

Scientific Advisory Committee on Nutrition

Subgroup on Salt: Draft Agenda 10am on 18 April, AVH, Room 727

1. Minutes of the last meeting SACN/SaltSub/02/min01
2. Documents relating to the relevant paragraph of SACN/SaltSub/02/min01: sent on 14 March '02.

Para (15)

- **Alderman** MH, Madhavan S, Cohen H. Low urinary sodium associated with greater risk of myocardial infarction among treated hypertensive men. *Hypertension* 1995; 25:1144-1152.
- **He** J, Odgen LG, Vupputuri S, Bazzano LA, Loria C, Whelton PK. Dietary sodium intake and subsequent risk of cardiovascular disease in overweight adults. *JAMA* 1999; 282:2027-2034.
- **Chioloro** A, Maillard M, Nussberger J, Brunner H-R & Burnier M. proximal sodium reabsorption: an independent determinant of blood pressure response to salt. *Hypertension* 2000; 36: 631-7.
- **Conlin** PR, Chow D, Miler ER III, et al. The effect of dietary patterns on blood pressure control in hypertensive patients: results from the Dietary Approaches to Stop Hypertension (DASH) trial. *Am J Hypertension* 2000; 13:949-955.

Para (16)

- **Allsopp** AJ, Sutherland R, Wood P, Wootton SA, The effect of sodium balance on sweat sodium secretion and plasma aldosterone concentration, *Eur J Physiol Occup Physiol* 1998, Nov;78(6): 516-21. Institute of Naval Medicine, Gosport, Hampshire, UK.

Para (17)

- **Appel** LJ, Moore TJ, Obarzanek E, Vollmer WM, Svetkey LP, Sacks FM, Bray GA, Vogt TM, Cutler JA, Windhauser MM, Lin PH, Karanja N. A clinical trial of the effects of dietary patterns on blood pressure. DASH Collaborative Research Group. *N Engl J Med* 1997; 336[16]: 1117-24.
- **Sacks** FM, Svetkey LP, Vollmer WM, Appel LJ, Bray GA, Harsha D, Obarzanek E, Conlin PR, Miller ER 3rd, Simons-Morton DG, Karanja N, Lin PH. Effects on blood pressure of reduced dietary sodium and the Dietary Approaches to Stop Hypertension (DASH) diet. DASH-Sodium Collaborative Research Group. *N Engl J Med* 2001; 344[1]: 3-10.

Para (22)

- **Geleijnse** JM, Hofman A, Witteman JCM, Hazebroek AAJM, Valkenburg HA, Grobbee DE. Long-term effects of neonatal sodium restriction on blood pressure. *Hypertension*. 1996;29:913-7

- The Trials of Hypertension Prevention Collaborative Research Group. Effect of weight loss and sodium reduction intervention on blood pressure and hypertension incidence in overweight people with high-normal blood pressure. The Trials of Hypertension Prevention, Phase II. Arch Intern Med 1997;157:657-67.
- **Whelton** PK, Appel LJ, Eepeland MA, Appelgate WB, Ettinger WH, Kostis JB, Kumanyika S, Lacy CR, Johnson KC, Folmar S, Culter JA, for the Tone Collaborative Research Group. JAMA 1998;279:839-46.
- **Cappuccio** FP, Markandu ND, Carney C, Sagnella GA, MacGregor GA. Double-blind randomised trial of modest salt restriction in older people. Lancet 1997;350:850-4.
- **He** FJ, Markandu ND, Sagnella GA, MacGregor GA. Effect of salt intake on renal excretion of water in humans. Hypertension 2001;38:317-20.
- **Vartianinen** E, Puska P, Pekkanen J, Tuomilehto J, Jousilahti P. Changes in Risk Factors explain changes in mortality from ischaemic heart disease in Finland. BMJ 1994;309:23-7
- **Vartianinen** E, Sarti C, Tuomilehto J, Kuulasmaa K. Does changes in cardiovascular risk factors explain changes in mortality from stoke in Finland. BMJ 1994;310:901-4.

Para (29)

- **Lucas** A, Morley R, Cole TJ, Gore SM. A randomised multicentre study of human milk versus formula and later development in preterm infants. Arch Dis Child Fetal Neonatal Ed 70[2], F141-6. 1994.
- **Lucas** A, Morley R, Hudson GJ, Bamford MF, Boon A, Crowle P, Dossetor JF, Pearse R. Early sodium intake and later blood pressure in preterm infants. Arch Dis Child 63[6], 656-7. 1988.
- **Singhal** A, Cole TJ, Lucas A. Early nutrition in preterm infants and later blood pressure: two cohorts after randomised trials. Lancet 357[9254], 413-9. 2001.

Para (30)

- **Law** CM, Shiell AW. Is blood pressure inversely related to birth weight? The strength of evidence from a systematic review of the literature. J Hypertens 1996 Aug;14(8): 935-41
- **Huxley** RR, Law CM, Shiell AW. The role of size at birth and postnatal catch-up growth in determining systolic blood pressure: a systematic review of the literature. J Hypertens 2000 Jul; 18(7): 815-31

3. Further studies requested: sent on 28 March '02

SUBJECT	AUTHORS/TITLE OF PAPER	PAPER/ STUDY TYPE
Use of salt as a preservative	Reddy KA, Marth EH. <i>Reducing the sodium content of foods: A review</i> (1991)	Review
Sodium Reduction	Chrysant GS, Bakir S, Oparil S. <i>Dietary salt reduction in hypertension – what is the evidence and why is it still controversial?</i> (1999)	Review
	de Wardener HE. <i>Salt reduction and cardiovascular risk: the anatomy of a myth</i> (1999)	Commentary

	Kumanyika SK, Cutler JA. <i>Dietary sodium reduction: Is there cause for concern?</i> (1997)	Review
Salt conservation/ Adaptation	Armstrong LE, Hubbard RW, Askew EW et al. <i>Responses to moderate and low sodium diets during exercise-heat acclimation</i> (1993)	Intervention
	Hargreaves M, Morgan TO, Snow R, Guerin M. <i>Exercise tolerance in the heat on low and normal salt intakes</i> (1989)	Intervention
Effect of chloride on blood pressure	Kotchen TA, Kotchen JM. <i>Dietary sodium and blood pressure: interactions with other nutrients</i> (1997)	Review
	Kotchen TA, McCarron DA. <i>Dietary electrolytes and blood pressure. A statement for healthcare professionals from the American Heart Association Nutrition Committee</i> (1998)	Review
DASH	Svetkey LP, Moore TJ, Simons-Morton DG et al. <i>Angiotensinogen genotype and blood pressure response in the DASH study</i> (2001)	Randomised feeding study
	Vollmer WM, Sacks FM, Svetkey LP. <i>New insights into the effects on blood pressure of diets low in salt and high in fruits and vegetables and low-fat dairy products</i> (2001)	Commentary
	Vollmer WM, Sacks FM, Ard J, Appel LJ et al. <i>Effects of diet and sodium intake on blood pressure: subgroup analysis of the DASH-Sodium trial</i> (2001)	Randomised feeding study
Salt sensitivity	Barba G, Cappuccio FP, Russo L et al. <i>Renal function and blood pressure response to dietary salt restriction in normotensive men</i> (1996)	Intervention
	Chioloro A, Wurzner G, Burnier M. <i>Renal determinants of the salt sensitivity of blood pressure</i> (2001)	Review
	Weinberger MH. <i>Salt sensitivity of blood pressure in humans</i> (1996)	Review
Renal physiology	Klabunde RE. <i>Renin-Angiotensin system</i> (2001)	Web resource
	Kurokawa K. <i>Tuboglomerular feedback: its physiological and pathophysiological significance</i> (1998)	Review
Children/Infants	Chevalier RL. <i>The moth and the aspen tree: sodium in early postnatal development</i> (2001)	Review
	Falkner B, Michel S. <i>Blood pressure response to sodium in children and adolescents</i> (1997)	Review
	Geleijnse JM, Grobbee DE, Hofman A. <i>Sodium and potassium intake and blood pressure change in childhood</i> (1990)	Longitudinal Study
	Gillum RF, Elmer PJ, Prineas RJ. <i>Changing sodium intake in</i>	Randomised

	<i>children. The Minneapolis Children's Blood Pressure Study</i> (1981)	control trial
	Jose PA, Fildes RD, Gomez RA, Chevalier RL, Robillard JE. <i>Neonatal renal function and physiology</i> (1994)	Review
	Simons-Morton DG, Orbazanek E. <i>Diet and blood pressure in children and adolescents</i> (1997)	Review
	Sinaiko A, Gomez-Marin O, Prineas RJ. <i>Effect of low sodium diet or potassium supplementation on adolescent blood pressure</i> (1993)	Randomised control trial
	Whitten CF. <i>Metabolic data on the handling of NaCl by infants</i> (1969)	Abstract

- **With reference to para (24) of the minutes of the salt subgroup meeting of 25 January:** Fodor JG, Whitmore B, Leenan F, Larochelle P. *Recommendations on dietary salt*. CMAJ 1999; 160(S9): S29-S34
4. **Application of draft framework for risk assessment**
 5. **Consider whether evidence for children should be reviewed by the subgrp in order to quantify a recommended amt for the general pop of children.**
 6. **Conclusion and consideration of further work.**
 7. **Main Report/Reporting back to main committee.**
 8. **Date for next meeting.**