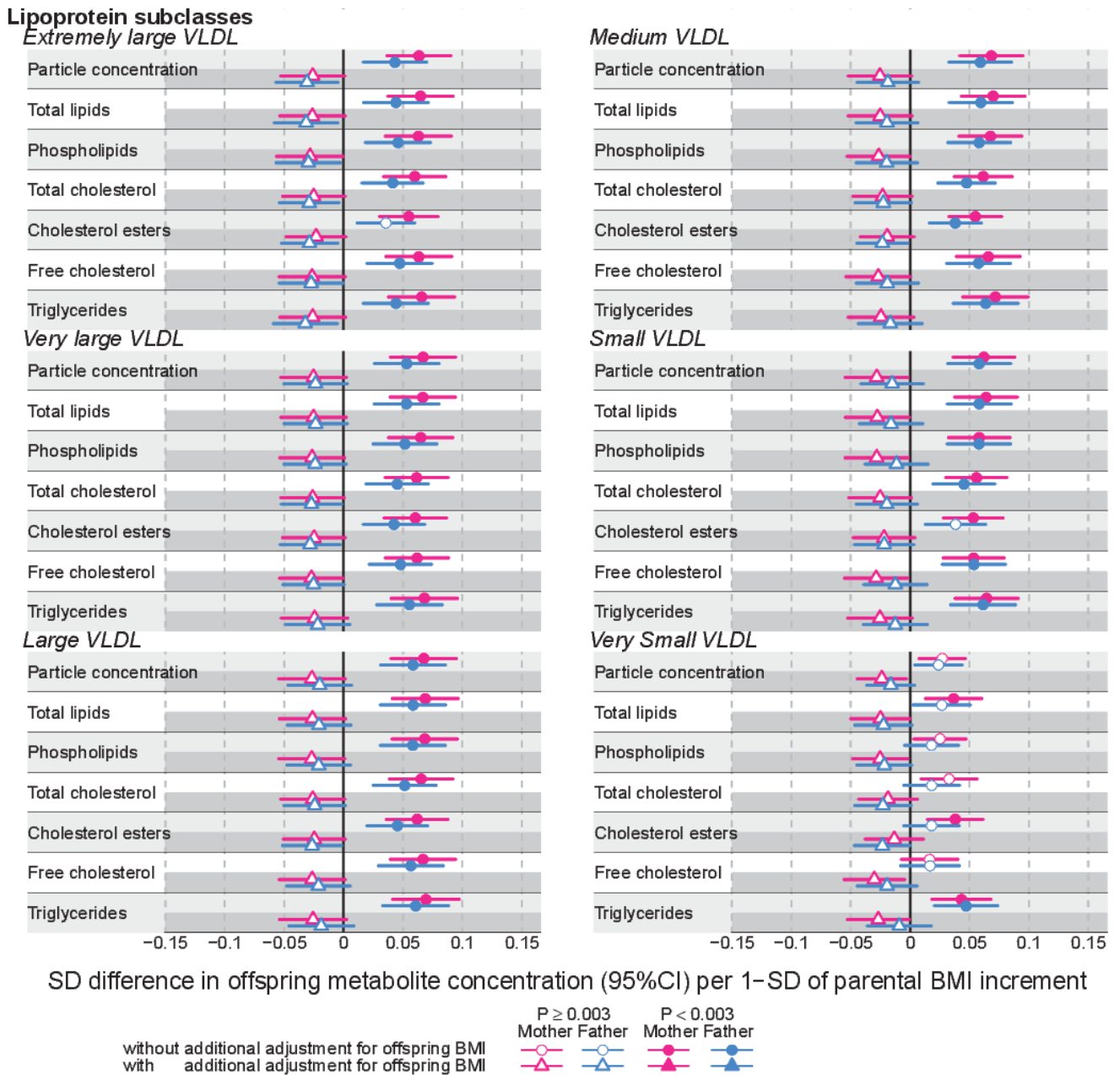


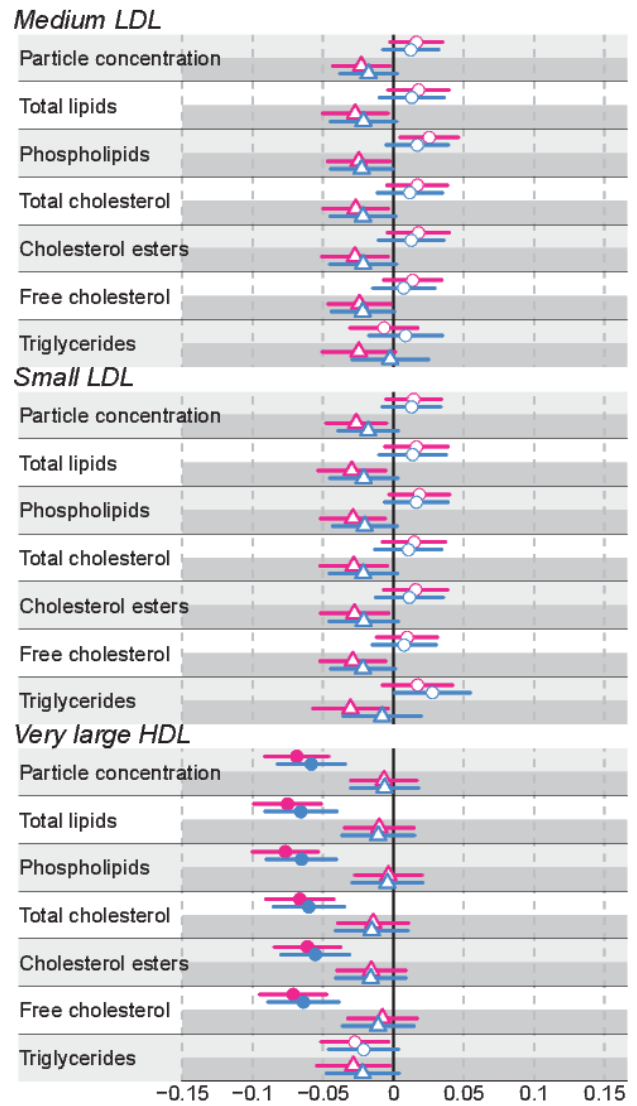
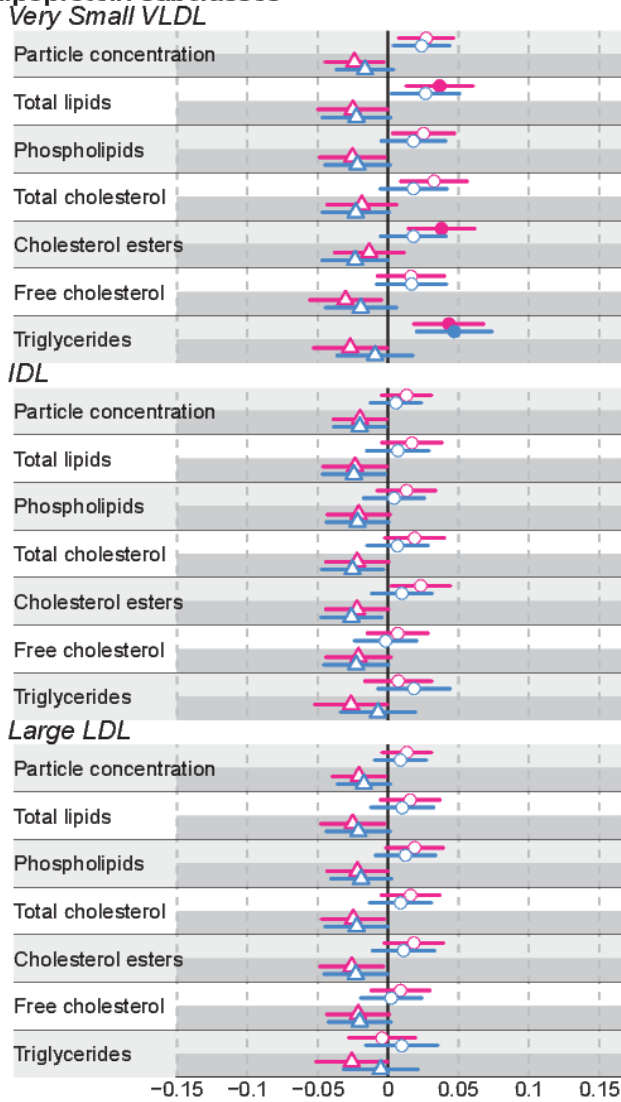
S7 Fig. One-stage IPD meta-analysis: offspring lipoprotein, lipids and metabolite differences in means in SD units per 1-SD higher maternal (pink) or paternal (blue) BMI, meta-analysed across ALSPAC and NFBC86 cohorts, with and without further adjustment for offspring BMI.



* P < 0.0037 for parental difference

S7 Fig continued.

Lipoprotein subclasses

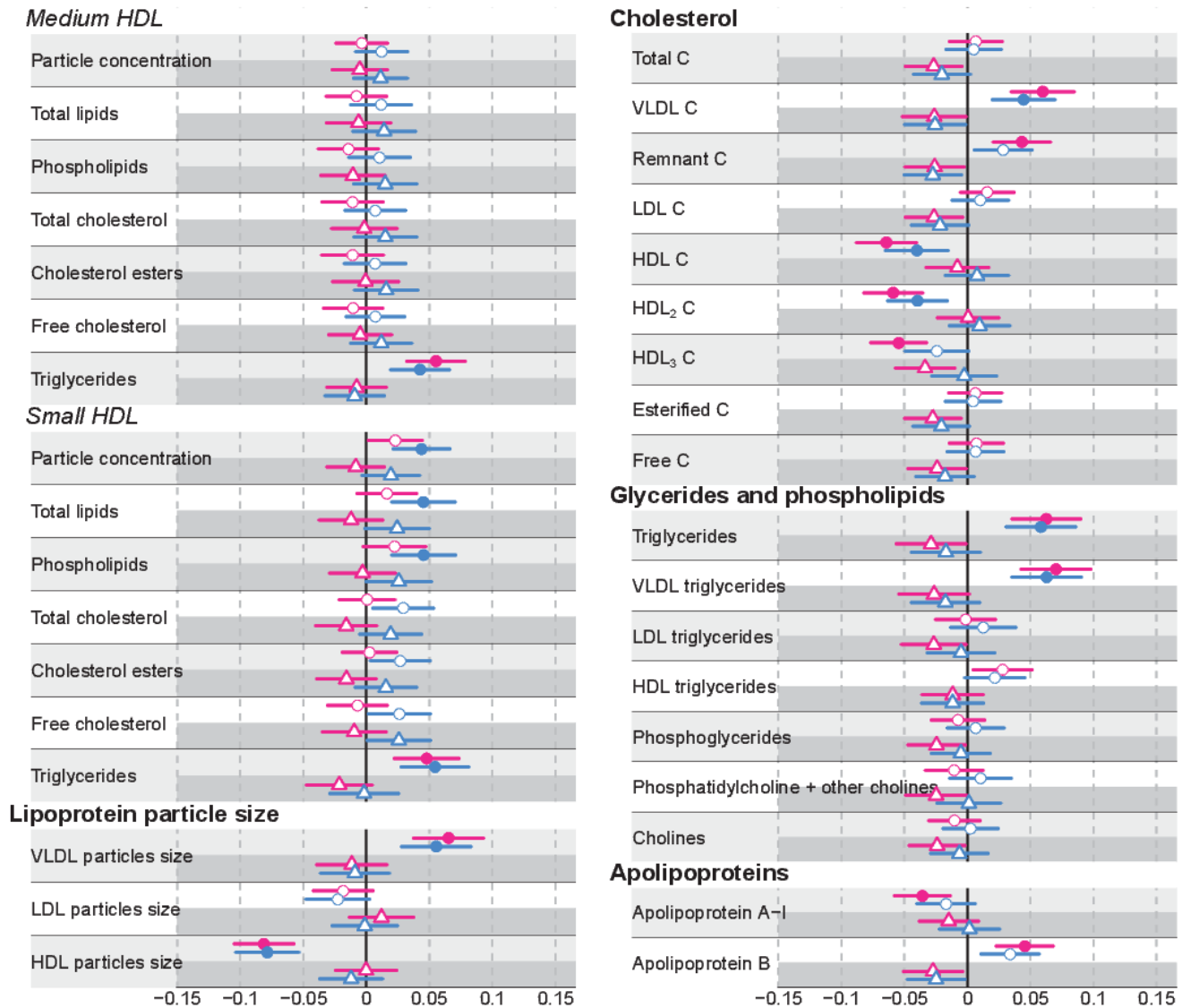


SD difference in offspring metabolite concentration (95%CI) per 1-SD of parental BMI increment

		P ≥ 0.003	P < 0.003
		Mother	Father
without additional adjustment for offspring BMI	with additional adjustment for offspring BMI	○	●
		△	▲

* P < 0.0037 for parental difference

S7 Fig continued.



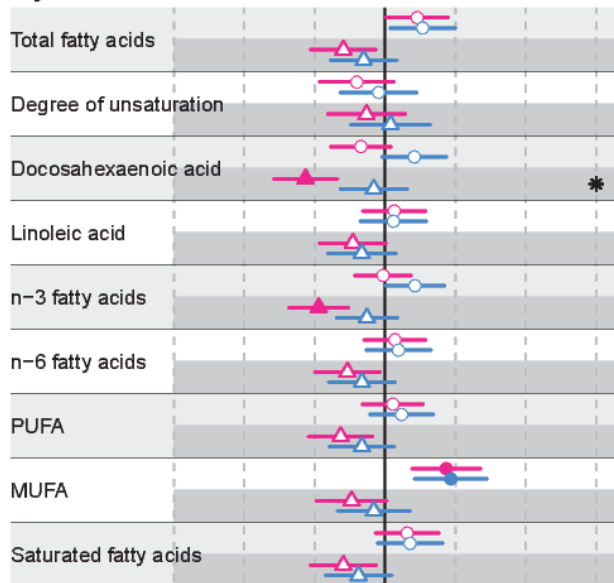
SD difference in offspring metabolite concentration (95%CI) per 1-SD of parental BMI increment

without additional adjustment for offspring BMI P ≥ 0.003 P < 0.003
 with additional adjustment for offspring BMI Mother Father Mother Father

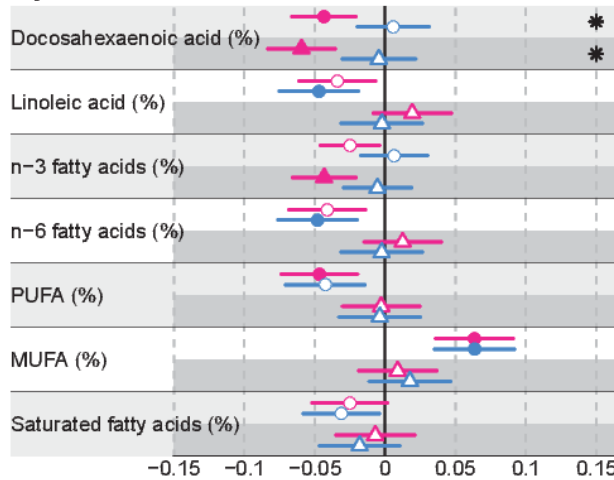
* P < 0.0037 for parental difference

S7 Fig continued.

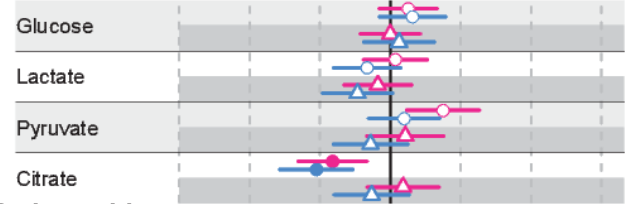
Fatty acids



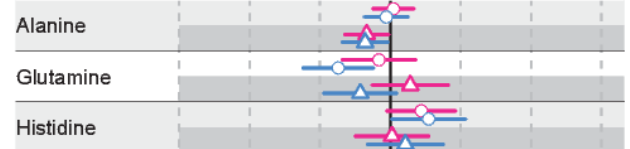
Fatty acids ratios



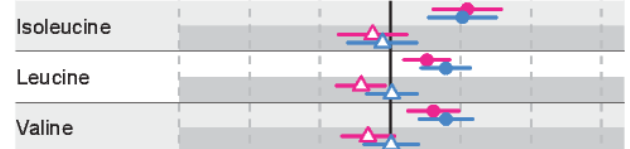
Glycolysis related metabolites



Amino acids



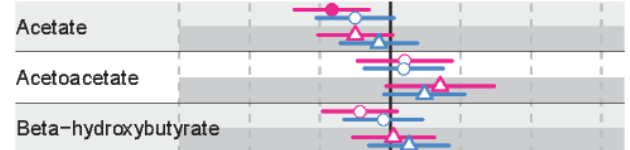
Branched-chain amino acids



Aromatic amino acids



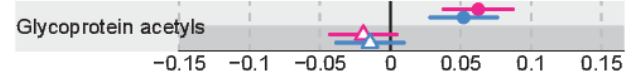
Ketone bodies



Fluid balance



Inflammation



SD difference in offspring metabolite concentration (95%CI) per 1-SD of parental BMI increment

without additional adjustment for offspring BMI P ≥ 0.003 P < 0.003
 with additional adjustment for offspring BMI Mother Father Mother Father

* P < 0.0037 for parental difference

Associations were adjusted for parental age, smoking status, education, head of household social class, maternal parity, offspring's age at blood collection, sex and cohorts membership. Results are shown in SD-scaled concentration units of outcome and error bars denote 95% CI. VLDL=very-low-density lipoprotein; IDL=intermediate-density lipoprotein; LDL=low-density lipoprotein; HDL= high-density lipoprotein; C= cholesterol; MUFA=monounsaturated fatty acids; PUFA=polyunsaturated fatty acids.