# Quantitative EEG Diagnostic of Dementia Subtype

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PORTO, PORTUGAL — Quantitative EEG shows promise as a clinical diagnostic tool that is sensitive enough to distinguish mild from moderate subcortical dementia, according to one study presented at the Fourth International Congress on Vascular Dementia.

The researchers used both visual and quantitative EEG to evaluate 31 patients with subcortical vascular dementia (mean age 72 years, 19 women) and 14 healthy controls (mean age 70 years, 8 women). Subcortical vascular dementia was diagnosed using the National Institute of Neurological Disorders and Stroke-Association Internationale pour la Recherche et l'Enseignement en Neurosciences (NINDS-AIREN) criteria and criteria developed by Timo Erkinjuntti of the University of Helsinki. Sixteen patients had mild cognitive impairment (19-23 on the

MMSE) and 15 patients had moderate cognitive impairment (11-18 on the MMSE).

EEG was performed for 20 minutes with eyes closed. There was no significant difference between the visual EEG results for the two subcortical vascular dementia subgroups. There was a significant difference on the visual EEG results between the control group and both subcortical vascular dementia subgroups. Visual EEG results did not correlate with cognitive impairment as measured by the MMSE.

There were significant differences between the quantitative EEG results for the patients with mild and moderate dementia for all parameters. There was a significant correlation between all parameters and cognitive impairment, measured by the MMSE. The cholinergic deficit in subcortical vascular dementia may change bioelectric activity in ways not readily evident on visual inspection of EEG, but the calculational power of quantitative EEG is great enough to pick up these changes.

### LYRICA® (PREGABALIN) CAPSULES ©

## INDICATIONS AND USAGE

- LYRICA is indicated for management of

   Neuropathic pain associated with diabetic peripheral neuropathy

   Postherpetic neuralgia

  LYRICA is indicated as adjunctive therapy for adult patients with partial onset seizures.

**CONTRAINDICATIONS**LYRICA is contraindicated in patients with known hypersensitivity to pregabalin or any of its components.

WARNINGS
Withdrawal of Antiepileptic Drugs (AEDs) As with all AEDs, pregabalin should be withdrawn gradually to minimize the potential of increased seizure frequency in patients with seizure disorders. If pregabalin is discontinued this should be done gradually over a minimum of 1 week. Immorigenic Potential In standard preclinical in vivo lifetime carcinogenics studies of pregabalin, an unexpectedly high incidence of hemangiosarcoma was identified in two different strains of mice (see PRECAUTIONS: Carcinogenesis, Mutagenesis, Impairment of Fertility). The clinical significance of this finding is unknown. Clinical experience during pregabalin's premarketing development provides no direct means to asserb potential for inducing tumors in humans. In clinical studies across vanous patient populations, comprising 6396 patient-years of exposure in patients > 12 years of age, new or worsening-preexisting tumors were reported in 57 patients. Without knowledge of the background incidence and recurrence in similar populations not treated with LYRICA, it is impossible to know whether the incidence seen in these cohorts is or is not affected by treatment.

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ADVERSE REACTIONS
In all controlled and uncontrolled trials across various patient populations during the premarketing development of pregabalin, more than 10,000 patients have received pregabalin. Approximately 5000 patients were treated for a formation rome, over 3100 patients were treated for 1 year or longer, and over 1400 patients were treated for a least 2 years.

Adverse Events Most Commonly Leading to Discontinuation in All Controlled Clinical Studies In controlled trials of all populations combined, 14% of patients treated with pregabalin and 7% of patients treated with placebo discontinued prematurely due to adverse events. In the pregabalin treatment group, the adverse events most frequently leading to discontinuation were dizziness (4%) and somnolence (3%). In the placebo group, 1% of patients withdrew due to somnolence. Other adverse events that led to discontinuation from controlled trials more frequently in the pregabalin group compared to the placebo group were ataxia, confusion, asthenia, thinking abnormal burred vision, incoordination, and peripheral edema (1% each). Most Common Adverse Events in All Controlled Clinical Studies in controlled trials of all patient populations combined, dizziness, somnolence, dry mouth, edema, blurred vision, weight gain, and "thinking abnormal" (primarily difficulty with concentration/attention) were more commonly reported by subjects treated with pregabalin than by subjects treated with placebo (B5% and twice the rate of that seen in placebo). Controlled Studies with Neuropathic Pain Associated with Diabetic Peripheral pain associated with diabetic peripheral neuropathy, 9% of patients treated with pregabalin and 4% of patients treated with placebo (B5% and twice the rate of that seen in placebo). Controlled Studies with Neuropathy: The pregabalin treatment group, the most common reatons lacebo discontinuation due to adverse events. In the pregabalin treatment group, the most common reatons lacebo discontinuation from the rate of the properties of the sevents

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