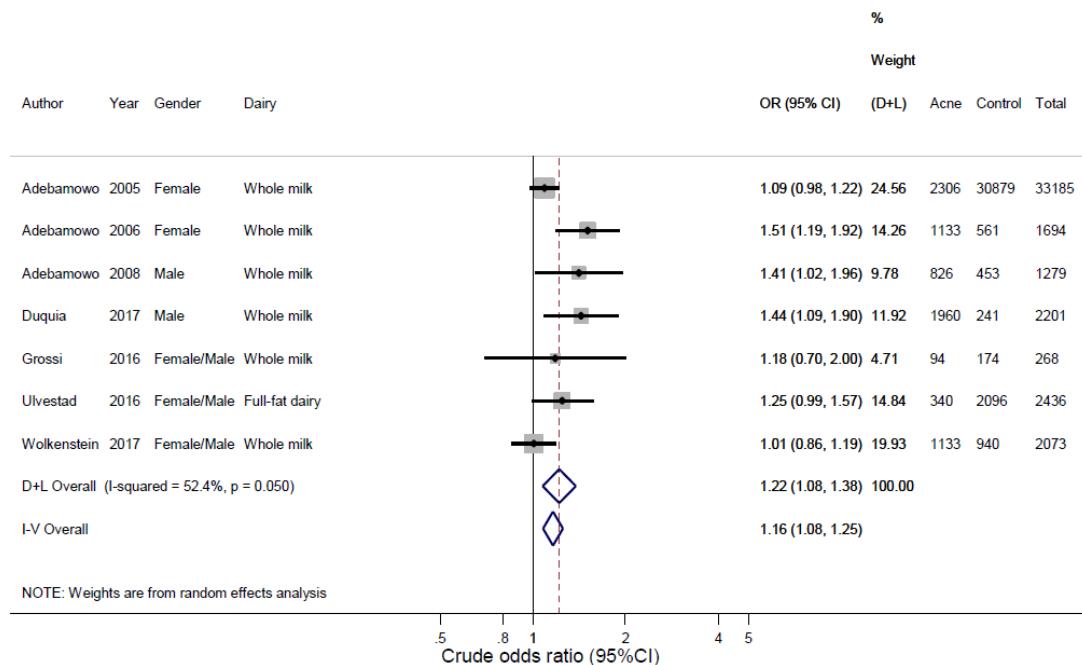
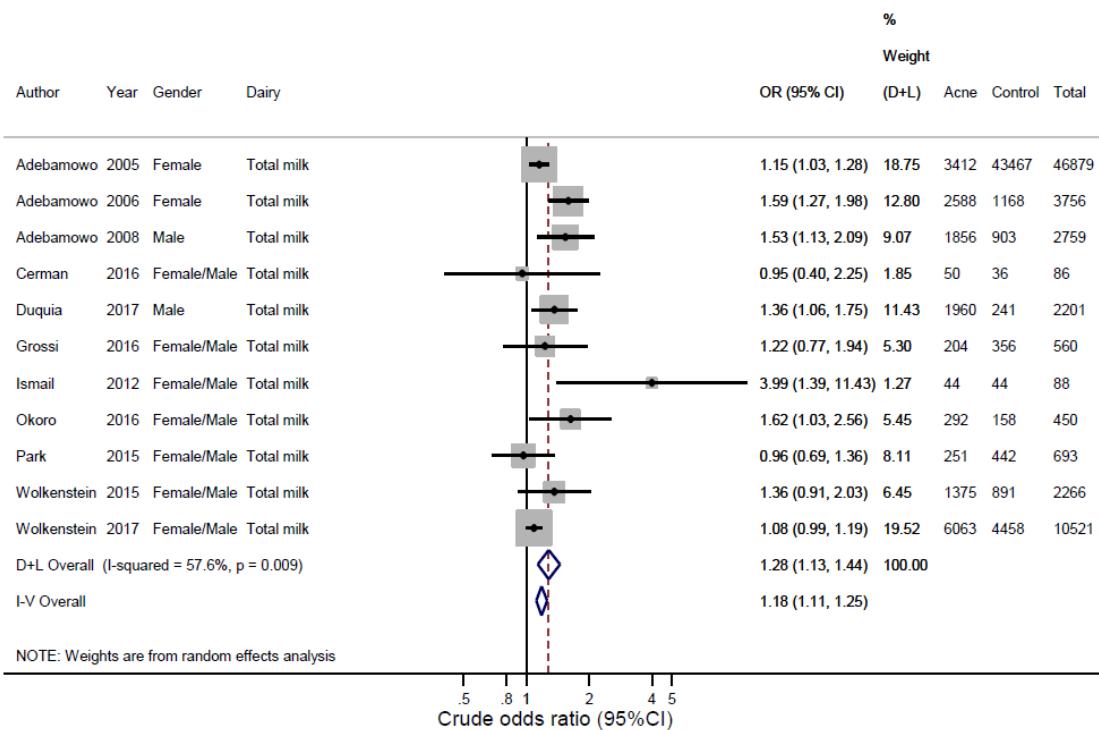


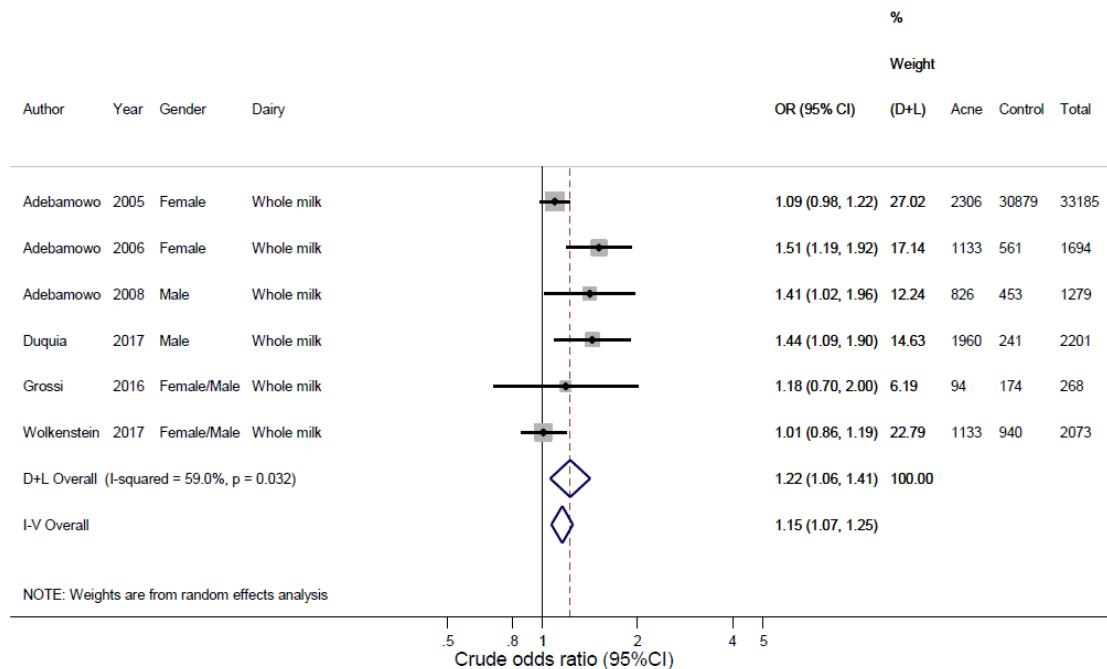
Supplementary Figure 1 Full-fat dairy intake vs. no dairy intake



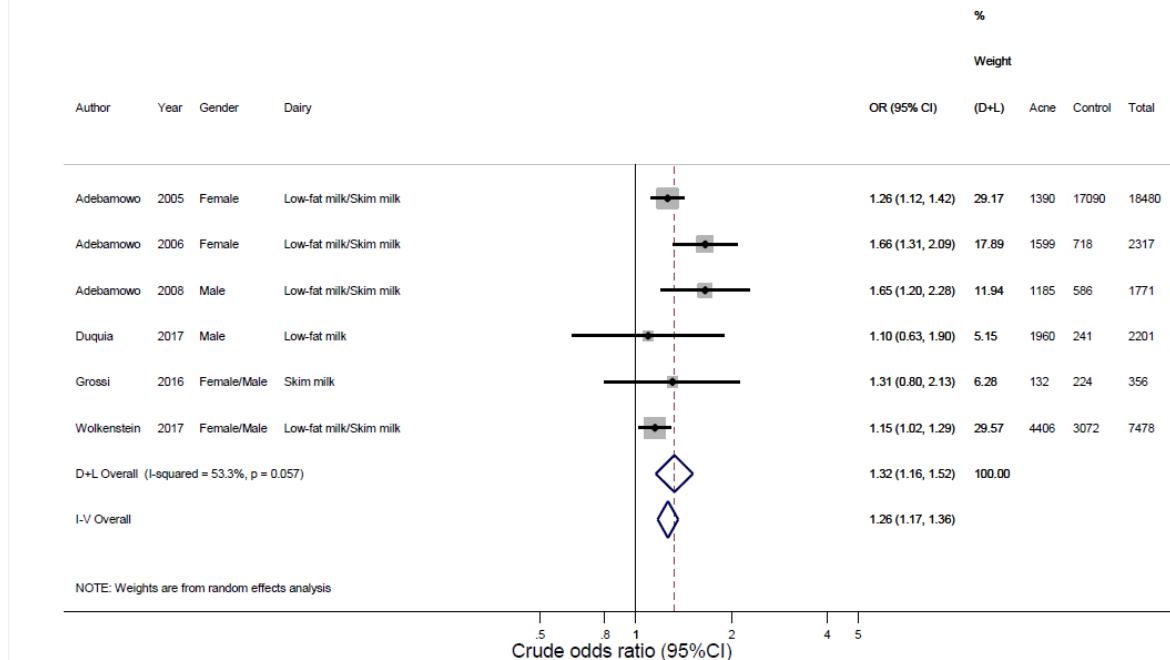
Supplementary Figure 2
Any milk intake vs. no milk intake



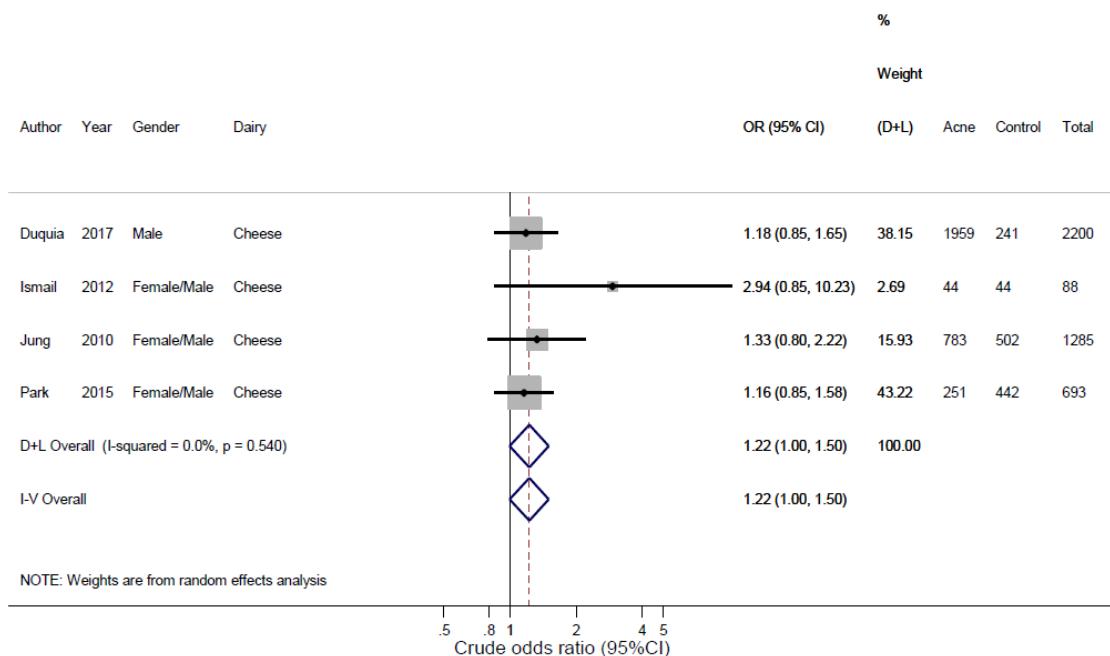
Supplementary Figure 3
Whole milk intake vs. no milk intake



Supplementary Figure 4
Low-fat/skim milk intake vs. no milk intake

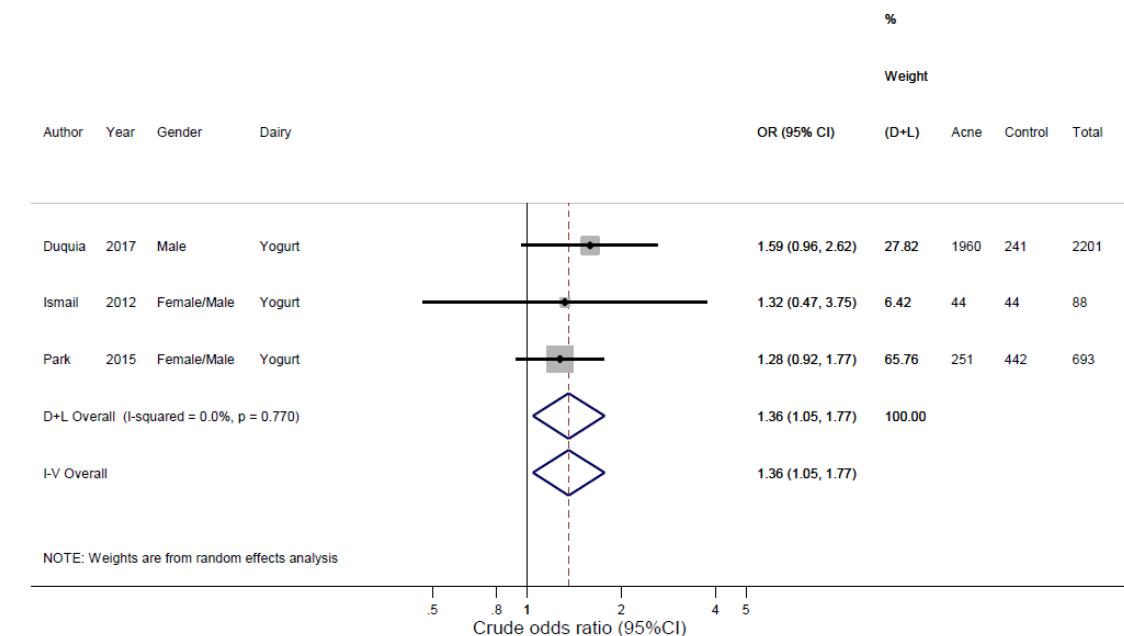


Supplementary Figure 5
Cheese vs. no cheese intake

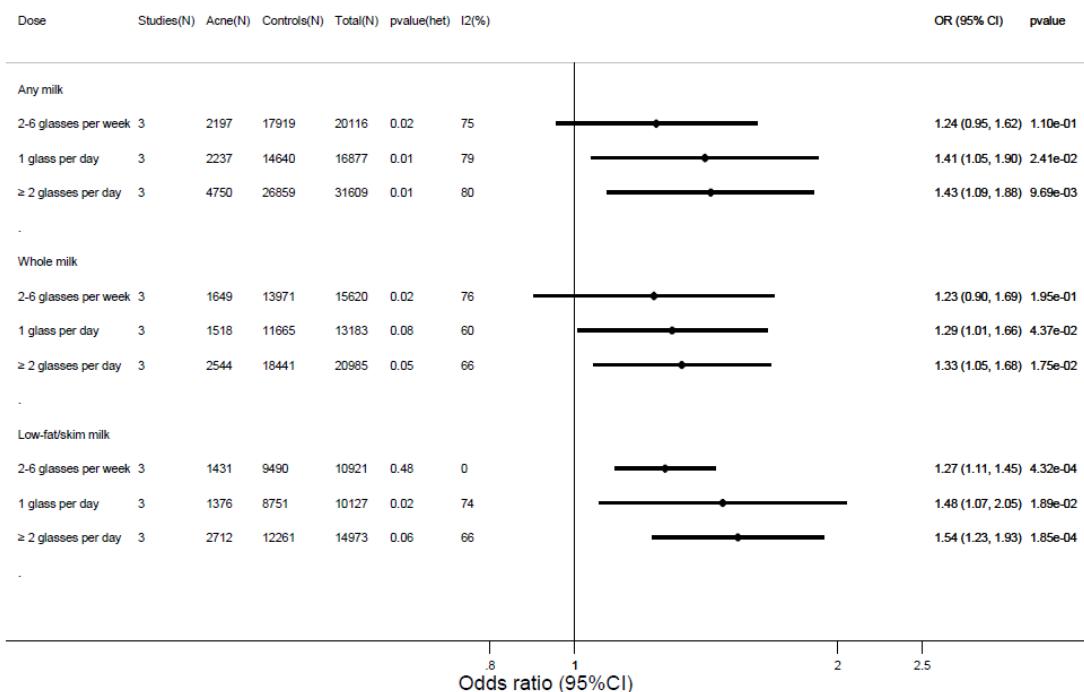


Supplementary Figure 6

Yogurt intake vs. no intake

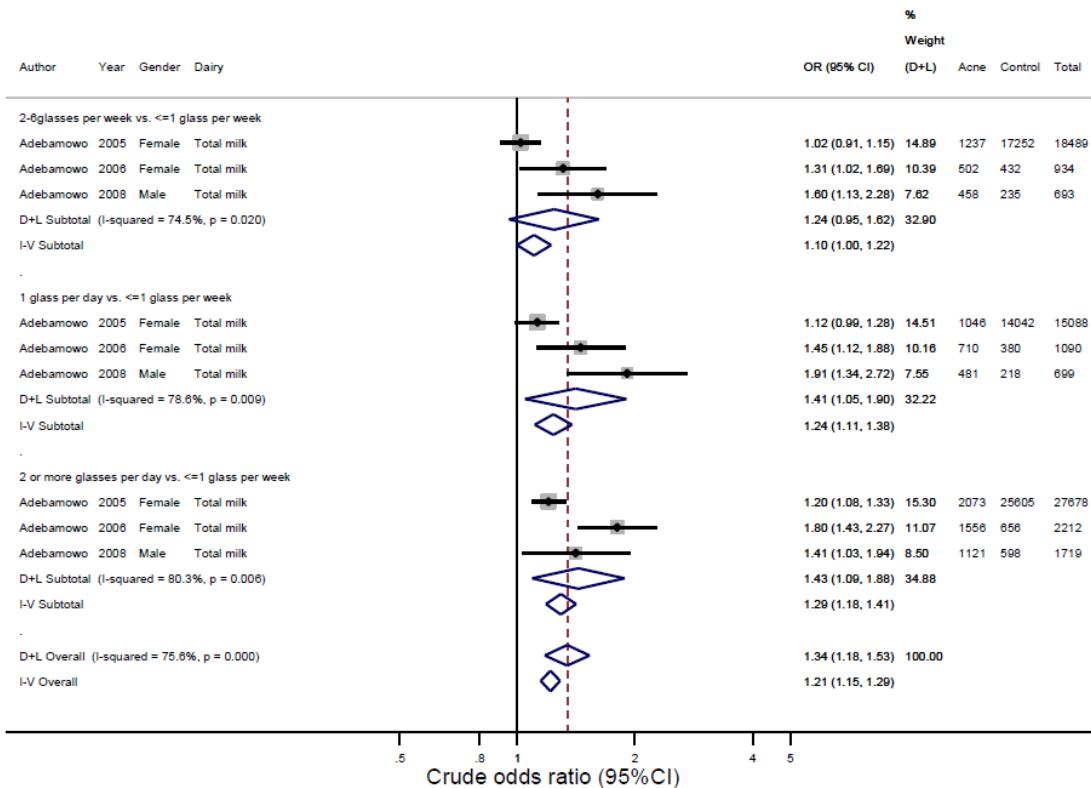


Supplementary Figure 7
Meta-analyses of frequency of milk intake and acne
compared to <=1 glass per week



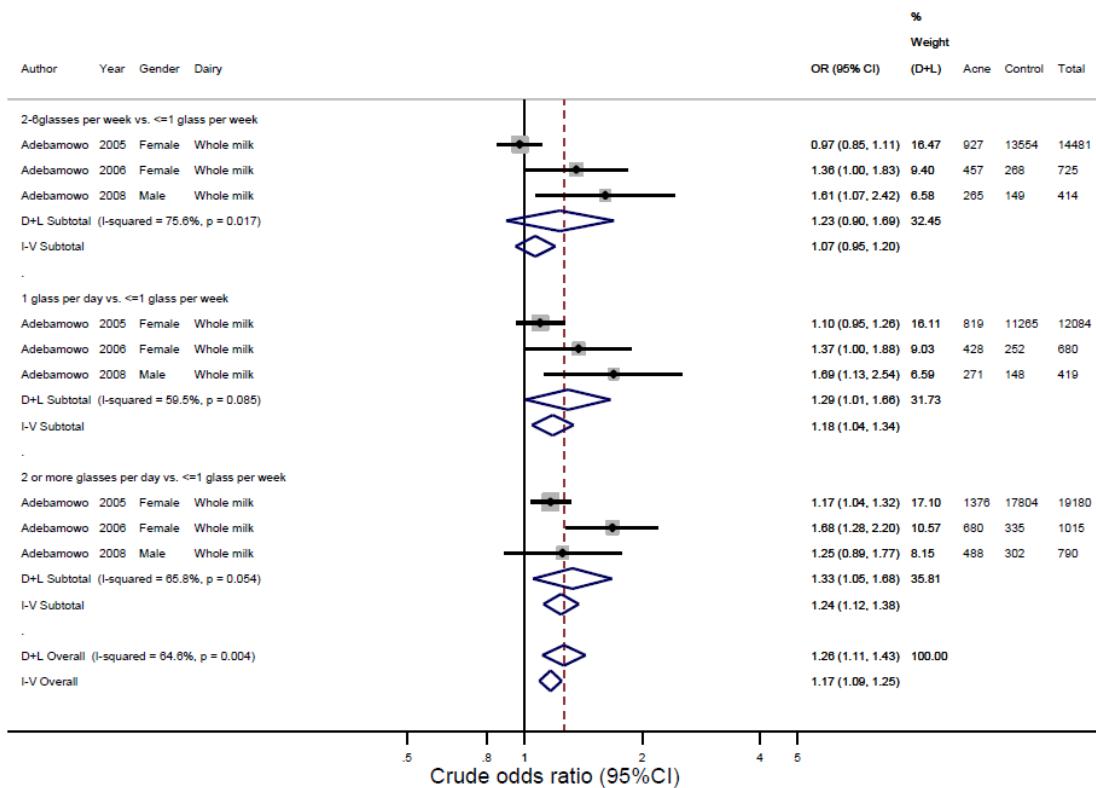
Supplementary Figure 8

Amount of total milk intake

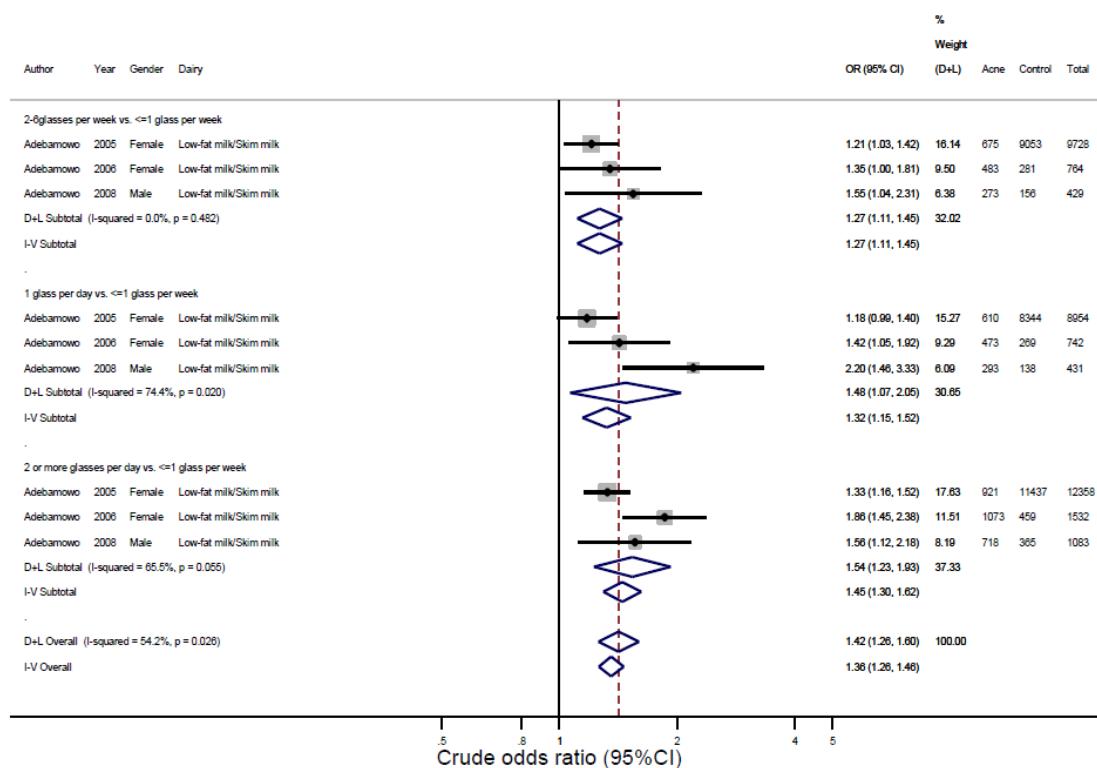


Supplementary Figure 9

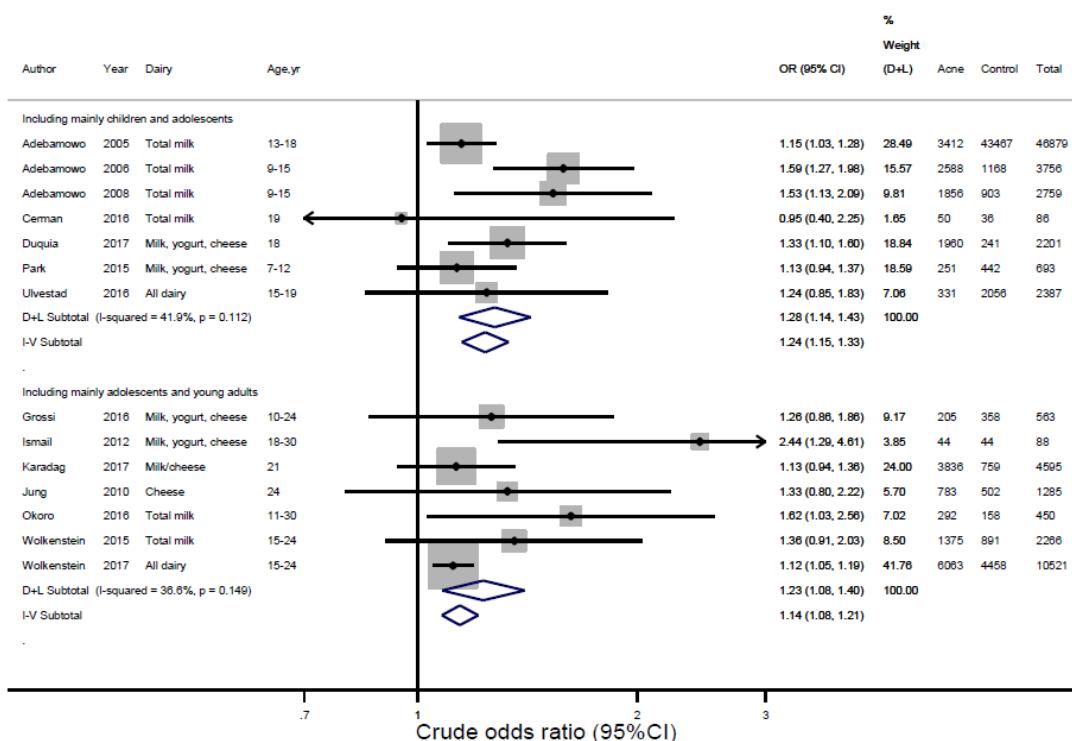
Amount of whole milk intake



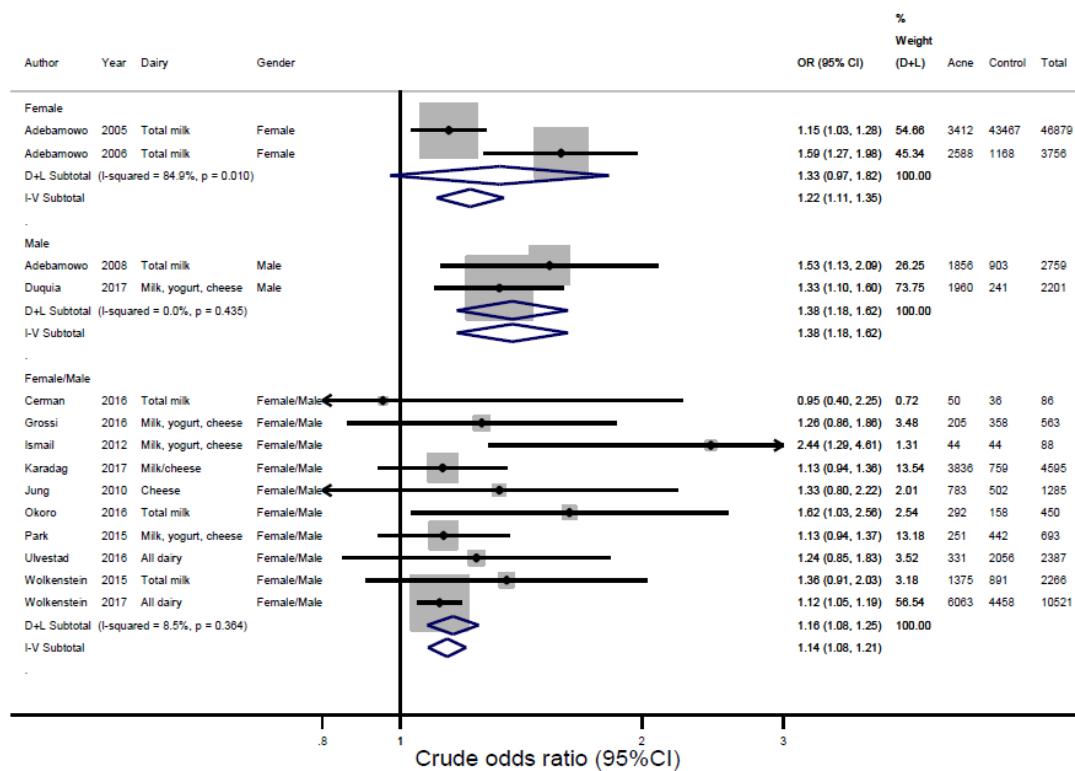
Supplementary Figure 10 Amount of low-fat/skim milk intake



Supplementary Figure 11 Any dairy intake vs. no dairy intake
by age group

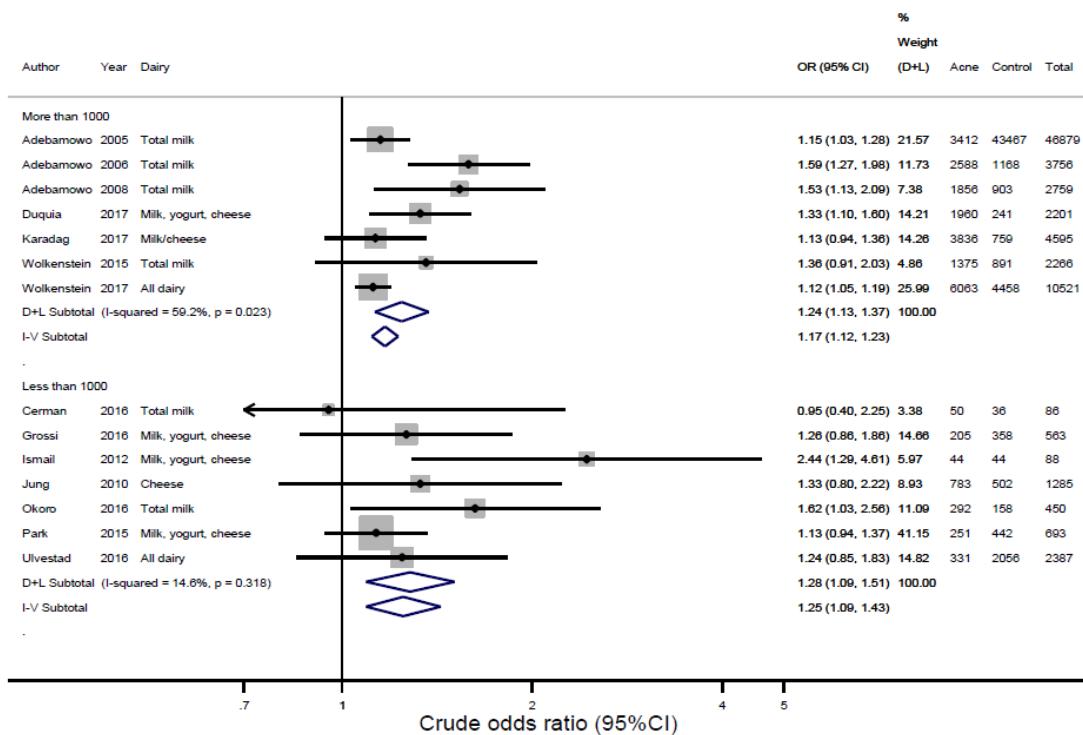


Supplementary Figure 12 Any dairy intake vs. no dairy intake by gender group

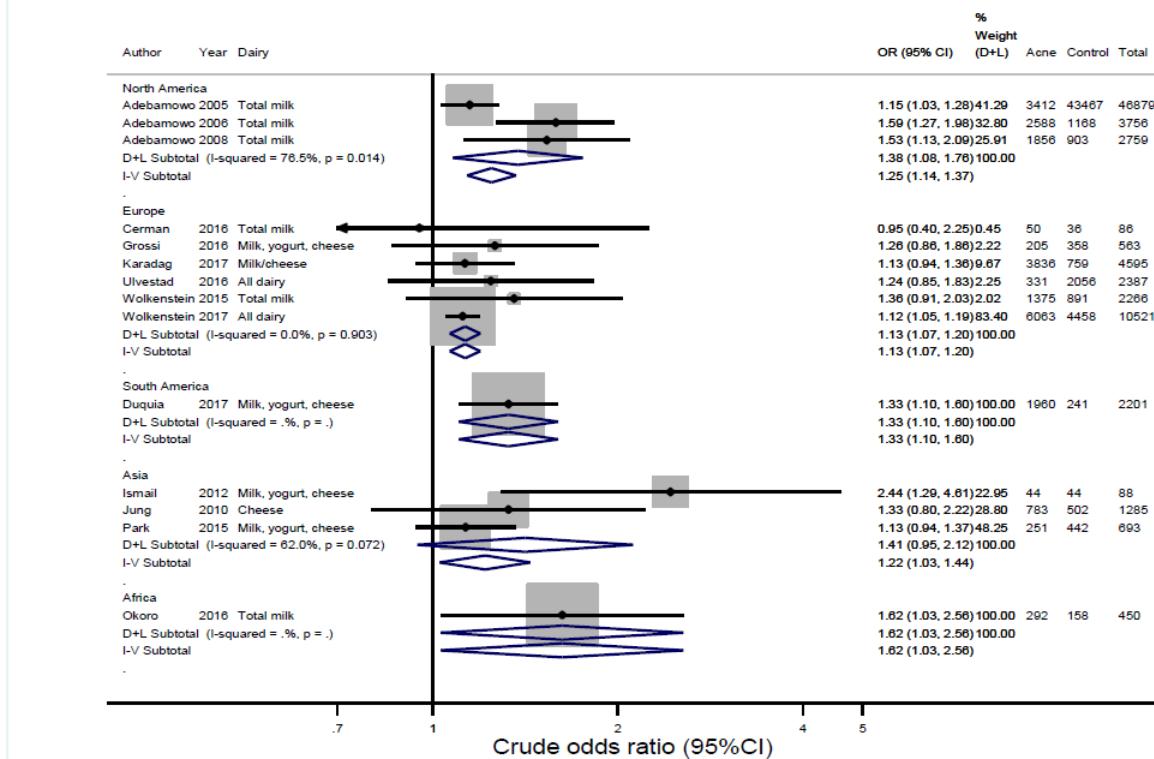


Supplementary Figure 13

Any dairy intake vs. no dairy intake
by number of cases

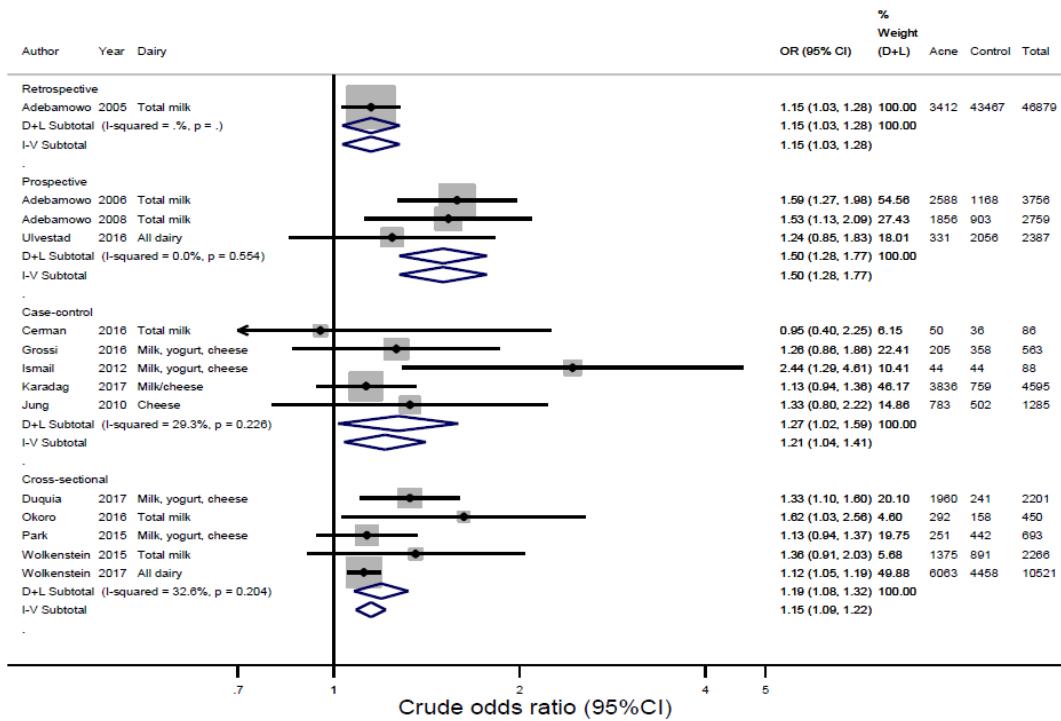


Supplementary Figure 14
Any dairy intake vs. no dairy intake
by continent

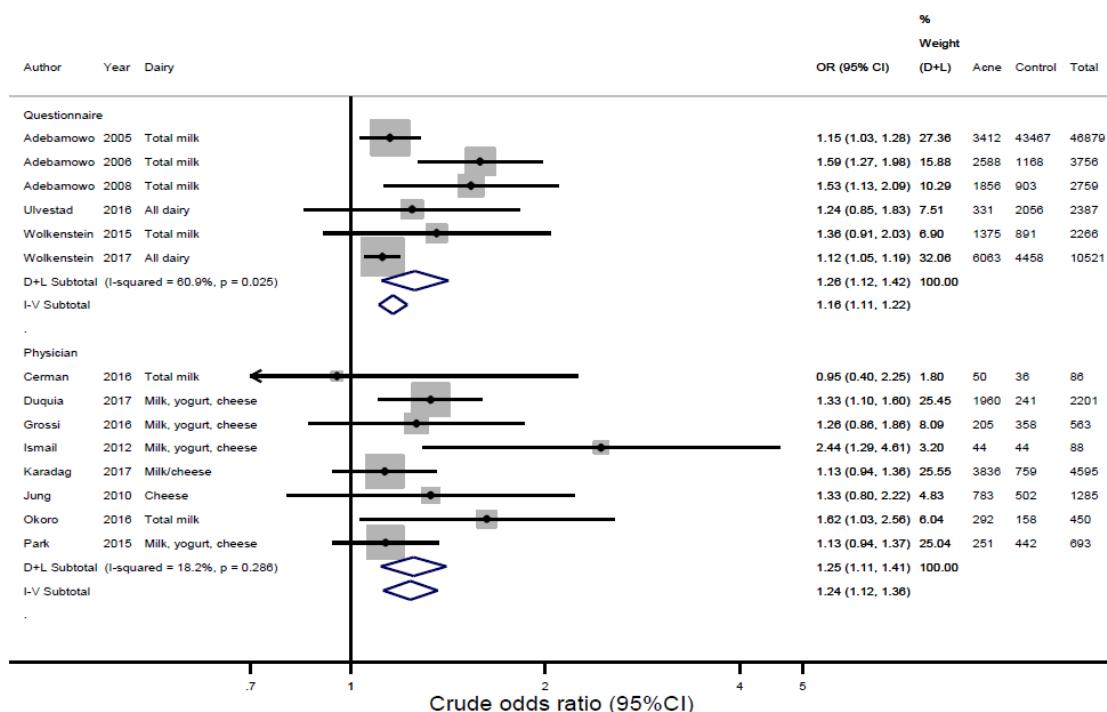


Supplementary Figure 15

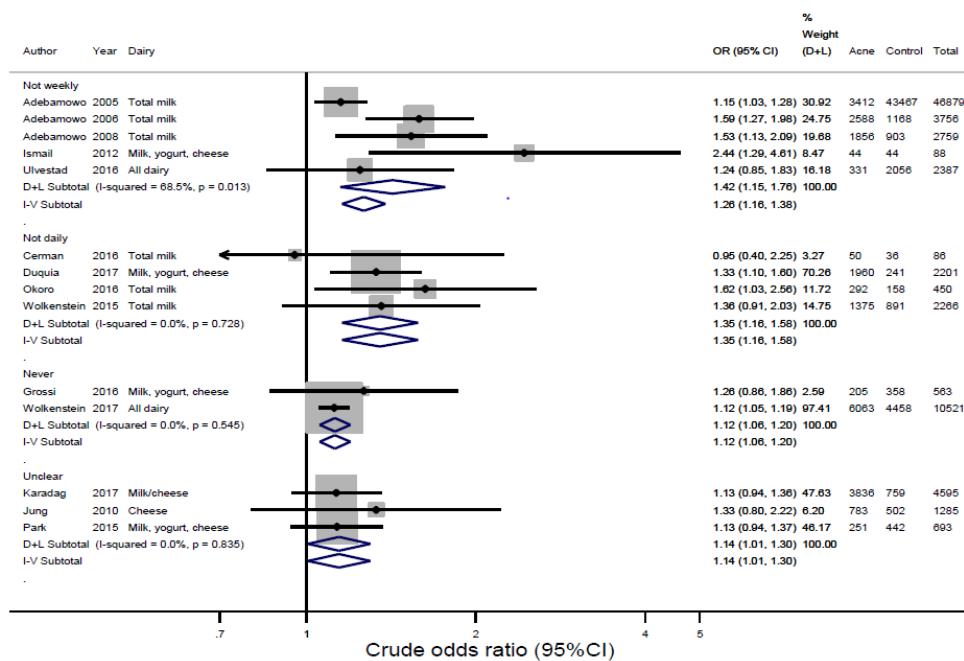
Any dairy intake vs. no dairy intake
by design



Supplementary Figure 16
Any dairy intake vs. no dairy intake
by acne diagnosis

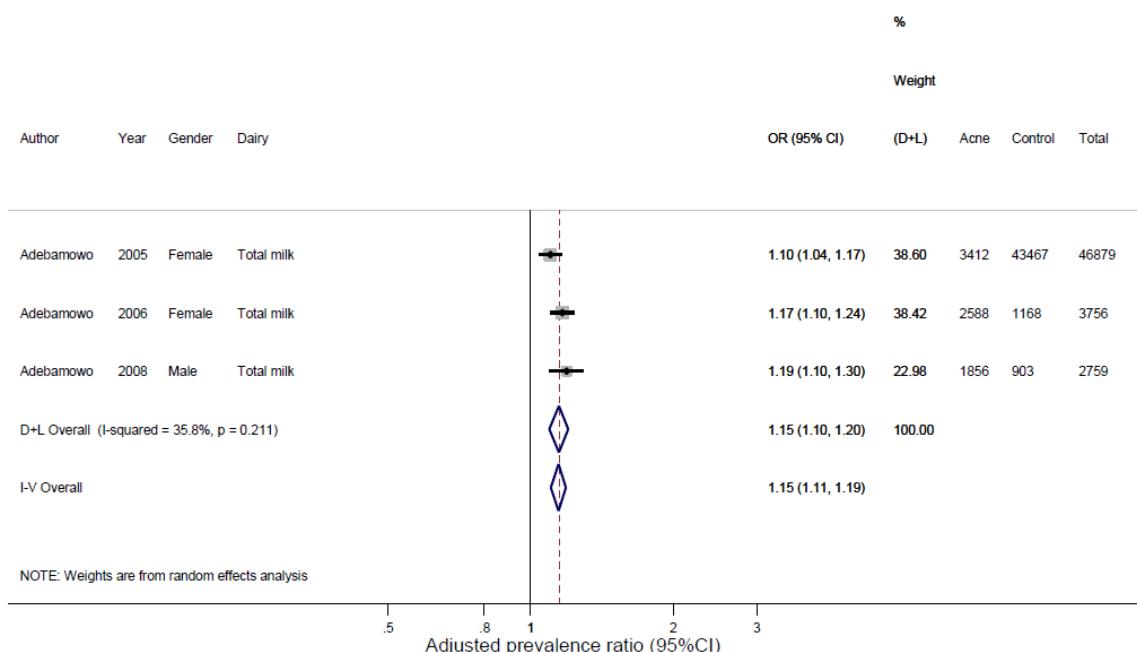


Supplementary Figure 17
Any dairy intake vs. no dairy intake
by reference group



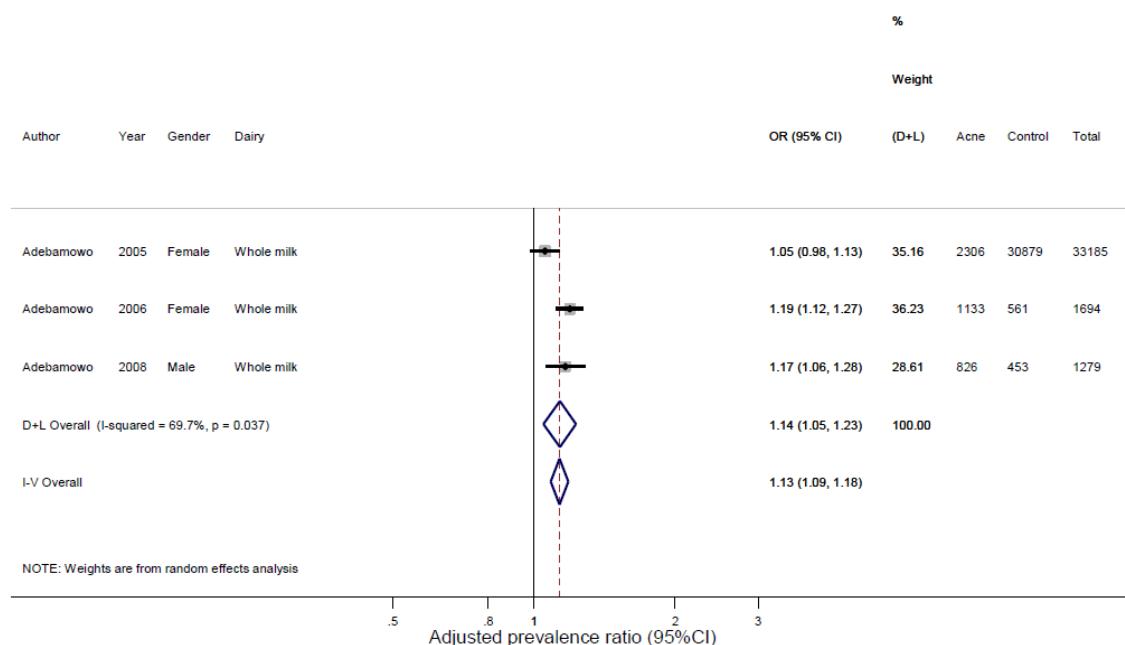
Supplementary Figure 18

Any milk intake vs. no milk intake

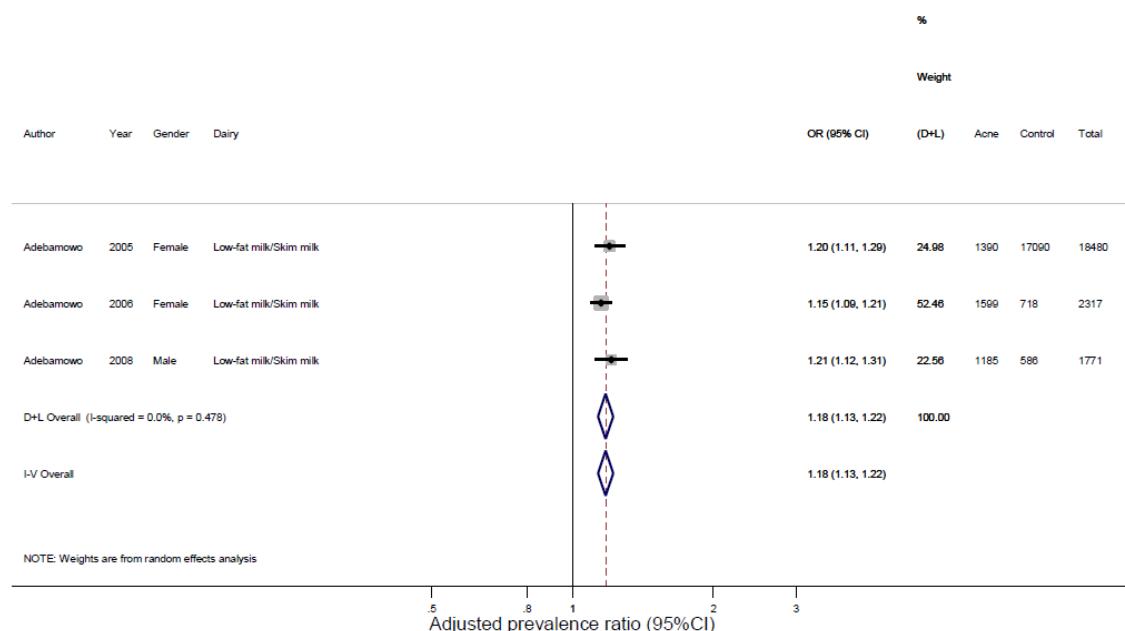


Supplementary Figure 19

Whole milk intake vs. no milk intake

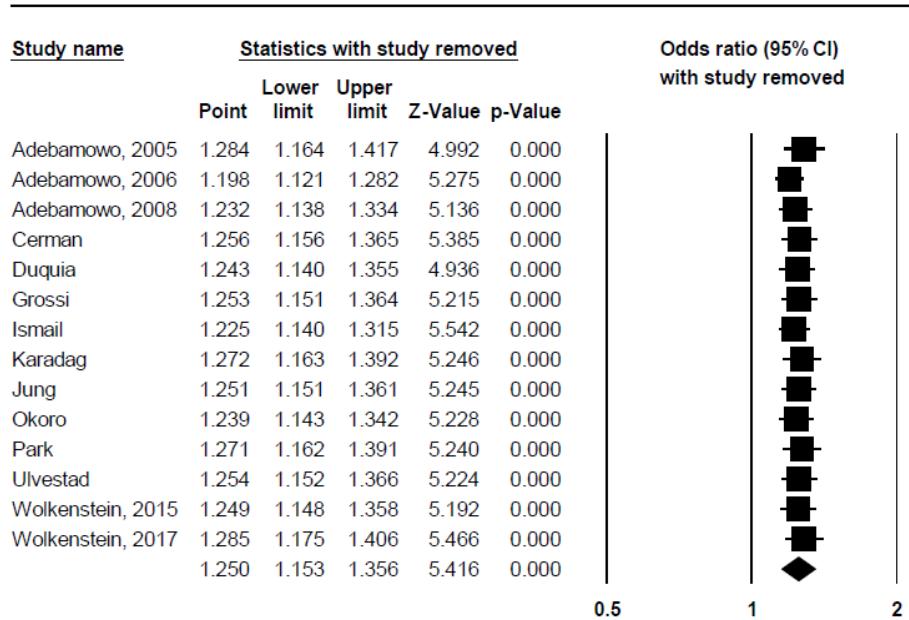


Supplementary Figure 20
Low-fat/skim milk intake vs. no milk intake



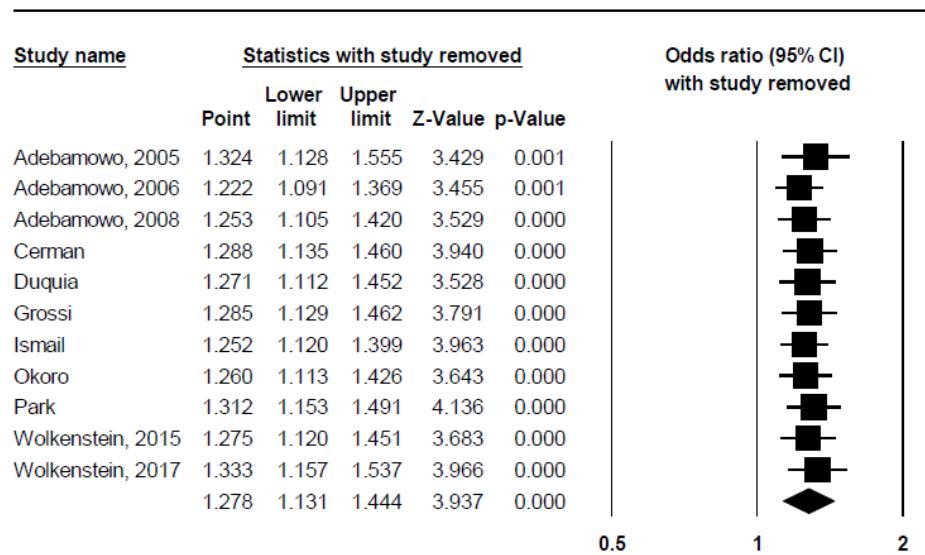
Supplementary Figure 21

Leave one out analysis
 - Any dairy intake vs. no dairy intake



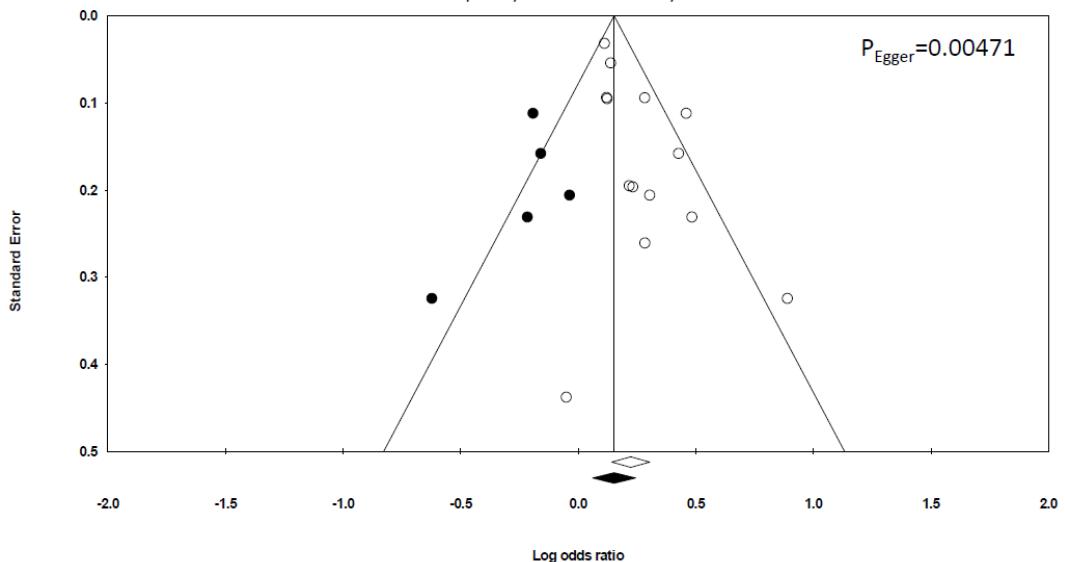
Supplementary Figure 22

Leave one out analysis
 - Any milk intake vs. no milk intake



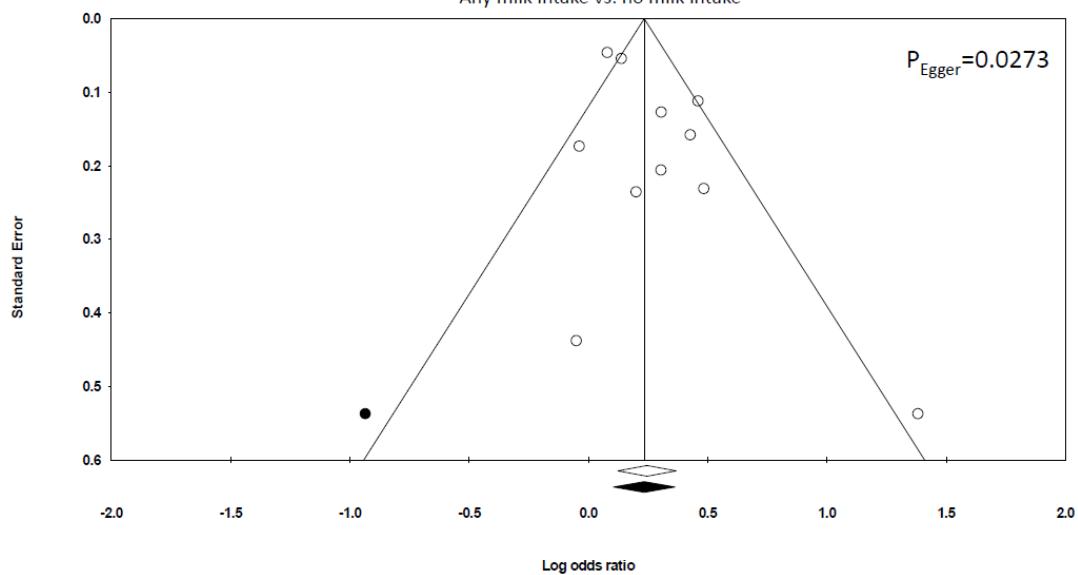
Supplementary Figure 23

Funnel Plot of Standard Error by Log odds ratio
- Any dairy intake vs. no dairy intake



Supplementary Figure 24

Funnel Plot of Standard Error by Log odds ratio
- Any milk intake vs. no milk intake



Supplementary Table 1. Sensitivity analyses for the association of dairy intake and acne

	Subgroup	Studies,N	OR(95% CI)*	I-square,%	p(het)
Age					
	Children and adolescents	7	1.28(1.14-1.43)	42	0.112
	Adolescents and young adults	7	1.23(1.08-1.40)	37	0.149
Gender					
	Female	2	1.33(0.97-1.82)	85	0.010
	Male	2	1.38(1.18-1.62)	0	0.435
	Female/male	10	1.16(1.08-1.25)	9	0.364
Cases					
	More than 1000	7	1.24(1.13-1.37)	59	0.023
	Less than 1000	7	1.28(1.09-1.51)	15	0.318
Continent					
	North America	3	1.38(1.08-1.76)	77	0.014
	Europe	6	1.13(1.07-1.20)	0	0.903
	South America	1	1.33(1.10-1.60)	NA	NA
	Asia	3	1.41(0.95-2.12)	62	0.072
	Africa	1	1.62(1.03-2.56)	NA	NA
Design					
	Retrospective	1	1.15(1.03-1.28)	NA	NA
	Prospective	3	1.50(1.28-1.77)	0	0.554
	Case-control	5	1.27(1.02-1.59)	29	0.226
	Cross-sectional	5	1.19(1.08-1.32)	33	0.204
Acne Diagnosis					
	Questionnaire	7	1.23(1.11-1.36)	53	0.045
	Physician-verified	7	1.30(1.13-1.49)	19	0.286
Reference group					
	Not weekly	5	1.42(1.15-1.76)	69	0.013
	Not daily	4	1.35(1.16-1.58)	0	0.728
	Never	2	1.12(1.06-1.20)	0	0.545
	Unclear	3	1.14(1.01-1.30)	0	0.835

*Random effects meta-analyses

NA: not applicable

p(het): p-value for heterogeneity based on Q-statistics

Supplementary Table 2. Study-specific Newcastle-Ottawa quality assessment

Case-control studies		Selection				Comparability		Exposure			Total
		S1 Case validation	S2 Case representativeness	S3 Control selection	S4 Control validation	C1 Confounder adjustment	Ascertainment	E1 Method case/control	E2 Non-response		
German	2016	1	0	1	0	0	0	0	0	2	
Grossi	2016	1	1	0	1	0	0	1	0	4	
Ismail	2012	1	1	1	1	0	0	1	0	5	
Karadag	2017	1	1	0	1	0	0	1	0	4	
Jung	2010	1	1	1	1	0	0	1	0	5	

Cohort studies		Selection				Comparability		Outcome			
		S1 Exposed	S2 Non-exposed	S3 Exposure	S4 Outcome	C1	Outcome	O1	O2	O3	
Adebamowo	2004	1	1	0	0	2	0	0	0	0	4
Adebamowo	2006	1	1	0	0	2	0	1	1	1	6
Adebamowo	2008	1	1	0	0	2	0	1	1	1	6
Duquia	2017	1	1	0	0	1	0	0	0	0	3
Okoro	2016	1	1	0	0	0	0	0	0	0	2
Park	2015	1	1	0	0	0	0	0	0	0	2
Ulvestad	2016	1	1	0	0	2	0	1	1	1	6
Wolkenstein	2015	1	1	0	0	0	0	0	0	0	2
Wolkenstein	2017	1	1	0	0	0	0	0	0	0	2

Legend: A minimum number of one star (i.e. asterisk) is awarded within category "Selection", and a maximum of two stars within "Comparability".

Answers "a" and/or "b" within the sub-categories S1-S4, C1, E1-E3, and O1-O3 meet the requirement for a star. Sub-categories evaluate definitions and selection of cases and controls, representation and selection of cohorts, ascertainment of exposure, and outcome.