

Longitudinal association between C-reactive protein levels and risk of psychosis: a systematic review and meta-analysis of population-based, prospective cohort studies

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Supplementary Tables

Supplementary Table 1: Quality assessment of included studies according to the Newcastle-Ottawa quality assessment scale for cohort studies

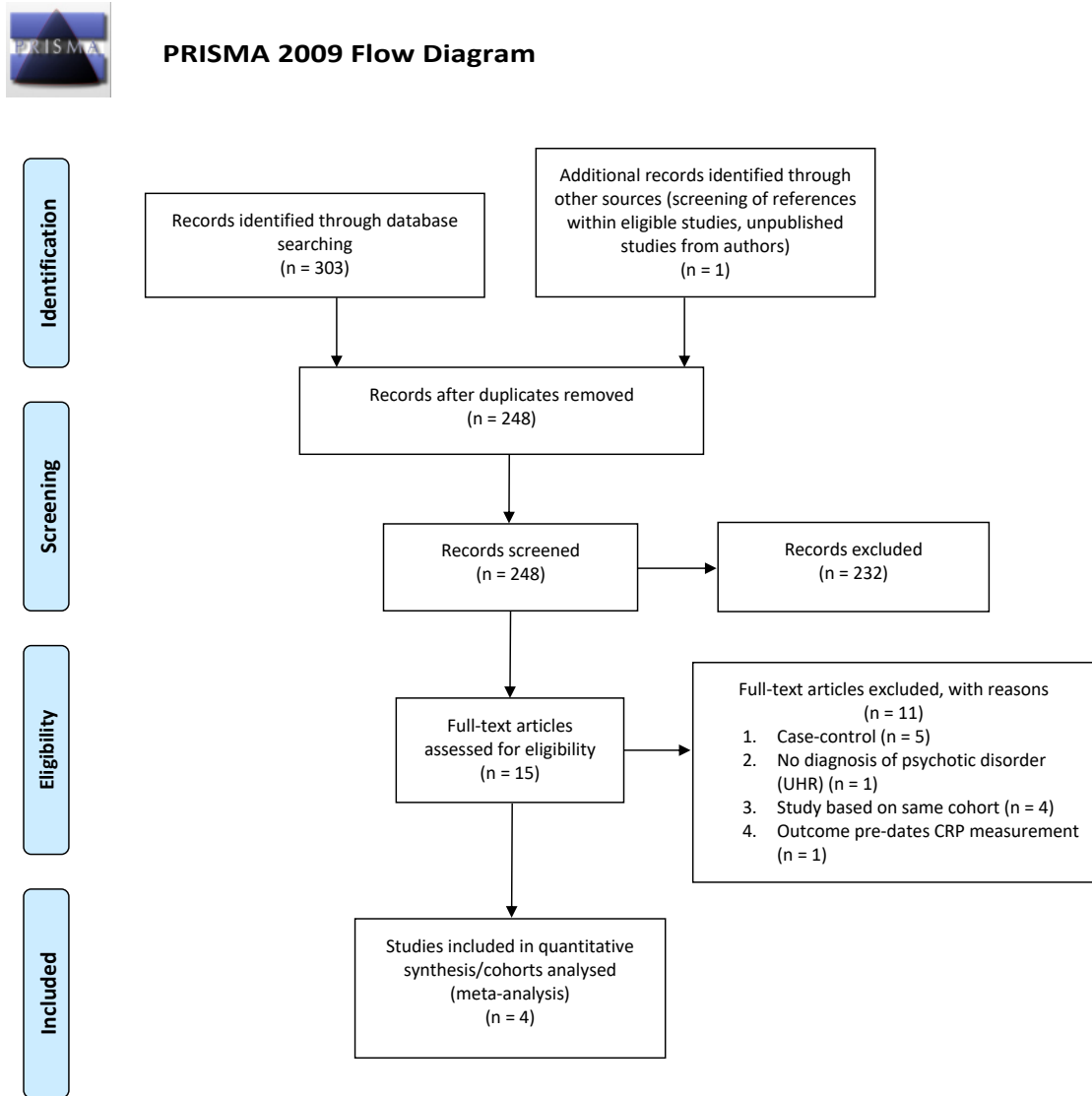
The Newcastle-Ottawa Scale (NOS) considers study quality based on three domains: 1) Quality of subject **'selection'** (representativeness of the exposed cohort, selection of the non-exposed cohort, ascertainment of exposure, demonstration that outcome of interest was not present at start of study, **maximum 4 points**); 2) Quality of **'comparability'** (study controls for most important factor and any additional factor, **maximum 2 points**); 3) Quality of **'outcome'** (including assessment of outcome, length of follow-up, adequacy of follow-up, **maximum 3 points**). A maximum of 9 points was therefore considered.

Thresholds for converting NOS rating to Agency for Healthcare Research and Quality standards (good, fair, poor) (Pillinger et al., 2019). *Good – 3 or 4 stars in Selection AND 1 or 2 in Comparability AND 2 or 3 in Outcome. Fair – 2 stars in Selection AND 1 or 2 in Comparability AND 2 or 3 in Outcome. Poor – 0 or 1 stars in Selection OR 0 in Comparability OR 0 or 1 in Outcome.*

	Selection				Comparability	Outcome			HRQ score
	Representative-ness	Selection	Exposure	Outcome not at start	Comparable cohorts	Assessment	Follow-up length of time	Loss to follow-up	
Wium-Andersen et al, 2014	1	1	1	1	2	1	1	1	good
Metcalf et al, 2017	1	1	1	0	2	1	1	1	good
Laukkanen et al, 2018	1	1	1	1	2	1	1	1	good
Perry et al, 2021	1	1	1	0	2	1	1	0	good

Supplementary Figures

Supplementary Figure 1: PRISMA diagram of literature search

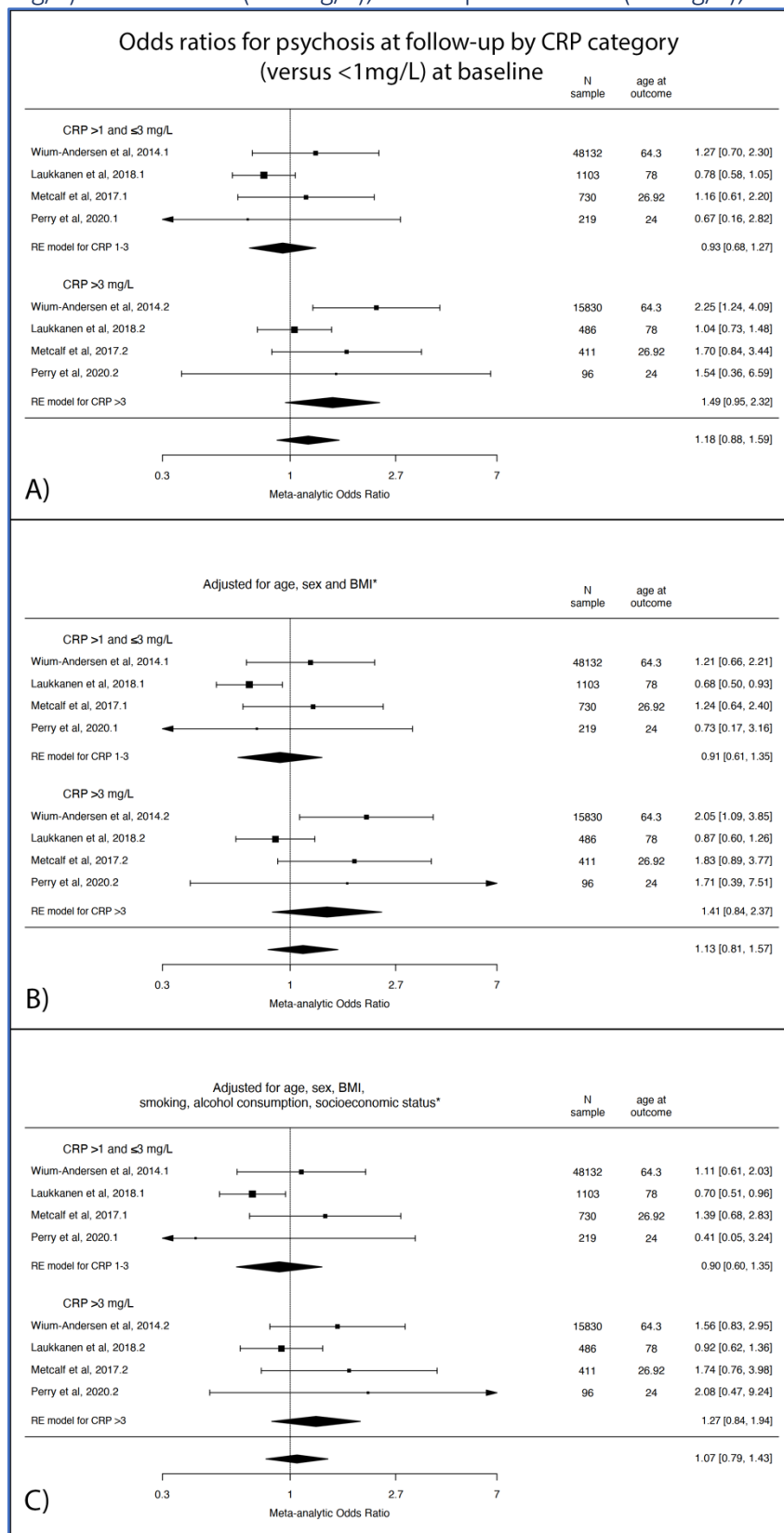


From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097

For more information, visit www.prisma-statement.org.

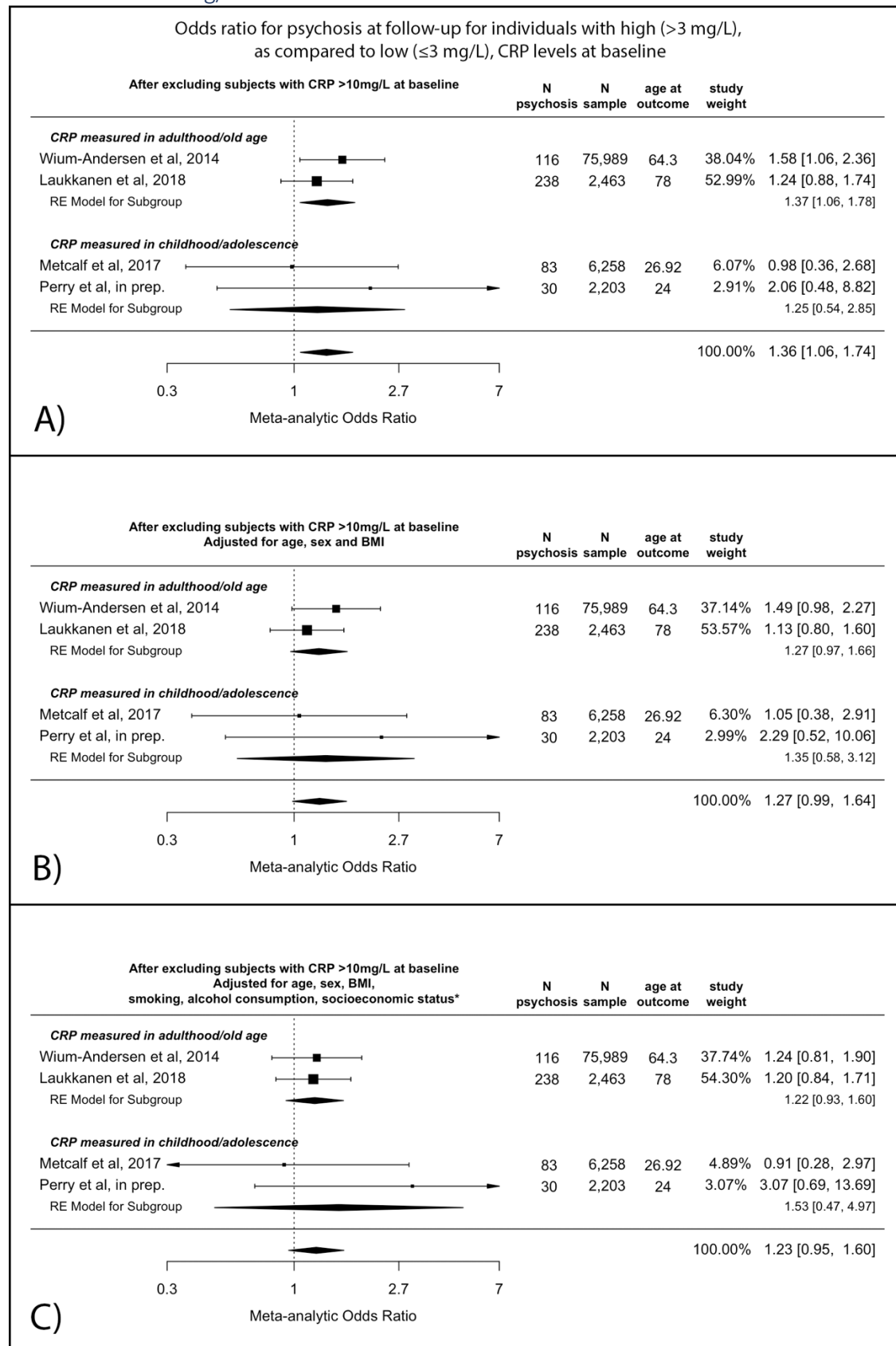
CRP, C-reactive protein; UHR, ultra-high risk

Supplementary Figure 2: Odds ratios for psychosis at follow-up for individuals with high (>3 mg/L) and medium (1-3 mg/L), as compared to low (<1 mg/L), CRP levels at baseline



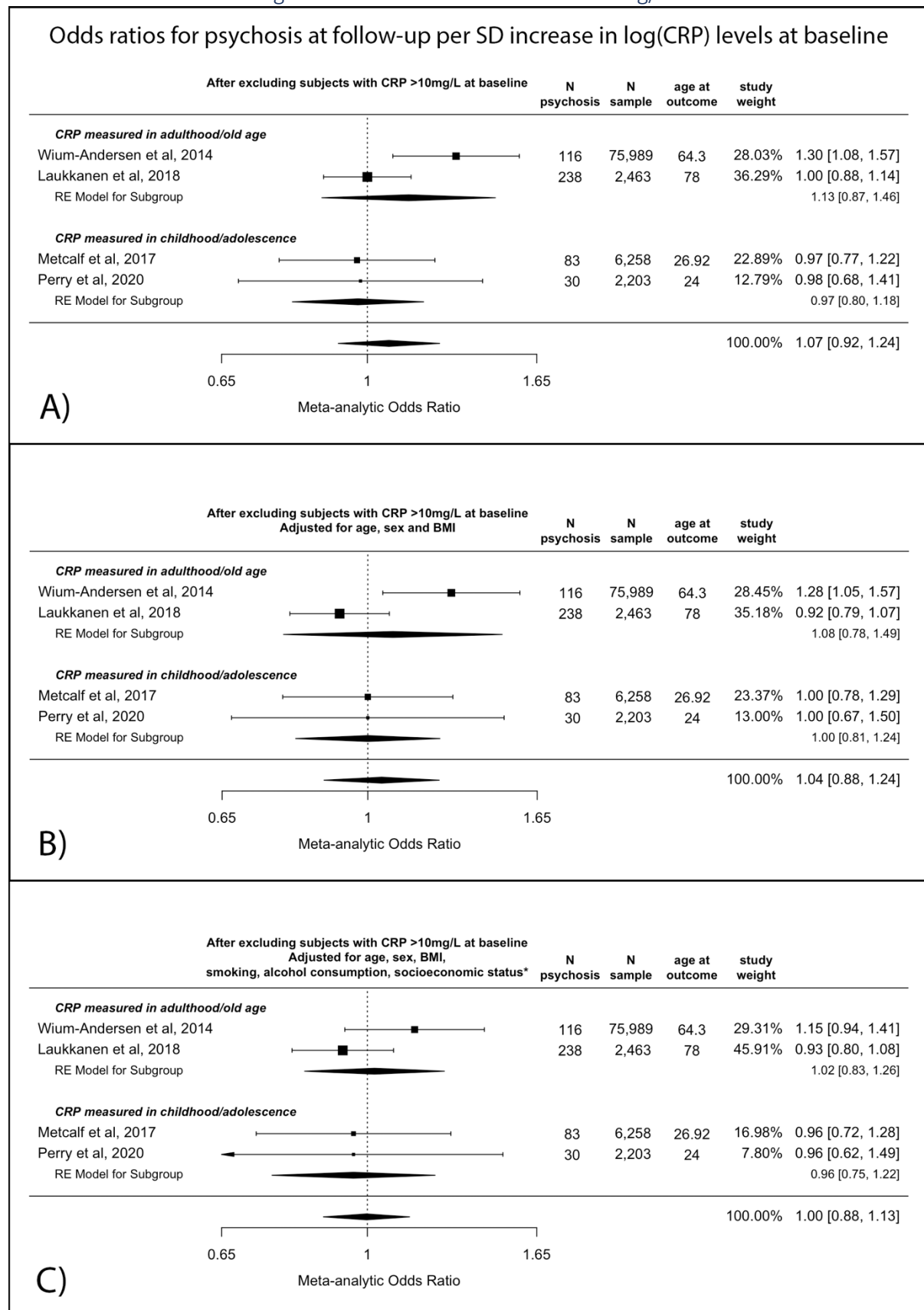
BMI, body mass index; CRP, C-reactive protein; mg/L, milligrams per litre

Supplementary Figure 3: Odds ratios for psychosis at follow-up for individuals with high (>3 mg/L), as compared to low (≤3 mg/L), CRP levels at baseline – after excluding individuals with baseline CRP >10mg/L



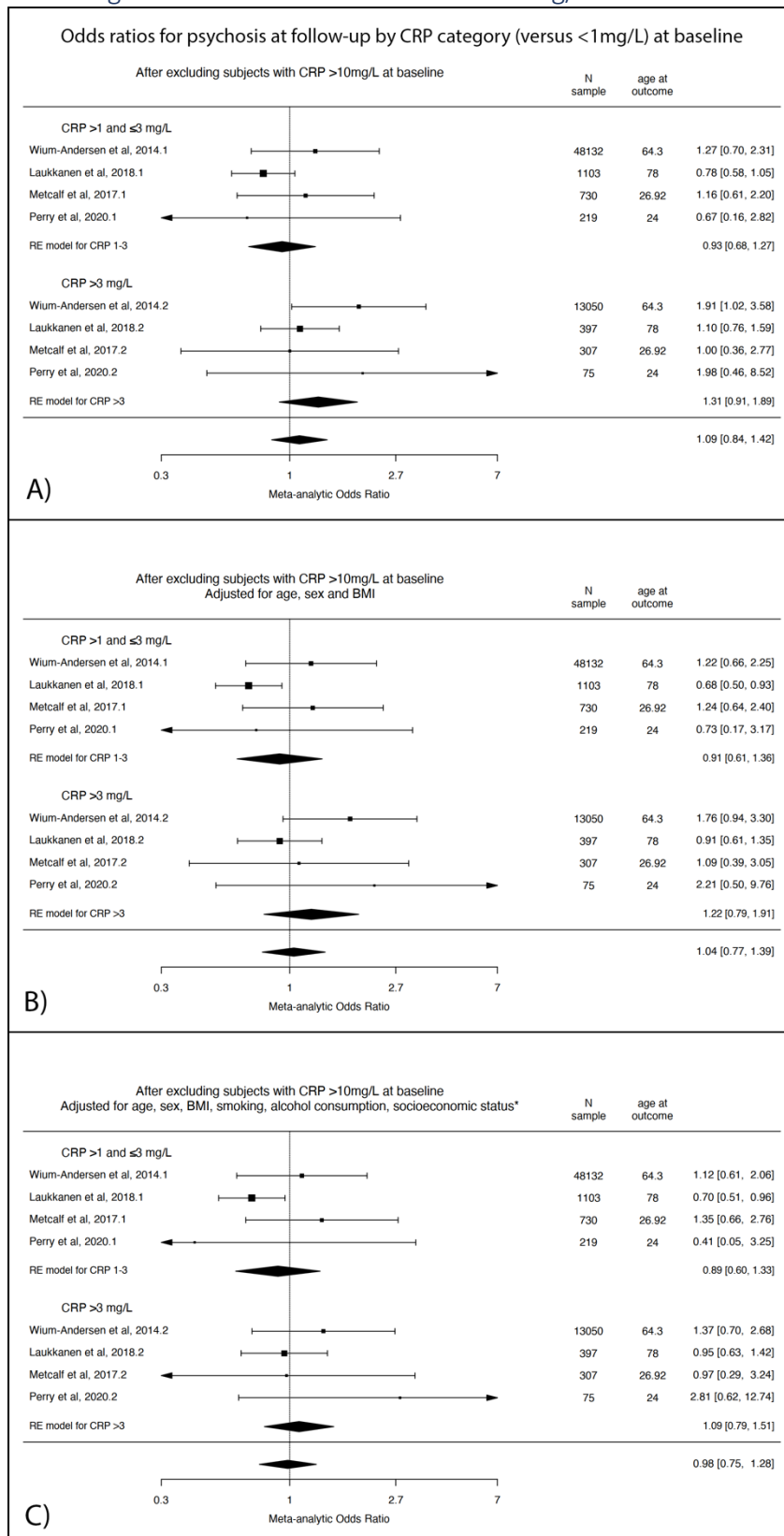
BMI, body mass index; CRP, C-reactive protein; mg/L, milligrams per litre

Supplementary Figure 4: Odds ratios for psychosis at follow-up per SD increase in CRP levels at baseline – after excluding individuals with baseline CRP >10mg/L



BMI, body mass index; CRP, C-reactive protein; mg/L, milligrams per litre

Supplementary Figure 5: Odds ratios for psychosis at follow-up for individuals with high (>3 mg/L) and medium (1-3 mg/L), as compared to low (<1 mg/L), CRP levels at baseline – after excluding individuals with baseline CRP >10mg/L



BMI, body mass index; CRP, C-reactive protein; mg/L, milligrams per litre

References:

Pillinger, T., Osimo, E.F., Brugger, S., Mondelli, V., McCutcheon, R.A., Howes, O.D., 2019. A Meta-analysis of Immune Parameters, Variability, and Assessment of Modal Distribution in Psychosis and Test of the Immune Subgroup Hypothesis. *Schizophrenia Bulletin* 45, 1120–1133.