

SACN Working Group on Iron: Friday 17 January 2003
FSA, Conference Room 2, Aviation House, 125 Kingsway, London WC2

AGENDA

10.30 am Tea & Coffee

11.00 Welcome
Chair's Introduction

1. Minutes of 2nd Meeting (24 July 2002)

2. Review of Terms of Reference

3. Review of draft outline and papers

- Review of the Working Group's Draft Action Plan (Annex 1)

Physiological and pathological influences on iron metabolism

Papers for discussion

HFE genotypes and iron status:

- Merryweather-Clarke *et al.* (2000) Geography of HFE C282Y and H63D mutations. (Annex 2)
- Beutler *et al.* (2000) The effect of HFE genotypes on measurements of iron overload in patients attending a health appraisal clinic. HFE and disease: (Annex 3)
- Worwood. (2002) HFE mutations a risk factors for disease. (Annex 4)
- Willis,G *et al.* (2002) HFE mutations in an inflammatory arthritis population. (Annex 5)

The role of hepcidin as a regulator of iron absorption:

- Frazer *et al.* (2002) Hepcidin expression inversely correlates with the expression of duodenal iron transporters and iron absorption in rats. (Annex 6)
- Nicolas *et al.* (2002) The gene encoding the iron regulatory peptide hepcidin is regulated by anemia, hypoxia, and inflammation. (Annex 7)

Effects of iron deficiency on mental and physical development

Progress report to group

- Preliminary drafts from previous meeting (Annex 8)
- Friel *et al.* (2001). A randomised trial of two levels of iron supplementation and developmental outcome in LBW infants. (Annex 9)

Effects of different dietary patterns on iron absorption and utilization.

Progress report to group

- Preliminary drafts from previous meeting (Annex 10)
- Chapters 9 and 10 of NDNS: children aged 1 ½ - 4 ½ (Annex 11)
- Chapters 9 and 12 of NDNS: young people aged 4-18 years (Annex 12)
- Biochemical status data from NDNS: adults aged 19-64 years (Annex 13)
- Cooper & Zlotkin. (1996). Day-to-day variation of transferrin receptor and ferritin in healthy men and women. (Annex 14)
- Further information on the restoration of iron in imported flour (Annex 15)

Potential adverse effects of excess iron, in particular, promotion of free radical damage and the risk of cardiovascular disease and cancer.

Preliminary Drafts

- Iron as a pro-oxidant (Annex 16)
- Effects of iron deficiency and excess on immunity and infection (Annex 17)
- Epidemiological studies of iron and chronic diseases (Annex 18)

Meta-analysis papers on the association between iron/meat and colo-rectal cancer (CRC).

- Sandhu *et al.* (2001). Systematic review of the prospective cohort studies on meat consumption and CRC risk. (Annex 19)
- Norat *et al.* (2002). Meat consumption and CRC risk. (Annex 20)

4. Aims and objectives of each section

5. Work Programme

6. AOB

7. Date of next meeting

- END -

N.B Lunch will be served at an appropriate interval