1

Supplementary Table 2. Adjusted overall survival for elderly women (age ≥ 70 years old) with ductal carcinoma *in situ*, grade 1 tumors, including tumor size as a variable (*n* = 1,911, Events = 394)

	Hazard ratio (95%CI)	*P*-value	Overall *P*-value
Treatment Group			0.02
Lumpectomy alone	REF	-	
Lumpectomy + Radiation or Mastectomy	0.79 (0.649-0.962)	0.02	
Age (years)	1.099 (1.078-1.121)	< 0.001	< 0.001
Year of diagnosis	1.005 (0.962-1.05)	0.82	0.82
Race/Ethnicity			0.91
Non-Hispanic White	REF	-	
Non-Hispanic Black	0.958 (0.686-1.337)	0.80	
Hispanic	0.801 (0.431-1.487)	0.48	
Other	1.009 (0.532-1.912)	0.98	
Charlson/Deyo comorbidity score			0.01
0	REF	-	
1	1.238 (0.937-1.636)	0.13	
≥ 2	1.719 (1.176-2.514)	0.005	
Tumor size (cm)	0.997 (0.988-1.006)	0.49	0.49
ER status			0.44
ER+	REF	-	
ER-	1.286 (0.679-2.438)	0.44	
PR status			0.70
PR+	REF	-	
PR-	1.082 (0.72-1.627)	0.70	
Received endocrine therapy			0.11
No	REF	-	
Yes	0.84 (0.679-1.039)	0.11	

5   Hazard ratio reported for risk of death. Model also adjusted for income, education, insurance,

6   facility type and location. ER: estrogen receptor; PR: progesterone receptor

7