



Auditory evoked potentials related to the perception of temporal order.

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Objectives: Electrophysiological correlates of temporal order (TO) perception were tested.

Methods: 21 subjects reported the order of two different tones presented with a pause of 10ms or 60ms (difficult or easy condition, respectively). Pearson correlations between N1 and P2 amplitudes or latencies and correctness level were computed separately at each electrode.

Results: negative correlations at the Fz and Cz electrodes were found between P2 amplitude and correctness level for the difficult condition.

Conclusions: P2 component constitutes an electrophysiological correlate of TO perception.

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