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## **Supplemental material**

**Extradural decompression versus duraplasty in Chiari malformation type I with syrinx: outcomes on scoliosis from the Park-Reeves Syringomyelia Research Consortium**

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Supplementary Table 1: Univariate analysis of patient characteristics on spinal fusion (n=397)

		Fusion (n=86)	No Fusion (n=311)	p-value	OR (Fusion)	95% CI
Age at CM1 Surgery, yrs	(n=397)	12.14	10.22	<0.001***	1.02	1.011-1.031
Female Sex	(n=397)	58 (67%)	193 (62%)	0.361	1.04	0.956-1.131
Syrinx Length, no. of levels	(n=352)	10.04	10.73	0.213	0.99	0.983-1.004
Syrinx Width, mm	(n=356)	8.20	8.84	0.155	0.99	0.979-1.003
Holocord Syrx	(n=392)	44 (52%)	145 (47%)	0.503	1.03	0.950-1.109
Tonsil Position, mm	(n=397)	12.09	12.61	0.431	1.00	0.990-1.004
Preoperative Curve, °	(n=278)	38.46	25.77	<0.001***	1.01	1.006-1.012
PFD with Duraplasty	(n=397)	74 (86%)	272 (87%)	.730	0.98	0.867-1.105

Supplementary Table 2: Covariate analysis of patient characteristic on spinal fusion (n=272)

	p-value	OR (Fusion)	95% CI
Age at CM1 Surgery, yrs	0.020*	1.02	1.003-1.030
Female Sex	0.051	1.10	1.000-1.218
Syrinx Length, no. of levels	0.933	1.00	0.986-1.015
Syrinx Width, mm	0.092	0.99	0.969-1.002
Holocord Syrx	0.130	1.09	0.976-1.214
Tonsil Position, mm	0.912	1.00	0.990-1.009
Preoperative Curve, °	<0.001***	1.01	1.005-1.011
PFD with Duraplasty	0.895	0.99	0.856-1.146

Supplementary Table 3: Univariate analysis of patient characteristics on curve progression (n=112)

		Curve Progression (n=23)	No Curve Progression (n=89)	p-value	OR (Curve Progression)	95% CI
Age at CM1 Surgery, yrs	(n=112)	12.15	10.10	0.022*	1.02	1.004-1.043
Female Sex	(n=112)	14 (61%)	52 (58%)	0.834	1.02	0.872-1.185
Syrinx Length, no. of levels	(n=108)	11.00	10.95	0.961	1.00	0.981-1.020
Syrinx Width, mm	(n=109)	8.78	8.76	0.975	1.00	0.979-1.022
Holocord Syrx	(n=112)	14 (61%)	40 (45%)	0.176	1.11	0.955-1.289
Tonsil Position, mm	(n=112)	11.39	11.78	0.737	1.00	0.982-1.013
Preoperative Curve, °	(n=112)	30.76	28.26	0.522	1.00	0.997-1.006
PFD with Duraplasty	(n=112)	18 (78%)	81 (91%)	0.090	0.82	0.647-1.030

Supplementary Table 4: Covariate analysis of patient characteristics on curve progression (n=108)

	p-value	OR (Curve Progression)	95% CI
Age at CM1 Surgery, yrs	<b>0.033*</b>	1.02	1.002-1.047
Female Sex	0.772	0.98	0.831-1.147
Syrinx Length, no. of levels	0.913	1.00	0.977-1.026
Syrinx Width, mm	0.793	1.00	0.977-1.032
Holocord Syrinx	0.288	1.10	0.923-1.314
Tonsil Position, mm	0.637	1.00	0.979-1.013
Preoperative Curve, °	0.970	1.00	0.995-1.005
PFD with Duraplasty	<b>0.021*</b>	0.73	0.562-0.949

Supplementary Table 5: Univariate analysis of bracing

		Fusion (n=86)	No Fusion (n=311)	p-value	OR (Fusion)	95% CI
Bracing	(n=90)	16 (48%)	45 (79%)	<b>0.003**</b>	0.72	0.590-0.887

  

		Curve Progression (n=23)	No Curve Progression (n=89)	p-value	OR (Curve Progression)	95% CI
Bracing	(n=34)	8 (73%)	11 (48%)	0.182	1.25	0.908-1.713