

A

Supplemental Table for Fig. 1B		
	Hazard Ratio (95% CI)	p-value
P53 Status (mutant vs. wild-type)	1.185 (1.019-1.379)	0.0275
Tumor Grade (3 vs. ≤ 2)	1.310 (1.102-1.556)	0.0021
Tumor Stage (2 vs. 0+1)	1.070 (0.938-1.220)	0.3144
Tumor Stage (3+4 vs. 0+1)	1.222 (0.941-1.586)	0.1328
Tumor Size	1.011 (1.007-1.014)	<.0001
Nottingham Prognostic Index	1.318 (1.217-1.428)	<.0001
ER Status (+ vs. -)	1.243 (1.031-1.498)	0.0225
HER2 Status (+ vs. -)	1.351 (1.126-1.622)	0.0012
PR Status (+ vs. -)	0.886 (0.768-1.023)	0.0984

B

Supplemental Table for Fig. 1C		
	Hazard Ratio (95% CI)	p-value
P53 Status (mutant vs. wild-type)	0.805 (0.586-1.105)	0.179
Tumor Grade (3 vs. ≤ 2)	1.000 (0.630-1.588)	0.9985
Tumor Stage (2 vs. 0+1)	0.695 (0.504-0.959)	0.0266
Tumor Stage (3+4 vs. 0+1)	1.085 (0.698-1.687)	0.7178
Tumor Size	1.001 (0.995-1.007)	0.7438
Nottingham Prognostic Index	1.371 (1.092-1.721)	0.0065
ER Status (+ vs. -)	0.880 (0.587-1.319)	0.5347
HER2 Status (+ vs. -)	1.391 (1.024-1.888)	0.0345
PR Status (+ vs. -)	0.877 (0.582-1.321)	0.5302

C

Supplemental Table for Fig. 1D		
	Hazard Ratio (95% CI)	p-value
P53 Status (mutant vs. wild-type)	0.822 (0.571-1.184)	0.2922
Tumor Grade (3 vs. ≤ 2)	0.982 (0.561-1.718)	0.949
Tumor Stage (2 vs. 0+1)	0.822 (0.552-1.225)	0.3356
Tumor Stage (3+4 vs. 0+1)	1.175 (0.702-1.968)	0.5388
Tumor Size	1.001 (0.994-1.008)	0.8107
Nottingham Prognostic Index	1.475 (1.130-1.924)	0.0042
ER Status (+ vs. -)	0.822 (0.524-1.288)	0.392
HER2 Status (+ vs. -)	1.327 (0.929-1.894)	0.1196
PR Status (+ vs. -)	0.959 (0.604-1.523)	0.86

D

Supplemental Table for Fig. 1E		
	Hazard Ratio (95% CI)	p-value
P53 Status (mutant vs. wild-type)	0.590 (0.366-0.952)	0.0308
Tumor Grade (3 vs. ≤ 2)	1.205 (0.562-2.584)	0.6324
Tumor Stage (2 vs. 0+1)	1.214 (0.689-2.138)	0.5028
Tumor Stage (3+4 vs. 0+1)	2.398 (1.159-4.960)	0.0184
Tumor Size	1.002 (0.993-1.011)	0.7007
Nottingham Prognostic Index	1.046 (0.670-1.633)	0.8447
ER Status (+ vs. -)	1.094 (0.546-2.190)	0.7997
HER2 Status (+ vs. -)	1.736 (1.104-2.731)	0.017
PR Status (+ vs. -)	1.095 (0.493-2.430)	0.8239

E

Supplemental Table for Fig. 1F		
	Hazard Ratio (95% CI)	p-value
P53 Status (mutant vs. wild-type)	1.392 (0.823-2.353)	0.2171
Tumor Grade (3 vs. ≤ 2)	0.834 (0.392-1.774)	0.6383
Tumor Stage (2 vs. 0+1)	0.471 (0.254-0.874)	0.0169
Tumor Stage (3+4 vs. 0+1)	0.474 (0.192-1.169)	0.1051
Tumor Size	0.999 (0.986-1.011)	0.8338
Nottingham Prognostic Index	1.782 (1.250-2.540)	0.0014
ER Status (+ vs. -)	1.151 (0.607-2.179)	0.6669
HER2 Status (+ vs. -)	0.784 (0.403-1.528)	0.475
PR Status (+ vs. -)	0.987 (0.558-1.744)	0.964

F

Supplemental Table for Fig. 1G		
	Hazard Ratio (95% CI)	p-value
Hormone Therapy (yes vs. no)	0.361 (0.200-0.654)	0.0008
Tumor Grade (3 vs. ≤ 2)	0.644 (0.272-1.524)	0.3167
Tumor Stage (2 vs. 0+1)	0.590 (0.297-1.175)	0.1335
Tumor Stage (3+4 vs. 0+1)	0.710 (0.283-1.779)	0.4642
Tumor Size	1.002 (0.992-1.013)	0.6878
Nottingham Prognostic Index	1.648 (1.055-2.573)	0.028
ER Status (+ vs. -)	1.077 (0.540-2.147)	0.834
HER2 Status (+ vs. -)	0.917 (0.468-1.798)	0.8008
PR Status (+ vs. -)	0.994 (0.536-1.843)	0.9837

G

Supplemental Table for Fig. 1H		
	Hazard Ratio (95% CI)	p-value
Hormone Therapy (yes vs. no)	1.126 (0.718-1.768)	0.6048
Tumor Grade (3 vs. ≤ 2)	1.816 (0.894-3.689)	0.0992
Tumor Stage (2 vs. 0+1)	0.946 (0.581-1.540)	0.8235
Tumor Stage (3+4 vs. 0+1)	1.319 (0.682-2.550)	0.411
Tumor Size	1.001 (0.992-1.011)	0.8289
Nottingham Prognostic Index	1.423 (1.007-2.010)	0.0457
ER Status (+ vs. -)	0.862 (0.460-1.616)	0.6428
HER2 Status (+ vs. -)	1.477 (0.966-2.259)	0.0719
PR Status (+ vs. -)	0.906 (0.451-1.824)	0.7829