Table 2. Conditional logistic regression analyses with presence or absence of cancer as the dependent variable, for both absolute* and relative[+] breast FA (N=504)

Risk factor	Crude relative odds	(95% CI)	p-value	Adjusted relative odds*	(95% CI)	p-value	Adjusted relative odds[+]	(95% CI)	p-value
Absolute breast FA (ml)	1.003	(1.000, 1.005)	0.039	1.004	(1.001, 1.007)	0.010	-	-	-
Relative breast FA	1.007	(0.999, 1.014)	0.070	-	-	-	1.009	(1.001, 1.017)	0.032
BMI	0.999	(0.945, 1.057)	0.978	0.998	(0.914, 1.090)	0.966	1.001	(0.917, 1.093)	0.982
Height (cm)	1.056	(1.025, 1.087)	<0.001	1.056	(1.021, 1.092)	0.001	1.053	(1.019, 1.088)	0.002
Age at menarche (years)	0.808	(0.723, 0.902)	<0.001	0.781	(0.688, 0.886)	<0.001	0.781	(0.688, 0.886)	<0.001
Number of pregnancies	0.937	(0.842, 1.042)	0.229	1.044	(0.923, 1.180)	0.493	1.040	(0.921, 1.176)	0.524
Family history	2.003	(1.368, 2.935)	<0.001	2.082	(1.354, 3.201)	0.001	2.097	(1.361, 3.231)	0.001
Mean breast volume (ml)	1.000	(0.999, 1.001)	0.824	0.999	(0.999, 1.000)	0.326	1.000	(0.999, 1.001)	0.939
Parenchyma type (right breast):									
N1	1.0	-	-	1.0	-	-	1.0	-	-
P1	3.253	(1.622, 6.524)	0.001	3.228	(1.508, 6.910)	0.003	3.297	(1.543, 7.046)	0.002
P2	4.269	(2.230, 8.173)	<0.001	3.605	(1.726, 7.531)	0.001	3.747	(1.795, 7.822)	<0.001
DY	2.694	(1.513, 4.794)	0.001	2.944	(1.484, 5.841)	0.002	3.019	(1.523, 5.986)	0.002
Menopausal status:									
Pre	1.0	-	-	1.0	-	-	1.0	-	-
Peri	0.490	(0.264, 0.907)	0.023	0.446	(0.229, 0.867)	0.017	0.461	(0.238, 0.892)	0.022
Post	0.286	(0.135, 0.608)	0.001	0.368	(0.162, 0.834)	0.017	0.376	(0.166, 0.848)	0.018
Age at menopause** (years)	1.158	(1.057, 1.270)	0.002	1.181	(1.063, 1.312)	0.002	1.174	(1.058, 1.302)	0.002

**for subgroup of post-menopausal women. When age at menopause is included in the model BMI, height, number of pregnancies and parenchyma types P1 and P2 become insignificant, and mean breast volume and parenchyma type DY have borderline significance. Absolute breast FA and relative breast FA remain significant effects.

Absolute breast FA = unsigned values (|L-R|) of breast volume.

Relative breast FA = L-R breast volume / [L+R breast volume] 0.5

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