Supplemental Online Content

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eTable 1. Causal Survival Analysis for Nighttime Bracing Compared With Self-Mediated Physical Activity

	Nighttime brace	Physical activity	Pooled logistic regression	
Intention-to Treat analysis[1] N=90	Probability of 3-year survival* = 0.73	Probability of 3-year survival* = 0.48	Log Odds (95% CI) SE HR (95%) p-value	-1.75 (-2.7 to -0.8) 0.47 0.17 (0.07 to 0.43) <0.001
Intention-to Treat CACE weighted analysis[2] N=90	Probability of 3-year survival* = 0.74	Probability of 3-year survival* = 0.47	Log Odds (95% CI) SE HR (95% CI) p-value	-1.81 (-3.0 to -0.7) 0.60 0.16 (0.05 to 0.52) 0.002
Per-Protocol (complete cases) CACE weighted analysis[2] N=80	Probability of 3-year survival* = 0.77	Probability of 3-year survival* = 0.44	Log Odds (95% CI) SE HR (95% CI) p-value	-1.99 (-3.2 to -0.8) 0.59 0.14 (0.04 to 0.44) <0.001

* Survival was defined as skeletal maturity with 6 degrees or less of curve progression.

1 Adjusted for baseline covariates (Age, Risser, Cobb major curve, Sex).

2 Adjusted for baseline covariates (Age, Risser, Cobb major curve, Sex) and inverse probability weighted for post-randomization time-varying covariates (health care professional reported patient treatment adherence, patient reported treatment adherence, patient reported motivation to carry out treatment, patient reported capability to perform treatment).

SE = Standard error, HR= Hazard ratio, CACE= Complier Average Causal Effects, p<0.05 indicates statistical significance.

eTable 2. Causal Survival Analysis for Scoliosis-Specific Exercise Compared With Self-Mediated Physical Activity

	Scoliosis-specific exercise	Physical activity	Pooled logistic regression	
Intention-to Treat analysis[1] N=90	Probability of 3-year survival* = 0.45	Probability of 3-year survival* = 0.49	Log Odds (95% CI) SE HR (95%) p-value	-0.10 (-0.9 to 0.7) 0.39 0.91 (0.43 to 1.93) 0.80
Intention-to Treat CACE weighted analysis[1] N=90	Probability of 3-year survival* = 0.54	Probability of 3-year survival* = 0.49	Log Odds (95% CI) SE HR (95% CI) p-value	-0.55 (-1.6 to 0.5) 0.53 0.58 (0.20 to 1.63) 0.30
Per-Protocol (complete cases) CACE weighted analysis[1] N=80	Probability of 3-year survival* = 0.52	Probability of 3-year survival* = 0.47	Log Odds (95% CI) SE HR (95% CI) p-value	-0.56 (-1.6 to 0.5) 0.52 0.57 (0.21 to 1.58) 0.28

* Survival was defined as skeletal maturity with 6 degrees or less of curve progression.

[1] Adjusted for baseline covariates (Age, Risser, Cobb major curve, Sex).

[2] Adjusted for baseline covariates (Age, Risser, Cobb major curve, Sex) and inverse probability weighted for post-randomization time-varying covariates (health care professional reported patient treatment adherence, patient reported treatment adherence, patient reported motivation to carry out treatment, patient reported capability to perform treatment).

SE = Standard error, HR= Hazard ratio, CACE= Complier Average Causal Effects, p<0.05 indicates statistical significance.