Dear Editor,

A 56-year-old male was admitted to our neurosurgery polyclinic with clumsiness and weakness of his left arm. Diffusion-weighted magnetic resonance imaging (MRI) showed an infarction, and he was discharged with low-molecular-weight heparin. It was learned that he had new symptoms including desparation, reticence, slowness in motions, imbalance, being withdrawn, and forgetfulness, which initiated one month after his discharge.

Six months later, the patient was admitted to the neurology polyclinic because of worsening in his quality of life. His neurologic examination showed myoclonus, dysarthria, bilateral upper limb apraxia, alien hand phenomenon, bilateral rigidity, and bradykinesia predominantly affecting the left side. His mood was depressive. His mini mental state examination (MMSE) score was 16/30. An investigation for autoimmune markers and a paraneoplastic panel resulted negatively. An ophthalmologic examination was normal. Cranial MRI showed mild cortical atrophy. The patient was considered as having probable corticobasal syndrome, and L-dopa was initiated with a dose of 375 mg/day.

At the 3-month follow-up, his symptoms worsened. Neurologic examination showed bilateral rigidity, bradykinesia, and apathy. His MMSE score was 10/30. FLAIR-weighted cranial MRI showed mild cortical atrophy. The patient was considered as having probable corticobasal syndrome, and L-dopa was initiated with a dose of 375 mg/day.

At the 3-month follow-up, his symptoms worsened. Neurologic examination showed bilateral rigidity, bradykinesia, and apathy. His MMSE score was 10/30. FLAIR-weighted cranial MRI showed mild cortical atrophy. The patient was considered as having probable corticobasal syndrome, and L-dopa was initiated with a dose of 375 mg/day.

Neurologic examination showed myoclonus, dysarthria, bilateral upper limb apraxia, alien hand phenomenon, bilateral rigidity, and bradykinesia predominantly affecting the left side. His mood was depressive. His mini mental state examination (MMSE) score was 16/30. An investigation for autoimmune markers and a paraneoplastic panel resulted negatively. An ophthalmologic examination was normal. Cranial MRI showed mild cortical atrophy. The patient was considered as having probable corticobasal syndrome, and L-dopa was initiated with a dose of 375 mg/day.

At the 3-month follow-up, his symptoms worsened. Neurologic examination showed bilateral rigidity, bradykinesia, and apathy. His MMSE score was 10/30. FLAIR-weighted cranial MRI showed mild cortical atrophy. The patient was considered as having probable corticobasal syndrome, and L-dopa was initiated with a dose of 375 mg/day.

The “MRI-CJD Consortium” Criteria (2009) guide the diagnosis of sporadic CJD (1). Positive MRI findings are defined as an increased signal abnormality in nucleus caudatus and putamen or at least in 2 cortical areas (temporal-parietal-occipital) in diffusion or FLAIR-weighted images. Positive EEG findings are defined as periodic sharp wave complexes. Diffusion-weighted imaging should be added to cranial imaging in patients with a pre-diagnosis of CJD because it has high specificity and sensitivity (2).

Non-specific findings such as slowing in background activity may be observed in the acute period in EEG, but typical biphasic or triphasic periodic sharp wave discharges every 0.5-2 seconds are observed as the disease progresses. If CJD is considered in diagnosis, EEG should be repeated.

Neuropathologic investigation is required for a definite diagnosis of CJD. For probable or possible diagnosis of CJD; rapidly progressive dementia with clinical findings (myoclonic jerks, pyramidal or extrapyramidal signs, akinesia or mutism) and auxiliary investigation tests (periodic triphasic waves in EEG, 14-3-3 protein positivity in CSF and "cortical ribbon" sign, increased
Figure 1. Bilateral cortical diffusion restriction (cortical ribbon) in diffusion-weighted imaging is shown here which is typical for Creutzfeldt-Jakob disease.

Figure 2. Triphasic periodic waves which occur every 3-15 seconds, have a frequency of 1 Hz and are typical for Creutzfeldt-Jakob disease are shown in this figure. This finding is suggestive of a slow virus infection such as Creutzfeldt-Jakob disease.
hyperintensity in thalamus and basal ganglia in cranial MRI) are required (3).

**Ethics**

**Informed Consent:** Consent form was filled out by all participants.

**Peer-review:** Internally peer-reviewed.

**Authorship Contributions**


**Conflict of Interest:** No conflict of interest was declared by the authors.

**Financial Disclosure:** The authors declared that this study received no financial support.

**References**

