

Supplementary Online Content

Gaiani A, Martinelli I, Bello L, et al. Diagnostic and prognostic biomarkers in amyotrophic lateral sclerosis: neurofilament light chain levels in definite subtypes of disease. *JAMA Neurol*. Published online March 6, 2017. doi:10.1001/jamaneurol.2016.5398

eFigure 1. Natural Logarithm Transformation of CSF NFL Concentration With Subsequent Normal Distribution of Data

eFigure 2. ROC Curves of NFL Concentrations for Discrimination Between ALS and Controls/FTD/MN, Between ALS and Controls, and Between ALS and MN/FTD

eFigure 3. Effect of Time From Onset to Lumbar Puncture on the Concentration of NFL in the ALS Group

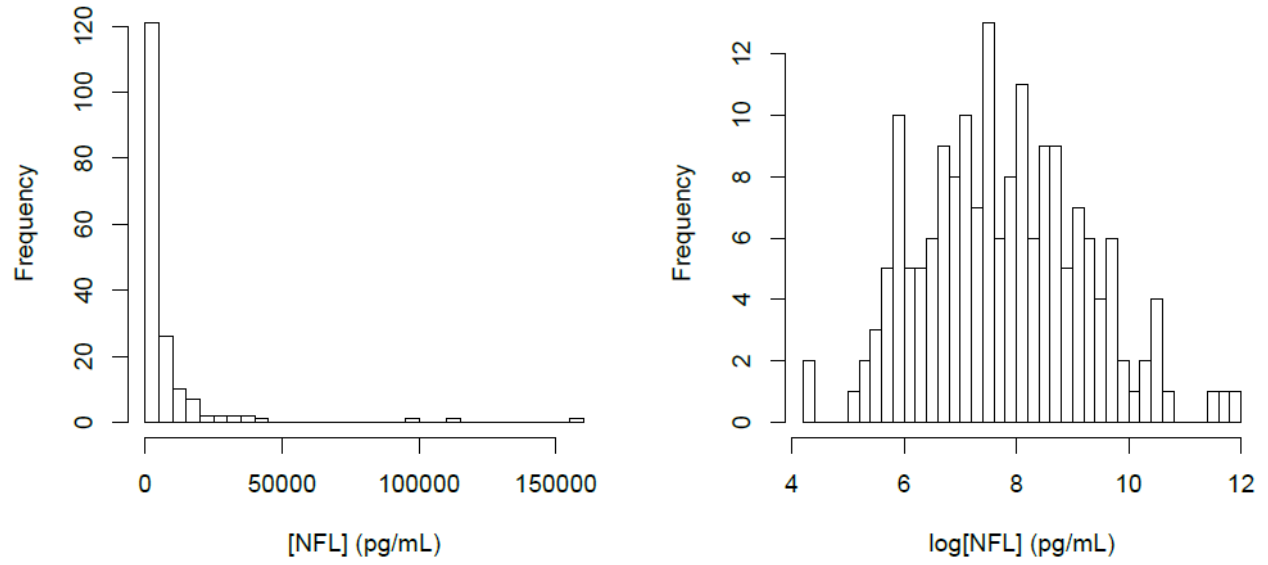
eFigure 4. Effect of Disease Progression Rate From Onset to Lumbar Puncture (Δ FS) on NFL Concentration in the ALS Group

eFigure 5. ALSFRS-R (A-B-C-D) and MITOS (E-F-G-H) Change Relative to Time (Months From Lumbar Puncture) by Subtypes

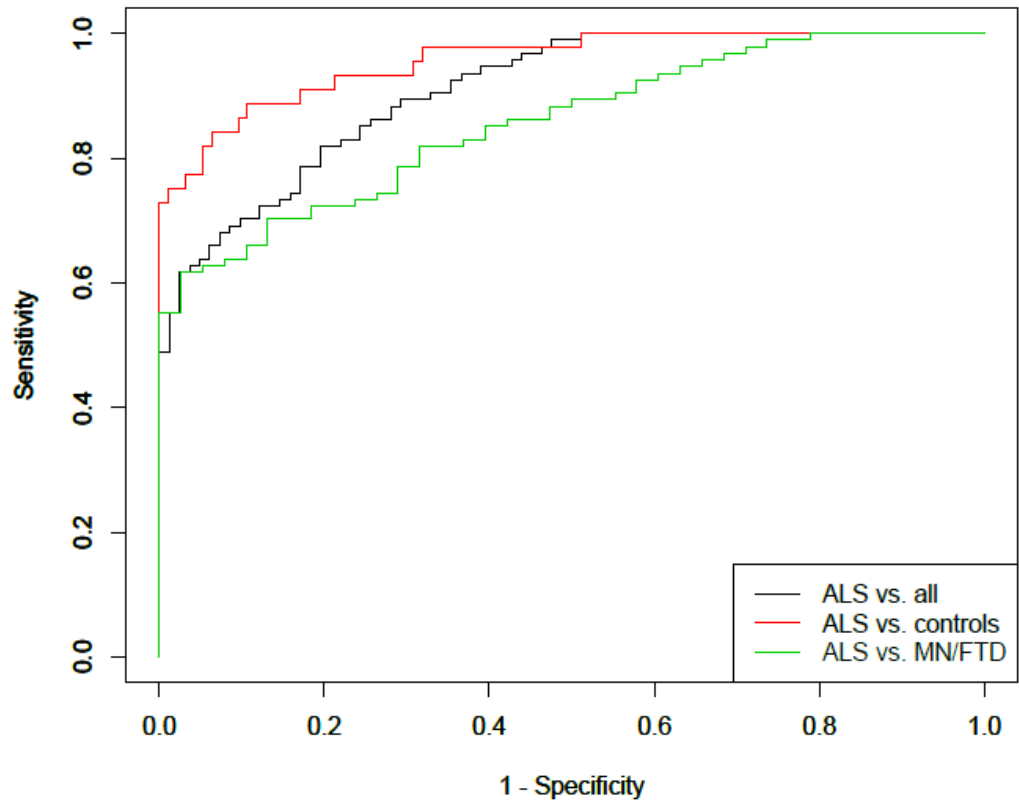
eTable. Characteristics of the ALS Group

This supplementary material has been provided by the authors to give readers additional information about their work.

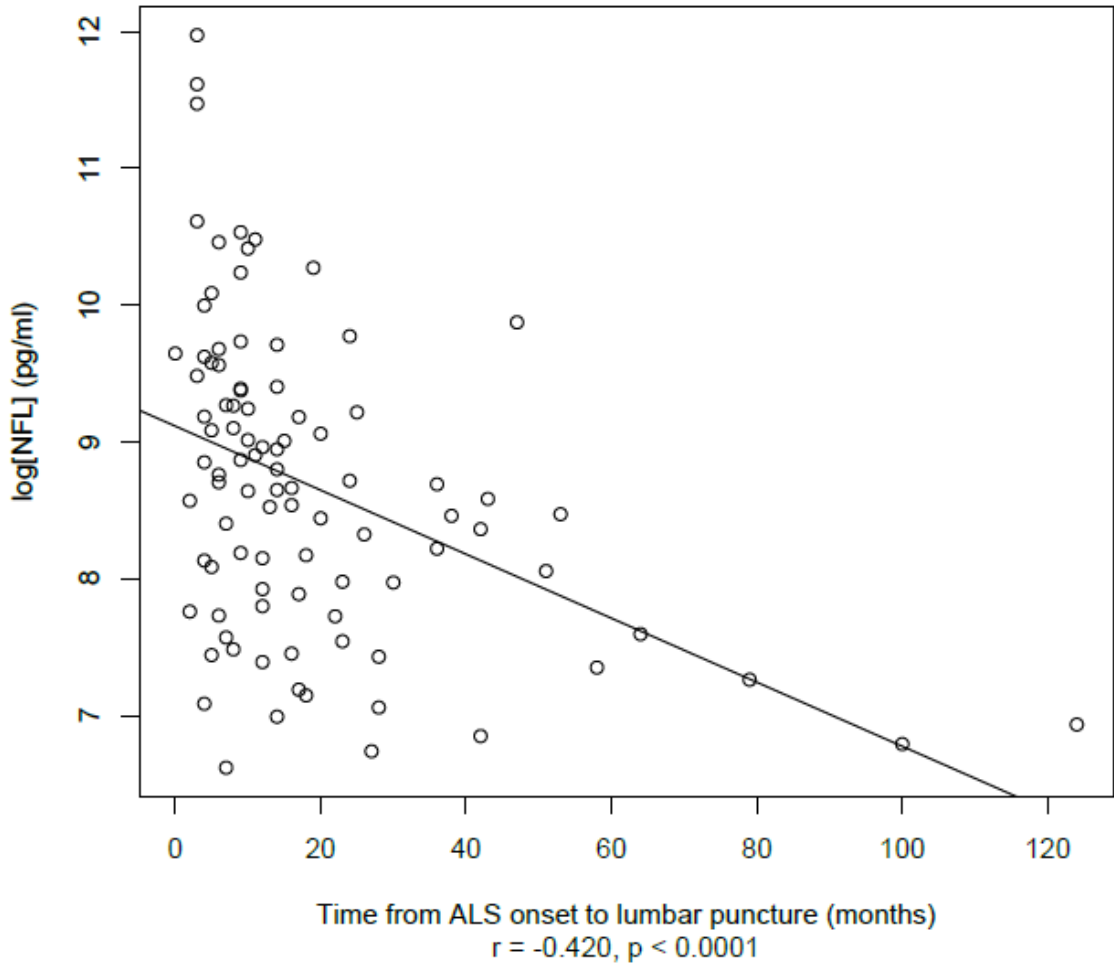
eFigure 1. Natural Logarithm Transformation of CSF NFL Concentration With Subsequent Normal Distribution of Data



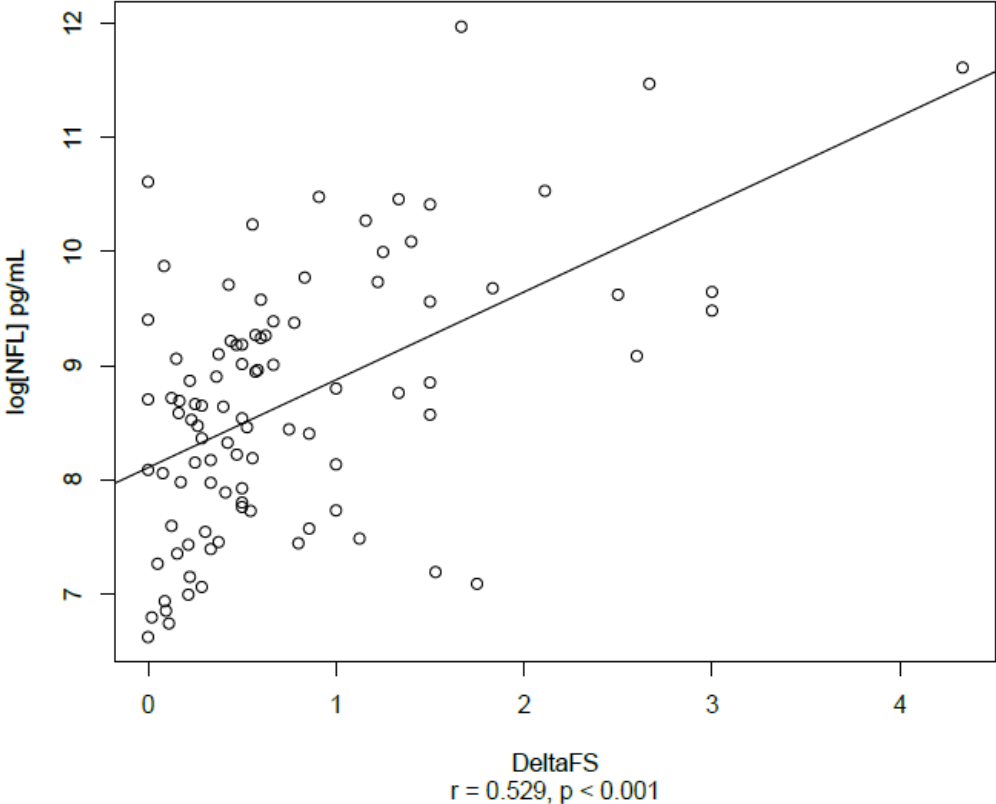
eFigure 2. ROC Curves of NFL Concentrations for Discrimination Between ALS and Controls/FTD/MN, Between ALS and Controls, and Between ALS and MN/FTD



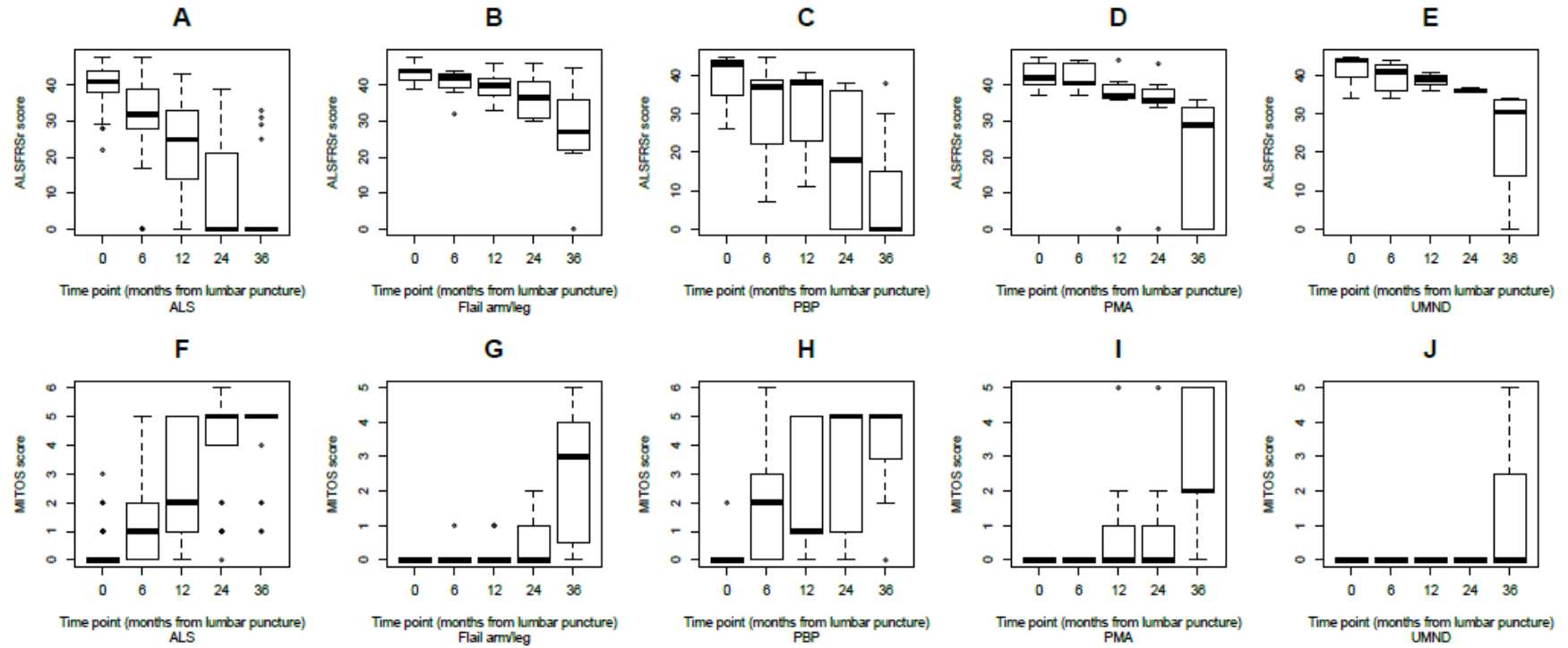
eFigure 3. Effect of Time From Onset to Lumbar Puncture on the Concentration of NFL in the ALS Group



eFigure 4. Effect of Disease Progression Rate From Onset to Lumbar Puncture (Δ FS) on NFL Concentration in the ALS Group



eFigure 5. ALSFRS-R (A-B-C-D) and MITOS (E-F-G-H) Change Relative to Time (Months From Lumbar Puncture) by Subtypes



eTable. Characteristics of the ALS Group

Subtype of ALS	Typical ALS	57
	Flail Arm/Leg	11
	PMA	10
	PBP	9
	UMND	7
Gender	female	30
	male	64
CI*	yes	13
	no	81
Genetic ALS**	yes	8
	no	82
	NA	4
Age at onset	-	62 (52-68)
Disease duration at T0	-	12 (6-22.8)
ALSFRS-r	Δ FS***	0.5 (0.2-1)
	baseline (CSF)	42 (39-44)
	6 months	37 (28-42)
	12 months	33 (23-39)
	24 months	23 (0-36)
	36 months	0 (0-28)
MITOS	baseline (CSF)	0 (0-0)
	6 months	0 (0-2)
	12 months	1 (0-3)
	24 months	3 (0-5)
	36 months	5 (2-5)

Median and interquartile range are shown for quantitative variables.