Search Plan and Results

**Question**

Is total energy intake associated with adiposity in children? (DGAC 2010)

**Date Searched**

7/9/2009

**Inclusion Criteria**

- Publication date January 2004 through July 9, 2009
- English language
- Human subjects
- Children (zero to 18 years)
- Included at least one outcome measure of adiposity (e.g., body weight, body mass index, skinfolds, percent body fat).

**Exclusion Criteria**

- Conducted in developing countries
- Published in journals that are not peer-reviewed
- Included no measure of adiposity (e.g., body weight, body mass index, skinfolds, percent body fat)
- Involved exclusively children less than two years old or adolescents over 18 years old
- Treatment trial conducted for less than eight weeks (not including duration of follow-up)
- Prevention trial conducted for less than six months (not including duration of follow-up)
- Treatment trial involved fewer than 10 subjects total (or fewer than 10 in the intervention group)
- Prevention trial involved fewer than 60 subjects total (or fewer than 30 in the intervention group)
- Treatment trials involving pharmacological interventions (because of lack of research in these areas)
- Cross-sectional studies.

**Search Terms: Search Vocabulary**

"Energy Intake"[Mesh] OR (dietary intake*) OR (nutrient* intake*) OR (nutritional intake) OR (caloric intake*) OR (macronutrient intake*) OR (dietary pattern*) AND "Adiposity"[Mesh] OR "Overweight"[Mesh] OR "Obesity"[Mesh] OR "Weight Gain"[Mesh]. Also searched "Adiposity"[majr] OR "Overweight"[Majr] OR

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"Obesity"[Majr] OR "Weight Gain"[Majr]

Electronic Databases

PubMed.

**Total hits from all electronic database searches:** 425

**Total articles identified to review from electronic databases:** 81

Articles Identified Via Handsearch or Other Means

Articles identified via hand search: One.

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Summary of Articles Identified to Review

**Number of Primary Articles Identified:** 4

**Number of Review Articles Identified:** 0

**Total Number of Articles Identified:** 4

**Number of Articles Reviewed but Excluded:** 78

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List of Articles Included for Evidence Analysis

Fulton JE, Dai S, Steffen LM, Grunbaum JA, Shah SM, Labarthe DR. Physical activity, energy intake, sedentary behavior, and adiposity in youth. *Am J Prev Med.* 2009 Jul; 37(1 Suppl): S40-S49. PMID: 19524155. (Hand search)

Ong KK, Emmett PM, Noble S, Ness A, Dunger DB; ALSPAC Study Team. Dietary energy intake at the age of 4 months predicts postnatal weight gain and childhood body mass index. *Pediatrics.* 2006 Mar; 117(3): e503-e508. PMID: 16510629.

Savage JS, Mitchell DC, Smiciklas-Wright H, Symons Downs D, Birch LL. Plausible reports of energy intake may predict body mass index in pre-adolescent girls. *J Am Diet Assoc.* 2008 Jan; 108(1): 131-135. PMID: 18155999.

Stunkard AJ, Berkowitz RI, Schoeller D, Maislin G, Stallings VA. Predictors of body size in the first 2 years of life: A high-risk study of human obesity. *Int J Obes Relat Metab Disord.* 2004 Apr; 28(4): 503-513. PMID: 14758342.

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List of Excluded Articles with Reason

| Article (A-L) | Reason for Exclusion |
|---|---|
| Aeberli I, Kaspar M, Zimmermann MB. Dietary intake and physical activity of normal weight and overweight 6 to 14 year old Swiss children. *Swiss Med Wkly.* 2007 Jul 28; 137(29-30): 424-430. PMID: 17705105. | Study design is cross-sectional. |
| Amin TT, Al-Sultan AI, Ali A. Overweight and obesity and their relation to dietary habits and socio-demographic characteristics among male primary school children in Al-Hassa, Kingdom of Saudi Arabia. *Eur J Nutr.* 2008 Sep; 47(6): 310-318. Epub 2008 Aug 1. PMID: 18677544. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Bertheke Post G, de Vente W, Kemper HC, Twisk JW. Longitudinal trends in and tracking of energy and nutrient intake over 20 years in a Dutch cohort of men and women between 13 and 33 years of age: The Amsterdam growth and health longitudinal study. *Br J Nutr.* 2001 Mar; 85(3): 375-385. PMID: 11299083. | Study subjects are adults. |
| Braet C, Claus L, Goossens L, Moens E, Van Vlierberghe L, Soetens B. Differences in eating style between overweight and normal-weight youngsters. *J Health Psychol.* 2008 Sep; 13(6): 733-743. PubMed PMID: 18697886. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Butte NF, Christiansen E, Sørensen TI. Energy imbalance underlying the development of childhood obesity. *Obesity (Silver Spring).* 2007 Dec; 15(12): 3, 056-3, 066. PubMed PMID: 18198315. | Did not include total energy intake as a measured outcome. |
| Caballero B. Obesity prevention in children: Opportunities and challenges. *Int J Obes Relat Metab Disord.* 2004 Nov; 28 Suppl 3: S90-S95. Review. PMID: 15543227. | Study is a narrative review. |
| Corvalán C, Uauy R, Flores R, Kleinbaum D, Martorell R. Reductions in the energy content of meals served in the Chilean National Nursery School Council Program did not consistently decrease obesity among beneficiaries. *J Nutr.* 2008 Nov; 138(11): 2, 237-2, 43. PMID: 18936225. | Study not conducted in a developed country according to the Human Development Index, 2008. |

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|---|---|
| Davis JN, Alexander KE, Ventura EE, Kelly LA, Lane CJ, Byrd-Williams CE, Toledo-Corral CM, Roberts CK, Spruijt-Metz D, Weigensberg MJ, Goran MI. Associations of dietary sugar and glycemic index with adiposity and insulin dynamics in overweight Latino youth. *Am J Clin Nutr.* 2007 Nov; 86(5): 1331-1, 338. PMID: 17991643. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Dodd CJ, Welsman JR, Armstrong N. Energy intake and appetite following exercise in lean and overweight girls. *Appetite.* 2008 Nov; 51(3): 482-488. Epub 2008 Mar 26. PMID: 18485530. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Dubois L, Farmer A, Girard M, Peterson K. Regular sugar-sweetened beverage consumption between meals increases risk of overweight among preschool-aged children. *J Am Diet Assoc.* 2007 Jun; 107(6): 924-934; discussion 934-935. PMID: 17524711. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Dubois L, Girard M, Potvin Kent M, Farmer A, Tatone-Tokuda F. Breakfast skipping is associated with differences in meal patterns, macronutrient intakes and overweight among pre-school children. Publi*c Health Nutr.* 2009 Jan; 12(1): 19-28. Epub 2008 Mar 18. PMID: 18346309. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Duerksen SC, Elder JP, Arredondo EM, Ayala GX, Slymen DJ, Campbell NR, Baquero B. Family restaurant choices are associated with child and adult overweight status in Mexican-American families. *J Am Diet Assoc.* 2007 May; 107(5): 849-853. PMID: 17467384. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Ebbeling CB, Sinclair KB, Pereira MA, Garcia-Lago E, Feldman HA, Ludwig DS. Compensation for energy intake from fast food among overweight and lean adolescents. *JAMA.* 2004 Jun 16; 291(23): 2, 828-2, 833. PMID: 15199032. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Faith MS, Berkowitz RI, Stallings VA, Kerns J, Storey M, Stunkard AJ. Eating in the absence of hunger: A genetic marker for childhood obesity in prepubertal boys? *Obesity (Silver Spring).* 2006 Jan; 14(1): 131-138. PMID: 16493131. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Faith MS, Dennison BA, Edmunds LS, Stratton HH. Fruit juice intake predicts increased adiposity gain in children from low-income families: Weight status-by-environment interaction. *Pediatrics.* 2006 Nov; 118(5): 2, 066-2, 075. PMID: 17079580. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Faith MS, Scanlon KS, Birch LL, Francis LA, Sherry B. Parent-child feeding strategies and their relationships to child eating and weight status. *Obes Res.* 2004 Nov; 12(11): 1, 711-1, 722. Review. PMID: 15601964. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Gibson LJ, Peto J, Warren JM, dos Santos Silva I. Lack of evidence on diets for obesity for children: A systematic review. *Int J Epidemiol.* 2006 Dec; 35(6): 1, 544-1, 552. Epub 2006 Sep 19. Review. PMID: 16984930. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Gibson SA. Associations between energy density and macronutrient composition in the diets of pre-school children: Sugars vs. starch. *Int J Obes Relat Metab Disord.* 2000 May; 24(5): 633-638. PMID: 10849587. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Günther AL, Buyken AE, Kroke A. The influence of habitual protein intake in early childhood on BMI and age at adiposity rebound: Results from the DONALD Study. *Int J Obes (Lond).* 2006 Jul; 30(7): 1, 072-1, 079. Epub 2006 Mar 7. PMID: 16520809. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Günther AL, Remer T, Kroke A, Buyken AE. Early protein intake and later obesity risk: Which protein sources at which time points throughout infancy and childhood are important for body mass index and body fat percentage at 7 years of age? *Am J Clin Nutr.* 2007 Dec; 86(6): 1, 765-1, 772. PMID: 18065597. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Hackett AF, Rugg-Gunn AJ, Appleton DR, Parkin JM, Eastoe JE. A two-year longitudinal study of dietary intake in relation to the growth of 405 English children initially aged 11-12 years. *Ann Hum Biol.* 1984 Nov-Dec; 11(6): 545-553. PMID: 6524869. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Hui LL, Nelson EA, Yu LM, Li AM, Fok TF. Risk factors for childhood overweight in 6- to 7-y-old Hong Kong children. *Int J Obes Relat Metab Disord.* 2003 Nov; 27(11): 1, 411-1, 418. PMID: 14574354. | Study design is cross-sectional. |
| Huus K, Brekke HK, Ludvigsson JF, Ludvigsson J. Relationship of food frequencies as reported by parents to overweight and obesity at 5 years. *Acta Paediatr.* 2009 Jan; 98(1): 139-143. Epub 2008 Sep 24. PMID: 18823298. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Huynh DT, Dibley MJ, Sibbritt DW, Tran HT. Energy and macronutrient intakes in preschool children in urban areas of Ho Chi Minh City, Vietnam. *BMC Pediatr.* 2008 Oct 18; 8: 44. PMID: 18928562; PMCID: PMC2575195. | Study did not include any measures of adiposity in the assessed outcomes. |
| Janssen I, Katzmarzyk PT, Boyce WF, Vereecken C, Mulvihill C, Roberts C, Currie C, Pickett W; Health Behaviour in School-Aged Children Obesity Working Group. Comparison of overweight and obesity prevalence in school-aged youth from 34 countries and their relationships with physical activity and dietary patterns. *Obes Rev.* 2005 May; 6(2): 123-132. Review. PMID: 15836463. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Jimenez-Chillaron JC, Hernandez-Valencia M, Lightner A, Faucette RR, Reamer C, Przybyla R, Ruest S, Barry K, Otis JP, Patti ME. Reductions in caloric intake and early postnatal growth prevent glucose intolerance and obesity associated with low birthweight. *Diabetologia.* 2006 Aug; 49(8): 1, 974-1, 984. Epub 2006 Jun 8. PMID: 16761107. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Johnson L, Mander AP, Jones LR, Emmett PM, Jebb SA. A prospective analysis of dietary energy density at age 5 and 7 years and fatness at 9 years among UK children. *Int J Obes (Lond)*. 2008 Apr; 32(4): 586-593. Epub 2007 Oct 2. PMID: 17912267. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Johnson L, Mander AP, Jones LR, Emmett PM, Jebb SA. Energy-dense, low-fiber, high-fat dietary pattern is associated with increased fatness in childhood. *Am J Clin Nutr.* 2008 Apr; 87(4): 846-854. PMID: 18400706. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Karaolis-Danckert N, Günther AL, Kroke A, Hornberg C, Buyken AE. How early dietary factors modify the effect of rapid weight gain in infancy on subsequent body-composition development in term children whose birth weight was appropriate for gestational age. *Am J Clin Nutr.* 2007 Dec; 86(6): 1, 700-1, 708. PMID: 18065589. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Kelly SA, Melnyk BM. Systematic review of multicomponent interventions with overweight middle adolescents: implications for clinical practice and research. *Worldviews Evid Based Nurs.* 2008; 5(3): 113-135. Review. PMID: 19076911. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Klingberg S, Hallenberg E, Lorentzon M, Mellström D, Ohlsson C, Hulthén L. Characteristics of under- and over-reporters of energy intake among 18- to 20-year-old males: The Gothenburg Osteoporosis and Obesity Determinants (GOOD) study. *Public Health Nutr.* 2008 Nov; 11(11): 1, 117-1, 123. Epub 2008 Jan 2. PMID: 18167169. | Study subjects are adults. |
| Koletzko B, Broekaert I, Demmelmair H, Franke J, Hannibal I, Oberle D, Schiess S, Baumann BT, Verwied-Jorky S; EU. Protein intake in the first year of life: A risk factor for later obesity? The E.U. childhood obesity project. *Adv Exp Med Biol.* 2005; 569: 69-79. Review. PMID: 16137110. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Krahnstoever Davison K, Francis LA, Birch LL. Reexamining obesigenic families: Parents' obesity-related behaviors predict girls' change in BMI. *Obes Res.* 2005 Nov; 13(11): 1, 980-1, 990. PMID: 16339130; PMCID: PMC2530936. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Kral TV, Berkowitz RI, Stunkard AJ, Stallings VA, Brown DD, Faith MS. Dietary energy density increases during early childhood irrespective of familial predisposition to obesity: Results from a prospective cohort study. *Int J Obes (Lond).* 2007 Jul; 31(7): 1, 061-1, 067. Epub 2007 Feb 20. PMID: 17589540. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Kral TV, Stunkard AJ, Berkowitz RI, Stallings VA, Brown DD, Faith MS. Daily food intake in relation to dietary energy density in the free-living environment: A prospective analysis of children born at different risk of obesity. *Am J Clin Nutr.* 2007 Jul; 86(1): 41-47. PMID: 17616761. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Kropski JA, Keckley PH, Jensen GL. School-based obesity prevention programs: An evidence-based review. *Obesity (Silver Spring).* 2008 May; 16(5): 1, 009-1, 018. Epub 2008 Feb 28. Review. PMID: 18356849. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Kuperberg K, Evers S. Feeding patterns and weight among First Nations children. *Can J Diet Pract Res.* 2006 Summer; 67(2): 79-84. PMID: 16759434. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Lake AA, Mathers JC, Rugg-Gunn AJ, Adamson AJ. Longitudinal change in food habits between adolescence (11-12 years) and adulthood (32-33 years): the ASH30 Study. *J Public Health (Oxf).* 2006 Mar; 28(1): 10-16. Epub 2006 Feb 10. PMID: 16473923. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Lake AA, Rugg-Gunn AJ, Hyland RM, Wood CE, Mathers JC, Adamson AJ. Longitudinal dietary change from adolescence to adulthood: Perceptions, attributions and evidence. *Appetite.* 2004 Jun; 42(3): 255-263. PMID: 15183916. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Leahy KE, Birch LL, Rolls BJ. Reducing the energy density of an entrée decreases children's energy intake at lunch. *J Am Diet Assoc.* 2008 Jan; 108(1): 41-48. PMID: 18155988. | Did not include adiposity as a measured outcome. |
| Leahy KE, Birch LL, Rolls BJ. Reducing the energy density of multiple meals decreases the energy intake of preschool-age children. *Am J Clin Nutr.* 2008 Dec; 88(6): 1, 459-1, 468. PMID: 19064504. | Did not include adiposity as a measured outcome. |
| Lioret S, Touvier M, Dubuisson C, Dufour A, Calamassi-Tran G, Lafay L, Volatier JL, Maire B. Trends in child overweight rates and energy intake in France from 1999 to 2007: relationships with socioeconomic status. *Obesity (Silver Spring).* 2009 May; 17(5): 1, 092-1, 100. Epub 2009 Jan 15. PMID: 19148118. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Lioret S, Touvier M, Lafay L, Volatier JL, Maire B. Are eating occasions and their energy content related to child overweight and socioeconomic status? *Obesity (Silver Spring).* 2008 Nov; 16(11): 2, 518-2, 523. Epub 2008 Sep 4. PMID: 18772863. | Does not answer the question; examined the association between the relative contribution of meals/snacks to energy intake and weight status. |

| **Article (M-S)** | **Reason for Exclusion** |
|---|---|
| Maffeis C, Grezzani A, Perrone L, Del Giudice EM, Saggese G, Tatò L. Could the savory taste of snacks be a further risk factor for overweight in children? *J Pediatr Gastroenterol Nutr.* 2008 Apr; 46(4): 429-437. PMID: 18367957. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Magnusson MB, Hulthén L, Kjellgren KI. Obesity, dietary pattern and physical activity among children in a suburb with a high proportion of immigrants. *J Hum Nutr Diet.* 2005 Jun; 18(3): 187-194. PMID: 15882381. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| McCaffrey TA, Rennie KL, Kerr MA, Wallace JM, Hannon-Fletcher MP, Coward WA, Jebb SA, Livingstone MB. Energy density of the diet and change in body fatness from childhood to adolescence; is there a relation? *Am J Clin Nutr.* 2008 May; 87(5): 1, 230-1, 237. PMID: 18469244. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| McDonald CM, Baylin A, Arsenault JE, Mora-Plazas M, Villamor E. Overweight is more prevalent than stunting and is associated with socioeconomic status, maternal obesity, and a snacking dietary pattern in school children from Bogota, Colombia. *J Nutr.* 2009 Feb; 139(2): 370-376. Epub 2008 Dec 23. PMID: 19106320; PMCID: PMC2646207. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| McNaughton SA, Ball K, Mishra GD, Crawford DA. Dietary patterns of adolescents and risk of obesity and hypertension. *J Nutr.* 2008 Feb; 138(2): 364-370. PMID: 18203905. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Mendoza JA, Drewnowski A, Cheadle A, Christakis DA. Dietary energy density is associated with selected predictors of obesity in U.S. Children. *J Nutr.* 2006 May; 136(5): 1, 318-1, 322. PMID: 16614423. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Merchant AT, Dehghan M, Behnke-Cook D, Anand SS. Diet, physical activity, and adiposity in children in poor and rich neighbourhoods: A cross-sectional comparison. *Nutr J.* 2007 Jan 11; 6: 1. PMID: 17217531; PMCID: PMC1779798. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Mikkilä V, Räsänen L, Raitakari OT, Pietinen P, Viikari J. Consistent dietary patterns identified from childhood to adulthood: The cardiovascular risk in Young Finns Study. *Br J Nutr.* 2005 Jun; 93(6): 923-931. PMID: 16022763. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Mikkilä V, Räsänen L, Raitakari OT, Pietinen P, Viikari J. Longitudinal changes in diet from childhood into adulthood with respect to risk of cardiovascular diseases: The Cardiovascular Risk in Young Finns Study. *Eur J Clin Nutr.* 2004 Jul; 58(7): 1, 038-1, 045. PMID: 15220946. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Nelson MC, Lytle LA, Pasch KE. Improving literacy about energy-related issues: The need for a better understanding of the concepts behind energy intake and expenditure among adolescents and their parents. *J Am Diet Assoc.* 2009 Feb; 109(2): 281-287. PMID: 19167955. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Newby PK. Are dietary intakes and eating behaviors related to childhood obesity? A comprehensive review of the evidence. *J Law Med Ethics.* 2007 Spring; 35(1): 35-60. Review. PMID: 17341216. | Study is a narrative review. |
| Nielsen JN, Gittelsohn J, Anliker J, O'Brien K. Interventions to improve diet and weight gain among pregnant adolescents and recommendations for future research. *J Am Diet Assoc.* 2006 Nov; 106(11): 1, 825-1, 840. Review. PMID: 17081834. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Niemeier HM, Raynor HA, Lloyd-Richardson EE, Rogers ML, Wing RR. Fast food consumption and breakfast skipping: Predictors of weight gain from adolescence to adulthood in a nationally representative sample. *J Adolesc Health.* 2006 Dec; 39(6): 842-849. Epub 2006 Sep 27. PMID: 17116514. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Park HS, Yim KS, Cho SI. Gender differences in familial aggregation of obesity-related phenotypes and dietary intake patterns in Korean families. *Ann Epidemiol.* 2004 Aug; 14(7): 486-491. PMID: 15301785. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Ritchie LD, Spector P, Stevens MJ, Schmidt MM, Schreiber GB, Striegel-Moore RH, Wang MC, Crawford PB. Dietary patterns in adolescence are related to adiposity in young adulthood in black and white females. *J Nutr.* 2007 Feb; 137(2): 399-406. PMID: 17237318. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Sanigorski AM, Bell AC, Swinburn BA. Association of key foods and beverages with obesity in Australian schoolchildren. *Public Health Nutr.* 2007 Feb; 10(2): 152-157. PMID: 17261224. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Shepherd LM, Neumark-Sztainer D, Beyer KM, Story M. Should we discuss weight and calories in adolescent obesity prevention and weight-management programs? Perspectives of adolescent girls. *J Am Diet Assoc.* 2006 Sep; 106(9): 1, 454-1, 458. PMID: 16963352. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Singer MR, Moore LL, Garrahie EJ, Ellison RC. The tracking of nutrient intake in young children: the Framingham Children's Study. *Am J Public Health.*1995 Dec; 85(12): 1, 673-1, 677. PMID: 7503343; PMCID: PMC1615722. | Study did not include adiposity as a measured outcome. |
| Singh R, Martin BR, Hickey Y, Teegarden D, Campbell WW, Craig BA, Schoeller DA, Kerr DA, Weaver CM. Comparison of self-reported, measured, metabolizable energy intake with total energy expenditure in overweight teens. *Am J Clin Nutr.* 2009 Jun; 89(6): 1, 744-1, 750. Epub 2009 Apr 22. PMID: 19386746. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Skinner JD, Carruth BR, Houck KS, Bounds W, Morris M, Cox DR, Moran J 3rd, Coletta F. Longitudinal study of nutrient and food intakes of white preschool children aged 24 to 60 months. *J Am Diet Assoc.* 1999 Dec; 99(12): 1, 514-1, 521. PMID: 10608944. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Smith C, Richards R. Dietary intake, overweight status, and perceptions of food insecurity among homeless Minnesotan youth. *Am J Hum Biol.* 2008 Sep-Oct; 20(5): 550-563. PMID: 18491407. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| St John M, Durant M, Campagna PD, Rehman LA, Thompson AM, Wadsworth LA, Murphy RJ. Overweight Nova Scotia children and youth: The roles of household income and adherence to Canada's Food Guide to Healthy Eating. *Can J Public Health.* 2008 Jul-Aug; 99(4): 301-306. PMID: 18767276. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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|---|---|
| Swinburn BA, Sacks G, Lo SK, Westerterp KR, Rush EC, Rosenbaum M, Luke A, Schoeller DA, DeLany JP, Butte NF, Ravussin E. Estimating the changes in energy flux that characterize the rise in obesity prevalence. *Am J Clin Nutr.* 2009 Jun; 89(6): 1, 723-1, 728. Epub 2009 Apr 15. PMID: 19369382. | Study subjects were adults. |

| Article (T-Z) | Reason for Exclusion |
|---|---|
| te Velde SJ, Twisk JW, Brug J. Tracking of fruit and vegetable consumption from adolescence into adulthood and its longitudinal association with overweight. *Br J Nutr.* 2007 Aug; 98(2): 431-438. Epub 2007 Apr 16. Erratum in: *Br J Nutr.* 2007 Oct; 98(4): 871. PMID: 17433126. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Temple JL, Giacomelli AM, Roemmich JN, Epstein LH. Overweight children habituate slower than non-overweight children to food. *Physiol Behav.* 2007 Jun 8; 91(2-3): 250-254. Epub 2007 Mar 16. PMID: 17459429; PMCID: PMC1963489. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Temple JL, Legierski CM, Giacomelli AM, Salvy SJ, Epstein LH. Overweight children find food more reinforcing and consume more energy than do nonoverweight children. *Am J Clin Nutr.* 2008 May; 87(5): 1, 121-1217. PMID: 18469229. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Timpson NJ, Emmett PM, Frayling TM, Rogers I, Hattersley AT, McCarthy MI, Davey Smith G. The fat mass- and obesity-associated locus and dietary intake in children. *Am J Clin Nutr.* 2008 Oct; 88(4): 971-978. PMID: 18842783. | Study design is cross-sectional. |
| Utter J, Scragg R, Schaaf D, Mhurchu CN. Relationships between frequency of family meals, BMI and nutritional aspects of the home food environment among New Zealand adolescents. *Int J Behav Nutr Phys Act.* 2008 Oct 23; 5: 50. PMID: 18947431; PMCID: PMC2579296. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |
| Vance VA, Woodruff SJ, McCargar LJ, Husted J, Hanning RM. Self-reported dietary energy intake of normal weight, overweight and obese adolescents. *Public Health Nutr.* 2009 Feb; 12(2): 222-227. Epub 2008 Jul 29. PMID: 18662489. | Does not answer the question; did not examine the relationship between total energy intake and adiposity. |

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