

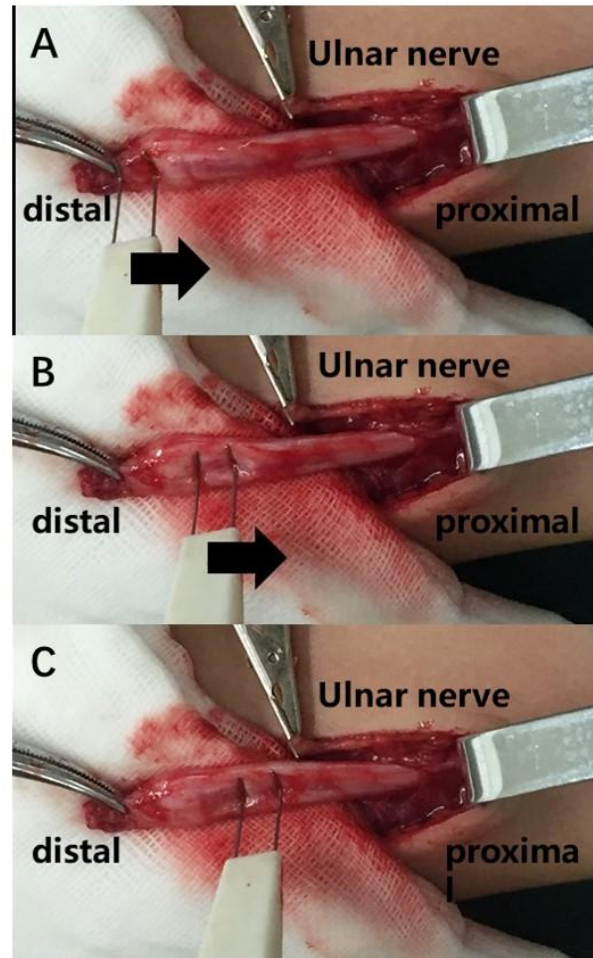
Supplementary Tables and Figures

Supplementary Table 1: Characteristics of the two cases

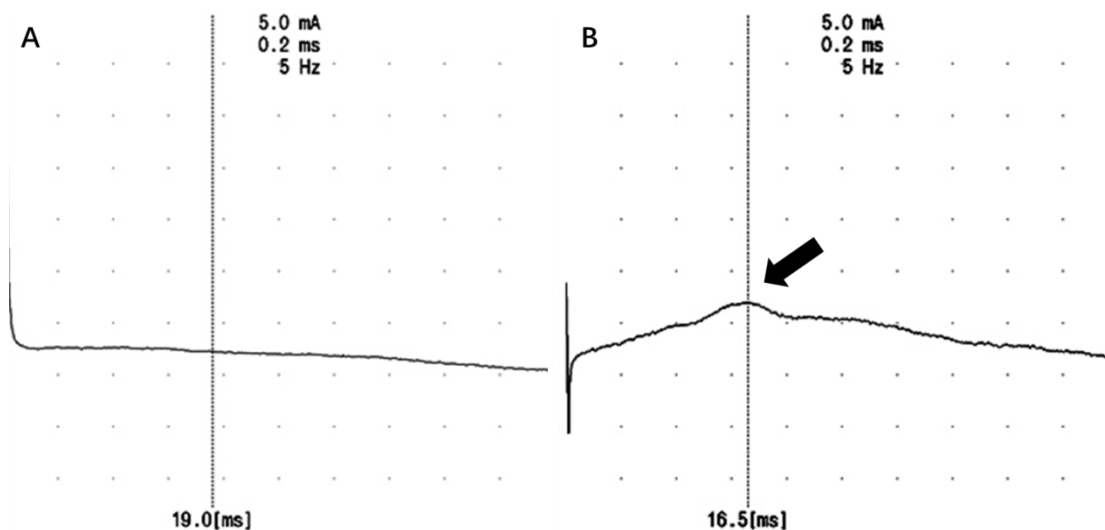
Case	Gender	Age (years)	Cause of amputation	Level of amputation	Duration from injury to TMR	ARAT score Before surgery	ARAT score 1 year after surgery
1	Male	49	Injured by machine	trans-humeral	6 months	2	22
2	Male	23	Injured by machine	trans-humeral	6 months	2	29

Supplementary Table 2: Intraoperative CMAP test of the axillary nerve branches

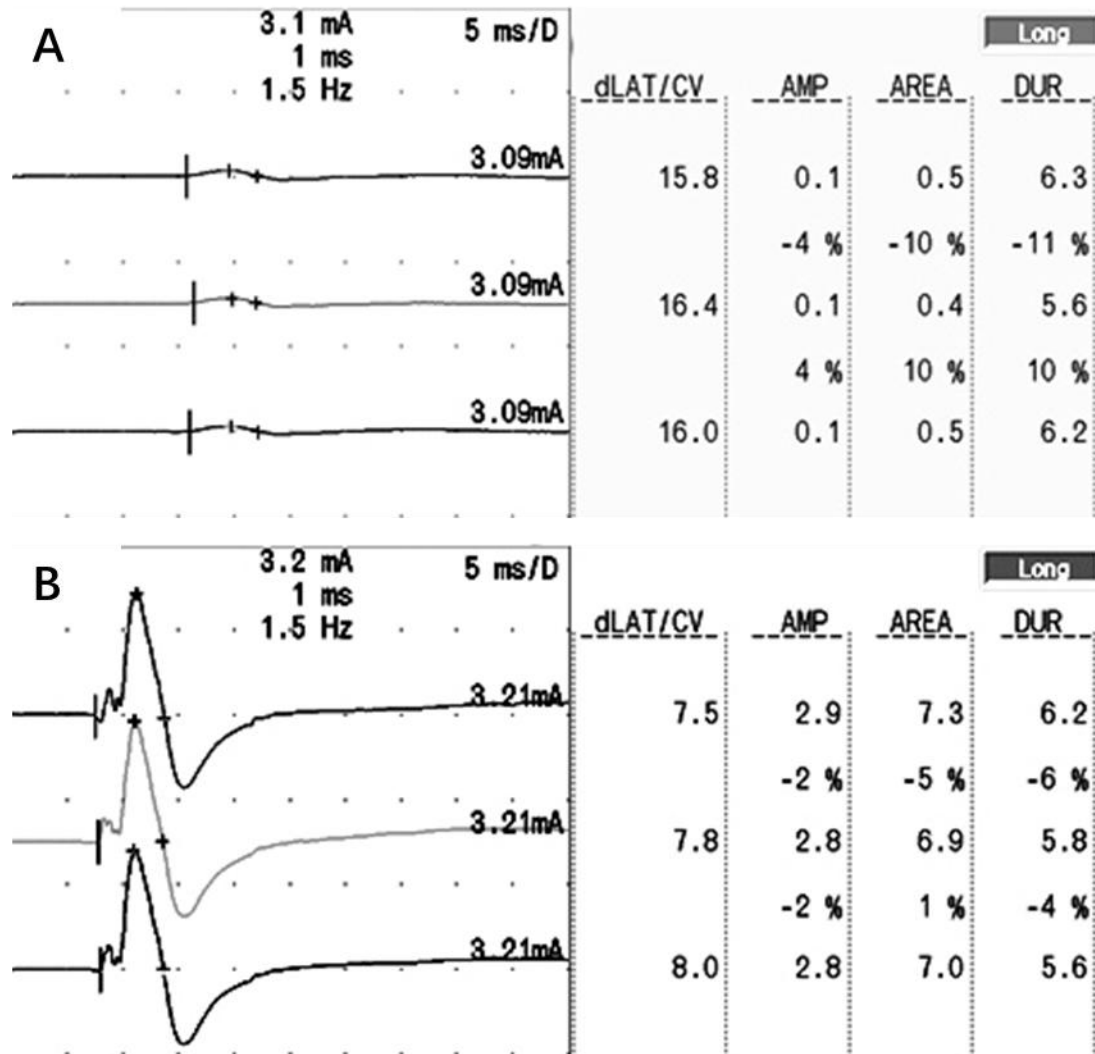
Stimulate the point	Axillary nerve	Anterior branch	Posterior branch	Anterior branch	Posterior branch	Anterior branch	Posterior branch
detecting point	Deltoid muscle	Anterior part		Middle part		Posterior part	
CMAP amplitude (mV)	Case 1	3.47	0.20	3.10	0.30	0.10	2.83
	Case 2	4.80	0.37	4.20	0.53	0.17	4.90



Supplementary Figure 1: Moving the bipolar probe along the direction (black arrow) from distal to proximal during the intraoperative electromyography of the ulnar nerve.



Supplementary Figure 2: Intraoperative SEP test of different points of the ulnar nerve. A: Distal part without SEP; B: Proximal part with SEP (black arrow).



Supplementary Figure 3: Intraoperative CMAP of branches of axillary nerve, performed three time for average. A: CMAP amplitude of posterior part of deltoid was very small when stimulating anterior branch; B: CMAP amplitude of posterior part of deltoid was good when stimulating posterior branch.