

Supplementary material (Online Resource 4)

Manuscript title: Mid-term treatment-related cognitive sequelae in glioma patients

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**Table ESM-4** Neurocognitive change within and between histopathological groups. T-test statistics for mean extent of cognitive improvement (i.e. mean difference [ $M_{diff}$ , in percentile ranks]) between baseline and follow-up neuropsychological assessment, separated for patients with oligodendroglioma and astrocytoma. Asterisks indicate statistically significant cognitive improvement. ANOVA (with F-statistics) for differences in cognitive change between histopathological groups. CI confidence interval, df degree of freedom. \*  $p < .05$ , \*\*  $p < .01$

	Oligodendroglioma (n = 18)				Astrocytoma (n = 28)				ANOVA		
	$M_{diff}$ (95% CI)	t-value	df	p-value	$M_{diff}$ (95% CI)	t-value	df	p-value	F-value	df	p-value
Short-term memory	10.7 (-3.1-24.5)	1.63	17	.121	9.8 (-0.3-19.8)	2.0	27	.056	0.01	1,45	.910
Working memory	20.4 (-1.4-42.3)	1.98	17	.065	2.7 (-13.4-18.8)	0.35	27	.732	1.91	1,45	.174
Simple reaction time	18.8 (1.9-35.6)	2.35	17	.031*	4.4 (-7.0-15.7)	0.79	27	.438	2.35	1,45	.133
Selective attention	22.8 (5.7-39.9)	2.81	17	.012*	17.7 (5.9-29.6)	3.07	26	.005**	0.27	1,44	.606
Inhibition	26.7 (12.6-40.7)	4.01	17	.001**	6.4 (-6.2-19.0)	1.05	26	.304	4.79	1,44	.034*
Verbal memory	14.7 (2.8-26.5)	2.60	17	.019*	13.9 (2.2-25.6)	2.46	25	.021*	0.01	1,43	.929
Figural memory	13.8 (-1.6-29.2)	1.92	14	.075	12.8 (0.4-25.2)	2.12	25	.044*	0.01	1,40	.915
Fluency	7.2 (-10.1-24.4)	0.88	17	.393	8.9 (-1.9-19.6)	1.69	27	.104	0.03	1,45	.856