

sacn

Scientific Advisory Committee on Nutrition

Annual Report 2009

Further copies may be obtained from the SACN website at www.sacn.gov.uk or telephone the SACN secretariat on 020 7276 8902

Contents

Page number

Foreword

The Scientific Advisory Committee on Nutrition's Work in 2009

SACN Working Groups and Subgroups

Carbohydrates Working Group

Energy Requirements Working Group

Folate/Cancer Working Group

Iron Working Group

Approaches to the Nutritional Assessment of Novel Foods Subgroup

Subgroup on Maternal and Child Nutrition

Further Highlights in 2009

Annex 1	Committee terms of reference
Annex 2	Membership of Committee, Subgroups and Working Groups
Annex 3	Members' Biographies
Annex 4	Remuneration and Committee finance
Annex 5	SACN Main Committee - declaration of interests
Annex 6	SACN Working groups - declaration of interests

Foreword

I am delighted to present the Scientific Advisory Committee on Nutrition's (SACN) annual report, covering the year 2009.

In 2009, SACN publicly consulted on two major draft reports – Iron and Health and Energy Requirements. The Committee also completed its review of the evidence on folic acid and colorectal cancer risk, and provided advice to the Chief Medical Officer (CMO) for England on this issue. A summary of SACN's report to the CMO, 'Folic acid and colorectal cancer risk: Review of recommendation for mandatory folic acid fortification', was published on the SACN website.

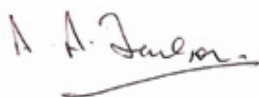
This year also saw the continued work of several Committee working groups established in previous years: the Energy Requirements Working Group, Iron Working Group and Folate/Cancer Working Group, which have been completed or will shortly complete their work. Following several years of work the Subgroup on Maternal and Child Nutrition are nearing completion of their report on the influence of maternal, fetal and child nutrition on the development of chronic disease later in life. The Carbohydrates Working Group has also made significant progress on its work programme.

SACN had a very productive Horizon Scanning meeting in October 2009, at which a number of important issues were discussed, and the present and future work programmes were reviewed.

As SACN approaches its tenth year, we have seen a number of additions and changes to the Committee and its membership. Six new Committee Members were appointed in November and both the Carbohydrates Working Group and the Subgroup on Maternal and Child Nutrition have grown in size. In addition, June 2010 will see a new Chair of the Committee – Dr Ann Prentice. I would like to take this opportunity to welcome our new Members and Chair elect.

Sadly in 2009 Professor Sheila Bingham passed away shortly after retiring from SACN. I would like to take this opportunity to express my deepest gratitude for the time, effort and personal commitment that Professor Bingham has given to SACN since 2001.

My thanks go to the members of the Committee and its Working Groups and Subgroups for their continued commitment to the work of the Committee in 2009, which will result in the publication of three major reports next year. I would also like to thank the Secretariat for their excellent support during 2009 in drafting background papers and reports and in ensuring the efficient conduct of Committee business.



Professor Alan Jackson
Chair

About the Committee

SACN is a UK wide Advisory Committee set up to advise the UK Health Departments as well as the Food Standards Agency; it is supported by a joint Department of Health (DH) / Food Standards Agency Secretariat.

Its advice covers scientific aspects of nutrition and health with specific reference to:

- nutrient content of individual foods and advice on diet as a whole including the definition of a balanced diet, and the nutritional status of people;
- monitoring and surveillance of the above;
- nutritional issues which affect wider public health policy issues including conditions where nutritional status is one of a number of risk factors (e.g. cardiovascular disease, cancer, osteoporosis and/or obesity);
- nutrition of vulnerable groups (e.g. infants and the elderly) and health inequality issues; and
- research requirements for the above.

SACN's full terms of reference are shown at Annex 1.

Openness

SACN is committed to a policy of openness and engagement with stakeholders. Papers for the Committee's meetings, agenda and minutes are posted on the Committee website at www.sacn.gov.uk, subject to certain exceptions on grounds of commercial or other sensitive information. As part of the policy on openness, all of the Committee's three main meetings are held in open session.

SACN's Work in 2009

This is the eighth annual report of SACN and covers the calendar year 2009.

Overview

The Committee met four times in 2009 on 12 and 13 February, 20 April, 10 June and 1 and 2 October. In February the Committee met for a day and a half; in April the Committee held an additional meeting to discuss the Nutrition Research Review and held an Horizon Scanning meeting the day after the October main meeting. Professor Alan Jackson chaired all the meetings.

Membership

There were several changes to SACN's membership in 2009. The late Professor Sheila Bingham retired from the Committee in March 2009 after many years of time, effort and personal commitment on SACN and on COMA.

Dr Ann Prentice was appointed Chair elect in November 2009 and will take up the position of SACN Chair after the 7 June 2010 meeting.

Six new Members were appointed to the Committee in November 2009, these are:

Dr Susan Lanham-New
Professor Julie Lovegrove
Professor Harry McArdle
Professor Hilary Powers
Professor Angus Walls
Professor Ian Young

Details of general Membership can be found in Annex 2.

Biographies of all Members, can be found in Annex 3.

Remuneration and Committee finance

Remuneration and Committee finances are shown in Annex 4.

Declaration of interests

The Committee follows Government advice on declaration of interests. Members are asked to declare where there may be a conflict of interest with regard to the issue under scrutiny at each meeting. Members are also requested to provide the Secretariat with an annual declaration of interests, which have been detailed in Annex 5.

Procedures

Meeting agendas were compiled from a number of sources including outstanding items from previous meetings, items suggested by the Committee, outside bodies including FSA and Department of Health Committees as well as items brought forward from the Committee work programme agreed in 2008. Updates from SACN Subgroups and Working groups were regular features on the agenda as were reports on nutrition-related Government activities in the FSA, and Health Departments.

Forward Look

The Committee considered the following items to be issues for future consideration:

- vitamin D;
- complementary and young child feeding;
- sustainable healthy diet;
- health of women of reproductive age; and
- impact of nutrition on cognitive development and performance in children.

The above items have been incorporated into the Committees work programme. Details can be found on www.sacn.gov.uk in the minutes of the meeting on 2 October 2009.

SACNs Working Groups and Subgroups

The Committee has a number of Subgroups and Working Groups comprising SACN Members and co-opted specialists in their subject area. These groups develop recommendations and advice on specific public health nutrition areas. The groups active during 2009 were:

- Carbohydrates Working Group
- Energy Requirements Working Group
- Folate/Cancer Working Group
- Iron Working Group
- Approaches to the Nutritional Assessment of Novel Foods Subgroup
- Subgroup on Maternal and Child Nutrition
- Joint SACN/RCPCH (Royal College of Paediatrics and Child Health) Group, to discuss the use of Body Mass Index (BMI) thresholds for defining overweight and obesity in children

These groups report back on progress to the main Committee at each SACN meeting.

Professors Ian Johnson, Angus Walls and Ian Young were co-opted onto the Carbohydrates Working Group and Dr Siân Robinson and Dr Ken Ong were co-opted onto the Subgroup on Maternal and Child Nutrition in 2009.

Details of Working Group and Subgroup Membership can be found in Annex 2 and the biographies of Members are listed in Annex 3.

Carbohydrates Working Group

Background

This Working Group was set up in 2008 following a workshop convened by the FSA in 2007 to discuss current government advice relating to carbohydrate intake. Dietary carbohydrate was last considered by the Committee on Medical Aspects of Food Policy (COMA) in 1989 in their report on Dietary Sugars and Human Disease, the 1991 report "Dietary Reference Values for Food Energy and Nutrients for the United Kingdom" and the 1998 report "Nutritional Aspects of the Development of Cancer". It was agreed that under the remit of the Working Group a review of carbohydrate and its relationship to health outcomes should be undertaken to ensure that policy recommendations and advice are kept up to date.

Terms of reference

SACN is requested by the Food Standards Agency and Department of Health to provide clarification of the relationship between dietary carbohydrate and health and make public health recommendations. To achieve this they need to review:

- the evidence for a role of dietary carbohydrate in colorectal health in adults (including colorectal cancer, IBS, constipation) and in infancy and childhood;
- the evidence on dietary carbohydrate and cardio-metabolic health (including cardiovascular disease, insulin resistance, glycaemic response and obesity);
- the evidence in respect to dietary carbohydrates and oral health.
- the terminology, classification and definitions of types of carbohydrates in the diet.

Activity

The Carbohydrates Working Group met on 23 March and 21 September 2009. During this time the cardiometabolic systematic review was commissioned out to Leeds University and the final protocol was agreed by the Working Group so that work could commence on the second term of reference.

Work on the colorectal health systematic review also began and the Working Group agreed the protocol for the review. At the September meeting it was agreed that the literature for carbohydrates and oral health should be scoped to assist with progressing the third term of reference. It is anticipated that a systematic review of carbohydrates and oral health will be commissioned in 2010.

Energy Requirements Working Group

Background

At the horizon-scanning meeting in 2003 it was agreed that SACN should review the Dietary Reference Values (DRVs) for energy set in 1991 in the COMA report "Dietary Reference Values for Food Energy and Nutrients for the United Kingdom", as requested by the FSA and DH .

The latest National Diet and Nutrition Survey of adults highlighted that although average energy intakes are less than COMA's Estimated Average Requirement (EAR) for energy, there is a continuing increase in the incidence and prevalence of obesity and excessive body weight in the UK population. In 2004, revised reference values for energy were published in the FAO/WHO/UNU Expert Consultation Report on Human Energy Requirements. In light of this report and the mismatch between energy intake and requirements evident in the population, SACN considered it an appropriate time to review the energy requirements for the UK. A Working Group was established in 2005 to look at the issue.

Terms of reference

The terms of reference for the Energy Requirements Working Group are to:

- review and agree on the interpretation of the methods, definitions and assumptions used by COMA (1991) and FAO/WHO/UNU (2004) to agree energy requirements;
- agree a framework by which to arrive at energy requirements for the UK population and its Subgroups;
- agree population based Dietary Reference Values for energy, and provide recommendations taking into account age, body size, levels of activity, gender and physiological state (i.e. growth, pregnancy and lactation); and
- consider the implications of these recommendations on the requirements for other nutrients.

Activity

The Energy Requirements Working Group met on 30 January and 3 April 2009. The draft report was discussed at the main Committee meeting in February 2009.

In November 2009, the Energy Requirements Working Group released its draft report for scientific consultation. The draft report is a technical report that considers current UK energy intakes and physical activity levels, existing energy reference values, new evidence on energy expenditure, and the various methods that may be used to calculate energy requirements. On the basis of their review, SACN calculated new draft estimated average requirements (EARs) for energy for the UK population for each age group and gender.

The Working Group published a draft of the report for a 14 week public consultation on 5th November 2009. Responses to the consultation will be discussed by the Working Group and amendments made to the report where appropriate. Following consideration of the report by the main Committee at its meeting in June 2010, it is anticipated that the final report will be published in late 2010.

Folate/Cancer Working Group

Background

The Folate/Cancer Working Group was set up in response to a request from the Chief Medical Officer (CMO), requesting SACN to further consider two scientific papers (Cole et al, 2007¹ and Mason et al, 2007²) relating to folic acid and colorectal cancer (CRC) risk, which had been published since the SACN report on Folate and Disease Prevention (2006).

Activity

The Working Group met on 7 January and 2 March 2009 to discuss whether SACN's recommendation, for the introduction of mandatory fortification with controls on voluntary fortification and guidance on supplement use, should be revised following publication of the papers by Cole et al 2007 and Mason et al 2007.

A draft of the report to the CMO was discussed at the SACN main meeting on 10 June 2009 and the Committee agreed to the recommendations in the report after suggested amendments were made. In October 2009, the Committee published a summary of their advice to the CMO on folic acid and colorectal cancer risk on the SACN website. As part of its considerations, SACN were fortunate to view confidential results of a meta-analysis of randomised controlled trials on the effect of B vitamins (including folic acid) on risk of cardiovascular disease, which also reported effects on cancer. SACN's full report to the CMO will be published once the results of this meta-analysis are published by the researchers.

Overall, SACN upheld their previous recommendation for the introduction of mandatory fortification with folic acid with controls on voluntary fortification. However, SACN amended their recommendation to clarify the advice on supplement use for particular population groups.

¹ Cole BF *et al.* Folic acid for the prevention of colorectal adenomas. *JAMA*. 2007; 297:2351-2359.

² Mason JB *et al.* A temporal association between folic acid fortification and an increase in colorectal cancer rates may be illuminating important biological principles: a hypothesis. *Cancer Epidemiol Biomarkers Prev*. 2007; 16:1325-29.

Iron Working Group

Background

UK national surveys have consistently shown that a proportion of the population, particularly young women and children, have low iron intake relative to recommendations, which has raised concerns that these subgroups of the population may be at risk of iron deficiency.

In their report, "Nutritional Aspects of the Development of Cancer" (DH, 1998), COMA highlighted possible links between red and processed meat consumption and risk of colorectal cancer. COMA recommended that people who eat large amounts of red and processed meat should consider reducing the amount they consumed. Since red meat is a rich dietary source of iron, a recommendation to reduce meat consumption could lead to an increase in the proportion of people with iron intakes below dietary recommendations. This concern was recognised by COMA who recommended that the implications of a reduction in meat intake on iron status should be reviewed. The Working Group was set up in 2002 to look at the issue.

Terms of reference

To review the dietary intake of iron in its various forms and the impact of different dietary patterns on the nutritional and health status of the population, and to make proposals. It was agreed to consider both beneficial and adverse effects of an increase in iron intake, including the:

- effect of dietary components on iron absorption and utilisation in the body;
- interaction of infections and inflammation with iron metabolism and the possibility that this might affect the apparent incidence of iron deficiency;
- effect of iron deficiency on health and well being, for example, mental and physical development;
- potential adverse effects of excess iron, including free radical damage and the risk of cardiovascular disease and cancer.

Activity

SACN made significant progress with its report on Iron and Health and released a draft report for public consultation in June 2009. SACN received fifteen responses from a variety of stakeholders, including non-government organisations, academics and meat industry representatives.

The draft report considered the health consequences of both iron deficiency and excess. Other considerations included the adequacy of iron nutrition in the UK population and the possibility that some people may have inadequate intakes of iron and be at risk of iron deficiency.

The Working Group met on 11 November 2009 to discuss the responses to the scientific consultation for the draft Iron and Health report. The report was amended to take into account the consultation responses with the view to discussing the revised report at SACNs meeting in February 2010 and publishing the final report later in 2010.

Approaches to the Nutritional Assessment of Novel Foods Subgroup

Background

A joint Subgroup was re-established with the Advisory Committee on Novel Foods and Processes (ACNFP) in 2008 to consider approaches to the nutritional assessment of novel foods, including those from genetically modified sources.

Terms of reference

The Subgroup is reviewing the existing guidelines for the nutritional assessment of novel foods, and considering whether this guidance should be refined to provide applicants with specific details of the nutritional data required to support a novel food application.

It is intended that the resulting advice will be used by:

- ACNFP in its future evaluations of novel foods;
- applicants making novel food applications throughout the UK; and
- the FSA, which will circulate it to other European Union bodies (including the European Food Safety Authority) in order to develop a consistent approach to the nutritional assessment of novel foods.

Activity

The guidance for nutritional assessment of novel and genetically modified foods was progressed in 2009 and discussions were held regarding the timeline for completion of the document.

Subgroup on Maternal and Child Nutrition

Background

The Subgroup on Maternal and Child Nutrition (SMCN) was set up as a specialist standing group to advise Government on issues relating specifically to maternal and child nutrition, an area on which Health Departments and the FSA need regular scientific advice for policy-making and regulatory issues.

Terms of reference

The terms of reference for the Subgroup on Maternal and Child Nutrition are:

- to review the evidence on the influence of maternal, fetal and child nutrition including growth and development in utero and early childhood on the development of disease later in life;
- to identify opportunities for nutritional intervention that could influence the risk of disease later in life; and
- to consider such scientific aspects of nutrition of women of reproductive age, infants and children as are referred to it by the SACN, Health Departments and the FSA.

Activity

The SMCN met on 28 January and 11 September 2009. They focused this year on completing their report on the influence of maternal, fetal and child nutrition on the development of chronic disease in later life, with a view to releasing the draft report for scientific consultation in early 2010.

The Subgroup has also contributed to the development of 'Start4Life', which is a part of the government led Change4Life campaign. Start4Life aims to support a better start in life for infants from birth, by providing accessible information about the recommendations on breastfeeding and appropriate introduction of solid foods.

Members participated in a joint SACN/RCPCH (Royal College of Paediatrics and Child Health) Group meeting on 29 September 2009. This Group was reconvened to provide advice on the use of BMI thresholds for defining overweight and obesity in children; the work on this Group will continue into 2010.

Annex 1

SACN terms of reference

The terms of reference of SACN are to advise the CMOs and/or the Agency, and thus, through the CMOs or Agency, the Government on scientific aspects of nutrition and health with specific reference to:

- nutrient content of individual foods, and advice on diet as a whole, including the definition of a balanced diet and the nutritional status of people;
- monitoring and surveillance of the above;
- nutritional issues which affect wider public health policy issues, including conditions where nutritional status is one of a number of risk factors (e.g. cardiovascular disease, cancer, osteoporosis and/or obesity);
- vulnerable groups (e.g. infants and the elderly) and inequality issues;
- research requirements for the above; and
- individual Members may be invited to serve on SACN's Subgroups.

All Members and the Secretariat regard it as part of their role to:

- examine and challenge if necessary the assumptions on which scientific advice is formulated and ask for explanations of any scientific terms and concepts which are not clear;
- ensure that SACN has the opportunity to consider contrary scientific views and the concerns and values of stakeholders before a decision is taken; and
- ensure that SACN's advice is clear and comprehensible.

Annex 2

Committee members

Chair Professor Alan Jackson
Professor of Human Nutrition, University of Southampton

Members Professor Peter Aggett
Honorary Professor, School of Medicine and Health, Lancaster University

Professor Annie Anderson
Professor of Food Choice, Centre for Public Health Nutrition Research, University of Dundee

Late Professor Sheila Bingham (Until March 2009)
Director, Medical Research Council's Dunn Human Nutrition Unit, Cambridge

Mrs Christine Gratus (lay member)
Honorary Senior Research Fellow, University of Birmingham, School of Primary Care Clinical Sciences. Former advertising and marketing research director.

Dr Paul Haggarty
Head of the Nutrition & Epigenetics Group, Rowett Institute of Nutrition and Health, University of Aberdeen

Professor Timothy Key
Professor in Epidemiology and Deputy Director of Cancer Epidemiology Unit, University of Oxford

Professor Peter Kopelman
Principal, St George's, University of London

Dr Susan Lanham-New (From November 2009)
Head, Nutritional Sciences Division and Reader in Nutrition, Faculty of Health and Medical Sciences at the University of Surrey

Professor Julie Lovegrove (From November 2009)
Reader in Nutritional Metabolism and Deputy Director of the Institute of Cardiovascular & Metabolic Research at the University of Reading

Professor Ian Macdonald
Professor of Metabolic Physiology at the University of Nottingham and Director of Research in the Faculty of Medicine and Health Sciences

Professor Harry McArdle (From November 2009)
Deputy Director of Science and the Director of Academic Affairs at the Rowett Institute of Nutrition and Health, University of Aberdeen

Dr David Mela (Industry representative)
Science Leader, Unilever R&D Vlaardingen, The Netherlands

Professor Hilary Powers (From November 2009)
Professor of Nutritional Biochemistry and Head of Human Nutrition Unit, University of Sheffield

Dr Ann Prentice
Director, MRC Human Nutrition Research, Cambridge

Dr Anita Thomas
Consultant Physician in Acute Medicine, Plymouth Hospitals NHS Trust

Professor Angus Walls (From November 2009)
Professor of Restorative Dentistry and Director of Research School of Dental
Sciences, Newcastle University

Dr Stella Walsh (Consumer representative)
Postgraduate Programme Leader, Leeds Metropolitan University

Dr Anthony Williams
Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's,
University of London

Professor Ian Young (From November 2009)
Professor of Medicine and Director of the Centre for Public Health at Queen's
University Belfast

Observers

Dr Alison Tedstone
Food Standards Agency

Mr Geoff Dessent
Department of Health

Dr Fiona Bissett
Scottish Government, Health Department

Mrs Maureen Howell
The Welsh Assembly, Health Promotion Division

Dr Naresh Chada
Department of Health, Social Services and Public Safety, Northern Ireland

Secretariat

Department of Health
Dr Sheela Reddy (Scientific Secretary)

Mrs Rachel Marklew
Mr Johnson Phillip

Food Standards Agency
Dr Elaine Stone (Scientific Secretary)

Ms Rachel Elsom
Mr Michael Griffin
Ms Lynda Harrop (Until May 2009)
Ms Emma Peacock
Mrs Vicki Pyne
Mrs Helen Riley (From June 2009)
Ms Mamta Singh
Mr Heiko Stolte

Membership of Approaches to the Nutrition Assessment of Novel Foods Subgroup

Chair Professor Alan Jackson (Chair, SACN)
Professor of Human Nutrition, University of Southampton

Members Dr Anthony Williams (SACN member)
Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's,
University of London

Professor John Mathers (ACNFP member)
Professor of Human Nutrition and Director of the Human Nutrition Research Centre at
Newcastle University.

Mrs Gillian Pope (ACNFP member)
Company Secretary for NRC (Europe) Ltd.

Dr Paul Haggarty (SACN member)
Head of the Nutrition & Epigenetics Group, Rowett Institute of Nutrition and Health,
University of Aberdeen

Membership of Carbohydrates Working Group

Chair Professor Ian Macdonald (SACN member)
Professor of Metabolic Physiology at the University of Nottingham and Director of Research in the Faculty of Medicine and Health Sciences

Members Professor Alan Jackson (SACN Chair)
Professor of Human Nutrition, University of Southampton

Dr David Mela (SACN Member)
Science Leader, Unilever R&D Vlaardingen, The Netherlands

Professor Timothy Key (SACN member)
Professor in Epidemiology and Deputy Director of Cancer Epidemiology Unit, University of Oxford

Professor Annie Anderson (SACN member)
Professor of Food Choice, Centre for Public Health Nutrition Research, University of Dundee

Mrs Christine Gratus (SACN member)
Honorary Senior Research Fellow, University of Birmingham, School of Primary Care Clinical Sciences. Former advertising and marketing research director.

Professor Ian Johnson (External expert)
Expert in diet and colorectal health & disease, Institute of Food Research

Professor Angus Walls (SACN member)
Professor of Restorative Dentistry and Director of Research School of Dental Sciences, Newcastle University

Professor Ian Young (SACN member)
Professor of Medicine and Director of the Centre for Public Health at Queen's University Belfast

Membership of Energy Requirements Working Group

Chair Professor Alan Jackson (SACN Chair)
Professor of Human Nutrition, University of Southampton

Members Professor Marinos Elia (External expert)
Professor of Clinical Nutrition and Metabolism at the University of Southampton and
Honorary Consultant Physician at Southampton General Hospital

Professor Ian Macdonald (SACN member)
Professor of Metabolic Physiology at the University of Nottingham and Director of
Research in the Faculty of Medicine and Health Sciences

Professor Joe Millward (External expert)
Emeritus Professor of Human Nutrition, Nutritional Sciences Division, Faculty of
Health and Medical Sciences, University of Surrey

Professor Andrew Prentice (External expert)
Head of MRC International Nutrition Group and Professor of International Nutrition at
the London School of Hygiene and Tropical Medicine.

Professor Chris Riddoch (External expert)
Professor of Sport and Exercise Science, University of Bath

Dr Anita Thomas (SACN member)
Consultant Physician in Acute Medicine, Plymouth Hospitals NHS Trust

Dr Anthony Williams (SACN member)
Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's,
University of London

Dr Stella Walsh (SACN member)
Postgraduate Programme Leader, Leeds Metropolitan University

Membership of Folate/Cancer Working Group

Chair	Professor Alan Jackson (SACN Chair) Professor of Human Nutrition, University of Southampton
Members	Professor Alan Boobis (CoC Member) Professor of Biochemical Pharmacology and Director of the Department of Health Toxicology Unit, Faculty of Medicine, Imperial College London Dr Paul Haggarty (SACN member) Head of the Nutrition & Epigenetics Group, Rowett Institute of Nutrition and Health, University of Aberdeen Professor Timothy Key (SACN member) Professor in Epidemiology and Deputy Director of Cancer Epidemiology Unit, University of Oxford Professor David Phillips (CoC Chair) Professor of Environmental Carcinogenesis at the Institute of Cancer Research, University of London Professor Elio Riboli (External expert) Head of the Division of Epidemiology, Public Health and Primary Care of the Faculty of Medicine, Imperial College London
External Contributor	Dr Robert Clarke B-Vitamin Trialists' (BVTT) Collaboration, University of Oxford
Observers	Dr Diane Benford (CoC Secretariat) Mrs Frances Hill

Membership of Iron Working Group

- Chair** Professor Peter Aggett (SACN Member)
Honorary Professor, School of Medicine and Health, Lancaster University
- Vice Chair** Dr Ann Prentice (SACN member)
Director, MRC Human Nutrition Research, Cambridge
- Members** Professor Philip Calder (External expert)
Fetal Origins of Adult Disease Division, University of Southampton
- Professor Sue Fairweather-Tait (External expert)
Personal Chair in the School of Medicine, Health Policy & Practice, University of East Anglia, Norwich.
- Professor Kim Fleischer Michaelsen (External expert)
Research Department of Human Nutrition, The Royal Veterinary and Agricultural University, Denmark
- Professor Sally Grantham-McGregor (External expert)
Centre for International Child Health, Institute of Child Health, University College London
- Mrs Christine Gratus (SACN member)
Honorary Senior Research Fellow, University of Birmingham, School of Primary Care Clinical Sciences. Former advertising and marketing research director.
- Professor Timothy Key (SACN member)
Professor in Epidemiology and Deputy Director of Cancer Epidemiology Unit, University of Oxford
- Professor Joe Lunec (External expert)
Head of Cranfield Health, Cranfield University
- Professor Martin Pippard (External expert)
Dean of the Medical School, University of Dundee
- Professor Mark Worwood (External expert)
Emeritus Professor at Cardiff University and honorary Clinical Scientist in the Cardiff and Vale NHS Trust

Membership of Subgroup on Maternal and Child Nutrition (SMCN)

Chair Dr Anthony Williams (SACN member)
Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's,
University of London

Members Professor Peter Aggett (SACN Member)
Honorary Professor, School of Medicine and Health, Lancaster University

Professor Annie Anderson (SACN member)
Professor of Food Choice, Centre for Public Health Nutrition Research, University of
Dundee

Dr Robert Fraser (External expert)
Reader in Obstetrics and Gynaecology in the University of Sheffield with an Honorary
Consultant contract in Obstetrics and Gynaecology at the Sheffield NHS Foundation
Trust

Professor Alan Jackson (SACN member)
Professor of Human Nutrition, University of Southampton

Professor Timothy Key (SACN member)
Professor in Epidemiology and Deputy Director of Cancer Epidemiology
Unit, University of Oxford

Dr Ken Ong (External expert)
Medical Research Council (MRC), Head of the Epidemiology Unit's programme in
Child Growth and Development. Paediatric Endocrinologist at Addenbrooke's
Hospital, and Affiliated Lecturer at the Department of Paediatrics, University of
Cambridge

Dr Ann Prentice (SACN member)
Director, MRC Human Nutrition Research, Cambridge

Dr Siân Robinson (External expert)
Principal Research Fellow at the MRC Epidemiology Resource Centre, University of
Southampton

Dr Stella Walsh (SACN member)
Postgraduate Programme Leader, Leeds Metropolitan University

Annex 3

Committee members' biographies

Professor Alan Jackson (Chair)

Professor of Human Nutrition, School of Medicine at the University of Southampton. Professor Jackson's current work explores the extent to which modest differences in maternal diet and metabolic competence influence fetal development, predisposing to chronic disease in adulthood. Professor Jackson was a member of the Committee on Medical Aspects of Food and Nutrition Policy (COMA) for ten years and was a Consultant Adviser to the Chief Medical Officer on Nutrition from 1989 to 2002. Professor Jackson is a member of the EFSA Panel on Dietetic Products, Nutrition and Allergies.

Professor Peter Aggett

Honorary Professor, School of Medicine and Health, Lancaster University, Professor Aggett is interested in trace element metabolism in health and disease. He has served on national and international advisory committees relating to clinical nutrition, public health and preventative medicine including nutritional safety and risk assessment, including the EC Scientific Committee on Food, the Committee on Toxicology, Advisory Committee for Novel Foods and Processes and Expert group on Vitamins and Minerals. He was a member of COMA for seven years, and is a past chair and secretary of the European Society for Paediatric Gastroenterology, Hepatology and Nutrition's Committee on Nutrition and is currently chair of the Standing Committee on Nutrition for the Royal College of Paediatrics and Child Health.

Professor Annie Anderson

Professor of Food Choice at the Centre for Public Health Nutrition Research, Department of Medicine, Ninewells Medical School, University of Dundee. Professor Anderson has represented the International Union against Cancer (UICC) on issues relating to diet and cancer prevention. In addition, she has participated as an expert advisor in a number of Department of Health, Food Standards Agency and Scottish Government Advisory Committees on topics ranging from nutrient standard of school meals to the Low Income Diet and Nutrition Survey. Her main research interests are dietary assessment methodologies, nutrition education and theory based, behaviourally focused dietary interventions in children and adults living in disadvantaged communities.

Mrs Christine Gratus

Mrs Gratus has a background in advertising, marketing and market research. She was a Director and International Vice-President of J Walter Thompson advertising agency until establishing her own Consultancy in 1990. As a qualitative researcher, Mrs Gratus has spent a lifetime listening to consumers talking about every aspect of their lives, with food high on the list and is now involved mainly with health and health research. She is an honorary Senior Research Fellow of the University of Birmingham, a member of the National Cancer Research Institute's Consumer Liaison Group, and a lay member of both the Herbal Medicines Advisory Committee and the London regional funding committee of the National Institute Health Research Networks' Research for Patient Benefit programme.

Dr Paul Haggarty

Dr Paul Haggarty (BSc, PhD) is Head of Nutrition & Epigenetics and Senior Lecturer at Rowett Institute of Nutrition and Health, University of Aberdeen, and Honorary Clinical Scientist in Grampian NHS Trust. His research interest is in the way diet and environment interacts with genes to determine human health. This involves the study of epigenetics in pregnancy, cancer, cognition and cardiovascular disease. He has research experience in B vitamins, lipids and genetics and has an interest in the role of deprivation in the link between nutrition and health. He is a member of the Advisory Committee on Novel Foods and the North of Scotland Research Ethics committee.

Professor Timothy Key

Deputy Director, Cancer Epidemiology Unit, University of Oxford. Professor Key studied veterinary medicine, nutrition and epidemiology. He has special interests in the interactions between nutrition and hormones, cancer and cardiovascular disease. He is the lead investigator of the Oxford component of the European Prospective Investigation into Cancer (EPIC), which is a European-wide collaborative study, chair of the EPIC Working Group on Nutrition and Prostate Cancer, and chair of the Endogenous Hormones and Breast Cancer Collaborative Group.

Professor Peter Kopelman

Principal, St George's, University of London. Professor Kopelman has considerable experience, from a clinical perspective, in the delivery of diabetes care and the management of obesity to all age groups. He has worked closely with Health Authorities and national organisations in addressing nutritional matters and has chaired a large number of Committees within the university sector, the NHS, Health Authorities and the Royal College of Physicians.

Dr Susan Lanham-New

Reader in Nutrition at the University of Surrey and a Registered Public Health Nutritionist. She will take over as the Head of the Nutritional Sciences Division at Surrey from the 1 August 2010. Her research focuses on the area of nutrition and bone health, for which she has won a number of awards including the Nutrition Society Silver Medal. She is Editor of the first academic textbook on 'Nutritional Aspects of Bone Health' (NAoBH). She is a member of the Nutrition Forum for the NOS and the Scientific Advisory Group of British Nutrition Foundation and the 2008 BNF Taskforce on ageing. She was Honorary Communications Officer of the UK Nutrition Society from 2000-2006. Susan is on the Editorial Board of Osteoporosis Review and Osteoporosis International. She is Editor-in-Chief of the Nutrition Society Textbook Series.

Professor Julie Lovegrove

Julie Lovegrove is Professor of Metabolic Nutrition in the Department of Food and Nutritional Sciences and the Deputy Director of the Institute for Cardiovascular and Metabolic Research at the University of Reading. Professor Lovegrove's main areas of research interest are the investigation of nutritional influences on the metabolic syndrome and cardiovascular disease risk, including nutrient/gene interactions. Of particular interest are the effects of dietary fats, carbohydrates and phytochemicals on vascular reactivity, insulin resistance and lipid metabolism in different population groups. Professor Lovegrove also has experience and interest in ethical issues associated with human research and serves on a number of research ethics committees.

Professor Ian Macdonald

Ian Macdonald is Professor of Metabolic Physiology at the University of Nottingham and Director of Research in the Faculty of Medicine and Health Sciences. His research interests are concerned with the nutritional and metabolic aspects of obesity, diabetes and cardiovascular disease, with additional interests in nutrition and metabolism in exercise. His research involves studies in healthy subjects and various patient groups, and combines whole body physiological measurements, molecular investigation of tissue samples, and dietary interventions. Ian Macdonald is presently President of the Nutrition Society, Editor to the International Journal of Obesity and Chair of the International Association for the Study of Obesity Finance Committee.

Professor Harry McArdle

Professor McArdle is Deputy Director of Science and the Director of Academic Affairs at the Rowett Institute of Nutrition and Health, University of Aberdeen. His main research interests involve micronutrients and the critical role they play in growth and development. Current work concentrates on understanding the mechanisms underpinning micronutrient transport across the placenta. Professor McArdle's studies iron and copper metabolism, trying to understand how the fetus and placenta work together to ensure an adequate supply, even if the mother is deficient; a frequent occurrence even in developed society. At the same time, Professor McArdle and his team are trying to identify why iron deficiency during pregnancy results in hypertension in the adult offspring in animal models and whether the results can be extrapolated to humans.

Dr David Mela

Science Leader at Unilever R&D Vlaardingen, The Netherlands. Dr Mela joined Unilever in 1998, following an academic research career in the US and UK. His main expertise is in the biological and behavioural aspects of food choice, eating behaviour and energy balance, from consumer research through energy metabolism. In Unilever, he is mainly involved with research programmes to identify and substantiate the benefits of product formulations and ingredients. He also provides input for the management of specific technical and regulatory issues and represents Unilever on various external academic and trade groups.

Professor Hilary Powers

Professor of Nutritional Biochemistry, Head of Human Nutrition Unit, Deputy Head of Department of Oncology in the Faculty of Medicine, Dentistry and Health, University of Sheffield, Professor Hilary Powers conducts research into the role of B vitamins in health and disease, with specific focus on folate and cervical/colorectal/breast cancer, and functional importance of interactions between B vitamin status and common genetic polymorphisms.

Professor Powers is a former or current member of grants panels for Biotechnology and Biological Sciences Research Council (Agri-Food, Diet and Health Research Industry Club); she is currently Chair of grant panel for World Cancer Research Fund; a member of Expert Panel for the World Cancer Research Fund/Association for International Cancer Research Report into links between diet, physical activity and cancer and subsequent Policy Report. She is also an advisor to the Food Standards Agency for Biochemical Methodology for National Surveys of the Nutritional Status of the British Population and an advocate for the 2009 review of the Food Standards Agency's Nutrition research portfolio.

Dr Ann Prentice

Director, MRC Human Nutrition Research, Cambridge. Dr Prentice's main research interests are nutritional aspects of bone health and osteoporosis; dietary requirements for human growth, pregnancy and lactation, and old age with particular reference to micronutrients. She has published extensive peer-reviewed articles, book chapters and reports. Dr Prentice was President of the Nutrition Society (from 2004 to 2007) and has served on a number of national and international advisory committees, including COMA's Subgroup on Nutrition and Bone Health.

Dr Anita Thomas

Consultant Physician in Acute Medicine Plymouth Hospitals NHS Trust; her PhD concerned the nutritional status of older people. Dr Thomas is now National Clinical Lead for Venous Thromboembolism (VTE) and CMO's representative on the Human Genetics Commission. She is a member of the UK Panel for Research Integrity in Health and Biological Science. Dr Thomas is a lead assessor for the GMC Fitness to Practice Procedures.

Professor Angus Walls

Angus Walls is Professor of Restorative Dentistry and Director of Research, School of Dental Sciences, Newcastle University. Professor Walls' research interests focus on the oral health care problems of an ageing population at a time of marked change in oral health status. The relationships are between diet and oral diseases such as tooth wear, decay and soft tissue pathology, and the number and functional capacity of the residual dentition and foods choice. His work has embraced basic epidemiology and the development of dietary interventions to address specific problems.

Dr Stella Walsh

Dr Walsh has a long-standing interest in the subjects of food and nutrition and is an experienced consumer representative having served on several government and industry Committees and replied to consultations on behalf of consumers. She was the Secretary of the National Federation of Consumers (NFC) and has been a representative for the NFC on the Institute of Grocery Distributors, and other FSA and Defra Committees. She has published several refereed articles for academic and professional journals, book chapters and conference papers on consumer issues linked to her role as a Postgraduate Programme Leader at Leeds Metropolitan University.

Dr Anthony Williams

Reader in Child Nutrition and Consultant in Neonatal Paediatrics, St George's University of London. Dr Williams was the Chair of COMA's Panel on Child & Maternal Nutrition and a member of COMA. He was a member of the Food Standards Agency's Expert Group on Vitamins and Minerals and cross-represented SACN on the Advisory Committee on Novel Foods and Processes between 2003 and 2007. Between 2006 and 2008 he chaired the NICE Centre for Public Health Excellence Programme Development Group producing guidance on maternal and child nutrition in low-income families. Since 2009 he has represented SACN on the project board of the Diet and Nutrition Survey of Infants and Young Children.

Professor Ian Young

Ian Young is Professor of Medicine and Director of the Centre for Public Health at Queen's University Belfast. In addition, he is also Associate Medical Director (Research and Development) and Consultant Chemical Pathologist at the Belfast Health and Social Care Trust. Professor Young's main clinical and research interests are in lipid metabolism, carbohydrate metabolism and antioxidants, particularly in relation to the prevention of cardiovascular disease. He is an author of over 250 published research papers and is on the editorial boards of a number of leading international journals. In addition, he is Vice-Chair of the Scientific Division of the International Federation for Clinical Chemistry and Laboratory Medicine. He frequently speaks at national and international meetings on lipid management and topics related to laboratory medicine.

Members' biographies (not otherwise covered as SACN members)

Approaches to the Nutrition Assessment of Novel Foods Subgroup

Professor Mike Gasson

Professor Mike Gasson BSc PhD was Head of the Food Safety Science Division and Deputy Director (Science) at the Institute of Food Research. He has been involved in gene technology research for more than twenty-five years with a particular interest in the genetics of food-relevant micro-organisms.

Professor Ian Rowland

Professor Rowland, BSc, PhD, is Professor of Human Nutrition at the University of Ulster and Head of the Northern Ireland Centre for Diet and Health.

Ms Jill Brand

Jill Brand, MPhil, FICSc, is a home economist with over 20 years of experience in product design, consumer issues and teaching.

Carbohydrates Working Group

Professor Ian Johnson

Energy Requirements Working Group

Professor Marinos Elia

Professor of Clinical Nutrition and Metabolism at the University of Southampton and Honorary Consultant Physician at Southampton General Hospital. He obtained a BSc (Hons) in Biochemistry and MB ChB degrees in Medicine from the University of Manchester, before undertaking research for an MD at the MRC Metabolic Research Laboratories, Oxford, headed by Sir Hans Krebs. He then moved to Cambridge, where he headed the Clinical Nutrition Group of the MRC Dunn Nutrition Unit, and the Nutrition Team at Addenbrooke's Hospital, and was Senior Research Fellow at Churchill College, University of Cambridge. He is currently an editor of five nutrition journals, and has been editor-in-chief of *Clinical Nutrition*. He has served on many national and international committees, and has chaired a number of them. He is currently chairman of the International Society of Body Composition Research, the British Association for Parenteral and Enteral Nutrition (BAPEN), and the Health Economic Committee of BAPEN. He has published extensively on various aspects of nutrition and metabolism.

Professor Joe Millward

Emeritus Professor of Human Nutrition, Nutritional Sciences Division, University of Surrey. Professor Millward has research interest in the regulation of growth and body composition with current research exploring metabolic demands for amino acids and essential fatty acids with a particular interest in adaptive responses to variation in macronutrient intakes. He was a member of the Energy and Protein panel of COMA responsible for the 1991 Dietary Reference Values report and is currently co-chair of the FAO/WHO/UNU expert consultation on Protein and Amino Acids in Human Nutrition.

Professor Andrew Prentice

Head of MRC International Nutrition Group and Professor of International Nutrition at the London School of Hygiene and Tropical Medicine. Also Head of MRC Nutrition Programme in the Gambia, West Africa.

Professor Chris Riddoch

Professor of Sport and Exercise Science at the University of Bath. Professor Riddoch's work encompasses the extent to which physical activity levels affect health and how interventions aimed at individuals and environments can improve activity levels. His research focuses particularly on children's physical activity and how it relates to childhood obesity. Professor Riddoch was the Senior Scientific Editor of the Chief Medical Officer's 2004 report on Physical Activity and Health.

Folate/Cancer Working Group

Professor Alan Boobis

Professor of Biochemical Pharmacology and Director of the Department of Health Toxicology Unit, Faculty of Medicine, Imperial College London. Professor Boobis is deputy chair of the Committee on Toxicity, a member of the Committee on Carcinogenicity, a member of the HPA Board Sub-Committee for Radiation, Chemical and Environmental Hazards, vice-chair of the European Foods Standards Agency Panel on Plant Protection Products and their Residues and a regular member of the Joint WHO/FAO Expert Committee on Food Additives (residues of veterinary drugs) and the Joint WHO/FAO Meeting on Pesticide Residues. His current research interests currently include mechanistic toxicology, drug metabolism, biomarker discovery and increasingly the application of knowledge in these areas to risk assessment. Professor Boobis is joint editor-in-chief of Food and Chemical Toxicology.

Professor David H Phillips

Professor of Environmental Carcinogenesis at the Institute of Cancer Research (University of London). Professor Phillips obtained his first degree in Chemistry at the University of Oxford and his PhD in Biochemistry from the University of London and held postdoctoral fellowships at the University of Wisconsin and Stanford University, USA. He is currently chair of the Committee on Carcinogenicity of Chemicals in Food, Consumer Products and the Environment (COC) and a member of its sister Committee on Mutagenicity (COM). He is also a member of the Food Standards Agency General Advisory Committee on Science (GACS). He is Editor-in-Chief of the scientific journal Mutagenesis and has chaired working groups evaluating carcinogenic risks to humans for the US National Toxicology Program (NTP) and the International Agency for Research on Cancer (IARC). His research interests are centred on mechanistic investigations into environmental causes of cancer and gene-environment interactions, and monitoring human exposure to carcinogens.

Professor Elio Riboli

Professor Riboli is Head of the Division of Epidemiology, Public Health and Primary Care of the Faculty of Medicine at Imperial College London. Professor Riboli has participated as chair, member or advisor to various international committees and panels including Committee on Cancer Prevention and Epidemiology, Europe Against Cancer Programme, European Community, Committee on Diet and Cancer, International Union of Nutritional Sciences (IUNS); the International Surveillance and Safety Committee of the SUVIMAX Intervention Trial on Antioxidants and Prevention of Cancer and Cardiovascular Disease (Paris), the Committee on Nutrition and Cancer, (CNRS ,National Scientific Research Council), Paris, the Scientific Council of the InVS, (National Institute of Health Surveillance of France), the Scientific Council of the AFSSA, (French Agency for Food Health & Safety), Scientific Grant Review Panel, World Cancer Research Fund, London-1998-2003 and the International Advisory Board, American Institute for Cancer Research, Washington – 1998-2000. Professor Riboli has co-authored over 310 peer-reviewed publications and over 100 book chapters and books and serves on editorial boards of major journals on nutrition, cancer and epidemiology.

Iron Working Group

Professor Philip Calder

Professor of Nutritional Immunology, University of Southampton. Professor Calder's research interests include the identification of the influence of dietary fatty acids on the immune and inflammatory systems and understanding the mechanisms of action of specific fatty acids.

Professor Sue Fairweather-Tait

Personal chair in the School of Medicine, Health Policy & Practice, University of East Anglia, Norwich. Professor Fairweather-Tait's main interests are human mineral metabolism and micronutrient requirements for optimal health.

Professor Kim Fleischer Michaelsen

Professor of Paediatric Nutrition, Department of Human Nutrition, The Royal Veterinary and Agricultural University, Frederiksberg and Senior Consultant at the Paediatric Nutrition Unit, Rigshospitalet, University Hospital, Copenhagen. Professor Michaelsen is advisor to the Danish Health Agency on paediatric nutrition, a member of the Swedish Expert Committee on Paediatric Nutrition and President of the International Society of Research in Human Milk and Lactation. His research interests are nutrition during the first years of life including growth, breast-feeding, LCPUFA, probiotics and long-term effects.

Professor Sally Grantham-McGregor

Professor of International Child Health, Centre for International Child Health, Institute of Child Health, University of London. Professor Grantham-McGregor research has focussed on the effects of nutrition (energy and micronutrients) on child development, cognitive function and school achievement. She spent thirty years in Jamaica, where she has built up a strong research base looking at the effect of under nutrition on children's development and possible interventions. She is currently working on the effect of prenatal nutrition on child development in Bangladesh and Jamaica.

Professor Joe Lunec

Head of Cranfield Health, Cranfield University's newest School, Professor Lunec leads the School's activities that embrace diagnostics, smart materials, food environment and health and healthcare operations management. Professor Lunec is a graduate in Chemistry from Queen Mary College, University of London and has a PhD and DSc in Chemical Pathology from the University of London. He is a Fellow of the Royal College of Pathologists and periodically a government advisor on Medical Toxicology issues. Prior to joining Cranfield Health, Professor Lunec was Professor of Molecular Toxicology, Director of Genomics Centre, Kings College, London; Director of Medical Toxicology Laboratories, St Thomas' Hospital NHS Trust and Deputy Director of the Medical Toxicology Unit. His research interests are in three main areas; genotoxicity, atherosclerosis and inflammatory joint disease. He has lectured on Masters courses in Toxicology and Molecular Pathology. Professor Lunec has also supervised numerous PhD students and acted as external examiner throughout the UK and overseas. Professor Lunec was formerly a member of the Committee on Toxicology (until end March 2007) and is a member of the European Society for Free Radical Research.

Professor Martin Pippard

Professor of Haematology and Dean of the Medical School, University of Dundee. His main clinical and research interests are in disorders of iron metabolism, particularly iron overload, and abnormal erythropoiesis. He was a member of the 1995 British Nutrition Foundation Task Force on Iron. He is a scientific adviser to the UK Haemochromatosis Society and is an Associate Editor for the British Journal of Haematology.

Professor Mark Worwood

Professor Worwood is an Emeritus Professor at Cardiff University and an honorary Clinical Scientist in the Cardiff and Vale NHS Trust. He is lead Biochemist for Bowel Screening Wales. His interests have included iron absorption, genetic and functional studies of human ferritin, diagnostic methods for investigating iron status, and genetic haemochromatosis. He was editor of the British Journal of Haematology from 1986 to 1991. He was a member of the 1995 British Nutrition Foundation's Task Force on Iron, The Joint WHO/CDC Technical Consultation on Assessment of Iron Status at Population Level (2003-2004) and is scientific adviser to the Haemochromatosis Society. He is author of numerous articles on iron metabolism.

Subgroup on Maternal and Child Nutrition (SMCN)

Dr Robert Fraser

Reader in Obstetrics and Gynaecology in the University of Sheffield with an Honorary Consultant contract in Obstetrics and Gynaecology at the Sheffield NHS Foundation Trust. Research interests include nutritional physiology of human pregnancy, normal and disordered fetal growth and public health aspects of nutrition in pregnancy and lactation. He also has a clinical research interest in pregnancy complicated by maternal diabetes.

Dr Ken Ong

Dr Ken Ong leads the Medical Research Council (MRC) Epidemiology Unit's programme in Child Growth and Development. He is also a Paediatric Endocrinologist at Addenbrooke's Hospital, and an Affiliated Lecturer at the Department of Paediatrics, University of Cambridge. He qualified in clinical medicine from Cambridge University and Guy's Hospital, London, and trained in Paediatric Endocrinology in Southampton, London, Oxford and Cambridge. He has a PhD in Paediatrics and MPhil in Epidemiology, both at the University of Cambridge. His MRC programme studies the genetic, endocrine and dietary regulation of fetal and childhood growth, and its application to the prediction and prevention of childhood obesity.

Dr Siân Robinson

Dr Robinson is a Principal Research Fellow at the MRC Epidemiology Resource Centre, University of Southampton. Her main research interests are in the nutrition of women, infants and young children, and in understanding the effects of current variations in early diet and nutritional status on growth, development and later function. Between 2006 and 2008 she was a co-opted expert member of the NICE Programme Development Group that produced guidance on maternal and child nutrition and is now currently an external advisor for the Diet and Nutrition Survey of Infants and Young Children and a member of the BNF Task Force on Developmental Programming and Diet.

Annex 4

Remuneration and Committee finance

The amount paid to committee members for fees increased in 2009. For Main Meetings and Working Groups those who chaired a meeting received a total fee of £200 per meeting inclusive of attendance and reading fees. Members received £160 per meeting inclusive of attendance and reading fees.

The sponsor departments also met travel and subsistence costs for those attending Main Meetings and Working Groups/Subgroups.

The cost of the Committee, excluding Secretariat resources, for 2009 was £186,777.08. Costs were met by the Department of Health and the Food Standards Agency.

Annex 5

SACN Main Committee - declaration of interests

MEMBER	PERSONAL INTERESTS		NON-PERSONAL INTERESTS		ANY OTHER INTERESTS
	Company	Nature of Interest	Company	Nature of Interest	
Professor Alan Jackson	None	N/A	Nutricia Clinical Care Baxter Healthcare	Sponsors of Annual Nutrition Course	None
Professor Peter Aggett	None	N/A	School Activities: Astra-Zeneca Nestec ILSI Wellcome Yakult Individual: New Zealand Dairy Goat Council Cadbury Schweppes	Chairmanship (meetings) and lecture fees. Departmental research and education in medicine and health, including food safety and metabolism. Consultancy: Research Project Management Consultancy	None
Professor Annie Anderson	None	N/A	None	N/A	None
Professor Sheila Bingham	None	N/A	None	N/A	None
Mrs Christine Gratus	None	N/A	None	N/A	None
Dr Paul Haggarty	Smith Nephew Diageo Cafe Direct	Shareholder Shareholder Shareholder	Pharmaton Editorial Consultant on the American College of Physicians' Information and Education Resource Nutrition & Health conference and German Society for Reproductive Medicine	Unpaid advisor on pregnancy study protocol. Consultation fee contributed to research funds. Lecture fees contributed to research funds.	None

MEMBER	PERSONAL INTERESTS		NON-PERSONAL INTERESTS		ANY OTHER INTERESTS
	Company	Nature of Interest	Company	Nature of Interest	
Professor Timothy Key	None	N/A	None	N/A	Member of Vegetarian Society Member of the Vegan Society
Professor Peter Kopelman	None	N/A	None	N/A	Chair of Universities & Colleges Employers Association Clinical Academic Staff Advisory Group. Board member of Medical Education England (MEE), Member of Governance Board of the Centre for Workforce Intelligence.
Dr Susan Lanham-New	D3TEX LTD GlaxoSmithKline	Research Director Shareholder Consultancy	Wassen International	Research Funding	None
Dr Julie Lovegrove	GlaxoSmithKline	Consultancy/review writing	Unilever GlaxoSmithKline Jordan Nutricia Sainsburys	Research Funding Food 'in kind' for research Research Funding Research project funding; PhD student funding Research Funding Food 'in kind; for research	None
Professor Ian Macdonald	Mars Europe CocaCola Europe	Advisory Board European Scientific Advisory Committee	Mars Incorporated / Mars Europe Unilever Nestle Coca Cola International	Research project funding; PhD student funding Research Project funding & Phd student funding Research project funding International Public Policy Advisory Board, (Honorary paid into University Research funds)	Board member, Obesity International Trading (trading company owned by International Association for the Study of Obesity)
Professor Harry McArdle	EBRC SMBH Hannover, Germany	Consultancy*	International Copper Association	Research Funding	None
Dr David Mela	Unilever	Employee and shareholder	None	N/A	None
Dr Anita Thomas	None	N/A	None	N/A	None
Dr Stella Walsh	None	N/A	None	N/A	Consumer representation for National Federation of Consumers.

*Expert advice on essentiality of micronutrients, occasional consultancy work on setting safe levels of emissions for industry

			Nestle Emap Kelloggs Almond Board California Nunwood Consulting Pepsico GlaxoSmithKline British Institute of Sport The Pelican Buying Co National Institute of Nutrition J Sainsbury	Consultancy Consultancy Consultancy Consultancy Consultancy Consultancy Consultancy Consultancy Consultancy Consultancy	
Professor Ian Young			Unilever The Sugar Bureau	Research Funding Research Funding	None
Professor Angus Walls	GlaxoSmithKline	Consultancy	GlaxoSmithKline	Research Funding	None
Professor Hilary Powers	None	N/A	None	N/A	None

Annex 6

SACN Working groups and subgroups - declaration of interests

MEMBER	PERSONAL INTERESTS		NON-PERSONAL INTERESTS		ANY OTHER INTERESTS
	Company	Nature of Interest	Company	Nature of Interest	
Working Group on Carbohydrates					
Professor Ian Johnson					
Working Group on Iron					
Professor Philip Calder	Equazen Dutch Numico Mead Johnson Nutritionals B. Braun Melsungen Solvay Healthcare	Consultancy fees Consultancy fees Consultancy fees Lecture fees Lecture fees	B. Braun Melsungen	Research funding	None
Professor Sue Fairweather-Tait	British Egg Information Service	Consultancy fee	Coca-Cola GlaxoSmithKine British Egg Information Service Unilever Totus Medica	Research funding Research funding and consultancy fees Research funding Consultancy fee Travel funds	None
Professor Kim Fleischer Michaelsen	None	N/A	None	N/A	None
Professor Sally Grantham-McGregor	None	N/A	None	N/A	None
Professor Joe Lunec	None	N/A	None	N/A	None

Professor Martin Pippard	None	N/A	None	N/A	None
Professor Mark Worwood	Nelsonbach	Advice on Spatone (single occasion)	None	N/A	None
Working Group on Energy					
Professor Marinos Elia	None	N/A	None	N/A	None
Professor Joe Millward	Innocent	Consultant	None	N/A	None
Professor Andrew Prentice	None	N/A	Tanita UK Danone	Member of Medical Advisory Board One-off consultancy	None
Professor Chris Riddoch	None	N/A	None	N/A	None
Working Group on Folate/Cancer					
Professor David Phillips	Santander Aviva National Grid BG Group Centrica Takeda Movetis Buller Jeffries	Shareholder Shareholder Shareholder Shareholder Shareholder Consultant Consultant Consultant	AstraZeneca	Research collaboration	None

Professor Alan Boobis	Banco Santander SA Barclays BG Group BT Group Centrica PLC HBOS Iberdrola SA National Grid Scottish Power Thus Astellas Pharma Sumitomo Chemical (UK) PLC Proctor & Gamble Howrey LLP	Shareholder Consultancy	GlaxoSmithKline Food Standards Agency Department of Health Commission of the EU (FP6) ESRC ILSI HESI Elsevier JMPR JECFA (vet drugs) EFSA PPR Panel (Panel on Plant Protection Products and their Residues) ECETOC Task Force on Guidance for Classification of Carcinogens under GHS EFSA Scientific Committee Working Group on Risk-Benefit Assessment EFSA Scientific Committee Working group on the Benchmark Dose	Support by Industry Research Contract PhD Studentship Unpaid chair of Board of Trustees Editor-in-Chief; Food and Chemical Toxicology Member	None
Professor Elio Riboli	None	N/A	None	N/A	None
Subgroup on Maternal and Child Nutrition					
Dr Robert Fraser	None	N/A	None	N/A	

Dr Sian Robinson	None	N/A	None	N/A	
Dr Ken Ong	None	N/A	Mead Johnson Nutrition	Consultancy – Payments are made to a Dept Paediatrics, University of Cambridge Dept Education account	