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Children's Fruit and Vegetable Consumption in Liverpool over the past decade

J. C. Abayomi¹, L. M. Boddy², B. Johnson³, A. F. Hackett¹ and G Stratton⁴ ¹Faculty of Education, Community and Leisure, Liverpool John Moores University, IM Marsh Campus, Barkhill Road, Liverpool L17 6BD, ²The Physical Activity Exchange, Research Institute for Sport and Exercise Sciences, Liverpool John Moores University, 62 Great Crosshall Street, Liverpool L3 2AT, ³Department of Community Dietetics,

Abercromby Health Centre, Grove Street, Liverpool, L7 7HG, UK and ⁴Applied Sports Technology, Exercise and Medicine Research Centre, College of Engineering, Swansea University, Singleton Park, Swansea, SA2 8PP. UK

The current mean UK intake of fruit and vegetables (F&V) for 11-18 year olds is low and estimated to be 3.4 portions per day for boys and 2.8 portions per day for girls⁽¹⁾. The aim of this study was to investigate changes in F&V consumption in serial cohorts of 9-10 yr old children from 2000-2001 to 2010-2011. Children in UK school year 5 (9-10 yrs of age) completed the SportsLinx Lifestyles Survey containing a food intake questionnaire⁽²⁾, (n = 30,239 [15,336 boys, 14,903 girls]). The proportion of boys and girls reportedly consuming F&V on the previous day to surveying were investigated annually from 2000-2011. Positive changes in F&V consumption were observed over time, with the most recent cohort more likely to consume F&V in comparison to the 2000–2001 baseline. Girls were more likely to consume F&V across several study years in comparison to boys (Table 1).

Table 1. Self-reported consumption of fruit, vegetables: Boys and girls 2000–2001 to 2010–2011

Year	Fruit					Vegetables				
	Boys		Girls			Boys		Girls		
	N	%	n	%	P value	n	%	n	%	P value
2000-2001	1137	71.5	1108	70.7	0.33	479	30.7	469	30.6	0.49
2001-2002	964	71.4	873	71.9	0.41	424	32.1	373	31.4	0.36
2002-2003	975	70.9	1021	75.0	0.01	477	35.0	471	35.2	0.48
2003-2004	1334	75.0	1409	77.7	0.03	676	38.6	775	43.6	0.04
2004-2005	1209	76.8	1257	80.8	< 0.01	591	37.9	685	44.3	< 0.01
2005-2006	879	84.0	913	88.0	< 0.01	442	43.0	509	48.9	0.004
2006-2007	1355	84.0	1335	87.0	0.01	714	44.6	710	46.3	0.185
2007-2008	1027	81.5	1068	87.5	< 0.01	527	42.1	566	46.9	< 0.01
2008-2009	1138	82.9	1226	84.6	0.13	584	42.9	661	45.6	0.08
2009-2010	436	80.9	477	86.7	< 0.01	231	43.6	260	47.3	0.12
2010-2011	662	76.9	672	81.5	0.07	355	41.5	359	44.1	0.22

These encouraging findings suggest that children's F&V intake has improved since 2000. Furthermore, data indicate that boys and girls may require separate or different healthy eating messages to further improve food intake.

- 1. National Diet and Nutrition Survey (2010) Available at: http://www.food.gov.uk/multimedia/pdfs/publication/ndnsreports0809.pdf. (Accessed
- Johnson B, Hackett A, Bibby A & Cross J (1999) An investigation of the face validity of a food intake questionnaire: lessons for dietary advice? Journal of Human Nutrition and Dietetics 12, 307-316.

