A249 - P25/30 Somatosensory evoked potentials and neurological outcome in comatose survivors of out of hospital cardiac arrest

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\textbf{Introduction:}

The objective of the study is to analyse the 20-30msec complex of the somatosensory evoked potentials [SSEP] in comatose survivors of out of hospital cardiac arrest [OHCA], to identify the patterns of this complex and to test whether the addition of P25/30 in analysis could improve N20’s positive predictive value for favourable outcome. Previously it was suggested that P25/30 have a role in the prognosis of neurological outcome after OHCA [1].

\textbf{Methods:}

Single-centre, prospective, observational study. Patients: Adult comatose survivors of OHCA treated with organ support, neuroprotection and targeted temperature [T] management for normothermia. SSEP recorded at 24-36h post ROSC and interpreted by two interpreters for P25/30 and N20 in different amplitude thresholds. Neurological outcome at hospital discharge was assessed by the cerebral performance category [CPC] score.

\textbf{Results:}


\textbf{Conclusion:}

Early results suggest the presence of variable patterns of 20-30msec SSEP complex in comatose survivors of OHCA. As the number of enrolled participants increase, it is yet to be determined whether the presence of P25/30 could potentially increase the positive predictive value of N20 for the favourable neurological outcome.

\textbf{References:}