

**Table S1** Electrophysiological data of CIDP and axonal PNPs

Location	CIDP (n=20)			Axonal PNPs (n=10)		
	NCV↓	Amplitude↓	F-wave latency↑	NCV↓	Amplitude↓	F-wave latency↑
TN	14/20	5/20	8/12	2/9	3/9	0/9
CPN	13/20	7/20	7/10	1/8	5/8	0/8
SPN	4/20	3/20	NA	0/8	5/8	NA
SN	1/20	2/20	NA	0/6	3/6	NA

↓ and ↑ represent the decrease and increase in value, respectively. CIDP, chronic inflammatory demyelinating polyneuropathy; PNP, polyneuropathy; TN, tibial nerve; CPN, common peroneal nerve; SPN, superficial peroneal nerve; SN, sural nerve; NA, not available.

**Table S2** Diagnostic performance of MRN in identifying CIDP and differentiating it from healthy controls

Parameter	CIDP vs. healthy controls				CIDP vs. axonal PNPs			
	AUC (95% CI)	Cutoff value	Sensitivity%	Specificity%	AUC (95% CI)	Cutoff value	Sensitivity%	Specificity%
CSA (mm <sup>2</sup> )	0.858 (0.711, 0.948)	28.15	75%	95%	0.880 (0.709, 0.969)	29.46	75%	100%
FA	0.904 (0.768, 0.974)	0.278	85%	90%				
ADC (×10 <sup>-3</sup> mm <sup>2</sup> /s)	0.791 (0.634, 0.903)	1.527	65%	90%	0.815 (0.631, 0.932)	1.576	65%	90%
CSA + FA	0.933 (0.806, 0.987)							
CSA + ADC	0.880 (0.738, 0.961)				0.885 (0.716, 0.972)			

MRN, magnetic resonance neurography; CIDP, chronic inflammatory demyelinating polyneuropathy; PNP, polyneuropathy; CSA, cross-sectional area; FA, fractional anisotropy; ADC, apparent diffusion coefficient.