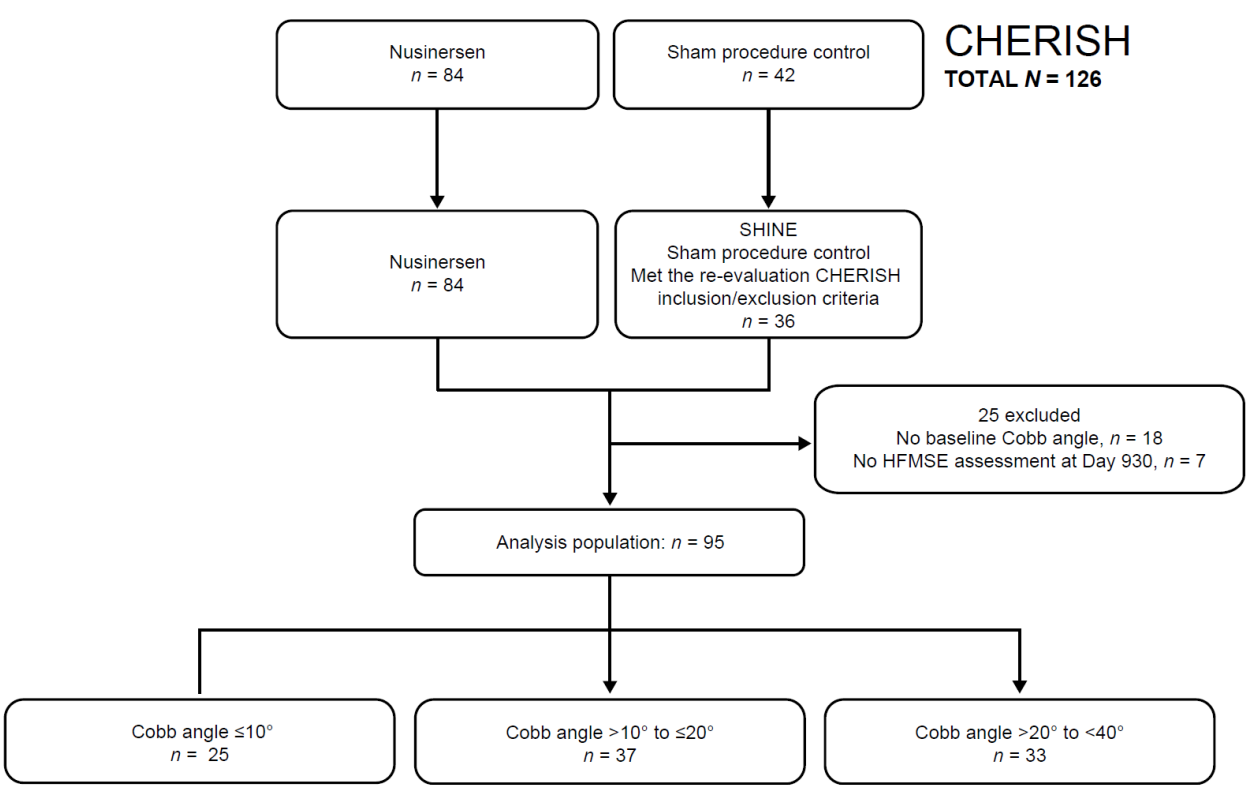


## **SUPPLEMENTARY MATERIALS**

### **Nusinersen Treatment of Children with Later-Onset Spinal Muscular Atrophy and Scoliosis Is Associated with Improvements or Stabilization of Motor Function**

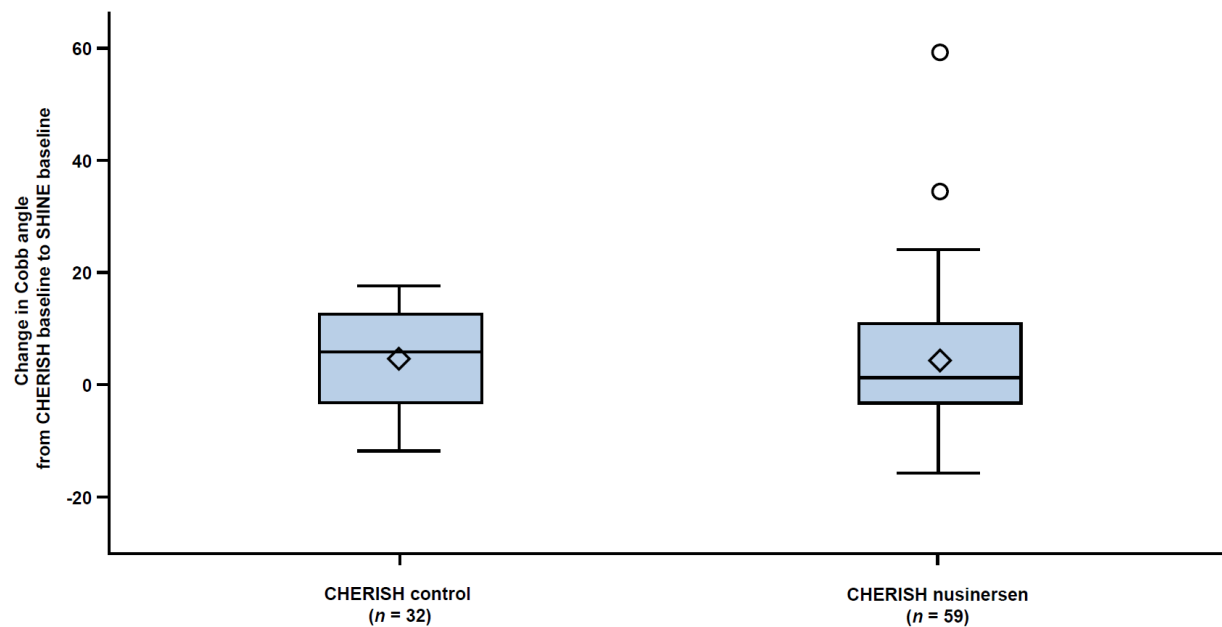
Sally Dunaway Young | Jacqueline Montes | Allan M. Glanzman | Richard Gee | John  
W. Day | Richard S. Finkel | Basil T. Darras | Darryl C. De Vivo | Giulia Gambino |  
Richard Foster | Janice Wong | Steve Garafalo | Zdenek Berger on behalf of the  
SHINE Study Group

Supplementary Figure S1. Participant flow.



Participants previously on sham control were re-evaluated with CHERISH inclusion/exclusion criteria at SHINE baseline.

**Supplementary Figure S2.** Boxplot of change from CHERISH baseline to SHINE baseline in Cobb angle by CHERISH treatment groups.



Outliers (o) are values outside 1.5 times the interquartile range above the 75th or below the 25th percentile range. Data are in participants with Cobb angle assessments at the baselines of both CHERISH and SHINE.

**Supplementary Table S1.** Characteristics of participants who underwent scoliosis surgery during the analysis period.

Participant	SMN2 copy number	Baseline <sup>a</sup>			Surgery		HFMSE		RULM		Cobb angle	
		Age, years	HFMSE	RULM	Day	Procedure/ reason	Before surgery (visit day)	After surgery (visit day)	Before surgery (visit day)	After surgery (visit day)	Before surgery (visit day)	After surgery (visit day)
1	3	8.6	22	23	657	Spinal fusion surgery/worsening of scoliosis	20 (455)	21 (734)	21 (455)	18 (734)	44.5° (463)	0.9 (916)
2	3	6.4	13	16	715	Scoliosis surgery/ progression of scoliosis	13 (449)	8 (750)	15 (449)	16 (750)	22.8° (−18 <sup>b</sup> )	44.4° (926)
3	3	5.2	17	23	871	Spinal rod insertion/scoliosis	15.5 (690)	6 (930)	19 (690)	17 (930)	67.8° (736)	58.1° (1094)
4	3	5.5	21	22	835	Spinal Rod Insertion/Worsening of scoliosis	14 (687)	10 (930)	22 (687)	19 (930)	69.5° (813)	NA

HFMSE, Hammersmith Functional Motor Scale – Expanded; NA, not available; RULM, Revised Upper Limb Module; SMN2, survival motor neuron 2.

<sup>a</sup>Last non-missing assessment prior to the first dose of nusinersen.

<sup>b</sup>Before first nusinersen dose.

<sup>c</sup>Windowed to Day 930