

**Supplementary Table 4.** Reports from the Same Cohorts

Cohort	Study	Crude/ adjusted ORs	Study Design	Sample Size (% female)	Follow-up (years)	Exposure	Study differences by relevant modifiers	Decision
HUNT	Augestad et al (2008)	0/6	Baseline exposure	6661 (50.3)	11.00	3 doses	Studies differ based on design, follow-ups, and exposure. Augestad et al (2008) additionally stratified by sex.	Keep all
	Ernstsen et al (2016)	0/2	Change in exposure	189 (24.3)	22.00	Change		
	Harvey et al (2017)	0/1	Baseline exposure	33908 (49.5)	11.00	Binary		
ELSA	Hamer et al (2009)	0/2	Change in outcome	4323 (52.5)	4.00	2 doses	Studies differ based on design, waves used, follow-up, and exposure. Veronese et al (2017) the only study with a crude effect.	Drop Frank et al (2018)
	Ohrnberger et al (2017)	0/1	Change in outcome	10693 (55.0)	2.00	Continuous		
	Poole & Jackowska (2018)	0/1	Change in exposure	5172 (54.6)	4.00	Continuous		
	Veronese et al (2017)	1/1	Baseline exposure Change in outcome	4077 (52.5)	2.00	Binary		
LASA	Frank et al (2018)	0/1	Baseline exposure Change in exposure and outcome	3809 (51.6)	2.00	Binary	Studies included separately in crude and adjusted analyses.	Keep all
	Visser et al (2018)	0/1	Change in exposure and outcome	3107 (55.0)	3.00	Binary		
NHANES	Van Gool et al (2003)	1/0	Change in exposure and outcome	1104 (54.6)	6.00	Change	Studies included separately in crude and adjusted analyses.	Keep all
	Brown et al (1996)	1/0	Baseline exposure	1322 (55.0)	8.00	Binary		
ALSWH	Farmer et al (1988)	0/2	Baseline exposure	1163 (51.5)	9.00	Binary	Ball et al (2009) includes young ALSWH cohort Brown et al (2005), Mhrshahi et al (2014), and van Uffelen et al (2013) differ based on study design, follow-up, and exposure.	Keep all
	Ball et al (2009)	4/4	Baseline exposure Change in outcome	6677 (100)	3.00	4 doses		
	Brown et al (2005)	0/2	Change in exposure and outcome	8855 (100)	4.00	2 doses & change		
	Mhrshahi et al (2014)	3/3	Baseline exposure	5117 (100)	3.00	3 doses		
Young Finns	van Uffelen et al (2013)	0/1	Change in outcome	8950 (100)	9.00	Binary	Studies differ based on designs and exposures.	Keep both
	Yang et al (2014)	0/10	Change in outcome	1955 (57.5)	6.00	3 doses & change		

			Change in exposure and outcome					
	Kaseva et al (2016)	0/1	Baseline exposure	1724 (50.9)	5.00	Continuous		
SHARE	Khalaila & Litwin, (2014)	0/2	Change in exposure and outcome	1524 (57.0)	4.00	Change	Khalaila & Litwin (2014) and Khalaila (2016) differ based on design, waves used, and follow-up period. Lindwall et al (2011) includes total SHARE sample.	Keep all
	Khalaila, (2016)	1/1	Baseline exposure	1038 (58.2)	10.00	Binary		
	Lindwall et al (2011)	1/0	Baseline exposure	17593 (54.6)	2.00	Continuous		
Alameda County Study	Camacho et al (1991)	0/2	Change in exposure and outcome	4848 (55.6)	9.00	Binary and change	Studies differ based on design, waves used, and follow-up period. Only Strawbridge et al (2002) has crude effects.	Keep both
	Strawbridge et al (2002)	2/1	Baseline exposure	1947 (56.0)	5.00	2 doses		
TLSA	Chang et al (2017)	0/4	Change in outcome	2673 (45.5)	8.00	4 doses	Studies differ based on design, waves used, and follow-up.	Keep all
	Chi et al (2016)	0/2	Baseline exposure	2630 (46.8)	4.00	2 doses		
	Tsai et al (2013)	0/2	Baseline exposure	2145 (46.2)	8.00	2 doses		
Precursors Study	Cooper-Patrick et al (1997)	2/2	Baseline exposure	752 (8.0)	15.00	2 doses	Studies differ based on design, waves used, and follow-up period. Only Cooper-Patrick et al (1997) has adjusted effects.	Keep both
	Ford et al (1998)	1/0	Change in exposure and outcome	1190 (0)	37.00	Binary		
Health Worker Cohort Study	Gallegos-Carrillo et al (2013)	2/2	Change in exposure	1047 (77.5)	6.00	2 doses & change	Different cohorts.	Keep both
	Quezada et al (2017)	0/1	Change in outcome	456 (100)	5.00	Continuous		
SUN	Ruiz-Estigarribia et al (2019)	0/1	Baseline exposure	14908 (59.5)	18.00	Binary	Studies differ based on follow-up.	Keep both
	Sanchez-Villegas et al (2008)	0/1	Baseline exposure	10381 (54.0)	6.00	Binary		
TILDA	McDowell et al (2018)	3/3	Baseline exposure	4146 (44.6)	2.00	Binary and 2 doses	Substantial overlap – McDowell et al's primary focus is PA. Carvalho et al's focus is grip strength (PA included as covariate).	Drop Carvalho et al (2019)
	Carvalho et al (2019)	0/2	Baseline exposure	5010 (51.1)	2.00	2 doses		