

Table S1. Cox Regression

| Case Processing Summary | | | |
|-----------------------------|---|-----|---------|
| | | N | Percent |
| Cases available in analysis | Event ^a | 45 | 6.6% |
| | Censored | 0 | 0.0% |
| | Total | 45 | 6.6% |
| Cases dropped | Cases with missing values | 639 | 93.4% |
| | Cases with negative time | 0 | 0.0% |
| | Censored cases before the earliest event in a stratum | 0 | 0.0% |
| | Total | 639 | 93.4% |
| Total | | 684 | 100.0% |

a. Dependent Variable: Invasive Disease-Free Survival (months)

| Categorical Variable Codings ^{a,c,d,e} | | | | | |
|---|-------------------|-----------|-----|-----|-----|
| | | Frequency | (1) | (2) | (3) |
| Subtype ^b | 1=Luminal A | 27 | 0 | 0 | 0 |
| | 2=Luminal B | 6 | 1 | 0 | 0 |
| | 3=HER2 enriched | 2 | 0 | 1 | 0 |
| | 4=Triple Negative | 10 | 0 | 0 | 1 |
| Mastectomy ^b | 0=No | 28 | 0 | | |
| | 1=Yes | 17 | 1 | | |
| Oophorectomy ^b | 0=No | 17 | 0 | | |
| | 1=Yes | 28 | 1 | | |
| mastectomy_and_oophorectomy ^b | 0=No | 31 | 0 | | |
| | 1=Yes | 14 | 1 | | |

a. Category variable: Subtype

b. Indicator Parameter Coding

c. Category variable: Mastectomy

d. Category variable: Oophorectomy

e. Category variable: mastectomy_and_oophorectomy

Block 1: Method = Forward Stepwise (Conditional LR)

| Variables in the Equation | | | | | | | | |
|---------------------------|-------|------|-------|----|------|--------|---------------------|-------|
| | B | SE | Wald | df | Sig. | Exp(B) | 95.0% CI for Exp(B) | |
| | | | | | | | Lower | Upper |
| Step 1 Oophorectomy | -.899 | .327 | 7.552 | 1 | .006 | 407 | .215 | .773 |

Variables not in the Equation^a

| | | Score | df | Sig. |
|--------|-----------------------------|-------|----|------|
| Step 1 | Mastectomy | .127 | 1 | .722 |
| | mastectomy_and_oophorectomy | 2.646 | 1 | .104 |
| | Subtype | .098 | 3 | .992 |
| | Subtype(1) | .009 | 1 | .926 |
| | Subtype(2) | .031 | 1 | .860 |
| | Subtype(3) | .059 | 1 | .809 |
| | Age_diagnosis | .480 | 1 | .488 |

a. Residual Chi Square = 6.011 with 6 df Sig. = .422

Cox Regression

Case Processing Summary

| | | N | Percent |
|-----------------------------|---|-----|---------|
| Cases available in analysis | Event ^a | 24 | 3.5% |
| | Censored | 213 | 31.1% |
| | Total | 237 | 34.6% |
| Cases dropped | Cases with missing values | 447 | 65.4% |
| | Cases with negative time | 0 | 0.0% |
| | Censored cases before the earliest event in a stratum | 0 | 0.0% |
| | Total | 447 | 65.4% |
| Total | | 684 | 100.0% |

a. Dependent Variable: Overall Survival (meses)

Categorical Variable Codings^{a,c,d,e}

| | | Frequency | (1) | (2) | (3) |
|--|-------------------|-----------|-----|-----|-----|
| Subtype ^b | 1=Luminal A | 139 | 0 | 0 | 0 |
| | 2=Luminal B | 18 | 1 | 0 | 0 |
| | 3=HER2 enriched | 4 | 0 | 1 | 0 |
| | 4=Triple Negative | 76 | 0 | 0 | 1 |
| Mastectomy ^b | 0=No | 78 | 0 | | |
| | 1=Yes | 159 | 1 | | |
| Oophorectomy ^b | 0=No | 55 | 0 | | |
| | 1=Yes | 182 | 1 | | |
| mastectomy_and_oophorectomy ^b | 0=No | 96 | 0 | | |
| | 1=Yes | 141 | 1 | | |

a. Category variable: Subtype

b. Indicator Parameter Coding

c. Category variable: Mastectomy

d. Category variable: Oophorectomy

e. Category variable: mastectomy_and_oophorectomy

Block 1: Method = Forward Stepwise (Conditional LR)

Variables in the Equation

| | B | SE | Wald | df | Sig. | Exp(B) | 95.0% CI for Exp(B) | |
|-------------------|--------|------|--------|----|------|--------|---------------------|-------|
| | | | | | | | Lower | Upper |
| Step 1 Mastectomy | -1.624 | .449 | 13.067 | 1 | .000 | .197 | .082 | .475 |

Variables not in the Equation^a

| | | Score | df | Sig. |
|--------|-----------------------------|-------|----|------|
| Step 1 | Oophorectomy | 3.658 | 1 | .056 |
| | mastectomy_and_oophorectomy | .093 | 1 | .760 |
| | Subtype | 5.099 | 3 | .165 |
| | Subtype(1) | 3.822 | 1 | .051 |
| | Subtype(2) | .506 | 1 | .477 |
| | Subtype(3) | .174 | 1 | .677 |
| | Age_diagnosis | .155 | 1 | .693 |

a. Residual Chi Square = 10.327 with 6 df Sig. = .112