

SACN Working Group on Iron: Tuesday 23 March 2004

FSA, Conference Room 145, Aviation House, 125 Kingsway, London WC2B

AGENDA

10.00 am Tea & Coffee

10.30 Welcome
 Chair's Introduction

1. Minutes of 6th Meeting (14 January 2004)

2. Matters arising

US Dietary Reference Intakes: Chapter on iron **(Annex 1)**

Report of the Scientific Committee on Food on the Revision of Essential Requirements of Infant Formulae & Follow-on Formulae: Chapter on iron **(Annex 2)**

TfR analysis on stored NDNS samples. Consider research recommendation.
(Ann Prentice to lead)

Papers requested for information **(Annex 3-11)**

3. Agreement of biochemical indices of iron status and cut offs for NDNS analysis.
(Ann Prentice to lead)

- Note of conference call to discuss Section 7: Iron intakes and status of the British population. **(Annex 12)**

4. Discussion on NDNS data analysis. (Ann Prentice to lead)
Please refer to Annexes 4a – 4e from previous meeting

- Updated (and previous) outline for Section 7
- NDNS: Iron intakes data tables
- NDNS: Iron intakes summary graphs
- Scatterplot examples from each NDNS survey (Hb vs MCV, Hb vs ferritin, MCV vs ferritin)
- Table of regressions for the correlations depicted in scatterplots

Adverse effects of iron

5. Review and discussion of epidemiological studies of iron and chronic diseases
(Tim Key to lead)

- Report Section 6: Adverse effects **(Annex 13)**

6. Review and discussion of experimental data on the adverse effects of iron
(Mark Worwood to lead)

- Report Section 6: Adverse effects **(Annex 13)**

Iron and immunity/infection

7. Review and discussion of evidence on the effects of iron deficiency and excess on immunity and infection (Peter Aggett to lead)

- New Report Section: Iron and immunity/infection **(Annex 14)**

Iron deficiency and cognitive development

8. Review and discussion of evidence on iron deficiency and cognitive development in children (Peter Aggett to lead)

- Grantham-McGregor S & Ani C review (2001). **(Annex 15)**

9. Review of workplan

Papers requested for information

Belza A *et al* (2003). Variation of iron status parameters in young healthy but iron deplete women. **(Annex 3)**

Moos T. Brain iron homeostasis. **(Annex 4)**

Iron and cognitive function in older children and adolescents

Bruner AB *et al* (1996). Randomised study of cognitive effects of iron supplementation in non-anaemic iron-deficient adolescent girls. **(Annex 5)**

Halterman JS *et al* (2001). Iron deficiency and cognitive achievement among school-aged children and adolescents in the United States. **(Annex 6)**

Anaemia (in absence of iron deficiency) and cognitive function

Stivelman JC (2000). Benefits of anaemia treatment on cognitive function **(Annex 7)**

Effects of iron deficiency on myoglobin

Hagler L *et al* (1981). Influence of dietary iron deficiency on hemoglobin myoglobin, their respective reductases, and skeletal muscle mitochondrial respiration **(Annex 8)**

Hargreaves RM *et al* (1981). Myoglobin depletion in childhood iron deficiency **(Annex 9)**

Breath-holding spells

Orii KE *et al* (2002). Changes of autonomic nervous system function in patients with breath-holding spells treated with iron. **(Annex 10)**

Yager JY *et al* (2002). Neurologic manifestations of iron deficiency in childhood. **(Annex 11)**