

Supplementary Table S1. Uncertainty components of input quantities for each measurand of the median motor nerve

Measurand	Standard uncertainty component	Source of uncertainty	Coefficient for unit conversion	
M_{Lons}	$u(X_{Lons,s})$	Difference of onset latency between subjects including repeated observation on a subject	Random effect	
	$u(X_{Lons,r})$	Resolution of NCS instrument	Systematic effect	
	$u(X_{Lons,t})$	Measurement of skin temperature	Systematic effect	$0.20ms/^\circ C^5$
	$u(X_{Lons,l})$	Measurement of distance for attachment of electrodes and selection of stimulation sites	Systematic effect	$0.02ms/mm^1$
	$u(X_{Lons,p})$	Selection of point on waveform of active potential by practitioner	Systematic effect	
	$u(X_{Lons,cal})$	Calibration of NCS instrument with standard electric pulse generator	Systematic effect	
M_{Abtp}	$u(X_{Abtp,s})$	Difference of amplitude between subjects including repeated observation on a subject	Random effect	
	$u(X_{Abtp,r})$	Resolution of the NCS instrument	Systematic effect	
	$u(X_{Abtp,p})$	Selection of point on waveform of active potential by practitioner	Systematic effect	
	$u(X_{Abtp,cal})$	Calibration of NCS instrument with standard electric pulse generator	Systematic effect	
M_{Aptp}	$u(X_{Aptp,s})$	Difference of amplitude between subjects including repeated observation on a subject	Random effect	
	$u(X_{Aptp,r})$	Resolution of the NCS instrument	Systematic effect	
	$u(X_{Aptp,p})$	Selection of point on waveform of active potential by practitioner	Systematic effect	
	$u(X_{phtp,cal})$	Calibration of the NCS instrument with standard electric pulse generator	Systematic effect	
M_{Aneg}	$u(X_{Aneg,s})$	Difference of area between subjects including repeated observation on a subject	Random effect	
	$u(X_{Aneg,r})$	Resolution of the NCS instrument	Systematic effect	
M_{Dneg}	$u(X_{Dneg,s})$	Difference of duration between subjects including repeated observation on a subject	Random effect	
	$u(X_{Dneg,r})$	Resolution of the NCS instrument	Systematic effect	
M_{CV}	$u(V_s)$	Difference of area between subjects including repeated observation on a subject	Random effect	
	$u(L_{res})$	Resolution of the tape measure	Systematic effect	
	$u(L_{cal})$	Calibration of the tape measure	Systematic effect	
	$u(M_{Lons,p})$	Measurement of proximal onset latency	Systematic effect	
	$u(M_{Lons,d})$	Measurement of distal onset latency	Systematic effect	

NCS, nerve conduction study.