Appendix Table 1. Multivariate Cox proportional hazards risk of breast cancer death stratified by tumor characteristics

|  | | | | Multivariate | |
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| Stratification Factor | Stratification Level | VSM Status | N (%) | HR (95% CI) | p-value |
| ER/PR status | ER+PR+ | Never | 548 (60.7) |  | - |
| Persistent | 355 (39.3) | 1.26 (0.67 - 2.37) | 0.4749 |
| ER+PR- | Never | 128 (67.4) |  | - |
| Persistent | 62 (32.6) | 0.50 (0.12 - 2.01) | 0.3274 |
| ER-PR- | Never | 96 (53.6) |  | - |
| Persistent | 83 (46.4) | 0.67 (0.26 - 1.72) | 0.4039 |
| Estrogen receptor assay | Positive | Never | 680 (61.6) |  | - |
| Persistent | 424 (38.4) | 1.08 (0.63 - 1.88) | 0.7717 |
| Negative | Never | 105 (53.3) |  | - |
| Persistent | 92 (46.7) | 0.75 (0.32 - 1.74) | 0.4958 |
| HER2/NEU | Positive | Never | 77 (56.2) |  | - |
| Persistent | 60 (43.8) | 0.97 (0.27 - 3.52) | 0.9589 |
| Negative | Never | 542 (59.0) |  | - |
| Persistent | 376 (41.0) | 1.56 (0.90 - 2.69) | 0.1094 |
| Progesterone receptor ass | Positive | Never | 556 (60.5) |  | - |
| Persistent | 363 (39.5) | 1.26 (0.68 - 2.33) | 0.4583 |
| Negative | Never | 224 (60.7) |  | - |
| Persistent | 145 (39.3) | 0.87 (0.43 - 1.75) | 0.6973 |
| Triple negative | Not triple negative | Never | 565 (59.4) |  | - |
| Persistent | 386 (40.6) | 1.33 (0.76 - 2.33) | 0.3250 |
| Triple negative | Never | 52 (54.2) |  | - |
| Persistent | 44 (45.8) | 1.43 (0.43 - 4.78) | 0.5640 |
| Multivariate model includes age at enrollment, BMI, waist circumference, family history of breast cancer, smoking status, alcohol intake status, and parity. | | | | | |