

Table 5. Associations between 12-month LA/ALA ratio and neurodevelopmental scores in preschool children, imputed analyses

	ASQ at 3 years (n=914)						IQ at 5-6 years (n=785)		
	Full ASQ score	Risk of having a poor ASQ sub-score (1st tertile vs other tertiles)					Full IQ	Verbal IQ	Performance IQ
		Communication	Gross motor	Fine motor	Problem solving	Personal-social			
	β (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	β (95% CI)	β (95% CI)	β (95% CI)
Unadjusted analyses									
LA/ALA ratio									
1 st tertile (<7.6)	0 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	0 (Ref)	0 (Ref)	0 (Ref)
2 nd tertile (7.6 to 10.0)	3.9 (-0.9; 8.7)	0.8 (0.6; 1.1)	0.8 (0.6; 1.1)	0.8 (0.6; 1.2)	0.8 (0.5; 1.1)	1.2 (0.9; 1.7)	0.7 (-1.6; 3.0)	1.1 (-1.3; 3.6)	0.1 (-2.3; 2.5)
3 rd tertile (\geq 10.0)	1.3 (-3.3; 6.0)	0.8 (0.6; 1.1)	1.0 (0.7; 1.4)	0.8 (0.6; 1.2)	1.0 (0.7; 1.3)	1.0 (0.7; 1.3)	-0.6 (-2.8; 1.6)	-1.6 (-4.0; 0.7)	0.3 (-2.0; 2.5)
Model 1									
LA/ALA ratio									
1 st tertile (<7.6)	0 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	0 (Ref)	0 (Ref)	0 (Ref)
2 nd tertile (7.6 to 10.0)	2.8 (-1.9; 7.4)	0.8 (0.6; 1.1)	0.8 (0.6; 1.1)	0.9 (0.6; 1.3)	0.8 (0.5; 1.1)	1.4 (1.0; 2.0)	1.2 (-1.0; 3.4)	1.7 (-0.5; 4.0)	0.6 (-1.7; 2.9)
3 rd tertile (\geq 10.0)	1.6 (-3.0; 6.1)	0.8 (0.5; 1.1)	0.9 (0.7; 1.3)	0.8 (0.6; 1.2)	0.9 (0.7; 1.3)	1.0 (0.7; 1.5)	0.3 (-1.8; 2.4)	-0.4 (-2.6; 1.9)	1.0 (-1.2; 3.3)
Model 2									
LA/ALA ratio									
1 st tertile (<7.6)	0 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	1 (Ref)	0 (Ref)	0 (Ref)	0 (Ref)
2 nd tertile (7.6 to 10.0)	2.5 (-2.1; 7.2)	0.8 (0.6; 1.1)	0.8 (0.6; 1.1)	0.9 (0.6; 1.3)	0.8 (0.6; 1.1)	1.4 (1.0; 2.0)	1.2 (-1.0; 3.4)	1.8 (-0.5; 4.0)	0.6 (-1.7; 2.9)
3 rd tertile (\geq 10.0)	1.2 (-3.3; 5.8)	0.8 (0.6; 1.1)	0.9 (0.7; 1.3)	0.9 (0.6; 1.2)	0.9 (0.7; 1.3)	1.1 (0.8; 1.5)	0.1 (-2.1; 2.2)	-0.7 (-2.9; 1.5)	1.0 (-1.3; 3.2)

ASQ: Ages and Stages Questionnaire; IQ: Intelligence Quotient; β : regression coefficient; OR: odds ratio; CI: confidence interval; ALA: α -linolenic acid; LA: linoleic acid. Model 1: Multivariable linear regression models adjusted for total lipid intake (g), child's characteristics (sex, gestational age, birth weight z-scores, exclusive breastfeeding duration, age at complementary feeding introduction, age at the neurodevelopmental assessment) and maternal characteristics (parity, age at delivery, educational level, BMI pre-pregnancy, smoking habits during pregnancy, alcohol drinking during pregnancy, frequency of fruit and vegetables intake during pregnancy, fish intake during pregnancy and recruitment center). Model 2: Further adjusted for maternal stimulation at 3 years for the ASQ outcomes and parental home stimulation (HOME-score) at 5 years for the IQ outcomes.