

Supplementary Table 6

Univariable (A) and multivariable (B) Cox regression for overall survival landmark cohort

(A) Univariable Cox analysis for overall survival landmark cohort

	Hazard ratio	P-value	95% CI
<u>Anesthesia (Reference = General)</u>			
Awake	0.81	0.057	(0.65-1.01)
<u>Age (10 year)^a</u>			
Spline 1	1.05	<0.001	(1.03-1.07)
Spline 2	0.99	0.317	(0.98-1.01)
<u>WHO grade (Reference = III)</u>			
IV	4.06	<0.001	(3.04-5.41)
<u>Pathological diagnosis (Reference = Anaplastic Astrocytoma)</u>			
Anaplastic Oligodendroglioma			
Glioma	0.98	0.933	(0.56-1.71)
	4.18	<0.001	(2.90-6.02)
<u>IDH (Reference = IDH-1)</u>			
IDH-WT			
	2.88	<0.001	(2.16-3.83)
<u>Pre-op KPS (Reference = <70%)</u>			
≥70%			
	0.74	0.005	(0.61-0.91)
<u>Treatment group (Reference = No RT)</u>			
Chemotherapy+RT followed by adjuvant chemotherapy			
RT alone followed by adjuvant chemotherapy	0.79	0.214	(0.54-1.15)
Chemotherapy+RT alone	1.17	0.642	(0.61-2.25)
RT alone	1.28	0.249	(0.84-1.97)
	0.70	0.139	(0.43-1.12)
<u>Adjuvant Chemotherapy (Reference = None)</u>			
< 6 cycles			
≥6 cycles	0.96	0.708	(0.78-1.18)
	0.45	<0.001	(0.35-0.58)
<u>MGMT (Reference = Positive)</u>			
Negative			
	1.51	0.017	(1.08-2.11)
<u>Tumor location (Reference = Infratentorial)</u>			
Multifocal			
Supratentorial	2.50	0.021	(1.15-5.46)
	1.99	0.071	(0.94-4.20)
<u>Blood transfusion (Reference = No)</u>			
Yes			
	1.11	0.804	(0.50-2.48)
<u>Intraoperative complications (Reference = No)</u>			
1-3 complication	1.16	0.400	(0.82-1.66)
<u>Radiation (Reference = None)</u>			
<60Gy	0.69	0.094	(0.45-1.06)
≥60Gy	0.79	0.293	(0.51-1.22)

<u>Chemotherapy+RT (Reference = No)</u>			
Yes	0.96	0.760	(0.76-1.23)
<u>Extent of Resection (Reference = Gross total)</u>			
Subtotal	1.10	0.309	(0.92-1.31)
<u>Sex (Reference = Male)</u>			
Female	1.04	0.685	(0.87-1.24)
Tumor size (cm ³)	1.00	0.203	(1.00-1.00)
Duration of anesthetics (30 min) ^b	0.97	0.033	(0.95-1.00)

(B) Multivariable Cox regression for overall survival landmark cohort

	Hazard ratio	P-value	95% CI
<u>Anesthesia (Reference = General)</u>			
Awake	0.90	0.361	0.70-1.14
<u>Age (10 year)^a</u>			
Spline 1	1.27	0.006	1.07-1.50
Spline 2	1.06	0.484	0.90-1.26
<u>WHO grade (Reference = III)</u>			
IV	1.13	0.814	0.42-3.04
<u>Pathological diagnosis (Reference = Anaplastic Astrocytoma)</u>			
Anaplastic Oligodendroglioma			
Glioma	0.87	0.651	0.48-1.57
	2.52	0.081	0.89-7.10
<u>IDH (Reference = IDH-1)</u>			
IDH-WT	1.72	0.002	1.22-2.42
<u>Treatment group (Reference = No RT)</u>			
Chemotherapy+RT followed by adjuvant chemotherapy			
RT alone followed by adjuvant chemotherapy	0.62	0.022	0.41-0.93
Chemotherapy+RT alone	0.85	0.639	0.43-1.68
RT alone	0.92	0.725	0.591-1.45
	0.59	0.041	0.35-0.98
<u>MGMT (Reference = Positive)</u>			
Negative	1.84	<0.001	1.30-2.61

^aRisk associated with every 10-year increase in age

^bRisk associated with every 30-minute increase in duration of anesthetics

CI, confidence interval; WHO, World Health Organization; IDH, isocitrate dehydrogenase; WT, wild type; KPS, Karnofsky Performance Status; RT, radiation therapy; MGMT, O(6)-methylguanine DNA methyltransferase