

**Supplementary Table SVI. Association between retinal microvasculature (in tertiles) and time to pregnancy with complete dataset.**

Retinal vascular features	Time to pregnancy (n = 583)		
	Model 1 FOR (95% CI)	Model 2 FOR (95% CI)	Model 3 FOR (95% CI)
<b>Retinal arteriolar features</b>			
CRAE			
T1	0.92 (0.68, 1.26)	0.91 (0.66, 1.25)	0.89 (0.64, 1.22)
T2	0.96 (0.71, 1.31)	0.94 (0.69, 1.28)	0.93 (0.69, 1.27)
T3	Ref.	Ref.	Ref.
<i>P for trend</i>	0.61	0.55	0.45
DF-a			
T1	0.78 (0.57, 1.06)	0.78 (0.57, 1.07)	0.74 (0.54, 1.01)
T2	<b>0.73 (0.54, 0.99)</b>	<b>0.74 (0.54, 1.00)</b>	<b>0.71 (0.52, 0.97)</b>
T3	Ref.	Ref.	Ref.
<i>P for trend</i>	0.12	0.13	0.07
BA-a			
T1	0.80 (0.59, 1.08)	0.80 (0.59, 1.08)	0.75 (0.55, 1.01)
T2	0.87 (0.64, 1.17)	0.86 (0.63, 1.17)	0.82 (0.61, 1.12)
T3	Ref.	Ref.	Ref.
<i>P for trend</i>	0.14	0.14	0.06
<b>Retinal venular features</b>			
CRVE			
T1	Ref.	Ref.	Ref.
T2	0.99 (0.73, 1.35)	0.98 (0.71, 1.33)	0.96 (0.71, 1.32)
T3	1.17 (0.86, 1.59)	1.18 (0.86, 1.61)	1.20 (0.88, 1.64)
<i>P for trend</i>	0.33	0.30	0.27
DF-v			
T1	0.95 (0.69, 1.30)	0.98 (0.71, 1.34)	0.94 (0.69, 1.30)
T2	1.17 (0.86, 1.60)	1.18 (0.87, 1.61)	1.09 (0.80, 1.49)
T3	Ref.	Ref.	Ref.
<i>P for trend</i>	0.71	0.88	0.71
BA-v			
T1	0.77 (0.57, 1.04)	0.77 (0.57, 1.04)	0.76 (0.54, 1.01)
T2	Ref.	Ref.	Ref.
T3	<b>0.71 (0.52, 0.97)</b>	<b>0.71 (0.52, 0.97)</b>	0.74 (0.54, 1.01)

Abbreviations: FOR, fecundability odds ratio; T1, the lowest tertile; T2, the middle tertile; T3, the highest tertile; CRAE, central retinal arteriolar equivalent value; CRVE, central retinal venular equivalent value; DF-a, fractal dimension-arteriole; DF-v, fractal dimension-venule; BA-a, branching angle-arteriole; BA-v, branching angle-venule, value.

Model 1: Adjusted for maternal age, ethnicity (Chinese vs Malay vs Indian vs Others), college education (yes vs no), and EPDS score ( $\geq 14$  vs  $< 14$ ) collected at study entry. Model 2: Model 1 and maternal STAI score ( $\geq 75$ th vs  $< 75$ th percentile), systolic blood pressure, physical activity (inactive vs minimally active vs HEPA active), and micronutrient dietary supplements intake (yes vs no) at study entry. Model 3: Model 2 and additionally adjusted for BMI at study entry (underweight vs normal weight vs overweight vs obese) and fasting plasma glucose ( $\geq 5.1$  vs  $< 5.1$  mmol/L) at study entry.