

Probing consciousness with event-related potentials in the vegetative state

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ABSTRACT

Objective: Probing consciousness in noncommunicating patients is a major medical and neuroscientific challenge. While standardized and expert behavioral assessment of patients constitutes a mandatory step, this clinical evaluation stage is often difficult and doubtful, and calls for complementary measures which may overcome its inherent limitations. Several functional brain imaging methods are currently being developed within this perspective, including fMRI and cognitive event-related potentials (ERPs). We recently designed an original rule extraction ERP test that is positive only in subjects who are conscious of the long-term regularity of auditory stimuli.

Methods: In the present work, we report the results of this test in a population of 22 patients who met clinical criteria for vegetative state.

Results: We identified 2 patients showing this neural signature of consciousness. Interestingly, these 2 patients showed unequivocal clinical signs of consciousness within the 3 to 4 days following ERP recording.

Conclusions: Taken together, these results strengthen the relevance of bedside neurophysiological tools to improve diagnosis of consciousness in noncommunicating patients. *Neurology* 2011; 77:264–268

GLOSSARY

CRS-R = Coma Recovery Scale-Revised; **ERP** = event-related potential; **MCS** = minimally conscious state; **VS** = vegetative state.

Evaluating abnormal states of consciousness may be extremely challenging when relying only on the clinical examination alone. EEG-based paradigms have many advantages over fMRI for monitoring patients with altered consciousness because of 1) the millisecond-range resolution, 2) the low cost and noninvasiveness, 3) the ability to monitor at the bedside, and 4) the possibility of designing dedicated systems for clinical use.

We recently designed a new test of consciousness using high-density scalp EEG in an auditory odd-ball paradigm.¹ This test capitalizes on 2 properties which are specific to conscious processing^{2–4}: one has to be conscious of a mental representation to actively maintain it in working memory, and to use it strategically. Our test evaluates cerebral responses to violations of temporal regularities. Short-interval violations due to the unexpected occurrence of a single deviant sound among a repeated train of standard sounds led to an early and automatic response in auditory cortex, the mismatch negativity ERP component. Moreover, long-term violations, defined as the presentation of a rare and unexpected series of 5 sounds, led to a late and spatially distributed response that was present only when subjects were attentive and aware of the auditory rule and of its violations (P3b component). Our observations showed that this

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