S1 Figure. An example of nEMG waveform data shown on EMG Labeler



A web-based labeling platform named ‘EMG Labeler’ for reproducing nEMG numerical data as a waveform and displaying it to the physicians and storing diagnosis by the physician.

S1 table. Comparing the difference in prediction accuracy with and without information of muscle location

S2 Figure. Actual waveforms and created ones by CNN algorithm



(A), (C) and (E), created waveform based on learned features by CNN algorithm; (B), (D) and (F), actual waveform

(A) and (B), myopathy; (C) and (D), neuropathy;(E) and (F), normal.

Note that (A), (B), (E), (F) were plotted with 5mV y-axis limit and (C), (D) was plotted with 20mV y-axis limit to show the overall shape of the nEMG signal from neuropathy subjects which has characteristic of high amplitude.

S3 Figure. Examples of misclassified waveforms