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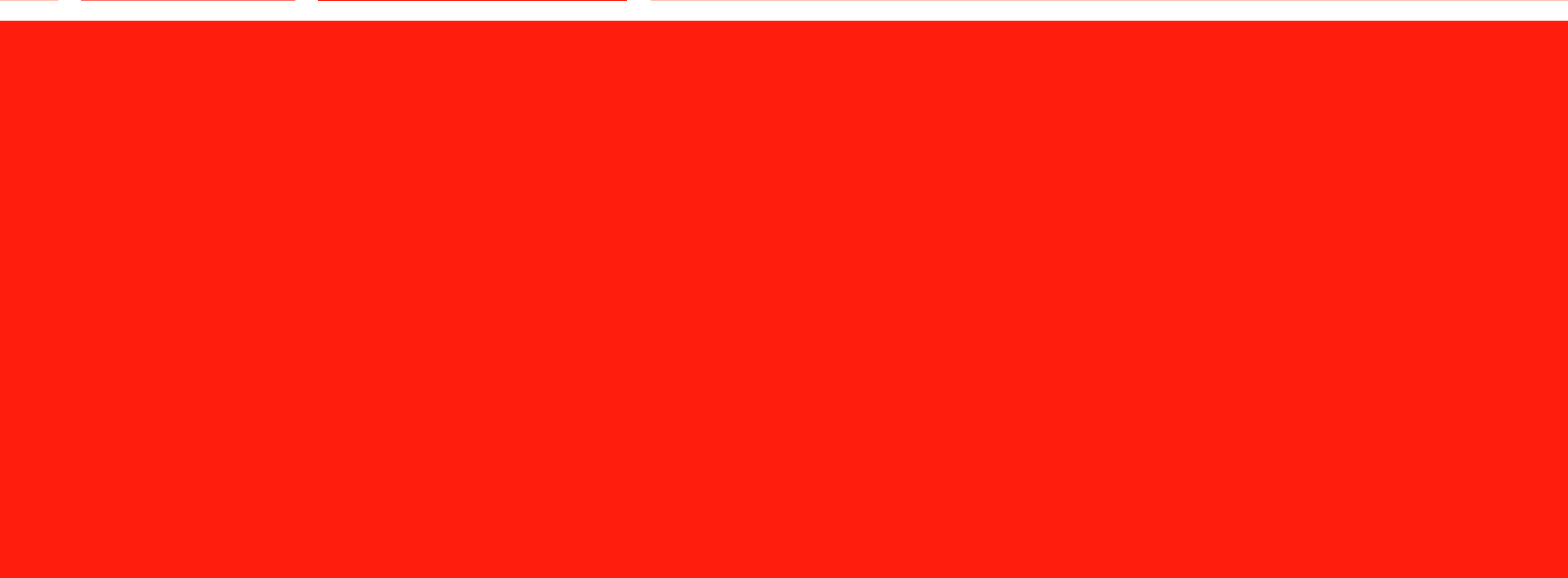
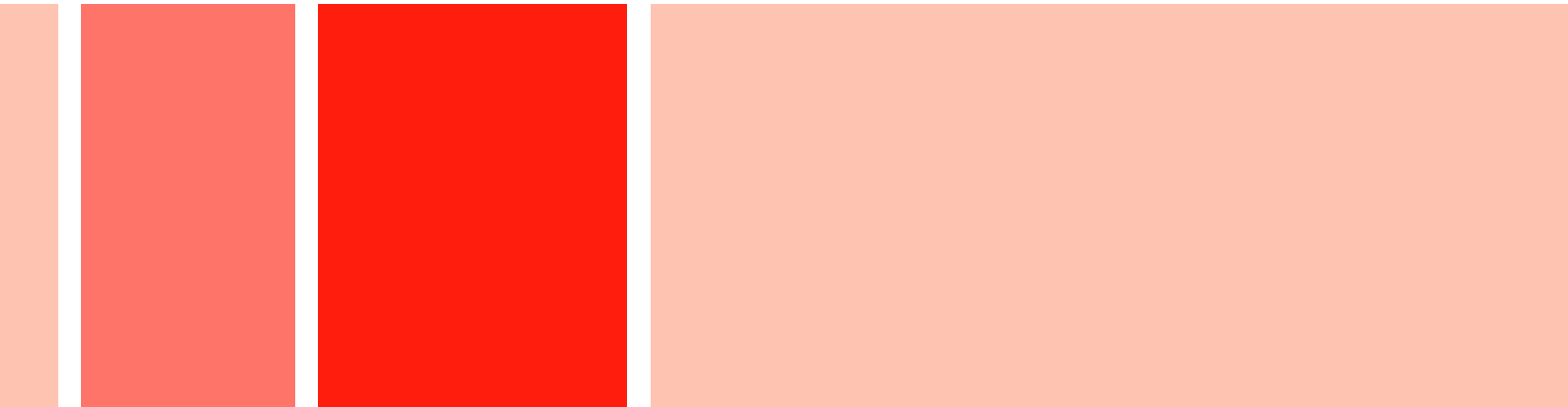
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Children and Young People's Wellbeing Monitor for Wales: Evidence Review



Children and Young People's Wellbeing Monitor for Wales: Evidence Review

Report prepared on behalf of the Welsh Assembly
Government Social Research Division



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Views expressed in this report are those of the researcher and not necessarily those of the Welsh Assembly Government

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Children and Young People's Wellbeing Monitor for Wales: Evidence Review

1. Background

The Welsh Assembly Government has adopted the United Nations Convention of the Rights of the Child (UNCRC) as the basis for all of its policies and programmes for children and young people in Wales. The Assembly Government has translated the UNCRC into seven core aims:

- Core Aim 1 Every child should have a flying start in life and the best possible basis for their future growth and development.
- Core Aim 2 Every child and young person should have access to a comprehensive range of education, training and learning opportunities, including the acquisition of essential personal and social skills.
- Core Aim 3 Every child should enjoy the best possible physical and mental, social and emotional health, including freedom from abuse, victimisation and exploitation.
- Core Aim 4 All children should have access to play, leisure, sporting and cultural activities.
- Core Aim 5 All children and young people should be listened to, treated with respect and have their race and cultural identity recognised.
- Core Aim 6 All children and young people should have a safe home and community which supports physical and emotional wellbeing.
- Core Aim 7 No child or young person should be disadvantaged by poverty.

In 2008, the Assembly Government published the first Children and Young People's Wellbeing Monitor for Wales¹, reporting on a variety of health and wellbeing indicators and research evidence structured around the core aims.

The Support Unit for Research Evidence was commissioned to undertake a comprehensive evidence review of relevant research, in order to inform and support development of the 2011 Monitor.

Project Objectives

The objectives of the evidence review were to:

¹ Welsh Assembly Government. 2008 *Children and Young People's Well-being Monitor for Wales*. November 2008.

- I. Develop a search strategy.
- II. Search the literature.
- III. Critically appraise appropriate studies that meet defined inclusion criteria.
- IV. Summarise the literature in data audit forms.
- V. Provide the completed data audit forms and a final report to the Client.

2. Methods

2.1 Inclusion Criteria

Topics and Population of interest

The review aimed to identify observational research on the wellbeing of children and young people (aged between 0-25 years), that related to the seven core aims presented in section 1. A schema was devised and agreed with the Client to outline the type of information the evidence review should seek to identify for each core aim. Particular emphasis was placed on seeking research to address evidence gaps identified in the 2008 Monitor. Data already available to the Monitor authors was not covered by the evidence review (e.g. studies recently commissioned by the Assembly Government to address the core aims, or data provided by the Statistics for Wales). This data was outlined in the agreed Schema.

Study Design, Country of Origin, Date and Language Range

Quantitative, qualitative, or mixed method observational studies were eligible for inclusion.

Systematic reviews of these study designs were also included. To be considered eligible, the review reports needed to include a search strategy, present the results of the included studies and assess their quality.

Quantitative studies were restricted to a sample size of 200 participants or more, whereas qualitative studies of any sample size were considered. Case series, case reports, discussion papers, editorials and letters were excluded along with studies only available as an abstract.

To maximise generalisability to a Welsh setting, systematic reviews were considered if they included at least one recent UK study; and observational primary studies were eligible if they included Wales-based data. Publications that did not identify where the research was conducted, but met all remaining criteria, were included.

Where more than one study was identified for a given topic, a 'best available' evidence approach was taken to populate the review. This considered the reliability and generalisability of the evidence identified. For example if a relevant systematic review addressed a specific area, further papers reporting single primary studies were not included.

The review was confined to English or Welsh language studies published from 2003 to date. Furthermore, to ensure findings were based on recent research, studies were excluded if they only covered data prior to 2000.

2.2 Search Strategy

A comprehensive literature search across all topic areas was conducted between March and May 2010. Previous research has shown that a range of databases should

be searched to obtain good sensitivity for topics relating to the health of the public^{2,3}. It was also anticipated that there was likely to be rich data from the wealth of grey literature reports produced by governmental and non-governmental organisations and charities. These were identified through searching grey literature databases, and a wide range of relevant websites.

Information Sources

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

Databases	
General Health/Biomedical	British Nursing Index Medline Medline in Process Embase
Social Care and Social Sciences	ASSIA Social Science Citation Index Social Care Online Sociological Abstracts
Specialist	ERIC (Education research literature) PsycINFO (Psychological literature)
Grey Literature	Health Management Information Consortium (HMIC) Open SIGLE
Websites	
Children's Organisations	Barnardo's Childline Children in Wales Dept for Children, Schools and Families/Department for Education Healthy Schools Programme (NHSP) National Children's Bureau NSPCC Princes Trust Save the Children The Children's Society UNICEF Wales Childrens Commissioner Funky Dragon
Cross-cutting websites	Welsh Assembly Government (including Children, Education, Lifelong Learning and Skills; Health and Social Services; Social Justice and Local Government; Equality; Housing)
Education	Future Skills Wales General Teaching Council (Wales)

² Weaver N, Williams JL, Weightman AL et al. 2002. 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*. 56, pp. 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).

	HEFCW Qualifications and Curriculum Development Agency Quality Assurance Agency for Higher Education (QAA) – most stuff from: Centre for Research on the Wider Benefits of Learning so searched the site OFSTED Estyn
Health	Department of Health Health Behaviour in School Aged Children website - http://www.hbsc.org/publications.html
Sport and Leisure	Sports Council (Wales)
Social Research and Social Care	EPPI Centre Evidence Library (systematic reviews) Joseph Rowntree Foundation Nuffield Foundation
Work	Department for Work and Pensions
Crime	Youth Justice Board
Human Rights and Consumer issues	The Bevan Foundation Consumer Focus Equality and Human Rights Commission (EHRC) OFCOM

Database Search Terms

The search strategy was designed to identify papers relating to the 2008 Monitor chapters and corresponding seven core aims.

The search strategy was developed in Medline, and tested and refined against relevant papers. The final strategy was then adapted to the remaining databases.

The Medline search strategy, using MeSH subject headings and search fields for text words in titles and abstracts, is presented in appendix 2. The search combined three main key concepts (Population, Study Design and Topic). A filter to remove primary studies conducted in non-UK countries was also applied. The list of search strategies used in all the databases are provided in the separate document entitled - 'Document B - Search History'.

2.3 Selection of Studies

Search results were downloaded into the bibliographic software Reference Manager for sifting. Duplicate references and clearly irrelevant citations were removed first. Systematic reviews and possible Wales-based primary studies were then screened for relevance at title and abstract stage. The full-text of the remaining potentially relevant papers was then screened. A short list of included studies was agreed by consensus within the SURE team. The Social Research Division and the authors of the Monitor chapters were then consulted to select the final list of papers for data extraction. The results of the screening process, including an illustrative flow diagram are shown in 3.1.

2.4 Completion of Data Audit Forms

Data audit forms (DAFs) were developed using Microsoft InfoPath. Data from the full text of each included paper were extracted into the data audit forms. All data audit forms were then completed by one reviewer and checked by a second. See 'Document C – DAF' for a template of the data audit form.

The DAFs included a set of questions to assess the quality of the research study. The questions were adapted from study-specific critical appraisal checklists outlined in SURE's internationally recognised methodology⁴. A brief summary of the quality of the research was provided in the 'quality' section of the data audit form.

⁴ 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>

3. Results

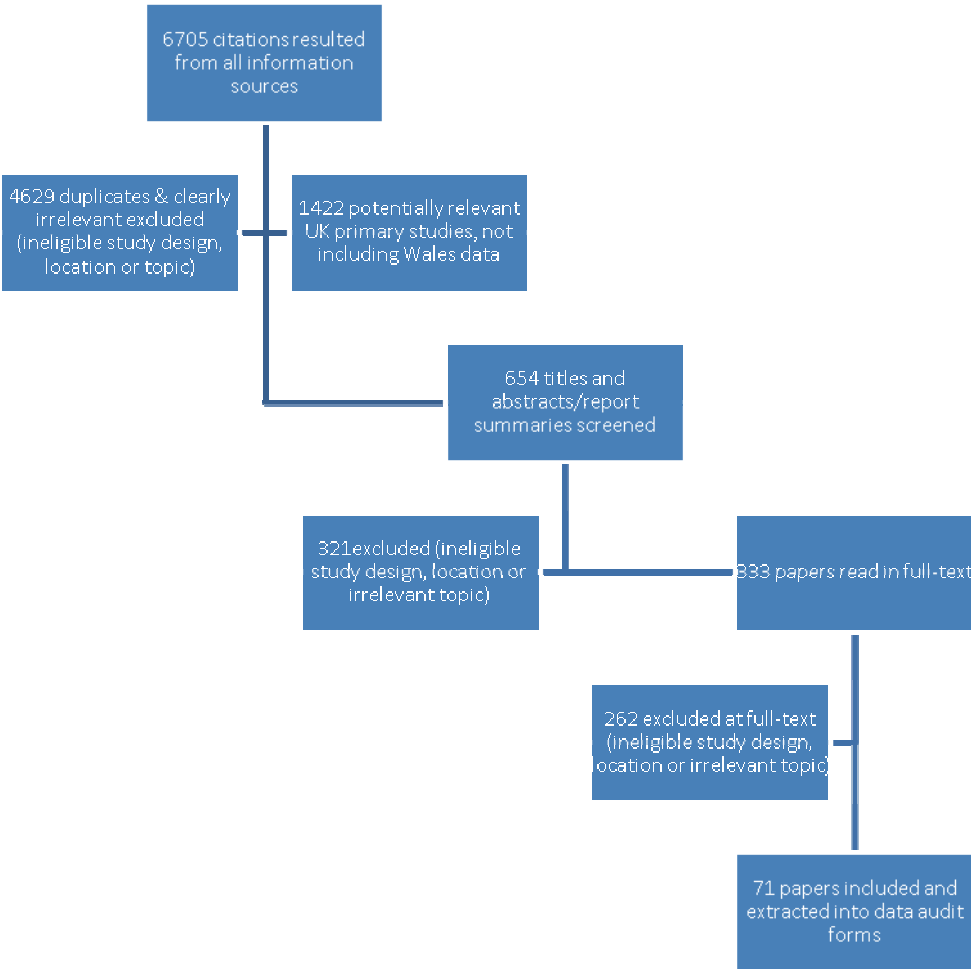
3.1 Search Results

The search resulted in 6,705 records identified from all information sources. This included 203 reports that were marked as potentially relevant, following comprehensive screening of publications hosted on the websites listed in section 2.2.

4,629 duplicates and clearly irrelevant citations were excluded (i.e. studies not conducted in Wales or the UK, editorials, letters and discussion papers). A further 1422 potentially relevant UK primary studies that did not include Wales based data were also removed.

654 potential systematic reviews or primary studies including data from Wales, were then sifted for further eligibility. 321 were excluded by reading the title, abstract or report summary. The full-text of 333 papers was screened for relevance (as outlined in the schema), eligible study design and location. The Monitor chapter authors and the Client were also consulted to agree the final 71 papers that were extracted into DAFs.

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



A summary of the included papers is provided in section 3.2 overleaf. The reference list of all included papers is provided in Section 4.

3.2 Table of Included Papers

Ref ID	Core Aim	Title	Publisher	Type of Data	Location (Country/region)	Further information
Ahmed 2009	CA 5	Seen and not heard: voices of young British Muslims	Policy Research Centre	Qualitative	UK - includes Wales	Focus groups with males and females aged 16-25 during October to August 2008.
Arnall 2009	CA 6	Girls and offending - patterns, perceptions and interventions	Youth Justice Board	Mixed methods	UK - includes Wales	Three strands of research conducted between March 2005 to April 2007: <ul style="list-style-type: none"> i. a systematic review ii. quantitative analysis of original and secondary data sets iii. qualitative research on eight gender-specific programmes in the community for girls.
Attree 2004	CA 7	Growing up in disadvantage: a systematic review of the qualitative evidence	Child: Care, Health and Development	Systematic review	Includes UK based primary studies	A systematic review of 9 qualitative studies (8 conducted in the UK).
Attree 2005	CA 3	Low-income mothers, nutrition and health: a systematic review of qualitative evidence.	Maternal and Child Nutrition	Systematic review	Includes UK based primary studies	A narrative systematic review of 11 UK qualitative studies.
Barter 2007	CA 3 & 6	Partner exploitation and violence in teenage intimate relationships	NSPCC	Mixed methods	UK - includes Wales	Includes <ul style="list-style-type: none"> i. Quantitative survey of 1353 young people (317 Welsh) from 8 schools in England, Scotland and Wales ii. 91 in depth interviews with school students at 5 of the 8 schools (included 6 Welsh interviewees)
Brown 2009	CA 1	Indices of Multiple Deprivation predict breastfeeding duration in England and Wales	European Journal of Public Health	Quantitative	UK - includes Wales	A retrospective questionnaire survey of 216 women with a child aged 6-24 months.
Brunton 2003	CA 4	Children and physical activity: a systematic review of barriers and facilitators	EPPI-Centre	Systematic review	Includes UK based primary studies	A narrative review of 90 studies; includes both qualitative and quantitative research in children aged

						4-10.
Bryson 2006	CA 7	Child care and early years provision in Wales - A study of parents' use, views and experiences.	Department for Training and Education	Quantitative	Wales only	Survey of 561 parents randomly selected from the Child Benefit records. All the parents selected had children aged 14 and under. Data collected between September 2004 and early January 2005.
Butler 2005	CA 5	Children and decision making	NCB	Qualitative	Wales only (study conducted in schools across South Wales)	Focus group discussions with 69 school children, and in-depth interviews with a further 48 children aged between 8 and 11 years. Data collected between February 2003 and June 2003.
Calder 2004	CA 2,5,6	Reaching the Hardest to Reach.	The Prince's Trust	Mixed methods	UK - includes Wales	More than 900 14-25 year olds were consulted using used quantitative and qualitative methods. The research covered four categories of disadvantaged young people: the unemployed, educational underachievers, ex-offenders and serving prisoners and those in or leaving care, aged 16-21.
Case 2008	CA 3	Factors shaping substance use by young people in Wales.	Journal of Substance Use	Quantitative	Wales only	Secondary data analysis of the HBSC 2002 cross-sectional survey (children aged 11-16).
Cazbah@workingword 2008	CA 2	National Behaviour and Attendance Review. Delivering children & young people focus groups as part of the National Behaviour & Attendance Review	Cazbah@working word	Qualitative	Wales only	Includes children and young people aged 7-18, across Wales. Specific populations were targeted, including those in alternative provision (such as Pupil Referral Units); children in the secure estate or working with youth offending teams; pupils with additional learning needs; disabled pupils; gypsy & traveller pupils; minority ethnic pupils;

						looked after children; and young parents.
Children's Commissioner for Wales 2009	CA 7	Full of care: Young carers in Wales	Children's Commissioner for Wales	Qualitative	Wales only (multiple locations across Wales)	Data gathered at Young Carer project meetings held in Brecon, Haverfordwest, Abergavenny, Neath, Swansea, Wrexham, Mountain Ash and Llandudno incorporating 19 of the 22 young carers projects in Wales.
Children's Commissioner for Wales 2009	CA 3	Bordering on Concern: Child Trafficking in Wales	Children's Commissioner for Wales	Mixed methods	Wales (Cardiff, Newport, Swansea and Wrexham)	Qualitative semi-structured interviews with practitioners from Local Authority Children's Social Services, voluntary sector and the Police were conducted between July-November 2008. Additional data from across Wales was gathered through telephone and written correspondence with Local Authorities Children's Services in Wales and key agencies involved with children or asylum seekers across Wales.
Coid 2010	CA 6	Violence and delayed social independence among young adult British men	Social Psychiatry & Psychiatric Epidemiology	Quantitative	UK - includes Wales	Secondary analysis of data subset from the 2000 Psychiatric Morbidity among Adults living in Private Households Survey.
Coleman 2007	CA 3	Changing the culture of young people's binge drinking: from motivations to practical solutions	Drugs: Education, Prevention and Policy	Qualitative	Wales only (Caerphilly Borough County)	Interviews and focus groups with young people (aged 18-25) who had experiences of binge drinking.
Day 2008	CA 6	A literature review into children abused and/or neglected prior custody.	Youth Justice Board	Systematic review	Includes UK based primary studies	Focuses on data published between 1995 & 2006

DCSF 2010	CA 6	Staying Safe Survey 2009: Young people and parents' attitudes around accidents, bullying and safety.	DCSF	Quantitative	UK - includes Wales	Quantitative research conducted among parents and carers of children aged 0 to 17, and among children and young people ages 12-17. Data collected between June and July 2009.
De Rodrigues 2006	CA 1	Learning difficulties in schoolchildren born with very low birth weight.	Jornal de Pediatria	Systematic review	Location of included studies is unclear.	A narrative systematic review of 18 controlled studies published between 1994 and 2004.
Edwards 2006	CA 6	Deaths from injury in children and employment status in family: analysis of trends in class specific death rates	BMJ	Quantitative	UK - includes Wales	Analysis of rates of death from injury in children (0-15 years) in England and Wales, during periods of four years around the 1981, 1991, and 2001 censuses obtained from ONS.
Feinstein 2006	CA 7	The prevalence of multiple deprivation for children in the UK: Analysis of the Millennium Cohort and Longitudinal Survey of Young People in England	Centre for Research on the Wider Benefits of Learning	Quantitative	UK - includes Wales	Analysis of (1) Millennium Cohort Study (MCS) carried out during 2001-2002. (2) National Longitudinal Survey of Young People in England (LSYPE) first sweep in 2004 up to 20,000 young people.
Ferguson 2006	CA 1 & 7	Social capital and children's wellbeing: a critical synthesis of the international social capital literature	International Journal of Social Welfare	Systematic review	Includes UK based primary studies	A narrative systematic review of 22 observational studies of multiple study types both prospective and retrospective. Literature search from 1980 (No end date given, but accepted for publication in October 2004)

Funky Dragon 2007a	CA 2 & 5	Our rights, our story	Funky Dragon	Mixed methods	Wales	Mixed methods research with young people (predominantly 11-18 year olds); including surveys with 10,035 young people and 140 workshops with 170 participants. 37 interviews were also conducted with young people from specific interest groups (e.g. young people with disabilities or long-term illness, young carers, black and ethnic minorities; Lesbian, Gay, Bi-Sexual, Transgender & Questioning; homeless, looked after, seeking asylum in Wales or young people who had been involved in the Youth Justice System).
Funky Dragon 2007b	CA 5	Why do people's ages go up and not down?	Funky Dragon	Mixed methods	Wales	Workshops with 2,525 children using open and closed questioning to collect quantitative and qualitative data for different topics.
Girlguiding UK, 2009	CA 5	Girls' attitudes	Girlguiding UK	Quantitative	UK - includes Wales	Survey of girls from across the United Kingdom aged 7-21 years on their attitudes towards key social, political and economic issues.
Goodman 2008	CA 3	Child mental health differences amongst ethnic groups in UK: A systematic review	BMC Public Health	Systematic review	UK - includes Wales	A systematic review of 49 observational studies published in the 20 years up to June 2007.
Harden 2009	CA 3	Teenage pregnancy and social disadvantage: systematic review integrating controlled trials and qualitative studies	BMJ	Systematic review	Includes UK primary studies	A systematic review including UK qualitative studies.
Harris 2009	CA 7	Below the headline: A year in the life of families in poverty	Barnado's Policy and Research Unit	Qualitative	UK - includes Wales	Qualitative research with 16 families over the course of one year, and writing up of six detailed case studies.
Hawkins 2009	CA 1	An ecological systems approach to examining risk factors for early childhood overweight: findings from the	Journal of Epidemiology & Community Health	Quantitative	UK - includes Wales	A nationally representative prospective cohort study (Millennium Cohort study) of children from all four UK countries.

		UK Millennium Cohort Study				
Hewett 2005	CA 4 & 5	Uncertain futures: Children seeking asylum in Wales	Wales Programme of Save the Children.	Qualitative	Wales (Cardiff, Newport, Swansea, Wrexham)	A mix of individual interviews and focus group discussions with professionals, and qualitative interviews with 47 children and young people.
Horta 2007	CA 1 & 3	Evidence on the long-term effects of breastfeeding: systematic review and meta-analyses.	World Health Organization	Systematic review	International - includes Wales	A systematic review of RCTs and observational studies published between 1966 and March 2006.
Imamura 2007	CA 3	Factors associated with teenage pregnancy in the European Union countries: A systematic review	European Journal of Public Health	Systematic review	Includes UK primary studies	A narrative systematic review of 20 observational studies.
Ino 2010	CA 1	Maternal smoking during pregnancy and offspring obesity: meta-analysis	Pediatrics International	Systematic review	Includes UK primary studies	A systematic review and meta-analysis of 17 studies.
Ip 2007	CA 1 & 3	Breastfeeding and Maternal and Infant Health Outcomes in Developed Countries	Agency for Healthcare Research and Quality	Systematic review	International - includes Wales	Systematic review including 86 primary studies and 29 systematic reviews or meta-analyses. Literature search to May 2006.
Kuntsche 2009a (Cannabis use)	CA 4	Decrease in adolescent cannabis use from 2002 to 2006 and links to evenings out with friends in 31 European and North American countries and regions	Archives of Pediatrics and Adolescent Medicine	Quantitative	International - includes Wales	Secondary data analysis of the HBSC repeated cross-sectional surveys (2002 and 2006) conducted in 31 countries..
Kuntsche 2009b (Electronic Media)	CA 4	Electronic media communication with friends from 2002 to 2006 and links to face-to-face contacts in adolescence: an HBSC study in 31 European and North American countries and regions	International Journal of Public Health	Quantitative	International - includes Wales	Analysis of HBSC data in 2002 and 2006.

Lewis 2007	CA 2	My school, my family, my life: Telling it like it is in Wales.	University of Birmingham	Mixed methods	Wales	Three linked research projects: i. postal survey to parents/parents (247 responses); ii. in-depth case studies (12) of disabled children; iii. focused group discussions with 40 young people with disabilities from across Wales.
Lumby 2009	CA 2	Youth Perspectives: Schooling, Capabilities Frameworks and Human Rights	International Journal of Inclusive Education	Qualitative	UK - includes Wales	Interviews and focus groups with young people (age 14-19), drawn from secondary schools, youth services, general further education and sixth form colleges. Recruited a profile of mixed gender, attainment or predicted attainment and ethnicity. Included young people who were not expected to or had not achieved five or more GCSEs at A*-C; and those suspended or excluded from school.
Marston 2006	CA 3	Factors that shape young people's sexual behaviour: a systematic review	The Lancet	Systematic review	Includes UK primary studies	Systematic review of qualitative studies.
Martenson 2008	CA 5	A review of children's decision-making competence in health care.	Journal of Clinical Nursing	Systematic review	Includes UK primary studies	Systematic review of quantitative and qualitative studies (4/11 qualitative studies were conducted in the UK). Literature search 1998 to July 2006.
Meltzer 2006	CA 3 & 6	Children's perceptions of neighbourhood trustworthiness and safety and their mental health	Journal of Child Psychology & Psychiatry & Allied Disciplines	Quantitative	UK - includes Wales	A cross-sectional survey with 3,340 children aged 11-16 in England, Wales and Scotland, sampled from the Child Benefit Register.
Moore 2007	CA 3	Associations between deprivation, attitudes towards eating breakfast and breakfast eating behaviours in 9-11-year-olds	Public Health Nutrition	Quantitative	Wales only	A cross-sectional survey of 4,211 children from 111 primary schools in Wales.

Mytton 2009	CA 6	Unintentional injuries in school-aged children and adolescents: lessons from a systematic review of cohort studies	Injury Prevention	Systematic review	International - includes Wales	A narrative systematic review of 18 prospective cohort studies (44 papers). Literature search up to 2006.
NCMA 2009	CA 7	Childcare for Disabled Children & Young People Research for NCMA Wales	National Childminding Association (NCMA) Wales	Qualitative	Wales only (Newport, Merthyr Tydfil and Powys)	Focus groups and interviews of 97 parents of disabled children in Newport, Merthyr Tydfil and Powys.
Newman 2006	CA 2	Does Secondary School Size Make a Difference? A Systematic Review	Educational Research Review	Systematic review	Includes UK primary studies	A narrative systematic review of 31 studies.
Ofcom 2009	CA 4	UK Children's Media Literacy: 2009 interim report	Ofcom	Quantitative	UK - includes Wales	Wave 1 of the Media Literacy Tracker Survey conducted between April to May 2009. Cross-sectional quantitative survey data based on 1,044 in-home interviews with parents and children aged 5-15.
Park 2004	CA 2 & 5	Young people in UK: the attitudes and experiences of 12-19 year olds: research brief	Department for Education and Skills	Quantitative	UK - includes Wales	Young People's Attitudes survey of 12-19 year olds, conducted between June 2003-September 2003.
Pearson 2009	CA 3	Family correlates of fruit and vegetable consumption in children and adolescents: A systematic review	Public Health Nutrition	Systematic review	Includes UK primary studies	A narrative systematic review of 60 observational studies.
Phillips 2008a Edu	CA 6	MORI Youth Survey 2008: Young people In Mainstream education	Youth Justice Board	Quantitative	UK - includes Wales	2008 Youth Survey. A total of 4,750 pupils across year groups 7–11 (aged 11–16) completed questionnaires. The research was conducted between January and April 2008 in 194 schools across England and Wales.
Phillips 2008b PRU	CA 6	MORI Youth Survey 2008: Young people In pupil referral units	Youth Justice Board	Quantitative	UK - includes Wales	A cross-sectional survey conducted in Pupil Referral Units (PRUs). 914 excluded young people in 127 PRUs participated. Fieldwork 21 January - 11

						April 2008.
Pithouse 2007	CA 5	National standards in children's advocacy - what do young people say?	Child Care in Practice	Qualitative	Wales only	Six focus groups and semi-structured interviews, 62 and 23 participants respectively. Data collected 2004/05.
Platt 2005	CA 7	New Destinations? Assessing the Post-Migration Social Mobility of Minority Ethnic Groups in England and Wales	Social Policy and Administration	Quantitative	UK - includes Wales	Secondary data analysis on a cohort of ONS Longitudinal Study (LS). members who were aged from 4-15 years.
Platt 2007	CA 7	Making education count: the effects of ethnicity and qualifications on intergenerational social class mobility	The Sociological Review	Quantitative	UK - includes Wales	Secondary data analysis on a cohort of ONS Longitudinal Study (LS). members who were aged from 4-15 years.
Rees 2006	CA 4	Young people and physical activity: A systematic review matching their views to effective interventions	Health Education Research	Systematic review	Includes UK and Wales primary studies	Systematic review of world-wide research on interventions to increase physical activity and UK based qualitative or survey research to assess the barriers and facilitators of physical activity in young people.
Rees 2009	CA 3	Children's views about obesity, body size, shape and weight: a systematic review	EPPI Centre	Systematic review	Includes UK primary studies	A mixed methods systematic review of 38 reports of 27 studies.
Salmasi 2010	CA 1 & 6	Environmental tobacco smoke exposure and perinatal outcomes: a systematic review and meta-analyses	Acta Obstetrica et Gynecologica Scandinavica	Systematic review	Includes UK primary studies	A systematic review and meta-analysis of 76 papers. Mix of prospective and retrospective cohort studies plus case control studies.
Scourfield 2005	CA 5	The negotiation of minority ethnic identities in virtually all-white communities: research with children and their families in the South Wales valleys	Children and Society	Qualitative	Wales only (Rhondda Cynon Taff, Merthyr Tydfil and Caerphilly)	Semi-structured interviews with 19 children aged 8-17.

Singh 2008	CA 3	Tracking of childhood overweight into adulthood: A systematic review of the literature	Obesity Reviews	Systematic review	Location of included studies is unclear	A narrative systematic review of 18 prospective and retrospective longitudinal studies.
Smith 2005	CA 2	A systematic review of what pupils, aged 11-16, believe impacts on their motivation to learn in the classroom	EPPI-Centre	Systematic review	Includes UK primary studies	Systematic review of qualitative studies.
Stith 2009	CA 3	Risk factors in child maltreatment: A meta-analytic review of the literature	Aggression and Violent Behavior	Systematic review	Location of included studies is unclear	A systematic review of 155 with a series of sub-group meta-analyses.
Thomas 2007	CA 6	Accidental injury, risk-taking behaviour and the social circumstances in which young people live: a systematic review	EPPI-Centre	Systematic review	Includes UK studies	A systematic review of 143 studies incorporating both qualitative and quantitative data. Findings from the qualitative data were discussed with two London-based focus groups of young people.
Thompson 2009	CA 2	Social class and participation in further education: Evidence from the Youth Cohort Study of England and Wales	British Journal of Sociology of Education	Quantitative	UK - includes Wales	Analysis of sweep 1 (March-June 2004) of the 11th cohort from the YCS, including 16,707 young people aged 16-17 (15,890 from England and 817 from Wales).
Torgerson 2008	CA 2	What are the factors that promote high post-16 participation of many minority ethnic groups? A focused review of the UK-based aspirations literature	EPPI-Centre	Systematic review	Includes UK based studies	Systematic review of 23 studies of two distinct study designs: secondary data analyses and cross-sectional/views studies.
Tripney 2009	CA 7	In-work poverty: a systematic review	Department for Work and Pensions	Systematic review	Includes UK based studies	Systematic review of English language studies only.
Tucker 2008	CA 4	The physical activity levels of preschool-aged children: A systematic review	Early Childhood Research Quarterly	Systematic review	Includes UK based studies	A systematic review of 39 studies in children aged 2-6 years old. Literature searched between 1980 and 2007.

Turner 2003	CA 5	Are You Listening? What disabled children and young people in Wales think about the services they use	Welsh Assembly Government	Qualitative	Wales only (rural and urban areas of North and South Wales)	Qualitative study with 105 disabled children and young people between April and August 2003, in rural and urban areas of North and South Wales.
Welsh Assembly Government 2003	CA 2 & 5	The achievement of ethnic minority pupils in Wales. An EALAW Research Report for the Welsh Assembly Government	Welsh Assembly Government	Quantitative	Wales only	Information about numbers, distribution and EAL stages of ethnic minority pupils was received from all 22 local authorities in Wales. Fieldwork to collect specific pupil data or carry out interviews was carried out in 19/22 authorities.
Welsh Assembly Government 2009	CA 6	All-Wales survey of bullying in schools	Welsh Assembly Government	Quantitative	Wales only	Survey of 7,398 pupils (in years 4,6,7 and 10) from 162 schools and 5 pupil referral units. The survey was conducted between April 2009 and July 2009.
Weightman 2008	CA 1 & 3	Social determinants for child health	Welsh Assembly Government	Systematic review	UK - includes Wales	A narrative systematic review of prospective cohort and case control studies published between 1994 and 2007.
Youth Justice Board 2006	CA 2	Barriers to engagement in education, training and employment	Youth Justice Board	Mixed methods	UK - includes Wales	Mixed methods comprising: a census survey of young people in the youth justice system of England and Wales - and interviews with young people across prevention, custody and community settings with 50 identified and 22 followed for second interview.

Young 2007	CA 6	Groups, gangs and weapons	Youth Justice Board	Mixed methods	UK - includes Wales	Mixed methods, including: i. survey of youth offending team (YOT) managers ii. interviews with practitioners working with young people who had offended or were at risk of doing so; young men identified as having been involved in group offending, and some of their parents/carers; young women identified as having been involved in group offending. iii. ethnographic study based on eight young men from one area who were known to be involved in local gangs.
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4. Reference list of included studies

- Ahmed S. 2009. *Seen and Not Heard: Voices of Young British Muslims*. Policy Research Centre.
- Arnull E, Eagle S. 2009. *Girls and Offending - Patterns, Perceptions and Interventions*. Youth Justice Board.
- Attree P. 2005. Low-Income Mothers, Nutrition and Health: A Systematic Review of Qualitative Evidence. *Maternal and Child Nutrition*. 1(4) pp. 227-240.
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Appendix 1 –Schema Example

Example of topic schema used for identifying relevant papers. The section below relates to Core Aim 6.

2008 Monitor section & core aim	Subheading	Include:
9.1 Safe from crime and its effects CA6: crime	Children and young people as victims of crime in Wales	Extent to which children are the victims of crime Views of children on their community and local environment Children's views on how they define a safe community
	Juvenile offending in Wales	Juvenile offences (including anti-social behaviour) for special populations Factors associated with offending in children and young people (including determinants of anti-social behaviour) Children and young people's views on reasons for juvenile offending
	Antisocial behaviour	Factors associated with anti-social behaviour Children and young people's views regarding causes of anti-social behaviour
	Re-offending	Reoffending rates for children in Wales, particularly data for special populations Children and young people's views on reasons for reoffending or not
9.2 Safe from injury and death from preventable accidents CA6: accidents	Road traffic injuries Pedestrian injuries Injuries and poisoning	Social determinants of preventable injuries Rates in special populations
9.3 Safe from bullying CA6: bullying	Bullying among children in Wales (includes physical, verbal or indirect [exclusion from social groups, cyberbullying etc])	Factors associated with/social determinants of bullying (either bully or victim) Qualitative studies with children regarding experiences of bullying and its causes
9.4 Safe from environmental pollution CA6: pollution		Consider all data regarding the extent to which children in Wales are free from environmental harm (information gap in 2008 Monitor) Data regarding exposure to environmental pollutants

9.5 Living in a decent home CA6: housing	Homelessness Youth Homelessness Temporary accommodation Families living in over-crowded conditions	Rates of homelessness/temporary accommodation/overcrowding in special populations Reasons for homelessness/temporary accommodation/overcrowding Factors associated with homelessness/temporary accommodation/overcrowding
	Housing conditions Fuel poverty	Housing experiences of different groups of children in Wales (i.e. special populations) Factors associated with poor housing conditions/fuel poverty

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.

(Scope of Information)	
1	(access\$ or avail\$ or inaccess\$ or unavail\$).ti,ab.
2	(Enabler\$ or facilitate or facilitates or facilitator\$1 or barrier\$1 or obstacle\$1 or difficulties or assist\$).ti,ab.
3	(Incidence\$1 or prevalence\$1 or attend\$ or uptake\$1 or rate or rates or trend or trends or level\$1 or tak\$ up).ti,ab.
4	(Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or caus\$ or consequence\$ or future life or life chance\$ or health prospect\$1 or prospective health or life opportunit\$ or future prospect\$1 or life expectancy or social mobility or life success or succeed\$ in life or education\$ attainment or education\$ achieve\$ or career success\$ or adult health or adult wellbeing or future wellbeing or lifecourse).ti,ab.
5	(View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1).ti,ab.
6	or/1-5
General Children's wellbeing (failsafe terms)	
7	((early years or baby or babies or infant\$1 or kid\$1 or child or children or toddler\$1 or teen\$ or adolescent\$1 or youth or youngster\$1 or young people or girl\$1 or boy\$1) adj2 (wellbeing or well being or life chance\$1 or prosper or social mobility or failure to thrive or feel loved or life satisfaction or happiness or lonel\$ or self esteem or malnourish\$ or nourish\$ or Disable\$1 or disability\$ or long term illness\$ or chronic illness\$ or chronic disease\$1)).ti,ab.
Core Aim 1: Flying start in life and the best possible basis for their future growth	
4.1 Physical health 4.2 Well nourished through birth and the early years 4.3 developmental milestones	

4.4 Special needs in early years	
4.5 Good and secure attachments in early years	
8	((Low birth weight or still birth or neonatal death or perinatal mortality or perinatal death or neonatal mortality or infant mortality or infant survival or morbidity) adj3 (Incidence\$1 or prevalence\$1 or rate or rates or trend\$ or level\$1)) and (asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
9	((Low birth weight or still birth or neonatal death or perinatal mortality or perinatal death or neonatal mortality or infant mortality or infant survival or morbidity) adj3 (View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or thoughts or Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1)).ti,ab.
10	((Low birth weight or premature birth) adj10 (consequence\$ or future life or life chance\$ or health prospect\$1 or prospective health or life opportunit\$ or future prospect\$1 or life expectancy or social mobility or life success or succeed\$ in life or education\$ attainment or education\$ achieve\$ or career success\$ or adult health or adult wellbeing or future wellbeing or lifecourse)).ti,ab.
11	((Immunis\$ or jab or vaccin\$) adj2 (measles or mumps or rubella or polio or pertussis or whooping cough or diphtheria or tetanus or haemophilus or influenz\$ or MMR or meningitis or combined or preventable or communicable) adj5 (Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or coverage or uptake\$1 or rate or rates or trend\$ or level\$1 or tak\$ up or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or barrier\$1 or facilitator\$1 or enabler\$1 or obstacle\$)).ti,ab.
12	((pregnan\$ or maternal) adj2 (smoking or smoke\$2 or alcohol\$3 or drug\$1 abuse or drug\$1 misuse or illegal drug\$1 or tobacco or substance misuse or substance abuse or cannabis\$ or cocaine\$ or heroin or ecstasy or hallucinogenic or hallucinogen or LSD or needle user\$1 or needle injector\$1)).ti,ab.
13	((breast fed or Breastfed or breast feed\$ or breastfeed\$ or infant feeding) adj3 (enabler\$ or barrier\$ or facilitat\$ or obstacle\$ or rate or rates or trend\$ or level\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$ or perceive\$ or perception\$1 or determinant\$1 or predictor\$1)).ti,ab.
14	((breast fed or Breastfed or breast feed\$ or breastfeed\$ or infant feeding) adj3 (Incidence\$1 or prevalence\$1 or rate or rates or trend\$ or level\$1)) and (asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
15	((breast fed or Breastfed or breast feed\$ or breastfeed\$ or infant feeding) adj5 (future life or life chance\$ or health prospect\$1 or prospective health or life opportunit\$ or future prospect\$1 or lifecourse or life expectancy or social mobility or life success or succeed\$ in life or education\$ attainment or education\$ achieve\$ or career success\$ or adult health or adult wellbeing or future wellbeing or looked after children or foster children or children in care)).ti,ab.
16	((Early years or infant\$1 or baby or babies or toddler\$ or young children) adj4 (diet or diet\$ behavio*r\$4 or diet\$ intake or vegetable\$1 or fruit\$1 or malnourish\$ or mal nourish\$ or undernourish\$ or under nourish\$ or malnutrition or underweight or overweight or weight gain)) and (barrier\$1 or facilitator\$ or enabler\$ or predictor\$ or determinant\$ or caus\$)).ti,ab.
17	((Early years or infant\$1 or baby or babies or toddler\$ or young children or key stage 1) and (education\$ or low achiever\$ or high achiever\$ or literacy or pupil\$1 or school\$ or schola\$ or pedagog\$ or teaching quality or teacher quality or core subject indicator or national curriculum assessment\$)) adj5 (attain\$ or achiev\$ or perform\$ or literacy or develop\$ or language)).ti,ab.
18	(development\$ milestone\$ or development\$ goal\$1 or early learning milestone\$ or early learning

	goal\$.ti,ab.
19	((Early years or infant\$1 or baby or babies or toddler\$ or young children) adj3 (special need\$1 or special education\$ need\$1 or autism or autistic or learning difficult\$ or learning problem\$ or deaf\$ or sensory impairment\$ or behavi*r\$ problem\$ or behavi*r\$ difficult\$ or attention deficit)).ti,ab.
20	((Early years or infant\$1 or baby or babies or toddler\$ or young children or key stage 1) adj3 (personal develop\$ or social develop\$ or secure attachment\$ or family activit\$ or family play\$ or parenting time)).ti,ab.
21	((shared reading or Read\$ with or play with or write or writing or draw or drawing or home learn\$ or paint\$ or art or music or g#ve attention or time spen\$1 or hour\$ spen\$1 or engag\$ or disengage\$ or bond\$1 or interact\$ or connection\$1 or relationship\$) adj2 (child or children or son\$ or daughter\$)) and (mum or mums or mummy or daddy or dad\$1 or Mother\$1 or family or families or father\$1 or parent\$ or sibling)).ti,ab.
22	or/7-21
Core Aim 2: Access to a comprehensive range of education, training and learning	
5.2 Engages in full-time education	
5.3 Achieves early learning goals	
5.4 Achieving full potential (key stage 4, key skills, qualifications gained in year 13)	
5.5 People aged 16 to 19 purposefully engaged (further and higher education)	
23	((School\$1 or education\$ or curriculum or lessons or extracurricular or teacher\$1) adj3 (likes or love\$1 or enjoy\$ or dislike\$ or hate\$1 or satisfie\$1 or satisfaction or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or motivation or enthusiasm or thoughts or attitude\$1)).ti,ab.
24	(Teacher\$1 child\$1 relationship\$1 or like\$ teacher or dislike\$ teacher or career aspiration\$ or work aspiration\$).ti,ab.
25	((attendance or Absenteeism or unauthorised absence\$ or truancy or truant\$1 or school exclusion\$1 or excluded or suspended or engag\$ or disengag\$ or moving school\$ or chang\$ school\$ or activ\$ involv\$ or activ\$ participat\$ or participat\$ or remain\$3 or retention or retain\$ or self direct\$ or selfdirect\$) adj2 (pupil\$1 or school\$1 or education or schoolchildren or classroom\$ or learning)) and (asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care or Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or caus\$)).ti,ab.
26	((remain\$ or retain\$ or aspir\$ or goal\$1 or attend\$ or participat\$ or leave) adj2 (further education or secondary school\$ or college\$1 or University or Universities or diploma\$1 or vocational education\$ or vocational course\$ or vocation\$ qualification\$ or gnvq\$1 or nvq\$1 or sixth form or sixthform or work experience or vocation\$ training or GCSE or GCSEs or "A level\$1" or AS level\$1 or key stage 4 or qualification)).ti,ab.
27	(NEET or "not in education employment or training").ti,ab.
28	(academic aspiration\$ or school aspiration\$ or education\$ aspiration\$ or education\$ engage\$).ti,ab.
29	(Education\$ well being or education\$ wellbeing).ti,ab.
30	((education\$ or school or academic or schol\$) adj3 (attain\$ or achiev\$ or success\$)) and (asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care or determinant\$1 or predictor\$1 or caus\$ or barrier\$1 or facilitator\$ or enabler\$)).ti,ab.
31	or/23-30
Core Aim 3: Health, freedom from abuse and exploitation	
6.1 Health	

6.2 Lifestyle indicators	
6.3 Abuse, victimisation and exploitation	
32	((Dental health or oral health or dental caries or tooth decay or dmft or limiting long term illness or chronic illness or lti or ill health or poor health) adj3 (determinant\$1 or predictor\$1 or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
33	((malnutrition or malnourish\$ or Under nourished or under?nourished or food security or food insecurity or nutrit\$ deficit\$ or 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 diet\$ behavio#r\$ or eating behavio#r\$ or nutrient\$ intake or healthy eating) adj3 (babies or infant\$1 or kid\$1 or child or children or teen\$ or adolescent\$1 or youth or youngster\$1 or girl\$1 or boy\$1)).ti,ab.
34	((sex\$ activit\$ or sex\$ behavio*r\$ or condom\$1 or teen\$ pregnanc\$ or underage sex or safe sex or unprotected sex or protected sex) adj5 (determinant\$1 or predictor\$1 or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or "children in care" or determinant\$1 or predictor\$1 or caus\$ or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1)).ti,ab.
35	((Immunis\$ or jab or vaccin\$) adj2 (HPV or cervical cancer or papilloma or "td/ipv") adj5 (Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or coverage or uptake\$1 or rate or rates or trend\$ or level\$1 or tak\$ up or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or barrier\$1 or facilitator\$1 or enabler\$1)).ti,ab.
36	((Self reported health or subjective health or subjective wellbeing or subjective well being) adj5 (positive impact\$1 or negative impact\$1 or Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or caus\$ or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or barrier\$1 or facilitator\$1 or enabler\$1 or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
37	((self harm\$ or suicide or suicidal or self injur\$ or stress or mental disorder\$ or mental health or mental illness\$ or bipolar disorder\$ or depression or anxiety disorder\$ or schizophren\$) adj3 (positive impact\$1 or negative impact\$1 or Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or caus\$ or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or barrier\$1 or facilitator\$1 or enabler\$1 or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
38	((meal or vegetable or fruit) adj3 (consume\$1 or consumption or servings)).ti,ab.
39	(breakfast adj3 (consume\$1 or consumption or servings or School\$1 or morning\$ or eat\$ or ate or health\$ or nutritious\$ or balanced)).ti,ab.
40	(food services/ or menu planning/ or vegetables/ or food supply/) and (*adolescent/ or *child/ or *child, preschool/ or *infant/)
41	((over?weight or under?weight or obese or obesity or insufficient weight or sufficient weight or suitable weight or appropriate weight or low weight or inadequate weight or adequate weight) adj2 (babies or infant\$1 or kid\$1 or child or children or teen\$ or adolescent\$1 or youth or

	youngster\$1 or girl\$1 or boy\$1)).ti,ab.
42	((Smoker\$1 or smoke or cigarette\$1 or smoking) adj2 (kid\$1 or child or childhood or children or teen\$ or adolescent\$1 or youth or youngster\$1 or girl\$1 or boy\$1)).ti,ab.
43	((Drug\$1 abuse\$1 or drug misuse\$ or tak\$ drugs or took drugs or cannabis\$ or cocaine\$ or heroin or ecstasy or hallucinogenic or hallucinogen or LSD or needle injector\$ or needle user\$) adj2 (kid\$1 or child or childhood or children or teen\$ or adolescent\$1 or youth or youngster\$1 or girl\$1 or boy\$1)).ti,ab.
44	((Glue or solvent) adj2 (sniff\$ or inhal\$ or abuse\$)).ti,ab.
45	(38 or 39 or 40 or 41 or 42 or 43 or 44) and (determinant\$1 or predictor\$1 or caus\$ or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or barrier\$1 or facilitator\$1 or enabler\$1 or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care).ti,ab.
46	((Bullying or violence or ageism or human rights or freedom or dignity or dignified or Exploit\$ or child labo#r or child\$ neglect\$ or victimis\$ or physical abuse) adj3 (babies or infant\$1 or kid\$1 or child or children or teen\$ or adolescent\$1 or young people or young person\$1 or young adult\$1 or young men or young women\$ or youth or youngster\$1 or girl\$1 or boy\$1)).ti,ab.
47	(Children in need or child in need or child protection register\$).ti,ab.
48	age discriminat\$.ti,ab. or "discrimination (psychology)"/
49	((race or racial or gender or female or male or sexual or disability or disabled) adj2 (discriminat\$ or equality)).ti,ab.
50	((physical or mental or psychological or sexual) adj1 (abuse or abused or abusing or neglect or victimis\$ or exploit\$)).ti,ab.
51	(child abuse/ or child abuse, sexual/) and ((social care or social worker\$1 or social services or health professional or emergency department\$1 or GP\$1 or dentist\$1 or local authorit\$ or welfare service\$ or refuge) and (access\$ or inaccess\$ or availab\$ or unavailab\$ or help or identif\$3 or recognis\$ or opportun\$ or provision or provid\$ or quality or fail\$ or succeed\$ or success\$)).ti,ab.
52	((Child\$ abuse or child\$ neglect or child\$ exploit\$ or at risk child\$ or physical abuse) adj5 (determinant\$ or predictor\$ or caus\$ or consequence\$ or future life or life chance\$ or health prospect\$1 or prospective health or life opportunit\$ or future prospect\$1 or life expectancy or social mobility or life success or succeed\$ in life or education\$ attainment or education\$ achieve\$ or career success\$ or adult health or adult wellbeing or future wellbeing)).ti,ab.
53	32 or 33 or 34 or 35 or 36 or 37 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52
Core Aim 4: Access to play, leisure, sporting and cultural activities	
7.1 Play	
7.2 Sport and physical activity	
7.3 Leisure activities	
54	(Active play or unstructured activit\$ or free time activit\$ or free time activit\$ or leisure time activit\$ or unstructured leisure\$ or unstructured outdoor activit\$ or structured activit\$ or free play).ti,ab.
55	((Hanging out or chilling out or hanging about or roaming or hanging around) adj3 (friends or public space\$ or street\$1 or outdoor\$1 or home\$1)).ti,ab.
56	((play group\$ or play centre\$ or play center\$ or play ground\$ or playground\$ or playing field\$ or field\$1 or park\$1 or open area\$ or open space\$1 or outdoor space\$1 or outdoor area\$1 or outside space\$ or outside area\$1 or garden\$ or pitch or pitches) adj5 (access\$ or avail\$ or inaccess\$ or unavail\$ or opportunit\$ or provision or provid\$ or Enabler\$ or facilitate or facilitates or facilitator\$1 or barrier\$1 or obstacle\$1 or difficulties or engag\$ or disengage\$ or

	outreach)).ti,ab.
57	((skip\$ or skipping or jump\$1 or jumping or hopping) adj2 (play\$ or game\$ or playing or rope\$)).tw.
58	"Play and Playthings"/
59	(Play adj2 (family or friend\$ or sibling or peer\$)).ti,ab.
60	((sport\$1 or swim\$ or running or biking or bicycl\$ or bike\$ or rollerblading or rollerskating or skating or skateboard\$ or Judo or karate or martial art\$ or physical\$ activ\$ or physical\$ inactiv\$ or physical exercise\$ or sedentary or physical\$ literat\$ or outdoor activit\$ or leisure activit\$ or recreation\$ or regular\$ exercis\$3 or physical\$ exercis\$ or exercis\$ class\$ or keep\$ fit) adj3 (access\$ or avail\$ or inaccess\$ or unavail\$ or opportunit\$ or provision or provid\$ or Enabler\$ or facilitate or facilitates or facilitator\$1 or barrier\$1 or obstacle\$1 or difficulties or engag\$ or disengag\$ or outreach)).ti,ab.
61	walking bus\$1.ti,ab.
62	active travel.ti,ab.
63	((("Cycl\$ to" or bicyl\$ or bik\$ or walk\$ or travel\$ or transport\$) adj3 school\$1)).ti,ab.
64	bike bus\$.ti,ab.
65	physical\$ litera\$.ti,ab.
66	((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\$) adj2 (access\$ or avail\$ or inaccess\$ or unavail\$ or opportunit\$ or provision or provid\$ or Enabler\$ or facilitate or facilitates or facilitator\$1 or barrier\$1 or obstacle\$1 or difficulties or engag\$ or disengage\$ or outreach)).ti,ab.
67	((extracurricular or theatre\$1 or cinema or museum\$1 or recreation\$ or club\$1 or social activ\$ or public library or youth club\$ or youth center\$ or youth centre\$ or church or religious or spiritual or chapel\$1 or art or craft or crafts or cultural or creativ\$ or drama or hobbies or hobby) adj2 (access\$ or avail\$ or inaccess\$ or unavail\$ or opportunit\$ or provision or provid\$ or Enabler\$ or facilitate or facilitates or facilitator\$1 or barrier\$1 or obstacle\$1 or difficulties or engag\$ or disengag\$ or outreach)).ti,ab.
68	((Beavers or Rainbows or Cubs or boy scout\$ or Scouts or Brownie\$1 or Girl Guide\$1 or scouting or venturer\$1) adj3 (infant\$1 or kid\$1 or child or children or teen\$ or adolescent\$1 or youth or youngster\$1 or girl\$1 or boy\$1)).ti,ab.
69	((Recreation\$ activit\$ or leisure activit\$) or social activit\$) adj3 (View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or benefit\$ or importance or value)).ti,ab.
70	or/54-69
<p>Core Aim 5: Children should be listened to, treated with respect and have their race and cultural identity recognised.</p> <p>8.1 Engaged in meaningful decisions 8.2 Knowing about their rights and how to obtain them 8.3 Valued and respected as members of society 8.4 Able to freely express their cultural identify and race</p>	
71	(Pupil participation or pupil involvement or self directed learning).ti,ab.
72	((Decision\$ or choice\$) adj2 (influence\$ or involve\$ or initiat\$ or engag\$ or represent\$ or includ\$ in or participat\$ or value\$ or respect\$ or exclude\$ from or exclusion or inclusion or interact\$ or listen\$ or consulted or voice)).ti,ab.
73	("easy to talk" or "hard to talk" or "able to talk" or "easy to speak" or "hard to speak" or "able to speak").ti,ab.
74	("easy to talk" or "hard to talk" or "able to talk" or "easy to speak" or "hard to speak" or "able to speak").ti,ab.
75	((parent\$1 or mother\$1 or father\$ or guardian\$ or family or families or sibling\$1 or sister\$1 or brother\$1) adj2 (conflict or talks to)).ti,ab.
76	(Free\$ adj2 (express\$2 or expressing or speak\$)).ti,ab.

77	(student council\$ or civic participation or civic activities or meaningful decision\$).ti,ab.
78	((election\$1 or voting or vote\$1 or politic\$) adj2 (intent\$ or intend\$ or access\$ or avail\$ or inaccess\$ or unavail\$ or attend\$ or involv\$ 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\$)).ti,ab.
79	((((Consumer protection or buyer right\$1 or customer\$1 right\$1 or consumer right\$1 or human rights or civil libert\$ or financial or employment right\$ or worker right\$ or working hours or minimum wage\$ or employee right\$ or legal or personal record\$1 or personal information or proof of age or discrimination or harassment or punishment or discipline or physical force or religious or religion) adj2 (right\$1 or entitle\$ or advoca\$)) and (advoca\$ or advice or adviser\$ or trading standard\$ or CAB or citizen advice or crucial crew or know or knowledge or educat\$ or teach\$ learn\$ or access\$ or avail\$ or obtain\$ or aware\$ or guid\$ or information or understand\$)).ti,ab.
80	((advocate\$ or advocacy) adj3 (access\$ or knowledge or knew or aware\$ or avail\$ or unavail\$)).ti,ab.
81	((Advocacy service\$ or public service\$ or children\$ service\$) adj3 (View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or thoughts or attitude\$1)).mp
82	((Children\$ rights or uncr or rights of the child) adj10 (knowledge or aware\$)).ti,ab.
83	((society or social or community or communities or neighbo?rhood\$1 or volun\$ organisation\$ or volunt\$ group\$) adj2 (integrate\$1 or integration or disengag\$ or engag\$ or involvement or representative\$ or participat\$1 or respect\$ or exclusion or inclusion or interaction or isolat\$ or relationship\$ or network\$ or contact\$ or cohesion or citizenship or dignity)).ti,ab.
84	((societies or society or social or community or communities or neighbo?rhood\$1) adj2 (volunteer\$ or voluntary or perceived by or perceptions)).ti,ab.
85	((classmates or friends or friendship\$1 or peer\$1) adj2 (support\$ or help\$ or integrate\$1 or integration or engag\$ or service or volunteer\$ or involvement or representative\$ or include\$ or participat\$1 or barrier\$ or enabler\$ or ease of or difficult\$ or value\$ or respect\$ or exclusion or inclusion or interaction or isolate\$ or relationship\$ or network\$ or contact\$ or cohesion or dignity)).ti,ab
86	((Religious education or cultures or cultural or religions or race or racial or uncr) adj3 (knowledge or aware\$ or respect\$ or understand\$ or learn\$ or inform\$)).ti,ab.
87	(Cultural identit\$ or racial identit\$).ti,ab.
88	((Welsh language or cymraeg or welsh literature or welsh information or welsh medium) adj2 (access\$ or availab\$)).ti,ab.
89	or/71-88
Core Aim 6: Safe home and community which supports physical and emotional wellbeing	
9.1 Safe from crime and its effects	
9.2 Safe from injury and death from preventable accidents	
9.3 Safe from bullying	
9.4 Safe from environmental pollution	
9.5 Living in a decent home	
90	Crime/ and Fear/
91	((gang or gangs) adj2 (attack\$ or crime or burglary or robbery or violence or assault\$2 or mugg\$3 or criminal\$1 or anti social behavio#r\$ or antisocial or asbo\$1 or sexual assault\$1 or physical assault\$ or violen\$ assault\$)).ti,ab.
92	((fear or afraid or anxious or anxiety or perception\$ or perceive\$ or fright\$ or panic or terrified or experience\$1 or victim\$ or scare\$ or neighbo#rhood\$1) adj2 (physical attack\$ or violen\$ attack\$ or sexual attack\$ or crime or burglary or robbery or violence or assault\$2 or mugg\$3 or criminal\$1 or anti social behavio#r\$ or antisocial or asbo or sexual assault\$1 or physical assault\$ or violen\$ assault\$ or gang or gangs)).ti,ab.
93	((view\$1 or experience\$1 or fear or afraid or anxious or anxiety or perception\$ or perceive\$ or fright\$ or panic or terrified or experience\$1 or victim\$ or scare\$) adj2 (local communit\$ or local

	neighbourhood\$ or safe community)).ti,ab.
94	((Juvenile\$ or young or youth) adj2 (detainee\$1 or detained or reoffend\$ or offend\$ or custody or prison\$ or arrested or arrests or incarcerat\$ or delinquen\$ or antisocial) adj3 (rate\$ or trend\$ or level\$1 or incidence or prevalence or number\$1 or experience\$ or perception\$ or perceive\$ or opinion\$ or reason\$ or caus\$ or explan\$ or explain\$ or determinant\$1 or predictor\$1 or caus\$ or Correlate\$1 or associate\$1 or association\$1 or views or attitude\$1 or thoughts\$)).ti,ab.
95	((anti social behavio#r\$ or antisocial or asbo\$1) adj2 (perception\$ or perceive\$ or opinion\$ or reason\$ or caus\$ or explan\$ or explain\$ or views or attitude\$1 or thoughts\$)).ti,ab
96	((injur\$ or accident\$ or death\$ or killed or casualt\$) adj2 (road\$ or traffic\$ or scald\$ or burn\$1 or fire or pedestrian\$ or cycling or bicycl\$ or cyclist\$)) and (determinant\$1 or predictor\$1 or caus\$ or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab
97	((accident\$ or preventable or avoidable) adj2 (injur\$ or poison\$ or death\$ or killed or casualt\$)) and (determinant\$1 or predictor\$1 or caus\$ or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab
98	((bullying or bullied or harass\$ or bullies or anti bully\$ or victimisation or physical fighting or malicious email\$ or malicious text\$ or happy slap\$ or cyberbull\$) adj3 (fear\$3 or concern\$1 or feel\$4 or opinion\$ or perceive\$ or perception\$1 or experienc\$ or Correlate\$1 or associate\$1 or association\$1 or determinant\$1 or predictor\$1 or caus\$)).ti,ab.
99	(Environment\$ adj2 (pollut\$ or hazard\$ or harm)).ti,ab.
100	(exposure adj1 pollut\$).ti,ab.
101	((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 or crowd\$ or overcrowd\$ or temporary or cold)) and (Correlate\$1 or associate\$1 or association\$1 or reason\$ or determinant\$1 or predictor\$1 or caus\$ or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
102	((Homeless\$ or fuel poverty or living condition\$ or standard of living or temporary housing or temporary accommodation) and (Correlate\$1 or associate\$1 or association\$1 or reason\$ or determinant\$1 or predictor\$1 or caus\$ or asylum seek\$ or gypsy or traveller\$1 or gypsies or ethnic group\$1 or ethnic minorit\$ or ethnic population\$ or ethnicity or disabl\$ or poverty or low income or depriv\$ or low SES or low socioeconomic or material wellbeing or hardship or looked after children or foster children or children in care)).ti,ab.
103	(child safety or safe community or Clean air or clean outdoor air or air pollution).ti,ab.
104	or/90-103
Core Aim 7: No child or young person should be disadvantaged by poverty	
10.2 Poverty and low income	
10.3 Work and child poverty	
10.4 Disability and child poverty	
10.5 Ethnicity and poverty	
105	((Disable\$1 or disability\$ or long term illness\$ or chronic illness\$) adj2 (parent\$2 or mother\$1 or father\$1 or guardian\$1 or mum or dad or carer\$ or children or child)) and (Deprivation or poverty or deprived or low SES or low socioeconomic status or material wellbeing or hardship or affluence)).ti,ab.
106	((ethnicity or ethnic group\$ or ethnic minorit\$ or racial or pakistani or indian or black or african or caribbean) adj10 (Deprivation or poverty or deprived or low SES or low socioeconomic status or material wellbeing or hardship or affluence)).ti,ab.
107	((Low income or low pay or low paid or unemployed or workless or jobless or "not working" or

	"rate of pay" or material wellbeing or hardship) adj5 (families or family or home\$1 or household\$1 or parent\$2 or mother\$1 or father\$1 or guardian\$1 or mum\$1 or dad\$1)).ti,ab.
108	((Uptake or "tak\$ up" or "use" or aware\$ or knowledge\$ or access\$ or View\$1 or experience\$1 or belief\$1 or believ\$1 or fear\$3 or concern\$1 or feel\$4 or opinion\$1 or perceive\$ or perception\$1 or motivation or enthusiasm or reason\$1 or explanation\$1 or thoughts or attitude\$1 or barrier\$1 or facilitator\$1 or enabler\$1) adj5 (child trust fund\$ or stakeholder account\$ or tax credits or credit union\$1)).ti,ab.
109	((poverty or deprivation deprived or low SES or low socioeconomic status or hardship) adj10 (asylum seek\$ or gypsy or traveller\$1 or gypsies or looked after children or foster children or children in care or homeless or living alone or away from home or young parent\$ or young mother\$ or young father\$ or teen\$ parent\$ or teen mother\$ or teen\$ father or adolescent\$ parent\$ or adolescent\$ mother\$ or adolescent father\$)).ti,ab.
110	((poverty or deprivation deprived or low SES or low socioeconomic status or hardship) adj5 (avoid\$ or prevent\$ or avert or Disadvantage\$ or inequal\$ or life chance\$ or prospect\$1 or social exclusion or development of potential or potential development or perpetual poverty or caus\$ or determinant\$ or predictor\$ or Correlate\$1 or associate\$1 or association\$1 or reason\$ or consequence\$1 or effect or future life or life chance\$ or health prospect\$1 or prospective health or life opportunit\$ or future prospect\$1 or life expectancy or social mobility or life success or succeed\$ in life or education\$ attainment or education\$ achieve\$ or career success\$ or future health or future wellbeing or lifecourse or intergenerational)).ti,ab.
111	or/105-110
Study Designs	
112	(systematic review or systematic evidence review or meta analy\$ or metaanaly\$ or systematic overview).ti,ab. or meta-analysis.pt. (
113	Data collection/ or Qualitative Research/ or cross sectional studies/ or longitudinal studies/ or INTERVIEWS AS TOPIC/
114	interview.pt.
115	((child or children or infant or kids or adolescent\$ or young people or young person\$ or youth\$1 or youngster\$ or teen\$) adj2 (study or project)).ti.
116	(survey or census or cohort study or participation study or longitudinal study or cross sectional study or cross sectional survey or questionnaire study or focus groups or qualitative study or qualitative research or interview study or qualitative methods or qualitative interview\$1 or qualitative project).ti,ab.
117	((("national health interview survey" or "behavioral risk factor surveillance system" or "british crime survey" or "caerphilly health and social needs study" or "Offending crime and justice survey" or "Avon longitudinal study of parents and children" or British crime survey or British household panel survey or English housing conditions survey or European union labour force survey or "Families and children study" or Family resources survey or Health behavio*r in school-aged children or HBSC or Infant feeding survey or Labour force survey or Millennium cohort study or national travel survey or thousand families cohort or boyd orr ornational survey of health) and development) or nhsd or birth cohort).ti,ab.
118	or/113-117
Population (children and young people)	
119	adolescent/ or child/ or child, preschool/ or infant/
120	(babies or infant\$1 or kid\$1 or child or children or teen\$ or adolescent\$1 or youth or youngster\$1 or girl\$1 or boy\$1 or young people).ti,ab.
121	119 or 120
Combining groups	
122	22 or 31 or 53 or 70 or 89 or 104 or 111
123	121 and 122 and 112 and 6
124	121 and 122 and 118 and 6
125	limit 124 to (english language and yr="2000 -Current")
Applying limits	
126	animal/ not human/

127	125 not 126
128	((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)).ti,ab. or editorial.pt. or letter.pt.
129	127 not 128
130	exp Great UK/ or (UK or british or wales or welsh or england or UK or united kingdom).mp.
131	(Isle of Wight or Aberaeron or Aberdare or Aberdeen or Aberdyfi or Aberfan or Abergavenny or Abergele or Abersoch or Aberystwyth or Amlwch or Ammanford or Armagh or Anglesey or Avon or Bala or Bangor or Bardsey or Bargoed or Barry or Bath or Beaumaris or Beddgelert or Bedfordshire or Belfast or Benllech or Berkshire or Bethesda or Betws or Birmingham or Blackwood or Blaenau or Blaenavon or Borth or Bradford or Brecon or Bridgend or Brighton or Bristol or Brymbo or Brynteg or Buckingham\$ or Builth Wells or Butetown or Caernarfon or Caerphilly or Caerwys or Caldicot or Cambridge or Cambridge\$ or Canterbury or Cardiff or Cardiff or Cardigan or Carlisle or Carmarthen or Cefn Mawr or Ceredigion or Chepstow or Cheshire or Chester or Chichester or Chirk or Clwyd or Colwyn Bay or Conwy or Cornwall or Corris or Corwen).mp.
132	(Harlech or Haverfordwest or Hay on Wye or Holyhead or Holywell or Kidwelly or Kinmel Bay or Knighton or Lampeter or Laugharne or Llanberis or Llandeilo or Llandoverly or Llandrindod Wells or Llandudno or Llanddewi Brefi or Llanelli or Llanfaircaereinion or Llanfairfechan or Llanfairpwll or Menai or Llanfyllin or Llangammarch Wells or Llangefni or Llangollen or Llanidloes or Llanrwst or Llantwit Major or Llanwrtyd or Machynlleth or Maesteg or Magor or Meifod or Merthyr Tydfil or Milford Haven or Mold or Monmouth\$ or Montgomery or Nantlle Valley or Nant-y-moel or Narberth or Neath or Nefyn or Newborough or Newbridge or Newcastle or Newport or New Quay or Newtown or New Tredegar or Neyland or Pembroke\$ or Penarth or Penmaenmawr or Pontardawe or Pontarddulas or Pontypool or Pontypridd or Port Talbot or Porthcawl or Porthmadog or Prestatyn or Presteigne or Pwllheli or Rhayader or Rhyl or Rhosllanerchrugog or Ruthin or Saundersfoot or Shotton or St Asaph or St Clears or Swansea or Talgarth or Towyn or Tenby or Tredegar or Treorchy or Tregaron or Tywyn or Usk or Welshpool or Wrexham or Ystradgynlais).mp.
133	(County Antrim or County Armagh or County council\$1 or County Down or County Fermanagh or County Londonderry or County Tyrone or Coventry or Cowbridge or Criccieth or Crickhowell or Cumbria or Cwmbran or Deeside or Denbigh or Derby or Derbyshire or Devon\$ or Dolgellau or Dorset or Dumfries or Galloway or Dundee or Durham or Dyfed or East Sussex or Ebbw Vale or Edinburgh or Ely or Essex or Exeter or Fife or Fishguard or Flint or Froncysyllte or Glamorgan or Glasgow or Gloucester\$ or Gorseinon or Grampian or Gresford or Gwent or Gwynedd or Hampshire or Hereford\$ or Highlands or Hull or Humberside or Inverness or Kent or Lancashire or Lancaster or Leeds or Leicester\$ or Lichfield or Lincoln\$ or Lisburn or Liverpool or London\$ or Lothian or Manchester or Merseyside or Midlands or Monmouth\$ or Newcastle or Newport or Newry or Norfolk or Northampton\$ or Northumberland or Norwich or Nottingham\$ or Oxford\$ or Peterborough or Plymouth or Portsmouth or Powys or Preston or Ripon or Rutland or Salford or Salisbury or Scotland or Scottish or Sheffield or Shropshire or Somerset or Southampton or St Albans or St Davids or Stafford\$ or Stirling or Stoke or Strathclyde or Suffolk or Sunderland or Surrey or Sussex or Swansea or Tayside or Truro or Tyne or Wakefield or Warwick\$ or Wells or Westminster or Wiltshire or Winchester or Wolverhampton or Worcester\$ or Yorkshire).mp.
134	130 or 131 or 132 or 133
135	124 and 134
136	129 and 134
137	136 or 123
138	limit 137 to english language [Limit not valid in HMIC; records were retained]
139	limit 138 to yr="2000 - 2010"
140	remove duplicates from 139