

Aggregation of diets containing fatty and sugary foods and fruit and vegetables within cohabiting couples By A.A. LAKE, A.M. CRAIGIE, C. NEWOLD, M. GIBBONS, A.J. RUGG-GUNN, J.C. MATHERS AND A.J. ADAMSON, *University of Newcastle, Human Nutrition Research Centre, Wellcome Research Laboratories, RV1, Queen Victoria Rd, Newcastle upon Tyne NE1 4LP*

Marriage and cohabitation brings together two independent food choice systems. Within this new system spousal preferences have an influence on both partners' food choices and nutritional intakes for an extended time period (Sohal *et al.* 2000). There is also a symbolic importance drawn from the fact that couples are eating together, as well as the complex issues of power and control over food choice, food purchase and preparation. This unit has the potential to influence eating patterns in children and may be an appropriate target for health promotion messages.

llowed up 21 years later in adulthood. The investigation involved 202 individuals from whom dietary data were collected in 1979–80 (mean age 6 years) (Hackett *et al.* 1984) and again in 2000–1 (mean age 32.5 years). Dietary data were collected at three time-points using two 3 d estimated food diaries followed by an interview to determine portion sizes, and the method considered most appropriate at the time, i.e. calibrated food models in 1979–80 and a photographic food atlas (Nelson *et al.* 1997) in 2000–1. Foods consumed were allocated to one, or a combination of, the five food groups of the Balance of Good Health food selection guide (HEA, 1994) according to Gatenby *et al.* (1995). The weight of food eaten from each of the five food groups was calculated (percentage of total weight of food consumed) and Pearson correlation coefficients generated to provide an estimate of the stability of food intake.

$r=0.02$ between 11.6 and 32.5 years, the correlations were not strong. In conclusion, food intake patterns had changed considerably from early adolescence to adulthood in a direction more in line with the current recommendations. The predictive value of an adolescent's food intake of their intake in adulthood was found to be significant, but not strong. Further investigations will consider the extent to which this is influenced by factors such as social class, gender and educational level as well as assessing tracking in terms of relative nutrient intake.

Fruit and vegetables provided a higher proportion of intake for females than for males, 26.9% (SD 10.2, CI 24.0–29.2) and 21.5% (SD 9.0, CI 19.5–23.5) respectively.

		Distribution of partners amongst tertiles for fruit and vegetables contributions to food weight		
		Female partner		
		Lower tertile	Middle tertile	Upper tertile
Male partner	Lower tertile	17		
	Middle tertile	7	4	5
	Upper tertile	2	13	7
		10	10	15

Pearson's correlations were used to measure the strength of association between food group intakes between men and women. Significant correlations were seen for intakes of fatty and sugary foods ($P<0.01$,

r = 0.53) and for fruit and vegetables ($P < 0.01$, $r = 0.56$). Previous work has indicated strong links between the diets of spouses or cohabiting adults (Kemmer *et al.* 1998). This work indicates that there are strong correlations between intake of the groups of foods containing fat and/or sugar and, in particular, fruits and vegetables consumed by couples. Further work examining the dynamics of the food relationship within families, social influences and correlations between dietary habits of couples and parents and children is in progress.

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