account. Survival analysis if data quality is adequate. Annette, Julie Byles, Natalie, Jenny P, Anne Young,

Health Service Use

Who are high users among the Young? Data need to be examined to look at the 2 items about GP visits (routine pregnancy and contraception relates vs all other reasons) Do they distinguish and if not how best to use these data.

Nancy Pachana has a new PhD student (Emma Harley) with an interest in high service use and somatisation of anxiety-related complaints – vague at the moment – probably with the Older cohort. NP will keep us informed.

Cognitive decline/memory changes

Nancy plans to work on this.

Depression

effects on response bias – Nadine is looking at this as part of the PhD effects on retention – Jenny P has done a report in this already.

Missing data/multiple imputation

Not a burning issue for this group, Gita Mishra continues to work on this and will keep us informed.

Validity of measurements

Prospective/predictive validity

ANSI – Jenny P about to finish work on this, will need input from AY and Amanda Patterson

Validation of self-reported diagnoses

substudies needed for validity. Jenny P looking at inconsistencies in self-report of diagnoses

Generic vs specific measures of functional limitation and comorbidity

Substudies needed

Cate D'Este and Julie Byles are doing something with DVA data – check what they are doing

Measuring change

LSU staff working on latent variables underlying ordinal categories and on adjustment for baseline/regression to the mean, and responsiveness of measures – if there are example in the ALSWH data they could address, please discuss with Annette.

Statistical analysis

Annette is working on these topics with LSU staff

Record Linkage

Dependent on funding and progress with protocol, as discussed earlier

Geocoding & spatial analysis

Anne Y – looks at FACS classification of categories of SLA – to cross-classify against ARIA/RRMA/other measures – main value may be in identifying outer urban regions

Deb Loxton using for OSW project which looks at unpartnered mothers esp in outer urban areas Ann Larson (now at UQ in Geography) continuing to be interested in internal migration

7. Other issues

CL reported on plans for analyses in the "roles and relationships" theme, with a focus on identifying characteristics of young women who cope successfully with life transitions.

Julie Byles' table of analyses for Older cohort – CL to look at status of each box in terms of existing projects, expressions of interest, completed papers etc. Rosie to prepare a parallel table for Younger cohort.

Brief discussion (for later development) of measures of responsiveness of health system (vs subjective satisfaction of individual) and of measures of quality of life which are broader than health-related QoL (current psych literature in this area sees QoL as multidimensional and shows that the relative importance of the dimensions alters depending on an individual's personal and medical situation)

8. Actions Arising

What	Who	
Comment to CL on revised Monthly Plan (attached) by end of July	Everybody	
Glossies to printer and circulated asap	Penny WS	
Updated mailing list for glossies (revision of Glossy list)	PWS, CL,	
	LA	
Look at getting all surveys and databooks on Web in pdf format	Penny WS,	
	Tim N	
Remind Gita about HRT/Hx paper and put in proposal	Christina L	
Get FFQ energy adjustment algorithm from Gita	Annette D	
Send code for opt/hard to Jean Ball	Nadine S	
Circulate substudy plan from Wendy B to PSA	Christina L	
Find out what Jule B and Cate d'E are doing on comorbidities with DVA data,	Jenny P?	
report to group		
Ensure that all items in the next table appear on the data meeting agenda	Lyn A	

Table A1.2.1. Actions to be taken now

What	Who		
Tabulate existing data on deaths – for how many do we have exact date? Cause?	Jenny P		
Finalise existing materials for HIC databook /data linkage report by	Anne R, Jess F		
December 2003			
Derived variables:			
SES - continue working on SES for all age groups	Jess F		
Work/study status - write up in standard format	Anne R		
Menopause and menopause change status – collect all existing	Anne Y & Jenny P		
documentation and circulate to data group to decide what to do next			
Stress – Y –revise report on basis of Sandra's more recent work	Christina L		
PA – complete Mid work then do Young and Older	Jess F		
- circulate Sandra's work on Y PA transitions	Christina L		
Symptoms - make some decisions about a standard method for	?????		
calculating a derived symptoms variable			
Psych variables – finish formatting of documentation	Anne R		
GADS – begin looking at this variable	Nadine S		
Perceived control - ditto	Jess F, Christina L		
Attrition:			
descriptive paper on attrition S1-S2-S3	Jenny P, Anne Y		
comparison with 2001 census (when available)	Jenny P		
deaths vs survivors – paper on morbidity as a predictor	Annette D, Julie		
	B, NG, JP, AY		
	+++		
Health service use			
How are the 2 GP use items among the Youngs distinguished?	?????		
Depression and response bias	Nadine S		
Validity of measures:			
ANSI – JP to finish work on this, input from AY and AP	Jenny P, AY, AP		
Inconsistencies in reported diagnoses – I'm not sure what stage this is	Jenny P		
at			
Geocoding			
Crosstabulating FACS classification against ARIA etc	Anne Y		

Table A1.2.2. Actions to be taken or got under way soon

Table A1.2.3. Less definite longer term plans

What	Who
Decide what might go into subsequent data linkage reports	Anne Y, Anne
	R, Jess F
Work on BMI, height and weight inconsistencies when T3 data are	Anne Y
available	
Look at NHMRC grant to explore linkage with WA dataset	Anne Y,
	Annette D
Continue process of working with HIC	Anne Y
Find out about DVA data and whether routinely included	
Look at ways of working on collaborative activities with LSU people	?????

Table A1.2.4. Deliverables and Timeline Specified in Draft Contract (Annexure B)Revised 15/7/03

	Survey	Prep & Pilot	Study report	Annual Report	Survey Report	Changes Report	Data Linkage Report	Newsletter	Policy Report	Archive
Dec 03	Y3	M4	CL	CL	03			©	©	
June 04	M4	O4				©				©
Dec 04			CL	CL	Y3			©	©	
June 05	O4	Y4					\odot			©
Dec 05			CL	CL	M4			©	©	
June 06	Y4	M5				©				©
Dec 06			CL	CL	04			©	©	
June 07	M5	05					\odot			Θ
Dec 07			CL	CL	Y4			©	©	
June 08	05	Y5	FINAL REPORT, END OF CONTRACT PERIOD. PROCEED SMOOTHLY TO NEW CONTRACT WITH INCREASED ANNUAL BUDGET							
Dec 08			CL	CL	M5			0		

NOTES:

Study Report is the old 6-monthly report, now annual **Annual Report** is the Glossy **Survey Report** is to consist of

- 1. Methodological issues response rates cut and paste from previous year's Study Report
 - sources of items cut and paste from pilot year's Study Report
- 2. Survey forms copy from previous year's Study Report
- 3. Tabulation of results = data book. NEW, to be done that year

Changes Report consists of

- 1. Definitions of measures of change
- 2. Tables showing changes in major variables (ie change databook)

We need to produce two of these – first need to tabulate what change variables have already been defined, then decide which ones to do next and which to present in which change report. NB as we have not yet done a change databook, we can use all the work which has already been done as deliverables under this new contract.

Data Linkage Report consists of

- 1. methods used
- 2. tabulations of the main results (ie HIC databook)

We need to produce two of these too – again work already done can count towards these deliverables as the HIC data book has not been completed yet.

Policy Report equates to a research synthesis.

Timelines in order to achieve all deliverables (endlessly repeating 2-year cycle)

In each year we:

Run this year's survey Prepare data dictionary for this year's survey Pilot next year's survey Clean last year's data and prepare data books Archive the year before last's survey Write and distribute at least one newsletter (two if funding permits)

As well as this, in each year we write:

Study Report Annual Report Survey Report Policy Report

And in every second year we write: Changes Report Linkage Report

And we also do substudies every year.

Table A1.2.5. Data Timeline: July 2003 – December 2005

This is a draft designed to present a two-yearly cycle, starting at Jan 04, but the last 6 months of this year are included to remind us of what we need to do before we start the next cycle. NB it is not meant to include all tasks involved in running the project, only those for which the data meeting has a role in planning or carrying out.

	Survey (annual)	Prep & Pilot (annual)	Study report (annual)	Annual Report (annual)	Survey Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)	Data dictionary and Archive (annual)
July 03	Complete data collection and send surveys for scanning Y3 JB/EF/LA/ Part-timers	Finalise survey, ethics PWS/CL	Start Sept report CL		Finish cleaning O3 data, calculating variables, and producing data book	List change variables already defined. Decide which variables to define next.	Report on what is currently in preparation AY/JF	Write text, circulate and finalize CL	Complete glossies and submit to DoHA PWS/TN	Ensure that Y3 data dictionary is complete. EF
Aug 03		Pilot mailout M4 EF/LA/RB	Finalise, layout, production CL/RB		JB/EF/PK	Decide on formats for change databook	_	Layouts and quotes TN/LA/CL/P WS		
Sept 03		Pilot reminders EF	Submit Sept Report CL			Decide which change variables to		Newsletter address list and mailout JB	Distribute glossies PWS/CL/LA	
Oct 03		Pilot track and data entry EF/CC/LA	Start Dec report CL	Choose theme, write text CL		put in June 04 change databook and start				
Nov 03		Pilot descriptives, missing data, revise M4,to data mtg, ethics EF/ PWS/CL/AD	Finalise Dec report, layout, production CL/RB	Layout and design, finalise text, production, mailing list CL/TN/LA		producing definitions and data tables				
Dec 03	Call for tenders M4 JB	Finalise survey, ethics PWS/CL	Submit Dec Report CL	Submit report CL/LA						

	Survey (annual)	Prep & Pilot (annual)	Study report (annual)	Annual Report (annual)	Survey Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)	Data dictionary and Archive (annual)
Jan 04	Finalise tender for this year's survey M4 JB/PWS					Continue to work on changes variables selected for			This is to be scheduled in collaboration with DoHA staff	Prepare data dictionary for M4 AR/JF
Feb 04	Mailing lists, track & NDI JB/JP/EF/ LA/Part- timers				Y3 Data back from scanner	this Changes Report – definitions and data tables.			AD/CL/PW S	
Mar 04	Mailout JB/LA/Part				Clean Y3 data and calculate derived variables		Decide on formats and vars to go in June 05. AY/JF			
Apr 04	Reminders JB/LA/Part	Concepts and changes O4 CL			JB/EF		Start work on data linkage material –			Archive O3 AR/JF
May 04	Reminders JB/LA/Part	Draft O4 CL				Layout, design, ext, production	data dictionary, data books,			
June 04	Phone, track, further mailouts JB/LA/Part	Planning mtg CL				Submit Changes Report 1	descriptive materials. Also develop timetable for actual linkage process. Review progress in March, June, Sept and Dec of each year. AY/JF			

	Survey (annual)	Prep & Pilot (annual)	Study report (annual)	Annual Report (annual)	Survey Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)	Data dictionary and Archive (annual)
Jul 04		Finalise survey, ethics PWS/CL			Calculate weightings and produce data book AR/JF	Decide which change variables to focus on over the biennial reporting cycle.		Write text, circulate and finalize CL	Keep making helpful suggestions – develop timeline when report has been defined – to	
Aug 04		Pilot mailout M4 EF/LA/RB	Collate info from existing records, other reports,			Work steadily away on definitions	Keep working on data linkage material –	Layouts and quotes TN/LA/CL/ PWS	be delivered some time this year AD/PWS/C	
Sept 04		Pilot reminders EF	Investigator reports etc CL/RB			and data tables for chosen change	data dictionary, data books, descriptive	Newsletter address list and mailout JB	L	
Oct 04	Phone surveys, final tracking JB/LA/Part	Pilot track and data entry EF/CC/LA	Draft report, write summaries CL	Choose theme, write text CL		variables. Review progress in Sept, Dec,	materials. Review progress in March, June,			
Nov 04		Pilot descriptives, missing data, revise M4,to data mtg, ethics EF/ PWS/CL/A D	Do budgets, Produce Report CL/PWS /RB	Layout and design, finalise text, production, mailing list CL/TN/LA	Prepare report, finalise text, update cut- and-paste material, layout, production AR/JF/CL	March and June of each year.	Sept and Dec of each year. AY/JF			
Dec 04	Call for tenders O4 JB	Finalise survey, ethics PWS/CL	Submit report CL	Submit report CL/LA	Submit report CL					

	Survey (annual)	Prep & Pilot (annual)	Study report (annual)	Annual Report (annual)	Survey Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)	Data dictionary and Archive (annual)
Jan 05	Finalise tender for O4 JB/PWS					Keep working on definitions and data			Keep making helpful suggestions – develop	Prepare data dictionary for O4 AR/JF
Feb 05	Finalise mailing lists Track NDI JB/JP/EF/ LA/Part				M4 Data back from scanner	tables for chosen change variables. Review progress in	Keep working on data linkage material – data dictionary,		timeline when report has been defined – to be delivered some time	
Mar 05	Mailout JB/LA/Part				Clean M4 data and	Sept, Dec, March and	data books, descriptive		this year	
Apr 05	Reminders JB/LA/Part	Concepts and changes Y4 CL			calculate derived variables	June of each year.	materials. AY/JF		AD/PWS/C L	Archive Y3 AR/JF
May 05	Reminders JB/LA/Part	Draft Y4 CL			JB/EF		Layout and design, finalise text, production AY/JF/CL			
June 05	Phone, track, further mailouts	Planning mtg CL					Submit Data Linkage Report 1 CL			
Jul 05	JB/LA/Part	Finalise Y4 survey, ethics PWS/CL			Calculate weightings and produce data book		Decide what is to go into next biennial data linkage	Write text, circulate and finalize CL		
Aug 05		Pilot mailout Y4 EF/LA/RB	Collate info from existing records, other reports,		AR/JF		report AD/AY/JF	Layouts and quotes TN/LA/CL/ PWS		
Sept 05		Pilot reminders	Investigator reports etc				Begin working on	Newsletter address list		

	Survey (annual)	Prep & Pilot (annual)	Study report (annual)	Annual Report (annual)	Survey Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)	Data dictionary and Archive (annual)
		EF	CL/RB				data linkage material	and mailout JB		
Oct 05	Phone surveys, final tracking JB/LA/Part	Pilot track and data entry EF/Part/LA	Draft report, write summaries CL	Choose theme, write text CL			AY/JF			
Nov 05		Pilot descriptives, missing data, revise Y4, to data mtg, ethics EF/PWS/CL /AD	Do budgets, Produce Report CL/PWS/R B	Layout and design, finalise text, production CL/TN/LA	Prepare report, finalise text, layout, production AR/JF/CL					
Dec 05	Call for tenders Y4 JB	Finalise survey, ethics PWS/CL	Submit report CL	Submit report CL/LA	Submit report CL					

	Survey	Prep & Pilot	Data Management
July 03	Complete data collection and send surveys for scanning Y3 JB/EF/LA/ Part-timers	Finalise survey, ethics PWS/CL	Ensure that Y3 data dictionary is complete. EF Finish cleaning O3 data, calculating
			variables, and producing data book JB/EF/PK
Aug 03		Pilot mailout M4 EF/LA/RB	
Sept 03		Pilot reminders EF	
Oct 03		Pilot track and data entry EF/CC/LA	
Nov 03		Pilot descriptives, missing data, revise M4, to data mtg, ethics EF/PWS/CL/AD	
Dec 03	Call for tenders M4 JB	Finalise survey, ethics PWS/CL	
Jan 04	Finalise tender for this year's survey M4 JB/PWS		Prepare data dictionary for M4 AR/JF
Feb 04	Mailing lists, track & NDI JB/JP/EF/ LA/Part-timers		Y3 Data back from scanner
Mar 04	Mailout JB/LA/Part		Clean Y3 data and calculate derived variables JB/EF
Apr 04	Reminders JB/LA/Part	Concepts and changes O4 CL	Archive O3 AR/JF
May 04	Reminders JB/LA/Part	Draft O4 CL	
June 04	Phone, track, further mailouts JB/LA/Part	Planning mtg CL	
Jul 04		Finalise survey, ethics PWS/CL	Calculate weightings and produce data book AR/JF
Aug 04		Pilot mailout M4 EF/LA/RB	
Sept 04		Pilot reminders EF	

Table A1.2.6. Survey and Data Timeline

	Survey	Prep & Pilot	Data Management
Oct 04	Phone surveys, final tracking JB/LA/Part	Pilot track and data entry EF/CC/LA	
Nov 04		Pilot descriptives, missing data, revise M4, to data mtg, ethics E F / PWS/CL/AD	
Dec 04	Call for tenders O4 JB	Finalise survey, ethics PWS/CL	
Jan 05	Finalise tender for O4 JB/PWS		Prepare data dictionary for O4 AR/JF
Feb 05	Finalise mailing lists, Track, NDI JB/JP/EF/ LA/Part		M4 Data back from scanner
Mar 05	Mailout J B/LA/Part		Clean M4 data and calculate derived variables JB/EF
Apr 05	Reminders JB/LA/Part	Concepts and changes Y4 CL	Archive Y3 AR/JF
May 05	Reminders JB/LA/Part	Draft Y4 CL	
June 05	Phone, track, further mailouts JB/LA/Part	Planning mtg CL	
Jul 05		Finalise Y4 survey, ethics PWS/CL	Calculate weightings and produce data book AR/JF
Aug 05		Pilot mailout Y4 EF/LA/RB	
Sept 05		Pilot reminders EF	
Oct 05	Phone surveys, final tracking JB/LA/Part	Pilot track and data entry EF/Part/LA	
Nov 05		Pilot descriptives, missing data, revise Y4, to data mtg, ethics EF/PWS/CL/AD	
Dec 05	Call for tenders Y4 JB	Finalise survey, ethics PWS/CL	

Study report Survey Report Annual Report Changes Report Data Linkage Newsletter **Policy Report** (annual) (annual) (annual) (biennial) Report (annual at this (annual) (biennial) stage) July 03 Start Sept report List change **Report on what is** Write text, circulate Complete glossies variables already and submit to currently in and finalize CL defined. Decide preparation CL DoHA PWS/TN AY/JF which variables to define next. Finalise, layout, Aug 03 Decide on formats Layouts & quotes production for change TN/LA/CL/PWS CL/RB databook Sept 03 Submit Decide which Newsletter address Distribute glossies change variables to PWS/CL/LA Sept Report CL list and mailout **JB** Start Dec report CL Choose theme, write Oct 03 put in June 04 change databook text CL Finalise Dec report, Layout and design, and start producing Nov 03 definitions and data layout, production finalise text, tables CL/RB production, mailing list CL/TN/LA Dec 03 Submit Dec Report Submit report CL/LA CL Continue to work This is to be Jan 04 Feb 04 on changes scheduled in variables selected collaboration with Mar 04 Decide on formats for this Changes DoHA staff. and vars to go in Report - definitions June 05. AY/JF AD/CL/PWS and data tables. Apr 04 Start work on data May 04 Layout, design, ext, linkage material data dictionary, production

Table A1.2.7. Reports Timeline

	Study report (annual)	Survey Report (annual)	Annual Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)
June 04				Submit Changes Report 1	data books, descriptive materials. Also develop timetable for actual linkage process. Review progress in March, June, Sept and Dec of each year. AY/JF		
Jul 04				Decide which change variables to focus on over the biennial reporting cycle.		Write text, circulate and finalize CL	Keep making helpful suggestions – develop timeline when report has been defined – to be
Aug 04	Collate info from existing records,			Work steadily away on definitions and	Keep working on data linkage	Layouts and quotes TN/LA/CL/PWS	delivered some time this year
Sept 04	other reports, Investigator reports etc CL/RB			data tables for chosen change variables. Review progress in Sept,	material – data dictionary, data books, descriptive materials. Review	Newsletter address list and mailout JB	AD/PWS/CL
Oct 04	Draft report, write summaries CL		Choose theme, write text CL	Dec, March and June of each year.	progress in March, June, Sept and Dec of each year.		
Nov 04	Do budgets, Produce Report CL/PWS/RB	Prepare report, finalise text, update cut-and- paste material, layout, production AR/JF/CL	Layout and design, finalise text, production, mailing list CL/TN/LA		AY/JF		
Dec 04	Submit report CL	Submit report CL	Submit report CL/LA				
Jan 05				Keep working on			Keep making
Feb 05				definitions and data	Keep working on		helpful suggestions

	Study report (annual)	Survey Report (annual)	Annual Report (annual)	Changes Report (biennial)	Data Linkage Report (biennial)	Newsletter (annual at this stage)	Policy Report (annual)
Mar 05 Apr 05				tables for chosen change variables. Review progress in Sept, Dec, March and June of each year.	data linkage material – data dictionary, data books, descriptive materials. AY/JF		 develop timeline when report has been defined – to be delivered some time this year AD/PWS/CL
May 05					Layout and design, finalise text, production AY/JF/CL		
June 05					Submit Data Linkage Report 1 CL		
Jul 05					Decide what is to go into next	Write text, circulate and finalize CL	
Aug 05	Collate info from existing records, other reports,				biennial data linkage report AD/AY/JF	Layouts and quotes TN/LA/CL/PWS	
Sept 05	Investigator reports etc CL/RB				Begin working on data linkage	Newsletter address list and mailout JB	
Oct 05	Draft report, write summaries CL		Choose theme, write text CL		material AY/JF		
Nov 05	Do budgets, Produce Report CL/PWS/RB	Prepare report, finalise text, layout, production AR/JF/CL	Layout and design, finalise text, production CL/TN/LA				
Dec 05	Submit report CL	Submit report CL	Submit report CL/LA				

APPENDIX 2. RESEARCH SYNTHESIS "GLOSSY" BROCHURES

For copies of the research synthesis brochures please visit: <u>http://www.newcastle.edu.au/centre/wha/Reports/syntheses_reports.html</u>

APPENDIX 3. DERIVED CROSS-SECTIONAL AND TRANSITION VARIABLES

APPENDIX 3.1. SMOKING STATUS – YOUNGER AND MID-AGE COHORTS SURVEY 2

Derived Variable	Y2AIHWSmk
	M2AIHWSmk
Definition	Tobacco smoking status
Source Items	Y2q53, Y2q55
	M2q, M2q
Data Dictionary Index Number	[SMOK - To be allocated by the Data Manager]
Endorsed by Data Management Group	

Source Items- Survey 2 (Younger and Mid-age cohorts)

How often do you currently smoke cigarettes or any tobacco products? (*Mark one only*)

Code		Response
	–	

- 1 Daily
- 2 At least weekly (but not daily)
- 3 Less often than weekly
- 4 Not at all

In your lifetime, would you have smoked at least 100 cigarettes (or equivalent)? (Mark <u>one only</u>)

Code Response

- 1 Yes
- 2 No

Derived Variable

At the second ALSWH surveys of young and mid-age women, survey items concerning tobacco smoking (above) were revised in line with contemporary recommendations by the Australian Institute of Health and Welfare (AIHW)¹. These items were used to define categories for smoking status that were detailed in the National Health Data Dictionary² (see over).

AIHWSmk is derived for women completing the full and short versions of survey 2 in the younger cohort and women completing the full version only of survey 2 in the mid-age cohort.

Code AIHW Category

1 Never smoker

A person who does not smoke now and has smoked fewer than 100 cigarettes or similar amount of other tobacco products in his/her lifetime

- 2 Ex-smoker A person who does not smoke at all now, but has smoked at least 100 cigarettes or a similar amount of other tobacco products in his/her lifetime.
- 3 Irregular smoker A person who smokes less than weekly
- 4 Weekly smoker A person who smokes at least weekly but not daily
- 5 Daily smoker: A person who smokes daily

Note that AIHWSmk is similar to SmokSt with categories

Code Category

- 1 Never smoker
- 2 Ex-smoker
- 3 Current smoker smokes less than 10 cigarettes per day
- 4 Current smoker smokes 10-19 cigarettes per day
- 5 Current smoker smokes 20 or more cigarettes per day

The distribution of AIHWSmk in the second survey of young and mid-age women is shown in Table A3.1.1.

			Mid-age		
Code	Smoking status - AIHW	Number	Percent	Number	Percent
1	Never smoker		57.2	6 509	56.4
2	Ex-smoker	1 390	14.4	3 054	26.4
3	Irregular smoker	569	5.9	158	1.4
4	Weekly smoker	299	3.1	112	1.0
5	Daily smoker	1 873	19.4	1 712	14.8
	Total non-missing	9 640	100.0	11 545	100.0
9	Missing	45	0.5	103	0.9
	Total	9 685		11 648	

Table A3.1.2 shows how combinations of responses to the relevant survey items were allocated to each category for smoking status.

Table A3.1.2. Combinations of current smoking and lifetime consumption of at least
100 cigarettes and the number assigned to each category of AIHW smoking status at
survey 2

Smoking		Ever smoked		
status	Current smoking	100 cigarettes	Younger	Mid-age
Never smoker	Not at all	No	5 509	6 509
Ex-smoker	Not at all	Yes	1 390	3 054
Irregular smoker	Less often than	Yes	412	142
	Weekly	No	151	14
		Missing	6	2
Weekly smoker	At least weekly	Yes	274	104
	(but not daily)	No	21	3
		Missing	4	5
Daily smoker	Daily	Not applicable	1 797	1 119
		Missing	76	
		Yes		589
		No		4
Missing	Missing	Missing	25	82
		Yes	4	4
	Not at all	Missing	16	17

References

- 1. Standard Questions on the Use of Tobacco Among Adults (self- and interviewer administered versions) (1998) National Centres for Monitoring Cardiovascular Disease and Diabetes at Australian Institute of Health and Welfare
- 2. Australian Institute of Health and Welfare 2000. National Health Data Dictionary. Version 9. AIHW Catalogue no. HWI 24. Australian Institute of Health and Welfare

Anne Russell and Jean Ball prepared this document.

Derived Variables	y1AlcSt		y1AlcBng		
	y2AlcSt		y2AlcBng		
	m1AlcSt		m1AlcBng		
	m2AlcSt		m2AlcBng		
	o1AlcSt		o1AlcBng		
	o2AlcSt				
Definition	AlcSt: Alcohol quantity of alco		Imption, combining frequency and onsumed		
	AlcBng: Comb frequency	oines al	Icohol consumption and binge		
Source Items	Younger Surve	ey 1:	q35, q36 and q37		
	Younger Surve	ey 2:	q59, q60 and q61		
	Mid-age, Surv	ey 1:	q43, q44 and q45		
	Mid-age, Surv	ey 2:	q39, q40 and q41		
	Older Survey	1:	q31, q32 and 33		
	Older Survey 2:		q26 and q27		
Data Dictionary	AlcSt:	ALCS	8-007		
index Number	AlcBng:	ALCS			
Endorsed by Data Management Group	28 May 2003				

APPENDIX 3.2. ALCOHOL STATUS AND ALCOHOL BINGE STATUS

NOTE: AlcSt and AlcBng were included in SAS datasets for surveys 1 and 2 distributed before May 2003. In datasets distributed subsequently, these variables were replaced by AlcNHMRC (Index number ALCS-021) and AlcPatt (Index number ALCS-022) respectively. See Appendix 3.3.

Source Items **Frequency of alcohol consumption** How often do you usually drink alcohol?

Cohort:	Younger		Mid-age		Older	
Survey:	1	2	1	2	1	2
Question number:	35	59	43	39	31	26
Response			Coo	des		
I never drink alcohol	1	1	1	1	1	1
I drink rarely	2		2	2	2	2
Less than once a month		2				
Less than once a week	3	3	3	3	3	3
On 1 or 2 days a week	4	4	4	4	4	4
On 3 or 4 days a week	5	5	5	5	5	5
On 5 or 6 days a week	6	6	6	6	6	6
Every day	7	7	7	7	7	7

Quantity of alcohol consumed On a day when you drink alcohol, how many standard drinks do you usually have?

Cohort:	Younger	Mid-age			Older	
Survey:	1	2	1	2	1	2
Question number:	36	60	44	40	32	27
Response			Cod	es		
I don't drink alcohol						0
Non-drinker	5	0	5	0	5	
1 or 2 drinks per day	1	1	1	1	1	1
3 or 4 drinks per day	2	2	2	2	2	2
5 to 8 drinks per day	3	3	3	3	3	3
9 or more drinks per day	4	4	4	4	4	

Binge frequency

How often do you have five or more standard drinks of alcohol on one occasion?

Cohort	Younger		Mid-age		Older
Survey:	1	2	1	2	1
Question number:	37	61	45	41	33
Response			Co	des	
Never	1	1	1	1	1
Less than once a month	2	2	2	2	2
About once a month	3	3	3	3	3
About once a week	4	4	4	4	4
More than once a week	5	5	5	5	5
Non-drinker	6	0	6	0	6

Derived Variables

Alcohol status

Categories for alcohol consumption status were based on recommendations from the 1980 National Heart Foundation (NHF) Risk Factor Prevalence Study¹ (Table A3.2.1). A variable for alcohol consumption status (AlcSt) was derived from the frequency and quantity items. Table A3.2.2 shows how the NHF recommendations were implemented in the ALSWH data.

Table A3.2.1. Risks ass	sociated	with alc	ohol cor	nsumptio	on – NHF			
Quantity of alcohol consumed								
I don't		_				Мо		

Frequency of drinking alcohol	drink alcohol	-	3 or 4 drinks				than 20 drinks
I don't drink alcohol	Α						
Less than once a week		В	В	В	С	D	E
1 or 2 days		В	В	В	С	D	E
3 or 4 days		В	В	С	D	E	F
5 or 6 days		В	С	D	E	F	F
Every day		В	С	D	E	F	F

Legend

Risk category - FemalesAverage number of drinks

- A Non-drinker
- **B** Low risk drinker Average daily intake less than 3 drinks
- C Intermediate risk drinker Average daily intake of 4 or 9-12 drinks in any day
- D High risk drinker Average daily intake of 5 to 8 drinks or occasional excess
- E Very high risk drinker Average daily intake of 9 to 12 drinks or frequent or great occasional excess
- F Very high risk drinker Average daily intake over 12 drinks

	l don't				9 or		
Frequency of drinking alcohol	drink alcohol	1 or 2 drinks	3 or 4 drinks	5 to 8 drinks	more drinks	Missing	
I don't drink alcohol	1					1	
I rarely drink		2	2	2	2	2	
Less than once a week		3	3	4	5		
1 or 2 days		3	3	4	5		
3 or 4 days		3	3	4	5		
5 or 6 days		3	4	5	6		
Every day		3	4	5	6		
Missing	1	3				-	
Legend							
Non-drinker		4 Low risk drinker					
Rarely drinks		5 Intermediate risk drinker					

Table A3.2.2. Risks associated with alcohol consumption – ALSWH

Percentages of women from the three age cohorts in each category of AlcSt at Surveys 1 and 2 are shown in Table A3.2.3.

6 High risk drinker

Table A3.2.3. Percent in each category for alconol related health risk								
Cohort:	Younger		Mid-age		Older			
Survey:	1	2	1	2 ^a	1	2 ^a		
Number surveyed	14 779	9 685	14 099	11 648	12 940	9 501		
Number missing	165	65	142	101	518	266		
Percent missing	1.1	0.7	1.0	0.9	4.0	2.8		
Number classified	14 614	9 620	13 957	11 547	12 422	9 235		
Non-drinkers	9.0	9.1	15.3	13.4	35.1	34.6		
Rarely drink	34.5	29.0	31.4	28.7	29.1	27.0		
No risk drinkers	31.3	46.5	46.7	51.2	32.2	34.5		
Low risk drinkers	18.3	12.4	5.4	5.9	3.2	3.6		
Intermediate risk drinkers	6.9	3.1	1.0	0.9	0.4	0.3		
High risk drinkers	0.1	0.02	0.1	0.1	0.03	0.0		
	100.0	100.0	100.0	100.0	100.0	100.0		

Table A3.2.3. Percent in each category for alcohol related health risk

^a Full survey only

3 No risk drinker

Alcohol binge status

A summary variable (AlcBng) was derived as a composite of AlcSt and binge frequency (Table A3.2.4).

	Table A3.2.4. Categories for alcohol binge status derived from ALSWH alcohol
consumption and binge frequency	

	Binge frequency							
		Less than			More than			
	Never	once a month	Once a month	Once a	once a	Missing		
Alcohol status Non-drinkers	INEVEL	monun	monun	week	week	Missing 1		
Rarely drinks	1	1	1	1	5	1		
No risk drinker	2	2	3	3	5			
Low intake	2	2	3	3	5			
Intermediate risk drinkers	4	4	4	4	5			
High/very high risk drinkers	4	4	4	4	5			
Missing					5			

Legend

1 Non/rare drinker

- 4 Intermediate/high risk
- 5 Very high risk binge
- 2 Low risk drinker, without binge3 Low risk drinker, with binge

Women from the older age cohort were not asked about binge drinking at survey 2. Values for AlcBng were derived for the mid-age and younger cohorts at surveys 1 and 2 and older women at survey 1 (Table A3.2.5).

Cohort:	Younger				Older				
Survey:	1	2	1	2 ^a	1				
Number surveyed	14 779	9 685	14 099	11 648	12 940				
Number missing	182	74	162	138	543				
Percent missing	1.2	0.9	1.2	1.2	4.2				
Number classified	14 597	9 611	13 937	11 510	12 422				
Non/rare drinker	43.5	38.1	46.8	42.1	64.3				
Low risk without binge	20.5	29.7	39.5	43.2	32.0				
Low risk with binge	27.8	27.8	11.7	13.0	3.0				
Intermediate/high risk	5.7	2.6	0.3	0.3	0.2				
Very high risk binge	2.6	1.8	1.7	1.5	0.6				
	100.0	100.0	100.1	100.0	100.1				

Table A3.2.5. Percent in each category for pattern of alcohol consumption including binge drinking

^a Full survey only

Reference

1. National Heart Foundation Risk Factor Prevalence Study: Report No. 1-1980

Anne Russell and Jean Ball prepared this document.

APPENDIX 3.3. ALCOHOL INTAKE AND PATTERN OF ALCOHOL CONSUMPTION

Derived Variables	y1AlcNHMRC	y1AlcPatt
	y2AlcNHMRC	y2AlcPatt
	m1AlcNHMRC	m1AlcPatt
	m2AlcNHMRC	m2AlcPatt
	o1AlcNHMRC	o1AlcPatt
	o2AlcNHMRC	
Definition	AlcNHMRC: Alcoho quantity of alcohol c	l consumption, combining frequency and consumed
	AlcPatt: Combines a frequency	alcohol consumption and binge
Source Items	Younger Survey 1:	q35, q36 and q37
	Younger Survey 2:	q59, q60 and q61
	Mid-age, Survey 1:	q43, q44 and q45
	Mid-age, Survey 2:	q39, q40 and q41
	Older Survey 1:	q31, q32 and q33
	Older Survey 2:	q26 and q27
Data Dictionary	AICNHMRC: ALCS	5-021
index Number	AlcPatt: ALCS	5-022
Endorsed by Data Management Group	28 May 2003	

NOTE: AlcSt (Index number ALCS-007) and AlcBng (Index number ALCS-008) were the measures of alcohol consumption included in SAS datasets for surveys 1 and 2 that were distributed before May 2003. AlcNHMRC and AlcPatt have replaced these two variables respectively.

Source Items

Frequency of alcohol consumption How often do you usually drink alcohol?

Cohort:	Younger		Mid-age		Older	
Survey:	1	2	1	2	1	2
Question number:	35	59	43	39	31	26
Response			Coo	les		
I never drink alcohol	1	1	1	1	1	1
I drink rarely	2		2	2	2	2
Less than once a month		2				
Less than once a week	3	3	3	3	3	3
On 1 or 2 days a week	4	4	4	4	4	4
On 3 or 4 days a week	5	5	5	5	5	5
On 5 or 6 days a week	6	6	6	6	6	6
Every day	7	7	7	7	7	7

Quantity of alcohol consumed

On a day when you drink alcohol, how many standard drinks do you usually have?

Cohort:	Younger	unger Mid-age				
Survey:	1	2	1	2	1	2
Question number:	36	60	44	40	32	27
Response			Cod	es		
I don't drink alcohol						0
Non-drinker	5	0	5	0	5	
1 or 2 drinks per day	1	1	1	1	1	1
3 or 4 drinks per day	2	2	2	2	2	2
5 to 8 drinks per day	3	3	3	3	3	3
9 or more drinks per day	4	4	4	4	4	

Binge frequency How often do you have five or more standard drinks of alcohol on one occasion?

Cohort:	Younger		Mid-age		Older
Survey:	1	2	1	2	1
Question number:	37	61	45	41	33
Response			Codes		
Never	1	1	1	1	1
Less than once a month	2	2	2	2	2
About once a month	3	3	3	3	3
About once a week	4	4	4	4	4
More than once a week	5	5	5	5	5
Non-drinker	6	0	6	0	6

Derived Variables

Alcohol Intake

The ALSWH originally based its definition of risk associated with alcohol intake on National Heart Foundation criteria¹. Subsequently, the definition has been revised in light of National Health and Medical Research Council (NHMRC) guidelines². The 3 categories of risk endorsed currently are: 'Low risk' (Up to14 drinks per week), 'Risky' (15 to 28 drinks per week) and 'High risk' (More than 28 drinks per week).

Based on NHMRC guidelines, a variable for alcohol consumption status (AlcNHMRC) was derived from the frequency and quantity items. The ALSWH has defined 4 categories of risk. The NHMRC definitions for 'Risky' and 'High risk' drinking are adopted in full. For women defined as 'Low risk' by NHRMC, the ALSWH have separately defined as 'Rarely drinks' those who drink only rarely, leaving the remainder of this group to be classified as 'Low risk'. A fifth category for 'non-drinkers' was added. Table A3.3.1 shows how the NHMRC guidelines were implemented in the ALSWH data.

Table A3.3.1. Risk of harm in the longer term associated with alcohol consumption –
using NRMRC guidelines

	Quantity of alcohol consumed							
	l don't				9 or			
Frequency of	drink	1 or 2	3 or 4	5 to 8	more	Missing		
drinking alcohol	alcohol	drinks	drinks	drinks	drinks			
I don't drink alcohol	2					2		
I rarely drink		3	3	3	3	3		
Less than once a week		1	1	1	1			
1 or 2 days		1	1	1	4			
3 or 4 days		1	1	4	5			
5 or 6 days		1	4	5	5			
Every day		1	4	5	5			
Missing	2	1		-				

Risk	category
------	----------

1 Low Risk

2 Non-drinker

3 Rarely drinks

4 Risky

5 High risk

Average number of drinks per week (per day)

Up to14 drinks per week (Up to 2 drinks per day)

Up to14 drinks per week (Up to 2 drinks per day) 15 to 28 drinks per week (3 to 4 drinks per day) More than 28 drinks per week (5 or more drinks per

dav)

Note that published research from the ALSWH³ used a similar variable, based on earlier NHMRC recommendations⁴. The categories for risk used were: 'Rarely drinks', 'Low intake', 'Hazardous intake' and 'Harmful intake' and these correspond to 'Rarely drinks', 'Low risk', 'Risky' and 'High risk' respectively.

Percentages of women from the three age cohorts in each category of AlcNHMRC at Surveys 1 and 2 are shown in Table A3.3.2.

Table A3.3.2. Percent in each category for alconol related health risk									
Cohort:	Younger		Mid-age		Older				
Survey:	1	2	1	2 ^a	1	2 ^a			
Number surveyed	14 779	9 685	14 099	11 648	12 940	9 501			
Number missing	165	65	142	101	518	266			
Percent missing	1.1	0.7	1.0	0.9	4.0	2.8			
Number classified	14 614	9 620	13 957	11 547	12 422	9 235			
Low risk	50.9	58.2	47.9	52.4	32.4	34.5			
Non-drinkers	9.0	9.1	15.3	13.4	35.1	34.6			
Rarely drinks	34.5	29.0	31.4	28.7	29.1	27.0			
Risky	4.9	3.5	4.4	4.8	3.1	3.6			
High risk	0.7	0.3	0.9	0.8	0.4	0.3			
	100.0	100.0	100.0	100.0	100.0	100.0			

Table A3.3.2. Percent in each category for alcohol related health risk

^a Full survey only

Pattern of Alcohol Consumption

A composite variable was derived which describes the pattern of alcohol consumption (AlcPatt). The purpose of the variable AlcPatt is to reflect NHMRC risk categories and to separately identify among low risk drinkers and those who rarely drink a pattern of regular binge drinking (defined as having 5 or more drinks about once per week or more) or not. The following categories were defined

Code Category

Definition

- Low risk drinker, binges less than weekly
 Non-drinker
 Usually drinks rarely or at low risk levels with no bingeing or binge drinking monthly or less
 Non-drinker
- 3 Low risk drinker, binge drinks Usually drinks rarely or at low risk levels and weekly binge drinks weekly or more
- **4** Risky or high risk drinking Hazardous/harmful level of drinking, regardless of bingeing behaviour

Inconsistencies in data on binge frequency

Inconsistencies were found between responses to the binge frequency item and an estimate of *usual* binge frequency, based on alcohol frequency and quantity items. Information from both these sources was used to identify regular binge drinking.

Usual binge drinking was defined as 'weekly or more' if usual consumption frequency is one or more days each week <u>and</u> usual quantity consumed of 5 or more drinks. Reported binge frequencies of 'about once a week' and 'more than once a week' were categorised as 'weekly or more'.

Women who 'drink rarely' or are defined as 'low risk' based on NHMRC recommendations were assigned to categories in relation to binge drinking using the following criteria:

Low risk drinker, binges less than weekly

- Usually drinks rarely or at low risk levels AND
- reported binge frequency is not weekly or more AND
- usual binge frequency is *not* weekly or more

OR

- Usually drinks rarely AND
- · does not report the quantity of alcohol usually consumed AND
- reported binge frequency is *not* weekly or more

Low risk drinker, binge drinks weekly

- Usually drinks rarely or at low risk levels AND
- usual binge frequency is weekly or more

OR

- Usually drinks rarely or at low risk levels AND
- reported binge frequency is weekly or more

Women from the older age cohort were not asked about binge drinking at Survey 2. Values for AlcBng and AlcPatt were derived for the mid-age and younger cohorts at Surveys 1 and 2 and older women at Survey 1 (Table A3.3.3). Table A3.3.4 compares ALSWH and NHMRC categories of risk.

Cohort:	Younger		Mid-age	Older	
Survey:	1	2	1	2 ^a	1
Number surveyed	14 779	9 685	14 099	11 648	12 940
Number missing	281	148	248	137	847
Percent missing	1.9	1.5	1.8	1.2	6.6
Number classified	14 498	9 537	13 851	11 511	12 093
Low risk drinker, binges less than weekly	70.9	75.2	75.9	77.8	59.6
Non drinker	9.1	9.1	15.5	13.4	36.0
Low risk drinker, binge drink weekly	14.4	11.9	3.4	3.2	0.9
Risky/high risk drinker	5.6	3.8	5.3	5.6	3.6
	100.0	100.0	100.1	100.0	100.1

Table A3.3.3. Percent in each category for pattern of alcohol consumption

^a Full survey only

		Drinks per week:		
Quantity Item	Frequency Item	Minimum to Maximum ^a	Categories for risk: ALSWH ^b	Categories for risk: NHMRC ³
	Non-drinker		Non-drinker	Non-drinker
Any	Rarely drinks		Rarely drinks	Rarely drinks
1-2 drinks	Any	1 to14	No risk	Low risk
3-4 drinks	Less than once week	3 to 4	No risk	Low risk
	1-2 days	3 to 8		
	3-4 days	9 to 16		
3-4 drinks	5-6 days	15 to 24	Low risk	Risky
	Every day	21 to 28		
5-8 drinks	Less than once week	5 to 8	Low risk	Low risk
	1-2 days	5 to 16		
5-8 drinks	3-4 days	15 to 32	Low risk	Risky
5-8 drinks	5-6 days	25 to 48	Intermediate risk	High risk
	Every day	35 to 56		
9+ drinks	Less than once week	About 10	Intermediate risk	Low risk
9+ drinks	1-2 days	10 to-20	Intermediate risk	Risky
9+ drinks	3-4 days	30 to 40	Intermediate risk	High risk
9+ drinks	5-6 days	50 to 70	High risk	High risk
	Every day	70 or more		

Table A3.3.4. Survey items for quantity and frequency of alcohol consumption, estimated number of drinks per week and categories for risk, ALSWH and NRMRC

^a Minimum=Minimum frequency * Minimum quantity; Maximum=Maximum frequency * Maximum quantity

^b ^{Only i}ncluded in datasets for Surveys 1 and 2 distributed prior to April 2003.

References

- 1. National Heart Foundation Risk Factor Prevalence Study: Report No. 1-1980
- 2. Australian Alcohol Guidelines: Health Risks and Benefits. Endorsed October 2002. National Health and Medical Research Council.
- 3. Jonas HA, Dobson AJ & Brown WJ. Patterns of alcohol consumption in young Australian women: associations with socio-demographic factors, lifestyle, health practices and physical health. *Australian and New Zealand Journal of Public Health*, 2000; 24(2): 185-191.
- 4. Pols RG, Hawks DV. Is there a safe level of daily consumption of alcohol for men and women? Canberra. Australian Government Publishing Service, 1992.

Anne Russell and Jean Ball prepared this document.

APPENDIX 3.4. MID-AGE SURVEY 1 REVISED EXERCISE STATUS VARIABLE

Derived Variable	m1revexstat m1revpagp
Definition	mid 1 revised exercises status mid 1 revised physical activity
Source Items	m1q63 m1q64
Data Dictionary INDEX NUMBER	To be allocated by data manager
Endorsed by Data Management Group	

Source Items - Survey 1

63 In a NORMAL week, how many times do you engage in VIGOROUS exercise lasting for 20 minutes or more? (Exercise which makes you breath harder or puff and pant such as netball, squash, jogging, aerobics, vigorous swimming, etc.) (*Circle one number only*) CODE RESPONSE

- 1 Never
- 2 Once a Week
- 3 Two or three times a week
- 4 Four, five or six times a week
- 5 Once every day
- 6 More than once every day

64 In a NORMAL week, how many times do you engage in LESS VIGOROUS exercise which lasts for 20 minutes or more? (Exercise which does not make you breathe harder or puff and pant, like walking, gardening, swimming and lawn bowls) (*Circle one number only*)

• <i>y</i> /	
CODE	RESPONSE
1	Never
2	Once a Week
3	Two or three times a week
4	Four, five or six times a week
5	Once every day
6	More than once every day

Derived Variable

In order to obtain a combined score of Physical Activity (PA), to best represent long-term PA levels of individual women as accurately as possible, the PA measure at Survey 1 needs to be more comparable with those used in Survey 2 and Survey 3. This is difficult, because we do not have a measure of duration for the Survey 1 PA measure. This is nonetheless an

attempt to revise the Survey 1 PA measure to try to make it more comparable with the Survey 2 and Survey 3 PA measures.

Original physical activity score - Survey 1 (*m1exstat*)

In survey one PA was measured using questions from the 1980-89 NHF risk factor prevalence studies (2). Responses to these two questions were used to derive *m1exstat*. Response codes 1 to 6 in question 63 and 64 were weighted 0, 1, 2.5, 5, 7, and 10 respectively. Weighted responses for vigorous exercise were multiplied by 5 and for less vigorous exercise by 3; *m1exstat* was derived as the sum of those two products.

The resulting PA scores were categorised as none (<5), low (5-<15), moderate (15-<25), or high (\geq 25), where a score of 15 is equivalent to the US national PA guidelines in 1996 (1) of 5 bouts of moderate activity per week, or 3 bouts of vigorous activity, or any combination of the two (3).

Revised physical activity score – Survey 1 (m1revexstat)

Responses to questions 63 and 64 were used to derive *m1revexstat*, a revised exercise score for survey one. Coded responses 1 to 6 in guestion 63 and 64 were weighted 0, 1, 2.5, 5, 7, and 10 respectively. These weighted values were assigned, based on the midpoint of the frequency of exercise per week. All weighted responses were multiplied by 20 minutes, as this was the minimum time needed to correctly record a response. Responses for vigorous exercise were then multiplied by 7.5 and by 4 for less vigorous activity; *m1revexstat* was derived as the sum of these two products.

The resulting physical activity scores were categorized as none (<80), low (80 to <400), moderate (400 to <560) and high (>= 560), where a score of 400 is equivalent to the current national PA guidelines of 5 bouts of less vigorous (moderate) activity per week.

It is important to note that, while this measure can be regarded as a METS.mins measure (similar to those used in Survey 2 and Survey 3), the cut points for the categories are different from those used in Survey 2 and Survey 3 because we have assumed each reported activity session is only 20 minutes in duration. In reality, it is likely that mean session duration is at least 30 minutes, as many women walk or play sport in blocks of 30 minutes or one hour. Since we do not have information on duration at Survey 1, we have chosen to use the 20 minute value for duration in working out the METSmins cut points.

Category	Definition	
None	Exercise status <80	A score of 80 is equivalent to 1 * 20 minute session (20 minutes) of exercise per week, at a less vigorous intensity (4 MET).
Low	80 <= exercise status <400	A score of 400 is equivalent to 5 * 20 minute sessions (100 minutes) of less vigorous intensity (4 MET).
Moderate	400 <= exercise status <560	A score of 560 is equivalent to 7 * 20 minute sessions (140 minutes) of exercise at a less vigorous intensity (4 MET).
High	Exercise status >= 560	<u> </u>

Tab	le A3.4.1. Definitio	ns and categories	for revised	exercise s	tatus mid 1
Catagory	Definition				

Because a duration of 20 minutes is assumed for Survey 1, this score of 400 METmins at Survey 1 (based on 5 sessions) is considered equivalent to a score of 600 METmins at Surveys 2 and 3 (i.e. 5*30 minutes = 150mins*4 METs = 600 METmins). In both cases this is equivalent to the 'five' sessions recommended in the US Surgeon General's report (1).

The number and percent of women in each of the new Survey 1 PA categories are shown in Table A3.5.2, with comparison against the percentage of women in each PA category in the original Survey 1 measure. Table A3.5.3 shows the percentage in each category (using the new Survey 1 PA categories) at each survey.

Code	Revised physical activity status survey one	Number	Percent	Percent in original pa category
1	None	1777	12.7	27.7
2	Low	6370	45.6	30.6
3	Moderate	1880	13.5	25.4
4	High	3955	28.3	16.4
	Total Classified	13982	100.0	100.0
	Missing	117	0.8	0.8
	Total	14099		

Table A3.4.2. Number and percent in revised survey 1 measure, compared with original PA measure and percentages at Survey 1.

Table A3.4.3. Percent in each physical activity category and survey 1, 2 and 3

Code	PA categories survey 1, 2 & 3	Survey 1	Survey 2	Survey 3
1	None	12.7	18.2	18.7
2	Low	45.6	30.7	36.5
3	Moderate	13.5	22.1	20.3
4	High	28.3	28.9	24.5
	Total Classified	100.0	99.9	100.0
	Missing	0.8	3.8	4.9
	Total Number of Women	14099	11648	11196

REFERENCES:

- 1. U.S. Department of Health and Human Services. (1996). *Physical activity and health: A report of the Surgeon General.* Washington, DC.
- 2. Risk Factor Prevalence Study Management Committee. (1990). *Risk factor prevalence study 3, 1989.* Canberra, Australia: National Health Foundation of Australia and Australian Institute of Health.
- Brown WJ, Mishra G, Lee C, Bauman A. (2000). Leisure Time Physical Activity in Australian Women: Relationship With Well Being and Symptoms. Research Quarterly for Exercise and Sport. 71 (3): 206-216.

This report prepared by Jess Ford

APPENDIX 3.5. MID-AGE CUMULATIVE EXERCISE STATUS VARIABLE

Derived Variable	mid12exstat mid123exstat mid12pagp mid123pagp mid12pagp5 mid123pagp5
Definition	Cumulative exercise status from mid survey 1 & 2 Cumulative exercise status from mid survey 1, 2 & 3
	Cumulative physical activity from mid survey 1 & 2 Cumulative physical activity from mid survey 1, 2 & 3
	Cumulative physical activity from mid survey 1 & 2 in five categories Cumulative physical activity from mid survey 1,2 & 3 in five categories
Source Items	m1revexstat m2exstat m3exstat
Data Dictionary INDEX NUMBER	To be allocated by data manager
Endorsed by Data Management Group	

Source Items - Surveys 1, 2 & 3

Source Items Survey 1 - M1revexstat Survey 2 - M2exstat Survey 3 - M3exstat

Derived Variable

A combined score of physical activity was calculated to represent long-term physical activity (PA) levels of individual women as accurately as possible.

The scores were calculated as a sum of the exercise status scores from the relevant surveys. Mid12exstat is the sum of m1revexstat and m2exstat; mid123exstat is the sum of m1revexstat, m2exstat, and m3exstat.

Only those who completed the full survey version of Survey 2 and Survey 3 could be included in the cumulative variables.

This method is based on published studies (1,2,3,4,5) using unweighted totals to estimate the cumulative average of MET scores to best represent long-term PA levels. (A MET, metabolic equivalent, is defined as the rate of energy expenditure from a given PA. 1MET is equivalent to resting metabolic rate or sitting quietly; 4 METs is used as the generic MET value for moderate activity and 7.5 METs is used as the generic MET value for vigorous activity.

The cumulative exercise scores were then categorized into the four PA groups (none, low, moderate and high) based on the sum of the cut points used for the PA groups for surveys 1,2 and 3 (Table A3.6.1).

PA	INDIVIDUAL SCORES			CUMULATIVE SCORES	
	Survey 1	Survey 2	Survey 3	Survey 1,2	Survey 1,2,3
None Low Mod High	<80 <400 <560 >=560	<50 <600 <1200 >=1200	<50 <600 <1200 >=1200	<130 <1000 <1760 >=1760	<180 <1600 <2960 >=2960

Table A3.5.1. Cut points for physical activity scores for survey 1,2 and 3 and for				
cumulative physical activity scores				

Tables A3.6.2 and A3.6.3 show the number and percent of women in each category.

Table A3.5.2. Number and percent in each physical activity category for cumulative score, Surveys 1 and 2. (Includes those women who responded to Survey 1 and the full version of Survey 2)

Code	Cumulative physical activity status survey	1 & 2	Number	Percent
1	None		1096	9.8
2	Low		4486	40.2
3	Moderate		2535	22.7
4	High		3034	27.2
	Total Classified		11151	99.9
	N	lissing	497	4.5
	Total		11648	

Table A3.5.3. Number and percent in each physical activity category for cumulative score, Surveys 1, 2 and 3. (Includes those women who responded to Survey 1 and the full versions of Surveys 2 and 3)

Code	Cumulative physical activity status survey	1,2 & 3	Number	Percent
1	None		560	5.8
2	Low		3934	41.1
3	Moderate		2518	26.3
4	High		2563	26.8
	Total Classified		9575	100.0
	N	lissing	825	8.6
	Total		10400	

Having categorized the cumulative scores into four groups, it was apparent that a large proportion of the women was included in the Low PA category (~40%). To overcome this, it was decided to further divide this group. The Low group included all responses for physical activity from ~10minutes to 2 1/2 hours. This category was divided into those who exercised for ~10minutes to 1 hour, and those who reported 1-2 ½ hours of moderate intensity activity.

The cut points from Surveys 1, 2 and 3 were calculated and then the cumulative scores were derived as the sum of the relevant cut points.

Tab	Table A3.5.4. Reasoning for Survey 1 physical activity cut points							
Frequency of activity	Score	Assumed minutes S1	METmins (x4)	Categories	Ranges			
Never	0	0	0	None	<80			
Once	1	20	80	Very Low	80-<200			
2-3	2.5	50	200	Low	200-<400			
4-5-6	5	100	400	Mod	400-<560			
7	7	140	560	High	≥560			
>7	10	200	800					

Table A3.5.5. Reasoning for Survey 2 and Survey 3 physical activity cut points							
Frequency of activity	Duration	Approx METmins	Categories	Ranges			
Never	12 Minutes or less	<50	None	<50			
Once	One hour	240	Very Low	50-<240			
2-3-4	150 minutes	600	Low	240-<600			
5-10	300 minutes or one hour a day (6 days)	1200	Mod	600-<1200			
>10	More than one hour a day	>1200	High	≥1200			

Table A3.5.6. Cut points for physical activity scores for Surveys 1, 2 and 3 and for cumulative physical activity scores

PA	INDIVIDUAL S	CORES	CUMULATIVE SCORES			
	Survey 1	Survey 2	Survey 3	Survey 1,2	Survey 1,2, 3	
None	<80	<50	<50	<130	<180	
Very Low	<200	<240	<240	<440	<680	
Low	<400	<600	<600	<1000	<1600	
Mod	<560	<1200	<1200	<1760	<2960	
High	>=560	>=1200	>=1200	>=1760	>=2960	

Code	Cumulative physical activity status survey 1& 2	Number	Percent				
1	None	1096	9.8				
2	Very Low	1557	14.0				
3	Low	2929	26.3				
4	Moderate	2535	22.7				
5	High	3034	27.2				
	Total Classified	11151	100.0				
	Missing	497	4.5				
	Total	11648					

Table A3.5.7. Number and percent in each of the five physical activity categories for cumulative score, Surveys 1 and 2. (Includes those women who responded to Survey 1 and the full version of Survey 2)

Table A3.5.8. Number and percent in each of the five physical activity categories for cumulative score, Surveys 1, 2 and 3 (Includes those women who responded to

	Survey 1 and the full versions of Surveys 2 and 3)							
Code	Cumulative physical activity status survey 1,2 & 3	Number	Percent					
1	None	560	5.8					
2	Very Low	1388	14.5					
3	Low	2546	26.6					
4	Moderate	2518	26.3					
5	High	2563	26.8					
	Total Classified	9575	100.0					
	Missing	825	8.6					
	Total	10400						

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- 3. Hu FB, Stampfer MJ, Colditz GA, AScherio A, Rexrode KM, Willett WC. Physical activity and risk of stroke in women. 2000 June 14; 283(22): 2961-7
- 4. Rockhill B, Wilett WC, Manson JE, Leitzmann MF, Stampfer MJ etal. Physical activity and mortality: a prospective study among women. American Journal of Public Health. 2001 April; 91(4): 578-83
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APPENDIX 3.6. TRANSITION IN ALCOHOL CONSUMPTION – YOUNGER COHORT, SURVEYS 1 & 2

Derived Variable	YT12AlcNMHRC			
Definition	Transition in alcohol consumption between surveys 1 & 2			
Source Items	Derived variables y1AlcNMHRC & y2AlcNMHRC			
Data Dictionary Index Number	ALCS To be allocated by the Data Manager			
Endorsed by Data Management Group	28 May 2003			

Source Items

Alcohol consumption was defined in the same way at Surveys 1 and 2 and was based on categories of estimated risk (1).

Code Risk category

- 1 Non-drinker
- 2 Rarely drinks
- **3** Low risk drinker (Up to14 drinks per week; up to 2 drinks per day)
- 4 Risky drinker (15 to 28 drinks per week; 3 to 4 drinks per day)
- 5 High risk drinker (More than 28 drinks per week; 5 or more drinks per day)

Categories of 'risky' and 'high risk' drinking were aggregated for the purposes of transition.

Derived Variable

Transition in alcohol consumption was derived for women from the younger cohort completing Survey 1 and either the full or the abbreviated version of Survey 2 and for women from the mid-age and older cohorts completing Survey 1 and the full version of Survey 2. Categories for transition were based on a cross-tabulation of alcohol consumption at both surveys (Table A3.7.1) and are shown in Table A3.7.2.

Reference:

1. Australian Alcohol Guidelines: Health Risks and Benefits. Endorsed October 2002. National Health and Medical Research Council.

Anne Russell prepared this document

				Survey 2			
Survey 1	Non- drinker	Rarely drinks	Low risk drinker	Risky drinker	High risk drinker	Missin g	Total
		Younger Cohort					
Non-drinker	432	249	108	5	0	3	797
Rarely drinks	309	1 507	1 406	36	4	19	3 281
Low risk drinker	97	919	3 727	203	12	33	4 991
Risky drinker	13	83	276	72	6	7	457
High risk drinker	5	8	27	17	3	1	61
Missing	15	22	54	5	0	2	98
Total	871	2 788	5 598	338	25	65	9 685
			Mie	d-age Coh	ort		
Non-drinker	1 233	400	42	1	1	19	1 696
Rarely drinks	231	2 389	933	3	1	29	3 586
Low risk drinker	29	491	4 885	215	15	41	5 676
Risky drinker	3	4	158	305	33	1	504
High risk drinker	2	1	16	25	45	2	91
Missing	44	23	18	1	0	9	95
Total	1 542	3 308	6 052	550	95	101	11 648
			0	lder Coho	rt		
Non-drinker	2 529	361	70	1	0	77	3 038
Rarely drinks	402	1 554	598	6	0	112	2 672
Low risk drinker	62	504	2 406	124	6	65	3 167
Risky drinker	4	7	80	178	8	2	279
High risk drinker	1	0	2	17	10	1	31
Missing	200	69	34	2	0	9	314
Total	3 198	2 495	3 190	328	24	266	9501

 Table A3.6.1. Cross-tabulation of alcohol consumption at Surveys 1 and 2

	Transition in Alcohol	Younger		Mid-age		Older	
Code	Consumption	Number	Percent	Number	Percent	Number	Percent
	No Change						
1	Low risk drinker	3 727	39.1	4 885	42.6	2 406	26.9
2	Non-drinker	432	4.5	1 233	10.8	2 529	28.3
3	Rarely drinks	1 507	15.8	2 389	20.8	1 554	17.4
4	Risky or high risk drinker	98	1.0	408	3.6	213	2.4
	Decreased Consumption						
5	Rarely drinks to Non-drinker	309	3.2	231	2.0	402	4.5
6	Low risk drinker to Non-drinker/Rarely drinks	1 016	10.7	520	4.5	566	6.3
7	Risky or high risk drinker to Non- drinker/rarely drinks	109	1.1	10	0.1	12	0.1
8	Risky or high risk drinker to Low risk drinker <i>Increased Consumption</i>	303	3.2	174	1.5	82	0.9
9	Non-drinker to Rarely drinks/Low risk drinker	357	3.8	442	3.9	431	4.8
10	Rarely drinks to Low risk drinker	1 406	14.8	933	8.1	598	6.7
11	Non-drinker/Rarely drinks/ Low risk drinker to Risky or high risk drinker	260	2.7	236	2.1	137	1.5
	Total non-missing	9 524	99.9	11 461	99.9	8 930	99.8
99	Missing	161	1.7	187	1.6	571	6.0
	Total surveyed	9 685		11 648		9 501	

Table A3.6.2. Transition in Alcohol Consumption between Surveys 1 and 2



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