

Supplementary Table 5

Univariable (A) and multivariable (B) Cox regression for progression-free survival landmark cohort

(A) Univariable Cox regression for progression-free survival landmark cohort

	Hazard ratio	P-value	95% CI
<u>Anesthesia (Reference = General)</u>			
Awake	1.07	0.475	(0.89-1.29)
<u>Age (10 year)^a</u>			
Spline 1	1.63	<0.001	(1.42-1.87)
Spline 2	0.79	<0.001	(0.69-0.91)
<u>WHO grade (Reference = III)</u>			
IV	3.09	<0.001	(2.46-3.88)
<u>Pathological diagnosis (Reference = Anaplastic Astrocytoma)</u>			
Anaplastic Oligodendroglioma			
Glioma	0.72	0.129	(0.46-1.10)
	2.79	<0.001	(2.13-3.67)
<u>IDH (Reference = IDH-1)</u>			
IDH-WT			
	1.97	0.221	(1.58-2.45)
<u>Pre-op KPS (Reference = <70%)</u>			
≥70%			
	0.73	<0.001	(0.61-0.87)
<u>Treatment group (Reference = No RT)</u>			
Chemotherapy+RT followed by adjuvant chemotherapy			
RT alone followed by adjuvant chemotherapy	0.90	0.570	(0.64-1.28)
Chemotherapy+RT alone	1.18	0.607	(0.62-2.24)
RT alone	1.45	0.060	(0.98-2.15)
	0.79	0.272	(0.52-1.2)
<u>Adjuvant Chemotherapy (Reference = None)</u>			
< 6 cycles			
≥6 cycles	1.05	0.640	(0.87-1.26)
	0.52	<0.001	(0.42-0.65)
<u>MGMT (Reference = Positive)</u>			
Negative			
	1.12	0.427	(0.85-1.46)
<u>Tumor location (Reference = Infratentorial)</u>			
Multifocal			
Supratentorial	1.50	0.167	(0.84-2.67)
	1.45	0.167	(0.86-2.47)
<u>Blood transfusion (Reference = No)</u>			
Yes			
	0.90	0.774	(0.43-1.89)
<u>Intraoperative complications (Reference = No)</u>			
1-3 complications			
	1.13	0.461	(0.82-1.56)
<u>Radiation (Reference = None)</u>			
<60Gy			
≥60Gy	0.76	0.173	(0.52-1.13)
	0.77	0.201	(0.52-1.15)

<u>Chemotherapy+RT (Reference = No)</u>			
Yes	1.05	0.660	(0.85-1.29)
<u>Extent of Resection (Reference = Gross total)</u>			
Subtotal	1.01	0.945	(0.86-1.17)
<u>Sex (Reference = Male)</u>			
Female	0.95	0.553	(0.81-1.12)
Tumor size (cm ³)	1.00	0.952	(1.00-1.00)
Duration of anesthetics (30 min) ^b	0.97	0.003	(0.94-0.99)

(B) Multivariable Cox regression for progression-free survival landmark cohort			
	Hazard ratio	P-value	95% CI
<u>Anesthesia (Reference = General)</u>			
Awake	1.10	0.379	(0.89-1.35)
<u>Age (10 year)^a</u>			
Spline 1	1.33	<0.001	(1.15-1.53)
Spline 2	0.89	0.114	(0.77-1.03)
<u>WHO grade (Reference = III)</u>			
IV	1.45	0.449	(0.55-3.79)
<u>Pathological diagnosis (Reference = Anaplastic Astrocytoma)</u>			
Anaplastic Oligodendroglioma			
Glioma	0.71	0.139	(0.45-1.12)
	1.40	0.497	(0.53-3.69)
<u>IDH (Reference = IDH-1)</u>			
IDH-WT	1.38	0.026	(1.04-1.82)
<u>Treatment group (Reference = No RT)</u>			
Chemotherapy+RT followed by adjuvant chemotherapy	0.96	0.652	(0.79-1.16)
RT alone followed by adjuvant chemotherapy	0.72	0.091	(0.50-1.05)
Chemotherapy+RT alone	1.22	0.554	(0.63-2.38)
RT alone	1.27	0.254	(0.84-1.92)
<u>MGMT (Reference = Positive)</u>			
Negative	0.64	0.049	(0.42-1.00)

^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