

Supplementary material (Online Resource 2)

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

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**Table ESM-2** Neurocognitive change within and between treatment groups. T-test statistics for mean extent of cognitive improvement (i.e. mean difference [in percentile ranks] between baseline [T1] and follow-up [T2] neuropsychological assessment), separated for patients with radiotherapy (RT), chemotherapy (ChT), combined radio-chemotherapy (RChT) and patients followed by watch-and-wait strategy. Asterisks indicate statistically significant cognitive improvement. ANOVA (with F-statistics) for differences in cognitive change between treatment groups. CI confidence interval, df degree of freedom. \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$

	RT (n = 10)			ChT (n = 21)			RChT (n = 24)			Watch-and-wait (n = 31)			ANOVA		
	Mean improvement between T1 and T2 (95% CI) [in percentile ranks]	t-value (df)	p-value	Mean improvement between T1 and T2 (95% CI) [in percentile ranks]	t-value (df)	p-value	Mean improvement between T1 and T2 (95% CI) [in percentile ranks]	t-value (df)	p-value	Mean improvement between T1 and T2 (95% CI) [in percentile ranks]	t-value (df)	p-value	F-value	df	p-value
Short-term memory	0.4 (-26.9-27.7)	0.03 (9)	.974	18.1 (4.9-31.3)	2.87 (20)	.010*	4.9 (-5.6-15.4)	0.97 (23)	.344	13.3 (2.6-24.0)	2.54 (30)	.017*	1.26	3,82	.293
Working memory	7.3 (-18.7-33.3)	0.65 (8)	.534	26.7 (4.8-48.5)	2.55 (20)	.019*	18.5 (2.6-34.4)	2.41 (23)	.025*	16.0 (-2.9-35.0)	1.73 (30)	.094	0.44	3,81	.727
Simple reaction time	18.5 (-1.9-38.9)	2.05 (9)	.07	6.76 (-6.6-20.2)	1.05 (20)	.305	20.6 (8.9-32.4)	3.64 (22)	.001**	9.4 (-3.1-22.0)	1.53 (30)	.136	1.01	3,81	.392
Selective attention	31.6 (-3.8-67.0)	2.11 (7)	.072	24.3 (10.3-38.4)	3.61 (20)	.002**	24.6 (10.2-38.9)	3.54 (22)	.002**	15.9 (5.9-25.8)	3.26 (30)	.003**	0.73	3,79	.535
Inhibition	34.3 (11.8-56.7)	3.61 (7)	.009**	20.0 (8.0-32.0)	3.47 (20)	.002**	15.1 (0.2-30.0)	2.10 (23)	.047*	11.9 (-1.3-25.0)	1.85 (30)	.075	1.07	3,80	.365
Verbal memory	3.1 (-12.5-18.7)	0.45 (9)	.663	11.5 (-1.5-24.4)	1.85 (20)	.080	7.4 (-0.7-15.5)	1.91 (21)	.071	17.0 (6.8-27.1)	3.41 (30)	.002**	1.06	3,80	.373
Figural memory	15.3 (-15.0-45.6)	1.14 (9)	.283	26.7 (15.0-38.4)	4.79 (19)	<.001***	5.4 (-5.1-15.9)	1.06 (23)	.302	17.8 (8.9-26.7)	4.12 (23)	<.001***	2.39	3,74	.076
Fluency	31.4 (11.3-51.4)	3.70 (7)	.008**	7.1 (-6.8-21.0)	1.07 (20)	.300	14.4 (-0.4-29.1)	2.02 (23)	.055	12.6 (0.8-24.5)	2.17 (30)	.038*	1.13	3,80	.344