

**ONLINE ONLY**

## **Supplemental material**

**Comparison of neurocognitive and quality-of-life outcomes in pediatric craniopharyngioma patients treated with partial resection and radiotherapy versus gross-total resection only**

Aldave et al.

<https://thejns.org/doi/abs/10.3171/2022.12.PEDS22367>

**DISCLAIMER** The *Journal of Neurosurgery* acknowledges that the following section is published verbatim as submitted by the authors and did not go through either the *Journal's* peer-review or editing process.

Supplementary Table 1. *Linear Mixed Models of Neurocognitive Change over Time by Treatment**Group and Index Score*

<b>VCI Change</b>	<b>Beta</b>	<b>95% CI</b>	<b>p</b>
Slope: GTR	0.45	-1.01 – 1.90	.528
Slope: PR+RT	-0.33	-1.82 – 1.17	.654
Slope Difference: GTR vs PR+RT	0.77	-1.31 – 2.86	.448
<b>PRI Change</b>			
Slope: GTR	-0.80	-3.60 – 1.94	.516
Slope: PR+RT	-0.64	-3.49 – 2.21	.634
Slope Difference: GTR vs PR+RT	-0.20	-4.18 – 3.78	.914
<b>WMI Change</b>			
Slope: GTR	-0.14	-2.54 – 2.26	.905
Slope: PR+RT	0.48	-1.87 – 2.83	.680
Slope Difference: GTR vs PR+RT	-0.62	-3.97 – 2.73	.706
<b>PSI Change</b>			
Slope: GTR	0.29	-1.80 – 2.38	.766
Slope: PR+RT	-0.94	-3.34 – 1.46	.426
Slope Difference: GTR vs PR+RT	1.23	-1.94 – 4.41	.423
<b>FSIQ Change</b>			
Slope: GTR	-0.12	-2.17 – 1.93	.901
Slope: PR+RT	-0.50	-2.50 – 1.49	.604
Slope Difference: GTR vs PR+RT	-0.40	-2.48 – 3.24	.783

*Note.* Models were adjusted for clinical covariates significant on univariate comparisons: treated hydrocephalus. Beta reported for each slope represents the increase/decrease in points per year on each index by treatment group. Slope difference compares slopes (i.e., change in scores over time)

between treatment groups on each index. FSIQ = Full Scale IQ; VCI = Verbal Comprehension Index; PRI = Perceptual Reasoning Index; WMI = Working Memory Index; PSI = Processing Speed Index.

Supplementary Table 2. *Linear Mixed Models of Quality of Life Change over Time by Treatment*

*Group and PedsQL Composite Score*

<b>PedsQL Physical</b>	<b>Child Report</b>			<b>Parent Report</b>		
	<b>Beta</b>	<b>95% CI</b>	<b>p</b>	<b>Beta</b>	<b>95% CI</b>	<b>p</b>
Slope: GTR	2.32	-1.12 – 5.76	.151	-.26	-4.86 – 4.34	.899
Slope: PR+RT	-2.05	-5.6 – 1.49	.244	1.59	-3.47 – 6.65	.502
Slope Difference: GTR vs PR+RT	4.37		.350	1.85		.557
<b>PedsQL Emotional</b>						
Slope: GTR	0.79	-4.10 – 5.68	.706	0.15	-4.15 – 4.44	.943
Slope: PR+RT	-2.13	-7.33 – 3.08	.373	-0.63	-5.36 – 4.09	.779
Slope Difference: GTR vs PR+RT	2.84		.365	0.78		.797
<b>PedsQL Social</b>						
Slope: GTR	0.84	-3.72 – 5.41	.638	-3.00	-7.65 – 1.65	.187
Slope: PR+RT	0.01	-4.49 – 4.50	.998	-2.09	-7.46 – 3.28	.417
Slope Difference: GTR vs PR+RT	0.83		.764	0.91		.786
<b>PedsQL School</b>						
Slope: GTR	-0.99	5.62 – 3.65	.638	-1.46	5.62 – 2.69	.465
Slope: PR+RT	-2.39	-7.28 – 2.50	.313	0.25	-4.6 – 5.1	.915
Slope Difference: GTR vs PR+RT	1.40		.655	1.71		.579
<b>PedsQL Total</b>						
Slope: GTR	-0.30	-4.11 – 3.5	.866	-1.80	-5.76 – 2.17	.347
Slope: PR+RT	-2.24	-6.48 – 2.01	.277	0.71	-3.70 – 5.12	.737
Slope Difference: GTR vs PR+RT	1.96		.479	2.51		.381

Note. Models were adjusted for clinical covariates significant on univariate comparisons: treated hydrocephalus. Beta reported for each slope represents the increase/decrease in points per year on

each PedsQL Composite Score by treatment group. Slope difference compares slopes (i.e., change in scores over time) between treatment groups on each score.