Supplementary Table 2: Risk of bias among eligible studies (n=22)

Hoy et al item*

	Hoy et al item*											
No.	Study	1	2	3	4	5	6	7	8	9	Total	10
1	Ahluwalia N, Ferrières J, Dallongeville J, Simon C, Ducimetière P, Amouyel P, Arveiler D, Ruidavets JB. Association of macronutrient intake patterns with being overweight in a population-											
	based random sample of men in France. Diabetes & metabolism. 2009 Apr 30;35(2):129-36.	0	1	1	0	1	1	1	1	1	7	Low
2	Austin GL, Ogden LG, Hill JO. Trends in carbohydrate, fat, and protein intakes and association with energy intake in normal-weight, overweight, and obese individuals: 1971–2006. The American journal of clinical nutrition. 2011 Apr 1;93(4):836-43.	1	1	1	0	1	1	1	1	1	8	Low
3	Bowman SA, Spence JT. A comparison of low-carbohydrate vs. high-carbohydrate diets: energy restriction, nutrient quality and correlation to body mass index. Journal of the American College of Nutrition. 2002 Jun 1;21(3):268-74.	1	1	1	0	1	0	0	1	1	6	Medium
4	Choi J, Se-Young O, Lee D, Tak S, Hong M, Park SM, Cho B, Park M. Characteristics of diet patterns in metabolically obese, normal weight adults (Korean National Health and Nutrition Examination Survey III, 2005). Nutrition, Metabolism and Cardiovascular Diseases. 2012 Jul 31;22(7):567-74.	1	1	1	1	1	1	1	1	1	9	Low
5	Garaulet M, Marin C, Perez-Llamas F, Canteras M, Tebar FJ, Zamora S. Adiposity and dietary intake in cardiovascular risk in an obese population from a Mediterranean area. Journal of physiology and biochemistry. 2004 Mar 1;60(1):39-49.	0	0	0	0	1	0	1	1	0	3	High
6	Hartline-Grafton HL, Rose D, Johnson CC, Rice JC, Webber LS. Are school employees role models of healthful eating? Dietary intake results from the ACTION worksite wellness trial. Journal of the American Dietetic Association. 2009 Sep 30;109(9):1548-56.	0	0	1	1	1	1	1	1	1	7	Low
7	Jackson M, Walker S, Cruickshank JK, Sharma S, Cade J, Mbanya JC, Younger N, Forrester TF, Wilks R. Diet and overweight and obesity in populations of African origin: Cameroon, Jamaica and the UK. Public health nutrition. 2007 Feb;10(2):122-30.	1	1	1	0	1	1	1	1	1	8	Low
8	Kim J, Jo I, Joung H. A rice-based traditional dietary pattern is associated with obesity in Korean adults. Journal of the Academy of	1	1	1	0	1	1	1	1	1	8	Low

	Nutrition and Dietetics. 2012 Feb 29;112(2):246-53.											
9	Langlois K, Garriguet D, Findlay L. Diet composition and obesity among Canadian adults. Health Reports. 2009 Dec 1;20(4):11.	1	1	1	0	1	1	1	1	1	8	Low
10	Lin H, Bermudez OI, Tucker KL. Dietary patterns of Hispanic elders are associated with acculturation and obesity. The Journal of nutrition. 2003	0	1	0	0	1	1	1	1	1	6	Medium
11	Nov 1;133(11):3651-7. Lyles III TE, Desmond R, Faulk LE, Henson S, Hubbert K, Heimburger DC, Ard JD. Diet variety based on macronutrient intake and its relationship with body mass index.	0	1	0	0	1	1	1	1	1	0	Wedium
	Medscape General Medicine. 2006;8(3):39.	0	0	0	0	1	0	1	1	1	4	Medium
12	Ma Y, Olendzki B, Chiriboga D, Hebert JR, Li Y, Li W, Campbell M, Gendreau K, Ockene IS. Association between dietary carbohydrates and body weight. American journal of epidemiology. 2005 Feb 15;161(4):359-67.	1	0	0	0	1	1	1	1	1	6	Medium
13	Maskarinec G, Takata Y, Pagano I, Carlin L, Goodman MT, Marchand L, Nomura AM, Wilkens LR, Kolonel LN. Trends and dietary determinants of overweight and obesity in a multiethnic population. Obesity. 2006 Apr 1;14(4):717-26.	1	1	1	1	1	1	1	1	1	9	Low
14	Meng P, Jia L, Gao X, Liao Z, Wu M, Li S, Chen B. Overweight and obesity in Shanghai adults and their associations with dietary patterns. Wei sheng yan jiu= Journal of hygiene research. 2014 Jul;43(4):567-72.	1	1	1	0	1	1	0	1	1	7	Low
15	Merchant AT, Vatanparast H, Barlas S, Dehghan M, Shah SM, De Koning L, Steck SE. Carbohydrate intake and overweight and obesity among healthy adults. Journal of the American Dietetic Association. 2009 Jul 31;109(7):1165-72.	1	1	1	0	1	0	1	1	1	7	Low
16	Miller WC, Lindeman AK, Wallace J, Niederpruem M. Diet composition, energy intake, and exercise in relation to body fat in men and women. The American journal of clinical nutrition. 1990 Sep 1;52(3):426-30.	1	0	0	0	1	1	1	1	1	6	Medium
17	Mokhtar N, Elati J, Chabir R, Bour A, Elkari K, Schlossman NP, Caballero B, Aguenaou H. Diet culture and obesity in northern Africa. The Journal of nutrition. 2001 Mar 1;131(3):887S-92S.	1	1	1	0	1	1	0	1	1	7	Low
18	Murtaugh, M. A., Herrick, J. S., Sweeney, C., Baumgartner, K. B., Guiliano, A. R., Byers, T., & Slattery, M. L. (2007). Diet composition and risk of overweight and obesity in women											
	living in the southwestern United	0	1	1	0	1	1	1	1	1	7	Low

	States. Journal of the American Dietetic Association, 107(8), 1311-											
	1321 Rathnayake KM, Roopasingam T,											
	Dibley MJ. High carbohydrate diet and											
	physical inactivity associated with											
19	central obesity among premenopausal											
	housewives in Sri Lanka. BMC research											
	notes. 2014 Aug 23;7(1):564.	0	0	0	0	1	1	1	1	1	5	Medium
	Song, S., Lee, J. E., Song, W. O., Paik, H.											
	Y., & Song, Y. (2014). Carbohydrate											
	intake and refined-grain consumption											
20	are associated with metabolic											
	syndrome in the Korean adult											
	population. Journal of the Academy of	1	1	1	0	1	1	1	1	1	8	Low
	Nutrition and Dietetics, 114(1), 54-62	1	1	1	U		1	1	1		0	LOW
	Yang, E. J., Chung, H. K., Kim, W. Y.,											
	Kerver, J. M., & Song, W. O. (2003). Carbohydrate intake is associated with											
21	diet quality and risk factors for											
21	cardiovascular disease in US adults:											
	NHANES III. Journal of the American											
	College of Nutrition, 22(1), 71-79	1	1	1	0	1	1	1	1	1	8	Low
	Youn, S., Woo, H. D., Cho, Y. A., Shin,											
	A., Chang, N., & Kim, J. (2012).											
	Association between dietary											
22	carbohydrate, glycemic index,											
	glycemic load, and the prevalence of											
	obesity in Korean men and women.	•	4		_	_	4			_	_	Na di
	Nutrition research, 32(3), 153-159	0	1	0	0	1	1	1	1	1	6	Medium

*	Hoy et al item description
	Was the study's target population a close representation of the national population in relation to relevant
1	variables, e.g. age, sex, occupation
2	Was the sampling frame a true or close representation of the target population?
3	Was some form of random selection used to select the sample, OR, was a census undertaken?
4	Was the likelihood of non-response bias minimal?
5	Were data collected directly from the subjects (as opposed to a proxy)?
6	Was an acceptable case definition used in the study?
	Was the study instrument that measured the parameter of interest (e.g. prevalence of low back pain) shown to
7	have reliability and validity (if necessary)?
8	Was the same mode of data collection used for all subjects?
9	Were the numerator(s) and denominator(s) for the parameter of interest appropriate
10	Summary on the overall risk of study bias (0-3: high, 4-6: moderate, 7-9: low)