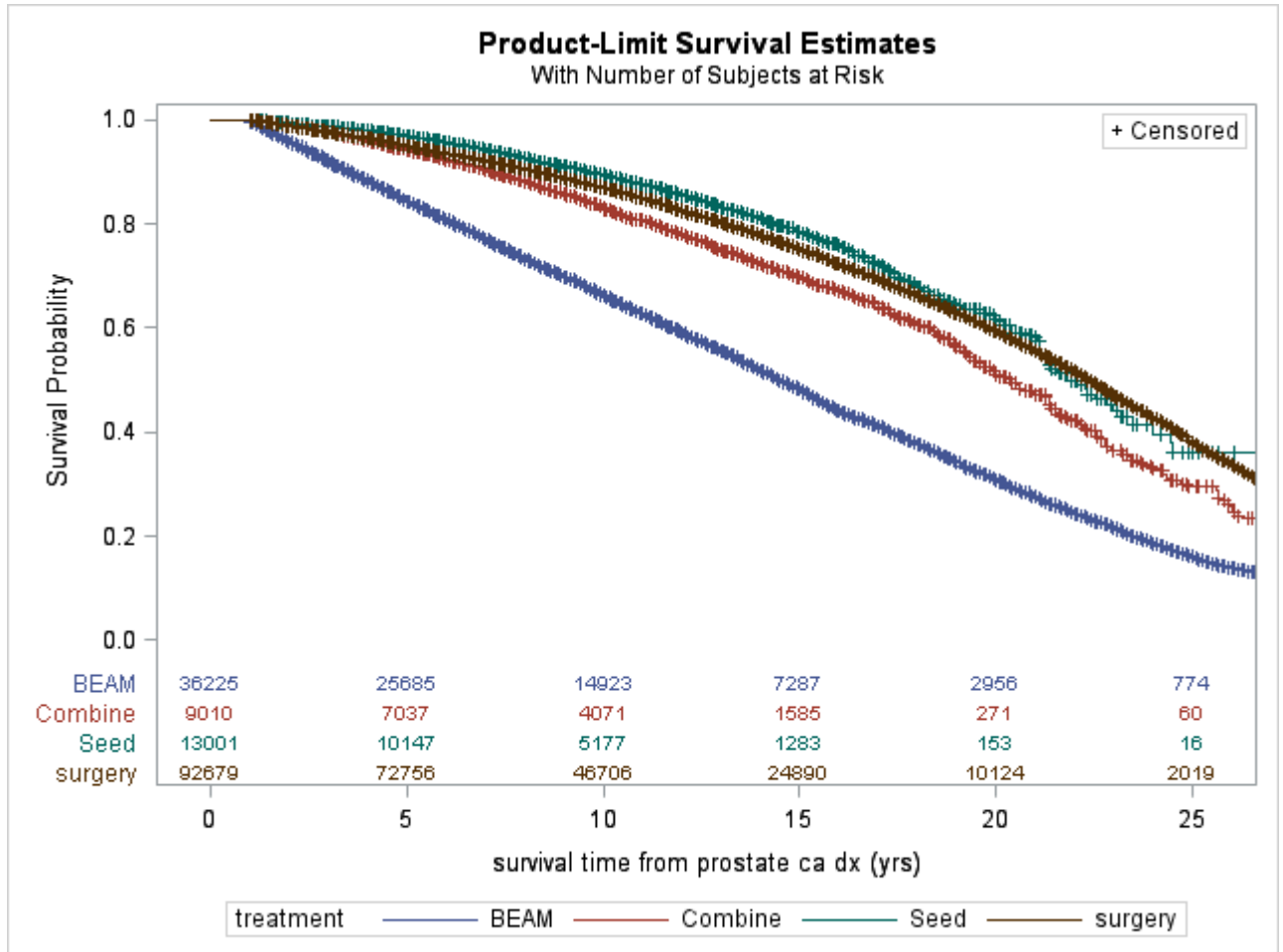


Supplementary B. Survival analysis after first prostate cancer diagnosis

1. Overall survival



Surgery: N=92679, 21468 deaths, 71211 censored (76.8% censoring)

Median survival=22.3 years, 95% CI= (22.2, 22.5 years), IQR=13.1 yr (15.1-28.2)

BEAM: N=36225, 17046 deaths, 19179 censored (52.9% censoring)

Median survival=14.5 years, 95% CI= (14.3, 14.7 years), IQR=14.2 yr (7.6-21.8)

Seed: N=13001, 1497 deaths, 11504 censored (88.5% censoring)

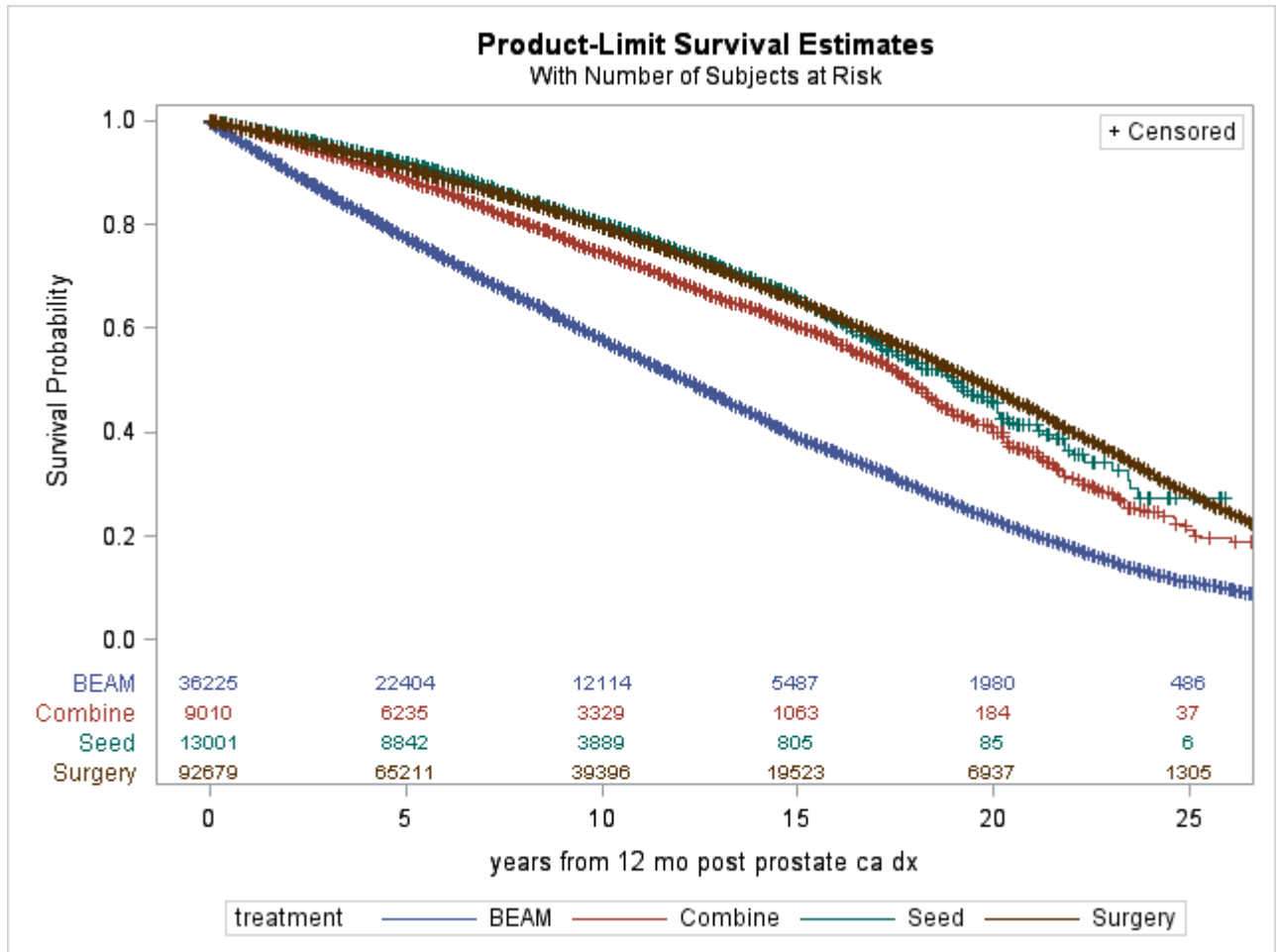
Median survival=21.8 years, 95% CI= (21.2, 23.2 years), IQR=not estimated (16.3-not estimated)

Combined: N=9010, 1951 deaths, 7059 censored (78.4% censoring)

Median survival=20.4 years, 95% CI= (19.7, 21.3 years), IQR=13.1 (13.0-26.1)

Log-rank test comparing survival between treatments: p<0.0001

2. Second malignancy free survival (at risk time)



Surgery: N=92679, 26004 events (death or second malignancy), 66675 censored (71.9% censoring)

Median survival=19.6 years, 95% CI= (19.3, 19.7 years), IQR=14.2 yr (11.7-25.9 years)

BEAM: N=36225, 18393 events (death or second malignancy), 17832 censored (49.2% censoring)

Median survival=12.2 years, 95% CI= (12.0, 12.3 years), IQR=13.7 yr (5.7-19.4 years)

Seed: N=13001, 2290 events (death or second malignancy), 10711 censored (82.4% censoring)

Median survival=19.0 years, 95% CI= (18.1, 20.0 years), IQR=not estimated (12.0-not estimated)

Combined: N=9010, 2403 events (death or second malignancy), 6607 censored (73.3% censoring)

Median survival=17.8 years, 95% CI= (17.4, 18.2 years), IQR=14.0 (9.8-23.8)

Log-rank test comparing treatments: $p < 0.0001$