



Older People's Wellbeing Monitor for Wales: Evidence Review

**Report prepared on behalf of the Office of the Chief Social Research
Officer, Welsh Assembly Government**

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May 2009

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Older People's Wellbeing Monitor for Wales: Evidence Review

1. BACKGROUND

The Office of the Chief Social Research Officer (OCSRO), Welsh Assembly Government commissioned the Support Unit for Research Evidence (SURE), Cardiff University, to undertake an evidence review to support the development of an Older People's Wellbeing Monitor for Wales. The Monitor will summarise the latest research on health and wellbeing indicators and is a companion to the Children and Young People's Wellbeing Monitor for Wales¹.

Project Objectives

The objectives of the evidence review are to:

- Develop a search strategy.
- Conduct a rigorous and comprehensive literature search.
- Review the literature identified:
 - complete data audit forms for each study, extracting the characteristics and results, and assessing quality;
 - provide the completed data audit forms in a final report to OCSRO.

2. METHODS

2.1 Search strategy

A comprehensive literature search across all topic areas was conducted in February 2009. Previous research has shown that a wide range of databases should be searched to obtain good sensitivity for topics relating to the health of the public^{2,3}. Additional 'snowballing' techniques⁴ were also employed to improve sensitivity, such as following up reference lists and contacting experts in the field. It was also anticipated that there was likely to be rich data from a wealth of grey literature reports produced by governmental and non-governmental organisations and charities. These were sought through searching grey literature databases, key websites and contacting experts.

Information Sources

The range of information sources used for the evidence review are listed below:

Databases

General Health/Biomedical

1. British Nursing Index
2. CINAHL (Cumulative Index to Nursing and Allied Health Literature)
3. Science Citation Index
4. Medline
5. Medline in Process

¹ Welsh Assembly Government. 2008 Children and Young People's Well-being Monitor for Wales http://wales.gov.uk/docrepos/40382/40382313/293077/1266940/2765056/Monitor_Eng.pdf?lang=en

² Weaver N, Williams JL, Weightman AL et al. Taking STOX: developing a cross disciplinary methodology for systematic reviews of research on the built environment and the health of the public. *Journal of Epidemiology and Community Health* 2002;56:48-55

³ Various unpublished 'snowballing' studies in collaboration with the Centre for Public Health Excellence at the National Institute for Health & Clinical Excellence (NICE).

⁴ Greenhalgh T, Peacock R. Effectiveness and efficiency of search methods in systematic reviews of complex evidence: audit of primary sources. *BMJ* 2005; 331: 1064-1065

6. Embase

Social Care and Social Sciences

7. ASSIA (Applied Social Sciences Index and Abstracts)
8. Community Wise
9. Social Science Citation Index
10. Social Care Online
11. Social Services Abstracts
12. Sociological Abstracts

Specialist

13. Age Line - Literature relating to ageing and the 50+ population
14. ABI Inform - Literature regarding business and workplaces
15. PsycINFO – Psychological literature

Grey Literature

16. Health Management Information Consortium (HMIC) - records relating to health and social care management information. Coverage includes official publications, journal articles and grey literature.
17. SiGLE - System for Information on Grey Literature in Europe

Additional Information Sources

Websites

Age Concern www.ageconcern.org.uk/
Age Alliance Wales www.agealliancewales.org.uk
British Geriatrics Society www.bgs.org.uk/
British Society of Gerodontology www.gerodontology.com/
Care and Repair www.careandrepair-england.org.uk/
Care Council for Wales www.ccwales.org.uk/
Data Unit Wales <http://www.dataunitwales.gov.uk/>
HOWIS www.wales.nhs.uk/
International Federation on Ageing www.ifa-fiv.org/
Help the Aged www.helptheaged.org.uk/
Joseph Rowntree Foundation <http://www.jrf.org.uk/>
National Public Health Service for Wales www.wales.nhs.uk/sites3/home.cfm?orgid=719
Office for National Statistics (ONS) www.statistics.gov.uk/
Older People & Ageing Research & Development Network (OPAN Cymru) www.opanwales.org.uk/
Prime Cymru www.prime-cymru.co.uk/
Wales Centre for Health www.wales.nhs.uk/sites3/home.cfm?OrgID=568
Welsh Assembly Government wales.gov.uk
Department of Health (including the Department for Work and Pensions) www.dh.gov.uk/
Scottish Executive www.scotland.gov.uk/Home
Wales Centre for Intergenerational Practice www.ccip.org.uk/
World Health Organization www.who.int/
WHO Health Evidence Network www.euro.who.int/HEN

Citation Tracking and Experts

Bibliographies of key texts were checked for further potentially relevant papers. Key experts were also consulted through online discussion groups below to identify further potential published, unpublished or ongoing studies:

Health Equity Network www.jiscmail.ac.uk/

Evidence Based Health www.jiscmail.ac.uk/lists/EVIDENCE-BASED-HEALTH.html

Health Services Research www.jiscmail.ac.uk/cgi-bin/webadmin?A0=HEALTH-SERVICES-RESEARCH

Advice and Support in Qualitative evidence Synthesis

<https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=asqus>

Database Search Terms

The search strategy was designed to identify papers relating to the Monitors' proposed chapter headings and themes, which are based on the Strategy for Older People's nine indicators of change⁵ and the UN Principles⁶. See appendix 1 for the full list of chapter headings.

The search strategy was developed in Medline, and then refined by consulting OCSRO and the Older People's Wellbeing Monitor for Wales project board, and by testing the search against a set of papers known to the SURE team. The final search strategy was agreed with OCSRO, and then adapted to the remaining databases.

The review aimed to place particular focus on studies conducted in Wales and the UK. However in the event that UK research was scarce and large gaps in the evidence were identified, the search was designed to also include international literature. To maximise generalisability to Wales, it was intended that non-UK studies would only be included if the sample population resided in an OECD⁷ country or region that is industrially established and has a market economy including Europe, North America, Canada, New Zealand, Australia and Japan.

The MEDLINE search strategy, using the National Library of Medicine's Medical Subject Headings (MeSH) and search fields for text words in titles and abstracts, is presented in appendix 2. The structure is based on combining three groups of terms: population terms AND subject terms AND study design terms. A filter to remove non-OECD countries was also applied. The list of search strategies used in all the databases is provided in the separate document entitled - 'Document B - Search History'.

2.2 Selection of Studies

Search results were downloaded into the bibliographic software Reference Manager for sifting. The titles and abstracts were sifted to separate UK from non-UK studies. UK and possible UK-based studies were then screened to remove duplicate and clearly irrelevant citations.

The full-text of the remaining potentially relevant papers were obtained and the inclusion criteria applied to select the final set of papers. The inclusion criteria are listed below:

Inclusion Criteria

The review aimed to identify observational research on the health and wellbeing of older people, of relevance to the following Monitor headings:

- Independence and Material Wellbeing

⁵ Welsh Assembly Government, The Strategy for Older People in Wales (2008-2013), 2007 <http://wales.gov.uk/strategy/strategies/2166490/olderpeoplell.pdf?lang=en>.

⁶ United Nations Principles for Older Persons http://www.un.org/ageing/un_principles.html

⁷ Organisation for Economic Development (OECD) - see http://www.oecd.org/countrieslist/0,3351,en_33873108_33844430_1_1_1_1_1,00.html

- Participation
- Care
- Self-fulfilment and Active Ageing
- Dignity and Social Inclusion

The full list of subheadings is available in appendix 1.

Please note that the SURE team recently conducted a systematic review on the social determinants of older people's health for the Welsh Assembly Government⁸, and the results are included in the Monitor evidence review. As systematic reviews provide an overview of results across the evidence base, it was decided not to include primary research in this area. This was to avoid duplication of results and effort. The systematic review is currently being updated and will be provided to OCSRO when complete.

Study Designs

Quantitative and qualitative observational studies were eligible for inclusion (e.g. cohort studies, questionnaires, focus groups or interview studies), and systematic reviews of these study designs. Case series, case reports, discussion papers, editorials and letters were excluded along with studies only available as an abstract.

Quantitative studies were restricted to a sample size of 200 people or more, whereas qualitative studies of all sample sizes were included.

Study Population and Country of Origin

As per the project brief, the study population was limited to adults aged 50 and over. As previously mentioned, the review aimed to place particular focus on studies conducted in Wales and the UK. We planned to include other OECD countries in the event that UK research was scarce and large gaps in the evidence were identified. However due to the large volume of UK research available, studies involving other countries were only included if they also contained UK data.

Date and Language Range

The review was confined to English or Welsh language studies published from 2000 to date. Furthermore studies were excluded if they only covered data prior to 1998, so results were based on recent research.

2.3 Completion of Data Audit Forms

Data Extraction

Data from the full text of each included paper was extracted into the data audit forms provided. Initially, a sub-set of studies was extracted in duplicate by the project team. This was conducted to test the data audit templates, make amendments where necessary and standardise data extractors. All data audit forms were then completed by one reviewer and checked by a second. See appendix 3 for a template of the data audit form.

Where several papers were published reporting similar outcomes from one study, these were extracted into one data audit form for ease of use.

Quality Appraisal

⁸ Morgan F, Addis SG, Weightman AL, Shepherd MA, Morgan HE, Mann MK. *Social determinants for Older People's Health*. 2008. Welsh Assembly Government. See <http://wales.gov.uk/dphp/publication/research/health-gain-targets/older/older-exec-e.pdf?lang=en>

The validity of all included studies was assessed using study-specific critical appraisal checklists according to SURE's internationally recognised methodology⁹. The findings were then entered into 'Quality/Limitations' section of the data audit form. Examples of the checklists used are available in appendix 4.

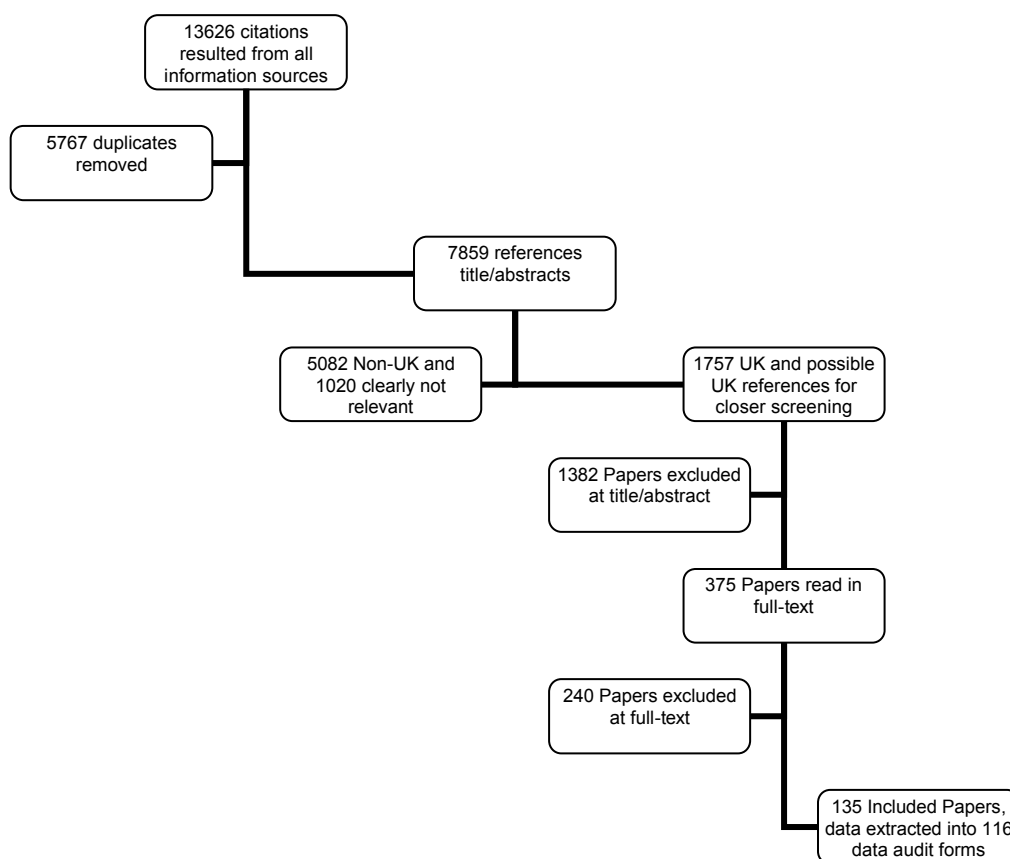
3. RESULTS

3.1 Search Results

The search resulted in 13626 references. 5767 duplicates were removed and the titles and abstracts scanned to exclude 1020 clearly irrelevant citations (i.e. references with inappropriate country of origin or care setting, plus editorials, letters and discussion papers). 5082 non-UK studies were also identified.

1757 UK and possible-UK studies remained, of which 1382 were excluded at title and abstract. The full-text of 375 papers was then obtained and the inclusion criteria applied. 240 papers did not meet the criteria, leaving 135 included papers. The studies were appraised and data extracted into 116 data audit forms.

A flow diagram, outlining the screening of search results is shown below:



⁹ Weightman AL, Mann MK, Sander L and Turley RL. Health Evidence Bulletins Wales. Project Methodology 5, Cardiff: Information Services UWCM, January 2004. <http://hebw.cf.ac.uk/projectmethod/title.htm>

A summary of the data audit forms is provided in section 3.2 overleaf. Data audit forms are provided separately. The reference list of all included papers is provided in section 4.

3.2 Table of Included Papers

Ref ID	Title of Paper	Monitor Chapter Working Titles	Notes (e.g. data source, location)	Type of Data	Publisher
1 Abbott 2005	Living on the Margins: Older People, Place and Social Exclusion	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Care • Dignity and Social Inclusion 	'Better Government for Older People' programme. Data collected 1998.	Qualitative	Policy Studies
2 Arber 2004	Gender, Marital Status, and Ageing: Linking Material, Health, and Social Resources	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	GHS 1993-96 and BHPS 1999. secondary analysis, includes Wales (BHP).	Quantitative - record linkage	Journal of Aging Studies
4 Atkins 2001	Older people: their transport needs and requirements	<ul style="list-style-type: none"> • Participation • Self-fulfilment and Active Ageing 	By the Dept of Transport, includes England & Wales. Data collected March 2000	Quantitative & Qualitative	
5 Awang 2002	Older people and participation within Disabled Facilities Grant processes	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	England, data collection period not reported	Qualitative	British Journal of Occupational Therapy
6 Ayis 2007	The effect of definitions of activities of daily living on estimates of changing ability among older people	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	Quality of Life Survey, in Wales, England and Scotland	Quantitative	International Journal of Rehabilitation Research
8 Banks 2007	Understanding Pensions: Cognitive Function, Numerical Ability and Retirement Saving *	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	ELSA wave 1 (2002).	Quantitative	Fiscal Studies

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9	Banks 2008	Living in the 21st century: older people in England. The 2006 English Longitudinal Study of Ageing (wave 3)	<ul style="list-style-type: none"> All 	ELSA wave 3 2006-2007	Quantitative	Institute for Fiscal Studies
10	Barnes 2006	Characteristics and views of family carers of older people with heart failure	<ul style="list-style-type: none"> Older People who are Carers 	Longitudinal data collected 2003 to 2006.	Quantitative & Qualitative	International Journal of Palliative Nursing
11	Barrett 2005	Support and information needs of older and disabled older people in the UK	<ul style="list-style-type: none"> Independence and Material Wellbeing Care 	UK. Period of data collection not reported	Quantitative	Applied Ergonomics
15	Bowling 2008 Bowling 2006b	Enhancing later life: How older people perceive active ageing? Lay perceptions of successful ageing: findings from a national survey of middle aged and older adults in Britain.	<ul style="list-style-type: none"> Participation Self-fulfilment and Active Ageing 	Omnibus Survey, England, Scotland and Wales.	Qualitative	Aging and Mental Health European Journal of Ageing
16	Bowling 2006a Bowling 2007a	Do perceptions of neighbourhood environment influence health? Baseline findings from a British survey of aging How do objective and subjective assessments of neighbourhood influence social and physical functioning in older age? Findings from a British survey of ageing	<ul style="list-style-type: none"> Participation Self-fulfilment and Active Ageing 	Omnibus Survey, England, Scotland and Wales.	Quantitative	Journal of Epidemiology and Community Health Social Science and Medicine
17	Bowling 2007b	Quality of life among older people with poor functioning. The influence of perceived control over life	<ul style="list-style-type: none"> Participation Self-fulfilment and Active Ageing 	Omnibus survey	Quantitative	Age and Ageing

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	Bowling 2007c Gabriel 2004	Lay theories of quality of life in older age. Quality of life from the perspectives of older people				Ageing & Society Ageing & Society
18	Boyle 2005	The role of autonomy in explaining mental ill-health and depression among older people in long-term care settings	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care • Self-fulfilment and Active Ageing 	Data collected 1998/99 in Belfast.	Qualitative	Ageing & Society
19	Braunholtz 2002	Public attitudes to the healthcare of older people in Scotland	<ul style="list-style-type: none"> • Care 	Survey in 2001, Scotland.	Quantitative & Qualitative	Scottish Executive Central Research Unit
20	Breeze 2004	Trends in influenza vaccination uptake among people aged over 74 years, 1997-2000: survey of 73 general practices in Britain	<ul style="list-style-type: none"> • Care 	MRC-funded Trial of the Assessment and Management of Older People in the Community. Great Britain.	Quantitative	BMC Family Practice
22	Buck 2005	Social exclusion and civil law: experience of civil justice problems among vulnerable groups	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care • Dignity and Social Inclusion 	English & Welsh Civil and Social Justice Survey	Quantitative	Social Policy and Administration
23	Burholt 2007	Retaining independence and autonomy in a rural area: older people's preferences for specialised housing	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	HAPPI (Housing for an Ageing Population: Planning Implications 2001-2003). Wales.	Quantitative	Research Policy and Planning

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24	Burholt 2003	European study of adult well-being: comparative report on social support resources	<ul style="list-style-type: none"> • Participation • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	European Study of Adult Well-Being, inc Wales, data collected between 2002-2003	Quantitative	European Study of Adult Well-Being (ESAW)
25	Burholt 2006	The material resources and well-being of older people	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	European Study of Adult Well-Being, inc Wales, data collected between 2002-2003	Quantitative	European Study of Adult Well-Being (ESAW)
	Lamura 2003	European study of adult well-being: comparative report on ageing well and material security in Europe				
26	Buxton 2005	The mental health of early retirees: National interview survey in Britain	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	The 2000 ONS Psychiatric Morbidity Survey, data collected between March and September 2000	Quantitative	Social Psychiatry and Psychiatric Epidemiology
27	Calnan 2006	Dignity under threat? A study of the experiences of older people in the United Kingdom	<ul style="list-style-type: none"> • Care • Dignity and Social Inclusion 	includes Wales, SW England and S Wales, conducted in 2002	Qualitative	International Journal of Health Services
	Woolhead 2004	Dignity in older age: what do older people in the United Kingdom think?				Age and Ageing
30	Chandola 2007	Social inequalities in self reported health in early old age: follow-up of prospective cohort study	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing 	'Whitehall II study', longitudinal data collected from 1991 to 2004	Quantitative	BMJ

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31	Clough 2003	Homing in on housing: a study of housing decisions of people over 60	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	Data collected 2000-2003	Qualitative	Eskrigge Social Research
32	Clover 2006	Overcoming barriers for older gay men in the use of health services: a Qualitative study of growing older, sexuality and health	<ul style="list-style-type: none"> • Care • Participation • Dignity and Social Inclusion 	London, data collected 2002/03	Qualitative	Health Education Journal
33	CM Insight 2007	Insurance and age: exploring behaviour, attitudes and discrimination	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing • Dignity and Social Inclusion • Possibly 'Independence and Material Wellbeing' for driving and travel opportunities but no relevant subheading. 	UK wide, 2006	Qualitative and Quantitative	Age Concern and Help the Aged
35	Cooper 2008	The prevalence of elder abuse and neglect: A systematic review	<ul style="list-style-type: none"> • Dignity and Social Inclusion 	Systematic review	Systematic review of quantitative studies	Age and Ageing
36	Craig 2007	Health survey for England 2005: the health of older people (all volumes)	<ul style="list-style-type: none"> • Participation • Care • Self-fulfilment and Active Ageing 	Health Survey for England 2005	Quantitative	NHS. The Information Centre
37	Crocker 2006	Giving up or finding a solution? The experience of attempted suicide in later life	<ul style="list-style-type: none"> • Care 	Qualitative study, study date is not reported	Qualitative	Ageing & Mental Health
38	Crombie 2004	Why older people do not participate in leisure time physical activity: A survey of activity levels, beliefs and deterrents	<ul style="list-style-type: none"> • Self-fulfilment and active ageing 	Scotland, date period not reported	Quantitative	Age and Ageing
39	Croucher 2008	Review of Sheltered Housing in Scotland	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	Scotland, data collected 2007		Scottish Government Social Research / Communities

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						Scotland
40	Curran 2002	Older People and the Enterprise Society: Age and Self-Employment Propensities	<ul style="list-style-type: none"> Independence and Material Wellbeing 	UK	Quantitative	Work, Employment and Society
41	Dahlberg 2007	Age and gender of informal carers: a population-based study in the UK	<ul style="list-style-type: none"> Older People who are Carers 	UK 2001 Census	Quantitative	Health and Social Care in the Community
42	Davis 2005	Active ageing in active communities: Volunteering and the transition to retirement	<ul style="list-style-type: none"> Participation 	England	Qualitative	Joseph Rowntree Foundation
45	Doran 2003	Health of young and elderly informal carers: analysis of UK census data	<ul style="list-style-type: none"> Older People who are Carers 	UK Census 2001	Quantitative	BMJ
46	Evandrou 2001	The dynamics of living arrangements in later life: evidence from the British Household Panel Survey	<ul style="list-style-type: none"> Independence and Material Wellbeing Care 	BHP survey, 1990-99	Quantitative	Population Trends
47	Evans 2007	A Qualitative study of lay beliefs about influenza immunisation in older people	<ul style="list-style-type: none"> Care 	South Wales	Qualitative	British Journal of General Practice
	Evans 2003a	Why do older people not get immunised against influenza?: A community survey			Quantitative	Vaccine
48	Evans 2003b	The mental health of older people: report based on the analysis of the ONS survey of psychiatric morbidity among adults in Great Britain	<ul style="list-style-type: none"> Care Self-fulfilment and Active Ageing 	2000 ONS of psychiatric morbidity. Includes Wales, 2000 data.	Quantitative	Great Britain. Office for National Statistics

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49	Fagerstrom 2007	Life satisfaction and associated factors among people aged 60 years and above in six European countries.	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Self-fulfilment and Active Ageing 	European Study of Adult Wellbeing. 2002/2003.	Quantitative	Applied Research in Quality of Life
50	Ferring 2003	European Study of Adult Well-Being: Comparative Report on Physical Health and Functional Status	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing 	European Study of Adult Well-Being. 2002/2003.	Quantitative	European Study of Adult Well-Being (ESAW)
51	Flynn 2006	Retired Members in a British Union	<ul style="list-style-type: none"> • Participation 	Survey conducted in 2002.	Qualitative & Quantitative	Work, Employment and Society
52	Fortuijn 2003	European Study of Adult Well-Being: Comparative Report on Ageing Well and Life Activities	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Self-fulfilment and Active Ageing 	European Study of Adult Well-Being, 2002/2003	Quantitative	European Study of Adult Well-Being (ESAW)
53	Gardener 2006	Middle-aged and mobility-limited: Prevalence of disability and symptom attributions in a national survey	<ul style="list-style-type: none"> • Self-fulfillment and Active Ageing 	ELSA 2003	Quantitative	Journal of General Internal Medicine
54	Gott 2007	Patient views of social service provision for older people with advanced heart failure	<ul style="list-style-type: none"> • Care 	England, 2003-06	Quantitative & Qualitative	Health & Social Care in the Community
56	Hanratty 2007	Retirement age caregivers and deprivation of area of residence in England and Wales	<ul style="list-style-type: none"> • Older People who are Carers 	UK Census, 2001	Quantitative	European Journal of Ageing
57	Hanratty 2008	Socioeconomic differences in service use, payment and receipt of illness-related benefits in the last year of life: Findings from the British Household Panel Survey	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care • Self-fulfilment and Active Ageing 	Longitudinal data from BHP, 1991 to 2003	Quantitative	Palliative Medicine

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59	Hill 2009	Managing resources in later life. Older people's experience of change and continuity	<ul style="list-style-type: none"> • Independence and Wellbeing • Participation • Care • Self-fulfilment and Active Ageing 	England, data collected in 2005 and 2007.	Qualitative	Joseph Rowntree Foundation
60	Hubbard 2003	Absence of ageism in access to critical care: A cross-sectional study	<ul style="list-style-type: none"> • Care 	South Wales, one year data collected from June 1997.	Quantitative	Age and Ageing
61	Hudson 2007	Social cohesion in diverse communities	<ul style="list-style-type: none"> • Participation • Dignity and Social Inclusion 	England	Qualitative	Joseph Rowntree Foundation
62	Hughes 2004	Old and alone: barriers to healthy eating in older men living on their own	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	England	Qualitative	Appetite
63	Jagger 2009	Inequalities in healthy life years in the 25 countries of the European Union in 2005: a cross-national meta-regression analysis	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Self-fulfilment and Active Ageing 	Statistics of Living and Income Conditions (SILC) survey, 2005	Quantitative	The Lancet
64	Jagger 2007	The burden of diseases on disability-free life expectancy in later life	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	MRC Cognitive Function and Ageing Study, includes area in Wales, 1991-2001	Quantitative	Journals of Gerontology - Series A Biological Sciences and Medical Sciences
65	Jamieson 2007	Higher education study in later life: What is the point?	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Self-fulfilment and Active Ageing 	London	Qualitative	Ageing & Society

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66	Janssen 2005	Cohort patterns in mortality trends among the elderly in seven European countries, 1950-99	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	Longitudinal study, 1950 to 1999, includes England and Wales	Quantitative	International Journal of Epidemiology
67	Jeary 2005	Sexual abuse and sexual offending against elderly people: A focus on perpetrators and victims	<ul style="list-style-type: none"> • Dignity and Social Inclusion 		Qualitative	Journal of Forensic Psychiatry and Psychology
68	Kelson 2001	Speaking out about stroke services: the views of people affected by stroke: a survey to inform the implementation of the National Service Framework for Older People	<ul style="list-style-type: none"> • Care 			Stroke Assn publication
70	Lafortune 2007	Trends in Severe Disability Among Elderly People	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing 	Reanalysis of data from OECD countries - includes UK (GHS)	Quantitative	Organisation for Economic Co-operation and Development (OECD)
71	Lang 2007	Moderate alcohol consumption in older adults is associated with better cognition and well-being than abstinence	<ul style="list-style-type: none"> • Care 	ELSA 2002/03	Quantitative	Age and Ageing
73	Lawrence 2008	The experiences and needs of people with dementia and serious visual impairment: a Qualitative study	<ul style="list-style-type: none"> • Care 		Qualitative	Pocklington Trust
74	Leino-Kilpi 2003a	Perceptions of autonomy, privacy and informed consent in the care of elderly people in five European countries: general overview	<ul style="list-style-type: none"> • Care 	Includes UK (Scotland), 1998-2001	Quantitative & Qualitative	Nursing Ethics

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	Leino-Kilpi 2003b	Perceptions of autonomy, privacy and informed consent in the care of elderly people in five European countries: comparison and implications for the future				
	Schopp 2003a	Perceptions of informed consent in the care of elderly people in five European countries				
	Schopp 2003b	Perceptions of privacy in the care of elderly people in five European countries				
	Scott 2003	Perceptions of autonomy in the care of elderly people in five European countries				
75	Lillyman 2007	Fear of social isolation: results of a survey of older adults in Gloucestershire	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	England	Quantitative	Nursing Older People
76	Livingston 2002	Accessibility of health and social services to immigrant elders: the Islington study	<ul style="list-style-type: none"> • Care 	'Islington Study', London, 96/99	Quantitative	British Journal of Psychiatry
78	Lovelock 2007	Change in incidence and aetiology of intracerebral haemorrhage in Oxfordshire, UK, between 1981 and 2006: a population-based study	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active ageing 	Oxford Community Stroke Project (OCSP, 1981-86) and the Oxford Vascular Study (OXVASC,	Quantitative	Lancet Neurology

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				2002-06), England		
79	Macdonald 2004	Older people in Scotland: results from the Scottish Household Survey 1999-2000 (full text)	<ul style="list-style-type: none"> • Independence and Wellbeing • Participation • Care • Self-fulfilment and Active Ageing 	Scottish Household Survey, 1999-2002.	Quantitative	Scottish Executive
80	Manthorpe 2008	Elderly people's perspectives on health and well-being in rural communities in England: findings from the evaluation of the National Service Framework for Older People	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care • Self-fulfilment and Active Ageing 	England, 2005/06	Qualitative	Health & Social Care in the Community
81	Marmot 2003	Health, wealth and lifestyles of the older population in England: the 2002 English Longitudinal Study of Ageing	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Care • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	ELSA 2002, first wave	Quantitative	Institute of Fiscal Studies
82	McCann 2005	The challenges associated with providing community care for people with complex needs in rural areas: a Qualitative investigation	<ul style="list-style-type: none"> • Care 	Northern Ireland, 2002/03	Qualitative	Health & Social Care in the Community
83	McGarry 2001	Informal caring in late life: a Qualitative study of the experiences of older carers	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Older People who are Carers • Participation • Dignity and social inclusion 	England, 1997/98	Qualitative	Journal of Advanced Nursing

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84	McGee 2008	Older people--recipients but also providers of informal care: an analysis among community samples in the Republic of Ireland and Northern Ireland	<ul style="list-style-type: none"> • Older People who are Carers 	Northern Ireland, 2003	Quantitative	Health & Social Care in the Community
86	Moffat 2009	Older people's experience of proactive welfare rights advice: Qualitative study of a South Asian community	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	England, 2005/06	Qualitative	Ethnicity & Health
87	Morgan 2008	Social determinants for Older People's Health	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing 	Systematic Review	Systematic Review of Quantitative Data	Welsh Assembly Government
88	Morgan 2000	Healthy ageing in urban and rural Britain: A comparison of exercise and diet	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Self-fulfilment and Active Ageing 	Subsample of MRC Cognitive and Ageing Study	Quantitative	Age and Ageing
90	Mowlam 2007	UK study of abuse and neglect of older people: Qualitative findings	<ul style="list-style-type: none"> • Dignity and Social Inclusion 	UK National Prevalence Study of Elder Mistreatment, 2006	Qualitative	Department of Health / Comic Relief
	O'Keefe 2007	UK study of abuse and neglect of older people: prevalence survey report			Quantitative	
	Biggs 2009	Mistreatment of older people in the United kingdom: findings from the first national prevalence study			Quantitative	
92	Munir 2009	Health behaviours among older and younger workers with chronic illness	<ul style="list-style-type: none"> • Independence and Wellbeing • Self-fulfilment and Active Ageing 	April to September 2004	Quantitative	Oxford Institute of Ageing Working Papers

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93	Nelson 2004	Does diagnosis determine delivery? The Islington study of older people's needs and health care costs	<ul style="list-style-type: none"> • Care 	London	Quantitative	Psychological Medicine
95	Parry 2007	Orientation, opportunity and autonomy: why people work after state pension age in three areas of England	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	Labour Force Survey, Family Resources Survey, BHP	Qualitative	Ageing & Society
	Barnes 2004	Working after State Pension Age: Qualitative research.			Qualitative	Department for Work and Pensions
	Smeaton 2003	Working after State Pension Age: Quantitative research.			Quantitative	Department for Work and Pensions
96	Parry 2004	Independent living in later life	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	UK, 2003/04	Qualitative	Department for Work and Pensions
97	Patel 2006	Barriers to uptake of eye care services by the Indian population living in Ealing, West London	<ul style="list-style-type: none"> • Care 	London, period not reported	Qualitative	Health Education Journal
98	Patisios 2006	Pensioners, poverty and social exclusion	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Care • Self-fulfilment and Active Ageing • Dignity and Social Exclusion 	Poverty and Social Exclusion (PSE) Survey, includes Wales	Quantitative	In: Poverty and social exclusion in Britain: the millennium survey
99	Paul 2006	Psychological distress, loneliness and disability in old age	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	Quality of Life Survey (Omnibus Survey)	Quantitative	Psychology, Health & Medicine
100	Payne 2007	Experiences of end-of-life care in community hospitals	<ul style="list-style-type: none"> • Care 	England, 2002-04	Quantitative	Health & Social Care in the Community

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101 Percival 2002	Domestic Spaces: Uses and Meanings in the Daily Lives of Older People	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	England	Qualitative	Ageing and Society
102 Peres 2008	Impact of late-life self-reported emotional problems on Disability-Free Life Expectancy: Results from the MRC Cognitive Function and Ageing Study	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	MRC Cognitive Function and Ageing Study, includes Wales	Quantitative	International Journal of Geriatric Psychiatry
103 Perren 2003	Men's organisational affiliations in later life: the influence of social class and marital status on informal group membership	<ul style="list-style-type: none"> • Participation • Self-fulfilment and Active Ageing 	BHP 1999 - analysis	Quantitative	Ageing and Society
104 Perren 2004	Neighbouring in Later Life: The Influence of Socio-Economic Resources, Gender and Household Composition on Neighbourly Relationships	<ul style="list-style-type: none"> • Participation • Dignity and Social Inclusion 	GHS 2000	Quantitative	Sociology
105 Prime 2009	Generations forgotten: Older entrepreneurship across the UK	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	UK, includes Wales	Quantitative	Prime Initiative
107 Quinn 2003	Older people's perspectives. Devising information, advice and advocacy services	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care 	England	Qualitative	Joseph Rowntree Foundation
108 Raynes 2001	Getting older people's views on quality home care services	<ul style="list-style-type: none"> • Care • Independence and Material Wellbeing 	Manchester	Qualitative	Joseph Rowntree Foundation
109 Reed 2003	Making a move: care-home residents' experiences of relocation	<ul style="list-style-type: none"> • Care 	England	Qualitative	Ageing and Society

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111	Ross 2008	Living and Caring? An Investigation of the Experiences of Older Carers	<ul style="list-style-type: none"> • Older People who are Carers 	ELSA wave 2 (2004/5) and 3 (2006/07).	Quantitative	International Longevity Centre - UK (ILC-UK)
112	Sanders 2004	Unmet need for joint replacement: a Qualitative investigation of barriers to treatment among individuals with severe pain and disability of the hip and knee	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing 	Sampled from Somerset and Avon Survey of Health (SASH), study used follow-up survey 1998 -1999	Qualitative	Rheumatology
113	Scharf 2002	Growing older in socially deprived areas: Social exclusion in later life	<ul style="list-style-type: none"> • Participation • Self-fulfilment and Active Ageing 	England, 2001/2	Quantitative & Qualitative	Help the aged
	Scharf 2005a	Multiple Exclusion and Quality of Life amongst Excluded Older People in Disadvantaged Neighbourhoods	<ul style="list-style-type: none"> • Dignity and Social Inclusion 		Qualitative -	Office of the Deputy Prime Minister: London
	Scharf 2005b	Social exclusion of older people in deprived urban communities of England. [References]			Quantitative	European Journal of Ageing
114	Selwyn 2003	Older adults' use of information and communications technology in everyday life	<ul style="list-style-type: none"> • Independence and Wellbeing • Self-fulfilment and Active Ageing 	Includes Wales	Quantitative	Ageing and Society
	Selwyn 2004	The Information aged: a Qualitative study of older adults' use of information and communications technology			Qualitative	Journal of Aging Studies
116	Silveira 2001	Migration, Ageing and Mental Health: An Ethnographic Study on Perceptions of Life Satisfaction, Anxiety and Depression in Older Somali Men in East London	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	England	Qualitative	International Journal of Social Welfare

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117 Sin 2006	Expectations of support among White British and Asian-Indian older people in Britain: the interdependence of formal and informal spheres	<ul style="list-style-type: none"> Care 	Sampled from the 'Family Resource Survey'	Qualitative	Health & Social Care in the Community
118 Sinclair 2000	Cognitive dysfunction in older subjects with diabetes mellitus: impact on diabetes self-management and use of care services. All Wales Research into Elderly (AWARE) Study	<ul style="list-style-type: none"> Independence and Material Well-being Care 	All Wales Research into Elderly (AWARE) Diabetes Study	Quantitative	Diabetes Research & Clinical Practice
119 Sixsmith 2008	Ageing in place in the United Kingdom	<ul style="list-style-type: none"> Participation Care Self-fulfilment and Active Ageing Dignity and Social inclusion 	ENABLE-AGE Project 2002 to 2004, England	Qualitative	Ageing International
121 Smeeth 2002	Reduced hearing, ownership, and use of hearing aids in elderly people in the UK--the MRC Trial of the Assessment and Management of Older People in the Community: a cross-sectional survey.	<ul style="list-style-type: none"> Care 	MRC Trial of the Assessment and Management of Older People in the Community	Quantitative	Lancet
122 Soldato 2007	Non malignant daily pain and risk of disability among older adults in home care in Europe	<ul style="list-style-type: none"> Care Self-fulfilment and Active Ageing 	AgeD in HOme Care (AD-HOC) project, 2001-2003	Quantitative	Pain
124 Steel 2008	Self reported receipt of care consistent with 32 quality indicators: national population survey of adults aged 50 or more in England	<ul style="list-style-type: none"> Care 	ELSA 2004-5	Quantitative	British Medical Journal
125 Stevens 2008	Epidemiology of balance and dizziness in a national population: Findings from the English Longitudinal Study of Ageing	<ul style="list-style-type: none"> Care 	ELSA 2004 (Wave 2). Write up of chapter 4	Quantitative	Age and Ageing

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127 Tanner 2007	Starting with lives: supporting older people's strategies and ways of coping	<ul style="list-style-type: none"> • Car • Independence and Material Wellbeing • Dignity and Social Inclusion • Participation 	UK, 1999 to 2002	Qualitative	Journal of Social Work
128 Tinker 2001	Eighty-five not out: a study of people aged 85 and over at home	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	England, 98 to 2000	Qualitative	Anchor Trust
129 Tod 2002	I'm still waiting': barriers to accessing cardiac rehabilitation services	<ul style="list-style-type: none"> • Care 	England	Qualitative	Journal of Advanced Nursing
130 Tomassini 2006	The oldest old in Great Britain: change over the last 20 years	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Care • Self-fulfilment and Active Ageing 	GHS, reanalysis, includes Wales - most recent data 2000	Quantitative	Population Trends
131 Traynor 2003	People aged 65 and over: results of a study carried out on behalf of the Department of Health as part of the 2001 General Household Survey	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Care • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	GHS, 2001 UK	Quantitative	London: Her Majesty's Stationery Office
132 Traynor 2005	Understanding the lives of older women	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	Edinburgh, Scotland	Qualitative	Nursing Standard
133 Uren 2007	Migration trends at older ages in England and Wales	<ul style="list-style-type: none"> • Independence and Material Wellbeing 	Office for National Statistics 1971-2001, includes Wales	Quantitative	Population Trends
134 Vernon 2008	Participation in community exercise classes: barriers to access	<ul style="list-style-type: none"> • Care • Self-fulfilment and Active Ageing 	England	Qualitative	British Journal of Community Nursing
136 Victor 2006	Older People's Experiences of Loneliness in the UK: Does Gender Matter?	<ul style="list-style-type: none"> • Participation • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	Omnibus survey	Quantitative	Social Policy and Society
Victor 2005	The prevalence of, and risk factors for, loneliness in later life: a survey of older people in Great Britain				Ageing & Society

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137 Weber 2003	European Study of Adult Well-Being: Comparative Report on Self Resources in Advanced and Old Age	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	European Study of Adult Well-Being (ESAW)	Quantitative	European Study of Adult Well-Being (ESAW)
138 Wilkie 2006	The prevalence of person-perceived participation restriction in community-dwelling older adults	<ul style="list-style-type: none"> • Independence and Wellbeing • Participation • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	England	Quantitative	Quality of Life Research
139 Willis 2008	Advantageous inequality or disadvantageous equality? Ethnicity and family support among older people in Britain	<ul style="list-style-type: none"> • Care 	2005 Home Office Citizenship Survey	Quantitative	Ethnicity and Inequalities in Health and Social Care
142 Yu 2000	Chinese older people. A need for social inclusion in two communities	<ul style="list-style-type: none"> • Independence and Material Wellbeing • Participation • Care • Self-fulfilment and Active Ageing 	1998 and 1999	Qualitative	Bristol: The Policy Press
143 Banks 2006	Retirement, Health and Relationships of The Older Population In England. The 2004 English Longitudinal Study of Ageing (Wave 2)	<ul style="list-style-type: none"> • Independence and Wellbeing • Participation • Care • Self-fulfilment and Active Ageing • Dignity and Social Inclusion 	ELSA, 2004	Quantitative	Institute for Fiscal Studies
144 Donaldson 2007	An Exploration Of Access To Health And Social Care Services By Older Deaf People In Scotland	<ul style="list-style-type: none"> • Care 	Scotland	Qualitative	Royal Bank of Scotland, Centre for the Older Person's Agenda
145 Rait 2005	Prevalence of cognitive impairment: results from the MRC trial of assessment and management of older people in the community	<ul style="list-style-type: none"> • Self-fulfilment and Active Ageing 	MRC trial of the assessment and management of older people in the community - baseline between 1995 and 1999	Quantitative	Age and Ageing

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Appendix 1

List of Monitor Chapter Headings and subheadings (working titles)

Independence and Material Wellbeing

1. Older persons should have access to adequate food, water, shelter, clothing and health care through the provision of income, family and community support and self-help.
2. Older persons should have the opportunity to work or to have access to other income-generating opportunities.
3. Older persons should be able to participate in determining when and at what pace withdrawal from the labour force takes place.
4. Older persons should have access to appropriate educational and training programmes.
5. Older persons should be able to live in environments that are safe and adaptable to personal preferences and changing capacities.
6. Older persons should be able to reside at home for as long as possible.
7. Indicator of change material wellbeing - employment rate. Those in employment as a percentage of the population, in three age groups: a) 16-59/64 (available for all-Wales and by local authority). b) 50-59/64 (available at all-Wales level). c) 60/65+ (available at all-Wales level).
8. Indicator of change material wellbeing – work related training/education. Percentage of people aged 50+ who had taken part in any education or training connected with their job, or any job that they might do in the future, during a three-month period.

Participation

9. Older persons should remain integrated in society, participate actively in the formulation and implementation of policies that directly affect their wellbeing and share their knowledge and skills with younger generations.
10. Older persons should be able to seek and develop opportunities for service to the community and to serve as volunteers in positions appropriate to their interests and capabilities.
11. Older persons should be able to form movements or associations of older persons.

Care

12. Older persons should benefit from family and community care and protection in accordance with each society's system of cultural values.
13. Older persons should have access to health care to help them maintain or regain the optimum level of physical, mental and emotional wellbeing and to prevent or delay the onset of illness.
14. Older persons should access to social and legal services to enhance their autonomy, protection and care.
15. Older persons should be able to utilise appropriate levels of institutional care providing protection, rehabilitation and social and mental stimulation in a humane and secure environment.
16. Older persons should be able to enjoy human rights and fundamental freedoms when residing in any shelter, care or treatment facility, including full respect for their dignity, beliefs, needs and privacy and for the right to make decisions about their care and the quality of their lives.
17. Indicator of change social care – receipt of community based services helping people to live at home. Rate of people aged 65+ helped to live at home per 1,000 population aged 65+.

18. Indicator of change social care – housing that is unfit or in a defective state. Proportion of women aged 60+ and men aged 65+ who live in households classed as a) unfit and b) defective.
19. Indicator of change health care – access to selected surgical procedures. Rates per 1,000 population aged 65 or over of: a) hip replacements and b) knee replacements.

Self-fulfilment and Active Ageing

20. Older persons should be able to pursue opportunities for the full development of their potential.
21. Older persons should have access to the educational, cultural, spiritual and recreational resources of society.
22. Indicator of change active ageing – participation in sport or leisure activities. Participation by people aged 50+ in any sport or activity during a four-week period.
23. Indicator of change health and wellbeing – healthy life expectancy at 65+. Average number of years that a person aged 65 can expect to live in good or fairly good health, based on people's own assessment of their general health.
24. Indicator of change health and wellbeing – disability free life expectancy at 65+. Average number of years that a person aged 65 can expect to live free from long-standing illness.

Dignity and Social Inclusion

25. Older persons should be able to live in dignity and security and be free of exploitation and physical or mental abuse.
26. Older persons should be treated fairly regardless of age, gender, racial or ethnic background, disability or other status, and be valued independently of their economic contribution¹⁰.
27. Indicator of change social inclusion – fear of crime. Percentage of people age 50+ who report that their lives are greatly affected by fear of crime. In addition, the following two measures will be included if existing data can be used: contact with friends and family and access to transport.

¹⁰ In Wales, this would include linguistic equality, i.e. giving Welsh and English equal status. Source: Help the Aged. How to Age-proof: A model to assess age discrimination and promote age equality. A publication from the Growing Older in Wales initiative (October 2006).

Appendix 2: Medline Search Strategy

Key: / or sh = subject heading; exp = explode subject heading; \$ = truncation term; ? = replaces single letter; ti = title field; ab = abstract field; pt = publication type; adj = adjacent to ; adj2 = up to two words between the identified terms allowed, in any order; OR/ = combines all the search lines within the numbered range using OR e.g. or/1-4 searches 1 or 2 or 3 or 4.

Searches

- 1 older people.ti,ab.
- 2 older person\$.ti,ab.
- 3 older citizen\$.ti,ab.
- 4 old\$ population\$.ti,ab.
- 5 senior citizen\$.ti,ab.
- 6 ((elder\$ or old\$) adj (women or men or adult\$)).ti,ab.
- 7 later life.ti,ab.
- 8 retired.ti,ab.
- 9 pensioner\$.ti,ab.
- 10 elderly.ti,ab.
- 11 (old age or last years of life or late adulthood).ti,ab.
- 12 pension age.ti,ab.
- 13 oldest old.ti,ab.
- 14 ("50 years or older" or "55 years or older" or "60 years or older" or "65 years or older" or "70 years or older" or "75 years or older" or "80 years or older" or "85 years or older" or "90 years or older" or "95 years or older").ti,ab.
- 15 (older than 50 or older than 55 or older than 60 or older than 65 or older than 70 or older than 75 or older than 80 or older than 85 or older than 90 or older than 95).ti,ab.
- 16 (Ag?ing adj (network\$ or population\$1 or people or person\$ or adult\$ or workforce\$ or worker\$1 or employee\$1 or communit\$ or resident\$ or citizen\$1 or adult\$)).ti,ab.
- 17 (aged adj (fifty or fifty five or sixty or sixty five or seventy or seventy five or eighty or eighty five)).ti,ab.
- 18 exp Aged/sn, px
- 19 or/1-18

Theme 1: Independence and material well being

1. Older persons should have access to adequate food, water, shelter, clothing and health care through the provision of income, family and community support and self-help.
2. Older persons should have the opportunity to work or to have access to other income-generating opportunities.
3. Older persons should be able to participate in determining when and at what pace withdrawal from the labour force takes place.
4. Older persons should have access to appropriate educational and training programmes.
5. Older persons should be able to live in environments that are safe and adaptable to personal preferences and changing capacities.
6. Older persons should be able to reside at home for as long as possible.

- 20 (malnutrition or malnourish\$) adj3 (pattern\$ or prevalence\$ or trend\$1 or rate or rates or determinant\$

- or frequen\$ or occur\$ or association\$ or incidence\$ or cases)).ti,ab.
- 21 ((meal or vegetable or fruit) adj3 (deliver\$ or consume\$1 or consumption or servings)).ti,ab.
- 22 (diet\$ pattern\$ or food pattern\$ or meal pattern\$ or eating pattern\$ or diet\$ habit\$1 or food habit\$1 or meal habit\$1 or eating habit\$1 or nutrient\$ intake or healthy eating).ti,ab.
- 23 (Under nourished or under?nourished).ti,ab.
- 24 (food security or food insecurity or nutrition\$ deficit\$).ti,ab.
- 25 ((independen\$ or actively) adj2 (living or live or residence or reside or housing)).ti,ab.
- 26 (meals on wheel\$ or balanced meal\$ or hot meal\$).ti,ab.
- 27 food services/ or menu planning/ or vegetables/ or food supply/
((weight loss or weight change or over?weight or under?weight or obese or obesity) adj2 (pattern\$ or prevalence\$ or trend\$1 or rate or rates or determinant\$ or frequen\$ or occur\$ or association\$ or incidence\$ or cases)).ti,ab.
- 28 (insufficient weight or sufficient weight or suitable weight or appropriate weight or reduced weight or low weight or inadequate weight or adequate weight).ti,ab.
- 29 ((supply or availab\$ or access\$ or obtain\$ or unobtain\$ or inaccess\$ or unavail\$ or adequate or acquire\$) adj2 (nutrition\$ or nutrient\$1 or nutritious or water or shelter\$1 or clothing or clothes or food or foods or consumer durables or labo?r saving device\$ or internet)).ti,ab.
- 30 (financial adj (difficult\$ or limit\$ or problem\$ or trouble\$ or worries or worry)).ti,ab. Or wealth.ti,ab
(employment or unemploy\$ or material wellbeing or home ownership or hardship or financial assets or
- 32 financial security or recruitment opportunit\$ or workplace opportunit\$ or job promotion or prosperity or earning\$ capacity or low pay or low paid).ti,ab.
- 33 ((work or workplace or job or promotion) adj2 (prospect\$ or opportunit\$ or training or availabl\$ or education or qualification or life long learning or adult learning)).ti,ab.
- 34 ((invalidity or sickness or disability or incapacity) adj2 (benefit\$ or retirement or pension or allowance or payment)).ti,ab.
- 35 ((adequate or sufficient) adj2 (pension or income)).ti,ab.
- 36 employment/td,sn [trends and statistics and numerical data]
- 37 (living at home adj3 (support\$ or help\$ or service\$ or assist\$ or aid\$ or visit\$ or trend\$ or rate\$)).ti,ab.
- 38 ((independen\$ or actively) adj2 (living or live or residence or reside or housing)).ti,ab.
- 39 (live\$1 at home adj3 (support\$ or help\$ or service\$ or assist\$ or aid\$ or visit\$ or trend\$ or rate\$)).ti,ab.
- 40 (remote monitoring service\$ or telecare service\$ or communit\$ alarm\$1 or home safety or fire safety or affordable warmth or fuel poverty or housing support or chang\$ capacity\$).ti,ab.
- 41 ((property or home\$1 or housing) adj2 (adapt\$4 or maintenance or maintain\$ or cope or copes or coping or coped)).ti,ab.
- 42 ((live\$1 or living or environment\$1) adj3 (safe or safety or safely)).ti,ab.
- 43 (living adj5 (cope or copes or coping or coped)).ti,ab.
- 44 (health indicators or Living arrangement\$).ti,ab. or *health status indicators/
45 or/20-44

Theme 2: Participation

7. Older persons should remain integrated in society, participate actively in the formulation and implementation of policies that directly affect their wellbeing and share their knowledge and skills with younger generations.
8. Older persons should be able to seek and develop opportunities for service to the community and to serve as volunteers in positions appropriate to their interests and capabilities.
9. Older persons should be able to form movements or associations of older persons.

- 46 ((societies or society or social or community or communities or neighbo?rhood\$1) adj2 (integrate\$1 or integration or service or volunteer\$ or involvement or representative\$ or participat\$1 or barrier\$ or

enabler\$ or ease of or difficult\$)).ti,ab.

47 (Inter?generation\$ or social network\$ or social cohesion).ti,ab.

((knowledge or skill\$1 or learning\$ or hobbies or hobby or interests or capabilities) and (pass or transfer\$ or educat\$ or teach\$ or communicat\$ or share\$1 or sharing or exchange\$) and (young\$ people or young\$ person\$ or youth or youngsters or young\$ generation\$ or young\$ men\$ or young\$ women\$ or teenager\$ or children\$ or young\$ adult\$ or intergeneration\$ or grandparent\$ or grandmother\$ or grandchild\$ or daughter\$ or son\$ or adolescent\$)).ti,ab.

49 or/46-48

Theme 3: Health and Social Care

10. Older persons should benefit from family and community care and protection in accordance with each society's system of cultural values.
11. Older persons should have access to health care to help them maintain or regain the optimum level of physical, mental and emotional wellbeing and to prevent or delay the onset of illness.
12. Older persons should access to social and legal services to enhance their autonomy, protection and care.
13. Older persons should be able to utilise appropriate levels of institutional care providing protection, rehabilitation and social and mental stimulation in a humane and secure environment.
14. Older persons should be able to enjoy human rights and fundamental freedoms when residing in any shelter, care or treatment facility, including full respect for their dignity, beliefs, needs and privacy and for the right to make decisions about their care and the quality of their lives

50 (informal assistance or informal support or informal help or informal care or family assistance or family support or family care).ti,ab.

51 community health services/ut [utilisation]

((social or legal or service\$ or care or institutional\$ or nursing home or retirement home or sheltered housing or family or community) adj3 (autonomy or dignity or protect\$ or rehabilit\$ or privacy or humane or secure or security or freedom or safe or safety or comfort\$ or rights)).ti,ab.

53 community based social services.ti,ab.

54 (Legal adj2 care).ti,ab.

55 human rights/ or patient rights/ or personal autonomy/ or privacy/

56 ((housing or home or house or accommodation) adj2 (condition\$ or state or unfit or defective or defect\$1 or damp or repair\$ or disrepair or poor or decency or fit for purpose)).ti,ab.

57 (living condition\$ or standard of living).ti,ab.

58 Health Services Accessibility/td, sn

59 health services disparities/td, sn

60 ((Access or availability or accessibility or distance or transport or inaccess\$ or unavailable or bus or train or car) adj2 (health service\$ or health?care or treatment or surgery or surgical or healthcare\$ or hip replacement\$ or knee replacement\$ or hospital\$)).ti,ab.

61 ((Access or availability or accessibility or distance or transport or inaccess\$ or unavailable) adj5 (alzheimers or parkinsons or dementia or stroke or cardiovascular disease\$)).ti,ab.

62 ((social or legal or institutional or nursing home or retirement home or sheltered housing or family or community or service or receipt of care) adj2 (alzheimers or parkinsons or dementia or stroke or cardiovascular disease\$)).ti,ab.

63 ((Access\$ or availab\$ or accessibility or inaccess\$ or unavailabl\$ or family or supply\$ or supplied\$ or obtain\$ or support\$ or provid\$ or provision) adj2 (carer\$ or caregiver\$)).ti,ab.

64 Health Services for the Aged/ut, sn, td [Utilization, Statistics & Numerical Data, Trends]

65 ((social or mental or environment\$) adj2 (stimulation or stimulus or stimuli)).ti,ab.

66 or/50-65

Theme 4: Self-fulfilment and active ageing

15. Older persons should be able to pursue opportunities for the full development of their potential.

16. Older persons should have access to the educational, cultural, spiritual and recreational resources of society.

- 67 ((physical\$ activ\$ or physical\$ inactiv\$ or physical exercise\$ or sedentary lifestyle or activity restriction or physical\$ literat\$ or outdoor activit\$ or leisure activit\$ or recreation\$) adj5 (access\$ or avail\$ or inaccess\$ or unavail\$ or attend\$ or involve\$ or participat\$ or member\$1 or membership\$ or join\$2 or joining or includ\$ or inclusion or uptake\$ or taking up or engage\$ or engaging or rate\$ or trend\$ or level\$1 or step\$ count\$1 or total daily or time spent or hour\$ spent)).ti,ab.
- 68 (gymnasia\$1 or health spa\$1 or leisure centre\$ or leisure center\$ or fitness centre\$ or fitness center\$ or gym class\$ or fit\$ class\$ or fit\$ club\$ or swimming pool\$).ti,ab.
- 69 ((active travel or walk\$) adj5 (access\$ or avail\$ or inaccess\$ or unavail\$ or attend\$ or involve\$ or participat\$ or member\$1 or membership\$ or join\$2 or joining or includ\$ or inclusion or uptake\$ or taking up or engage\$ or engaging or rate\$ or trend\$ or level\$1 or step\$ count\$1 or total daily or time spent or hour\$ spent)).ti,ab.
- 70 ((physical\$ or exercise\$3) adj2 (fit\$4 or activ\$3 or endur\$4) adj5 (access\$ or avail\$ or inaccess\$ or unavail\$ or attend\$ or involve\$ or participat\$ or member\$ or membership\$ or join\$2 or joining or includ\$ or inclusion or uptake\$ or taking up or engage\$ or engaging or rate\$ or trend\$ or level\$1 or step\$ count\$1 or total daily or time spent or hour\$ spent)).ti,ab.
- 71 ((church or religious or spiritual or theatre or cinema or museum or recreation\$ or club or continuing education or social activit\$ or evening class\$ or adult education\$ or adult learning or film club or bingo or library) adj5 (access\$ or avail\$ or inaccess\$ or unavail\$ or attend\$ or involve\$ or participat\$ or member\$1 or membership\$ or join\$2 or joining or includ\$ or inclusion or uptake\$ or taking up or engage\$ or engaging or rate\$ or trend\$ or level\$1 or step\$ count\$1 or total daily or time spent or hour\$ spent)).ti,ab.
- 72 (access\$ or avail\$ or inaccess\$ or unavail\$ or attend\$ or involve\$ or participat\$ or member\$1 or membership\$ or join\$2 or joining or inclusion or uptake\$ or taking up or engage\$ or engaging or trend\$ or step\$ count\$1 or total daily or time spent or hour\$ spent).ti,ab.
- 73 67 or 68 or 69 or 70 or 71
- 74 "Activities of Daily Living"/ or exp Education, Continuing/ or Dancing/ or exp Sports/ or Recreation/ or Exercise/ or public facilities/ or swimming pools/ or *walking/
- 75 74 and 72
- 76 (active\$ ageing or active\$ aging or self fulfilment or successful ageing or healthy ageing or successful aging or healthy aging).ti,ab.
- 77 Life Expectancy/td
- 78 (life expectancy or healthy life years or long?standing illness).ti,ab.
- 79 ((well being or well?being or wellbeing) adj2 (health or physical or mental or psychological or therapeutic or subjective or collective or overall or satisf\$)).ti,ab.
- 80 73 or 75 or 76 or 77 or 78 or 79

Theme 5: Dignity and social inclusion

17. Older persons should be able to live in dignity and security and be free of exploitation and physical or mental abuse.
18. Older persons should be treated fairly regardless of age, gender, racial or ethnic background, disability or other status, and be valued independently of their economic contribution¹¹.

81 Crime/ and Fear/

82 ((fear or afraid or perception\$ or perceive\$ or fright\$ or panic or alarm\$ or terrified or experience\$1) adj2 (crime or burglary or robbery or violence or assault\$2 or mugg\$3 or criminal\$1)).ti,ab.

83 ((social or society or community or communities) adj2 (exclusion or inclusion or interaction or

¹¹ In Wales, this would include linguistic equality, i.e. giving Welsh and English equal status. Source: Help the Aged. How to Age-proof: A model to assess age discrimination and promote age equality. A publication from the Growing Older in Wales initiative (October 2006).

- involvement or participation or isolation or relationship\$ or network\$ or contact\$ or engage\$ or cohesion or citizenship or valued or dignity)).ti,ab.
- 84 (family network\$ or social group\$ or friends or social relations or family relations or contact\$ with famil\$ or family contact\$1 or loneliness or lonely).ti,ab.
- 85 ((physical or mental or psychological or sexual) adj1 (abuse or abused or abusing)).ti,ab.
- 86 (Bullying or violence or ageism or human rights or freedom or dignity or dignified).ti,ab. or "Discrimination (Psychology)"/ or Spouse Abuse/ or Elder Abuse/
- 87 ((age or elder\$ or ageing or aged) adj2 (discriminat\$ or neglect or neglection or exploit\$ or equality)).ti,ab.
- 88 ((race or racial or gender or female or male or sexual or disability or disabled) adj2 (discrimin\$ or equality)).ti,ab.
- 89 or/81-88

Combining Themes

- 90 45 or 49 or 66 or 80 or 89

Study designs

- 91 Data collection/ or Qualitative Research/
- 92 (interview or meta-analysis).pt. or (systematic review\$ or systematic evidence\$ review or meta?analys?s or systematic overview).ti,ab
- 93 ((health or heart) adj4 study).ti.
- 94 ((old or ageing or aging or elderly) adj2 (study or project)).ti.
- 95 (survey or census or cohort study or participation study or longitudinal study or cross sectional study or cross sectional survey or questionnaire study).ti,ab.
- 96 ("Boyd-Orr cohort" or ELSA or national travel survey or "Renfrew and Paisley study" or "UK renal cohort " or "Whitehall study" or "australian longitudinal study of aging" or "British Women's heart and health study" or "successful mental health aging" or "Generalised anxiety and depression impact survey" or "rhode island health interview survey" or "cross-sectional and longitudinal aging study" or "national health interview survey" or "behavioral risk factor surveillance system" or "british crime survey" or "french national longitudinal survey" or "age validation study" or "normative aging study" or "california men's health study" or "men born in 1914" or "women's health initiative observational cohort study" or "health and retirement study" or "massachusetts male aging study" or "european survey on aging" or "health, aging and body composition" or "Health ABC study" or "health and retirement survey" or "berlin aging study" or "helsinki health study" or "osaka university aged twin registry" or "australian national survey of mental health and wellbeing" or "cognitive function and aging study" or "MRC-CFAS" or "canadian study of health and aging" or "longitudinal study of aging danish twins" or "psychiatric morbidity survey of great britain" or "aging in manitoba study" or "aging, status, and the sense of control" or "survey of health, ageing and retirement in europe" or "caerphilly health and social needs study" or "copenhagen city heart study" or "NILS-LSA" or "great britain retirement and retirement plans survey" or "maastricht aging study" or "british psychiatric morbidity survey" or "longitudinal aging study" or "flint men's health study" or (national population health survey adj2 canada) or "women's health initiative observational study").ti,ab.
- 97 or/91-96

Applying limits

- 98 ((retrospective\$ adj2 review\$) or (case\$ adj2 review\$) or (patient\$ adj2 review\$) or (patient\$ adj2 chart\$) or (peer adj2 review\$) or (chart adj2 review\$) or (case\$ adj2 report\$) or (rat or rats or mouse or mice or hamster or hamsters or animal or animals or dog or dogs or cat or cats or bovine or sheep)).ti,ab,sh. or editorial.pt. or letter.pt.
- 99 19 and 90 and 97
- 10
0 99 not 98
- 10 (Algeria\$ or Egypt\$ or Liby\$ or Morocc\$ or Tunisia\$ or Western Sahara\$ or Angola\$ or Benin or
1 Botswana\$ or Burkina Faso or Burundi or Cameroon or Cape Verde or Central African Republic or

Chad or Comoros or Congo or Djibouti or Eritrea or Ethiopia\$ or Gabon or Gambia\$ or Ghana or Guinea or Kenya\$ or Lesotho or Liberia or Madagascas\$ or Malawi or Mali or Mauritania or Mauritius or Mayotte or Mozambique\$ or Namibia\$ or Niger or Nigeria or Reunion or Rwanda\$ or Saint Helena or Senegal or Seychelles or Sierra Leone or Somalia or South Africa\$ or Sudan or Swaziland or Tanzania or Togo or Uganda\$ or Zambia\$ or Zimbabwe\$ or China or Chinese or Hong Kong or Macao or Mongolia\$ or Taiwan\$ or Belarus or Moldova\$ or Russia\$ or Ukraine or Afghanistan or Armenia\$ or Azerbaijan or Bahrain or Cyprus or Cypriot or Georgia\$ or Iran or Iraq or Israel\$ or Jordan\$ or Kazakhstan or Kuwait or Kyrgyzstan or Lebanon\$ or Oman or Pakistan\$ or Palestine\$ or Qatar or Saudi Arabia or Syria\$ or Tajikistan or Turkmenistan or United Arab Emirates or Uzbekistan or Yemen or Bangladesh\$ or Bhutan or British Indian Ocean Territory or Brunei Darussalam or Cambodia\$ or India or Indonesia\$ or Lao or People's Democratic Republic of Malaysia\$ or Maldives or Myanmar or Nepal or Philippines\$ or Singapore or Sri Lanka or Thailand\$ or Timor Leste or Vietnam or Albania\$ or Andorra or Bosnia\$ or Herzegovina\$ or Bulgaria\$ or Croatia\$ or Estonia or Faroe Islands or Greenland or Liechtenstein or Lithuania\$ or Macedonia or Malta or Maltese or Romania or Serbia\$ or Montenegro or Slovenia or Svalbard or Argentina\$ or Belize or Bolivia\$ or Brazil\$ or Chile or Chilean or Colombia\$ or Costa Rica\$ or Cuba or Ecuador or El Salvador or French Guiana or Guatemala\$ or Guyana or Haiti or Honduras or Jamaica or Nicaragua\$ or Panama or Paraguay or Peru or Puerto Rico or Suriname or Uruguay or Venezuela or developing countries\$ or South America\$).ti.

10
2 100 not 101

10
3 limit 102 to humans

10
4 limit 103 to yr="2000 - 2009"

10
5 limit 105 to english language

10
7 remove duplicates from 105

Appendix 3: Data Audit Form

Reference number:

GENERAL INFORMATION <i>(description of study, objective and topics covered):</i>	
Title and year published <i>(citation, list <u>all</u> authors):</i>	Funder
Source of Data and Year Undertaken <i>(include name and type of study e.g. 'general household survey, cross-sectional survey'):</i>	Author Organisation(s):
Wales Specific Data <i>(delete as appropriate and list countries/region)</i> Wales only [] Wales and other countries [] Other UK countries [] Non-UK []	Type of Data <i>(delete as appropriate):</i> Qualitative / Quantitative
Theme <i>(name the Monitor chapter and where possible the number of the subheading. E.g. 'Participation. 10'):</i>	
Methodology <i>(Brief description only – i.e. summary of aims and objectives and where possible sample size, sampling and setting):</i>	
Data Issues – Quality and Limitations:	
Key Findings <i>(Comprehensive findings and include authors conclusions):</i>	
Demographic details Age group(s) covered: Location (country, region): Gender: Ethnicity: Socioeconomic data: Additional notes:	
Link <i>(url):</i>	

Appendix 4: Critical appraisal checklists

Questions to assist with the critical appraisal of a Qualitative study

Adapted from the Critical Appraisal Skills Programme questions (CASP, Anglia and Oxford RHA, adapted from Mays N & Pope C. Rigour and Qualitative research. *British Medical Journal*. 1995; **311**: 109-112); North Thames Research Appraisal Group (NTRAG): 1998 Critical review form for reading a paper describing Qualitative research and Barker, JM. Project for the enhancement of the Welsh Protocols for Investment in Health Gain. Project Methodology. Cardiff: Duthie Library. UWCM, 1996.

Paper details **Authors:**
Title: **Source**

A What is this paper about?

	Yes	Can't tell	No
1. Is the study relevant to your research question?	continue		discard
2. Does the paper address a clearly focused issue?			
Are the aims of the investigation clearly stated?			

B/ Do you trust it?

	Yes	Can't tell	No
3. Is the choice of a Qualitative method appropriate?			
<ul style="list-style-type: none"> • What was this study exploring (eg behaviour/reasoning/beliefs)? • Do you think a Quantitative approach could have equally/better addressed this issue? 			
4. Was the author's position clearly stated?			
<ul style="list-style-type: none"> • Has the researcher described his/her perspective? • Has the researcher examined his/her role, potential bias and influence? 			
5. Was the sampling strategy clearly described and justified?			
Check to see whether: <ul style="list-style-type: none"> • the method of sampling is stated or described • the investigators sampled the most useful or productive range of individuals and settings relevant to their question • the characteristics of those included in the study are defined (and are comparable to the wider population) 			
6. Was there an adequate description of the method of data collection given?			
<ul style="list-style-type: none"> • Is the method of data collection described and justified? • How were the data collected (eg audiotape/videotape/field notes)? • If interviews were used, were the questions pre-tested? • If observation was used, is the context described and were observations made in a variety of circumstances? 			

	Yes	Can't tell	No
<p>7. Were the procedures for data analysis/interpretation described and justified?</p> <p>Check to see whether:</p> <ul style="list-style-type: none"> • a description is given of how the themes and concepts were identified in the data • the analysis was performed by more than one researcher • negative/discrepant results were taken into account • the data were fed back to the participants for comment 			

C/ What did they find?

<p>8. What are the primary findings?</p> <p>Consider whether the results:</p> <ul style="list-style-type: none"> • address the research question • are likely to be clinically important 	<p><i>Please note to avoid duplication with audit forms this section will not be completed</i></p>		
	Yes	Can't tell	No
<p>9. Are the results credible?</p> <ul style="list-style-type: none"> • Were sequences from the original data presented (eg quotations) and were these fairly selected? • Is it possible to determine the source of the data presented (eg numbering of extracts)? • How much of the information collected is available for independent assessment? • Are the explanations for the results plausible and coherent? • Are the results of the study compared with those from other studies? 			

D/ Are the results relevant locally?

	Yes	Can't tell	No
<p>10. Can the results be applied to the local situation?</p> <ul style="list-style-type: none"> • Consider differences between the local and study populations (eg cultural, geographical, ethical) which could affect the relevance of the study. 			
<p>11. Were all important outcomes/results considered?</p>			
<p>12. Accept for further use as Qualitative study evidence?</p>			

Comments:

Questions to assist with the critical appraisal of an observational study eg cohort, case-control, cross-sectional. (Type IV evidence)

Sources used: Critical Appraisal Skills Programme (CASP, Anglia and Oxford RHA) questions and Polgar A, Thomas SA. Chapter 22. Critical evaluation of published research in Introduction to research in the health sciences. 3rd edition. Melbourne: Churchill Livingstone, 1995; Undertaking systematic reviews of research on effectiveness. University of York: NHS Centre for Reviews & Dissemination, 2001; Weightman AL, Barker, JM, Lancaster J. Health Evidence Bulletins Wales Project Methodology 3. Cardiff: UWCM, 2000.

Paper citation:

A/ What is this paper about?

	Yes	Can't tell	No
1. Is the study relevant to the needs of the Project?			
2. Does the paper address a clearly focused issue?			
in terms of ...			
• The population studied?			
• (case-control study only) Is the case definition explicit and confirmed?			
• The outcomes considered?			
• Are the aims of the investigation clearly stated?			

3. Is the choice of study method appropriate?			
4. Is the population studied appropriate?			
• (x-sec study) Was the sample representative of its target population?			
• (cohort study) Was an appropriate control group used – ie were groups comparable on important confounding factors?			
• (case-control study) Were the controls randomly selected from the same population as the cases?			
5. Is confounding and bias considered?			
• Have all possible explanations of the effects been considered?			
• (cohort study) Were the assessors blind to the different groups?			
• (cohort study) Could selective drop out explain the effect?			
• (x-sec study) Did the study achieve a good response rate?			
• (x-sec study) Were rigorous processes used to develop the questions? (e.g. were the questions piloted/validated?)			

<ul style="list-style-type: none"> (case-control study) How comparable are the cases and controls with respect to potential confounding factors? 	
<ul style="list-style-type: none"> (case-control study) Were interventions and other exposures Assessed in the same way for cases and controls? 	
6. (Cohort study) Was follow up for long enough?	
<ul style="list-style-type: none"> Could all likely effects have appeared in the time scale? 	
<ul style="list-style-type: none"> Could the effect be transitory? 	
<ul style="list-style-type: none"> Was follow up sufficiently complete? 	
<ul style="list-style-type: none"> Was dose response demonstrated? 	

C/ What did they find?

	Yes	Can't tell	No
7. Are tables/graphs adequately labelled and understandable?			
8. Are you confident with the authors' choice and use of statistical methods, if employed?			
9. What are the results of this piece of research? <i>Please note to avoid duplication with audit forms this section will not be completed</i>			

D/ Are the results relevant locally?

	Yes	Can't tell	No
10. Can the results be applied to the local situation? Consider differences between the local and study populations (eg cultural, geographical, ethical) which could affect the relevance of the study.			
11. Were all important outcomes/results considered?			
12. Is any cost-information provided?			
13. Accept for further use as Type IV evidence?			

Comments: