

session to ISI-4s session. Also, there was a general increase in amplitudes with longer ISIs but these increments were not significant²⁰. The studies in which electrical and vibrotactile stimuli were applied to the finger, amplitude increased as ISI increased²¹. The study which performed by Tomberg et al. showed that the N30 component amplitude increased as ISI increased. But there were no significant peak differences (N20, P27, N60, P100 and P200) in long ISIs (1400, 2500 and 4000 ms). These studies tried to evaluate the very early and early components of SEP's or SEF's to reveal the habituation process on somatosensory system. In addition to the literature, the present study evaluated the relatively late components of SEP's including the N200, P300 and N400. Current study revealed an amplitude increase when the ISI's (2s, 4s and 8s) are increased. This finding is in line with the previous findings in regard to studies investigated the SEP's and SEF's. In the present study significant increase of the amplitudes were measured between the ISI₂ and ISI₈ session.

These findings might be explained by the different type of stimulus. Moreover, very early and early components might be the affected peaks due to the electrical or vibration stimulation, while the late components (N2, P3 and N4) might be the affected peaks due to the non-painful tactile stimuli. Indirectly, it is possible to speculate that the habituation can be observed in the late components of SEP's during the perception of tactile stimuli.

Additionally, there were no significant increase after 4000 ms of ISI in the literature^{20, 21}. But current study showed a significant increase in the 8000 ms of ISI in comparison with the 2000ms. In our preliminary study we also spotted a 66% increase of amplitudes in ISI₁₆ compared with the ISI₂. Therefore, we conclude that the significant differences can be observed when the differences between the ISIs were at least four times bigger than each other. To

clarify these theories, further studies needed in terms of different ISI's setup.

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