



**Supplement 3.** Correlation between neurological recovery rates and both motor-evoked potential (MEP) improvement rates in all tested muscles and bilateral somatosensory-evoked potential (SEP) improvement rates in the intraoperative neurophysiologic monitoring (IOM) improvement group. **(A)** A positive relationship was noted between the MEP improvement rates in the left tibialis anterior (TA) and the neurological recovery rates. **(B)** There was no relationship between the MEP improvement rates in the left abductor hallucis (AH) and the neurological recovery rates. **(C)** There was no relationship between the SEP improvement rates in the left side and the neurological recovery rates. **(D)** A positive relationship was noted between the MEP improvement rates in the right TA and the neurological recovery rates. **(E)** There was no relationship between the MEP improvement rates in the right AH and the neurological recovery rates. **(F)** There was no relationship between the SEP improvement rates in the right side and the neurological recovery rates.