

Table 1 - Description of outcome and predictors

Variable	Level or Units	Mean (SD) or N(%)
Outcome	End of study/ loss to follow up	359 (57.90%)
	Died/tumour recurrence	261 (42.10%)
Hormone	No	393 (63.39%)
	Yes	227 (36.61%)
Age	(years)	53.18 (10.18)
Tumour grade	Low	76 (12.26)
	Medium	401 (64.68)
	High	143 (23.06)
Size of tumour	(mm)	29.46 (14.40)
Nodes	Number of positive lymph nodes involved	4.85 (5.36)
Progesterone	(fmol)	113.83 (209.99)
Estrogen	(fmol)	98.33 (156.99)

Table 2 - Gamma estimates for weibull regression

Risk factor	γ estimate	95% Confidence interval
Nodes	1.375	1.239 to 1.526
Grade (Medium vs High) (High vs Low)	1.303 1.317	1.174 to 1.447 1.187 to 1.462
Age	1.304	1.175 to 1.448
Hormone therapy	1.322	1.192 to 1.468
Progesterone	1.322	1.192 to 1.467
Estrogen	1.304	1.175 to 1.447
Size	1.322	1.192 to 1.467

Table 3 - Individual model comparing each variable individually and final multivariable model

Individual model				Final Multivariable model		
Risk Factor	Parameter Estimate	P-Value	Hazard Ratio (95% CI for HR)	Parameter Estimate	P-Value	Hazard Ratio (95% CI for HR)
Hormone (yes vs no)	-0.417	0.002	0.659 (0.508-0.857)	-0.367	0.006	0.693 (0.532-0.902)
Age	-0.002	0.737	.998 (0.986-1.010)	N/A	N/A	N/A
Tumour grade (Medium vs low)	0.813	0.001	2.254 (1.370-3.709)	0.625	0.015	1.869 (1.130-3.088)
(High vs low)	1.108	<0.001	3.027 (1.777-5.155)	0.778	0.005	2.177 (1.263-3.754)
Size of tumour	0.016	<0.001	1.016(1.009-1.023)	N/A	N/A	N/A
Number of nodes	0.059	<0.001	1.061 (1.046-1.076)	0.055	<0.001	1.057 (1.042-1.072)
Progesterone	-0.002	<0.001	0.998 (0.996-0.999)	-0.002	0.001	0.998 (0.997-0.999)
Estrogen	-0.001	0.193	0.999(0.998-1.000)	N/A	N/A	N/A

Figure 1 - log log plots for all the predictors

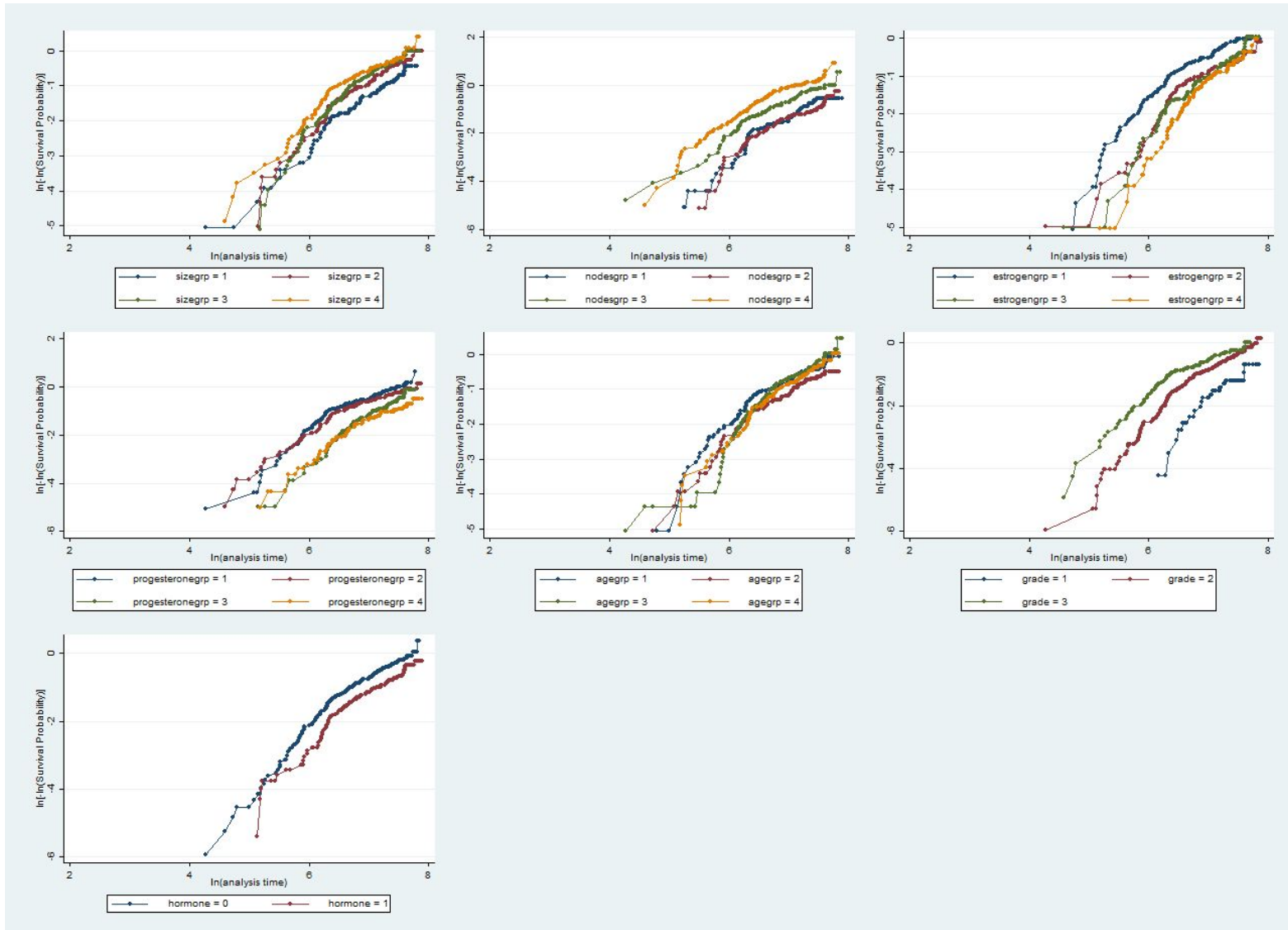


Figure 2 - Spline graph of both age and estrogen

