

Fig. 2.11. Example of an EEG report

including high doses of neuroleptics, sedatives, tricyclics, lithium, and a host of others.

Principle: Diffuse slowing is a nonspecific abnormal finding consistent with numerous processes causing a diffuse disturbance of cerebral function.

Figure 2.15 shows slowing that is in the form of frontal intermittent rhythmic delta activity, usually abbreviated as FIRDA. Despite its frontal predominance, FIRDA has the same significance as do the various types of diffuse slowing (Waternberg et al. 2002).

The EEG should not be called slow if the slowing appears only in the drowsy state because this type of slowing is a normal transitional state.

Diffuse Voltage Changes

Figure 2.16 shows a flat EEG, technically called electrocerebral silence. The reader must rule out technical factors before determining that a record is consistent with electrocerebral silence (Anonymous 1994b). Amplification should be at least to a level of

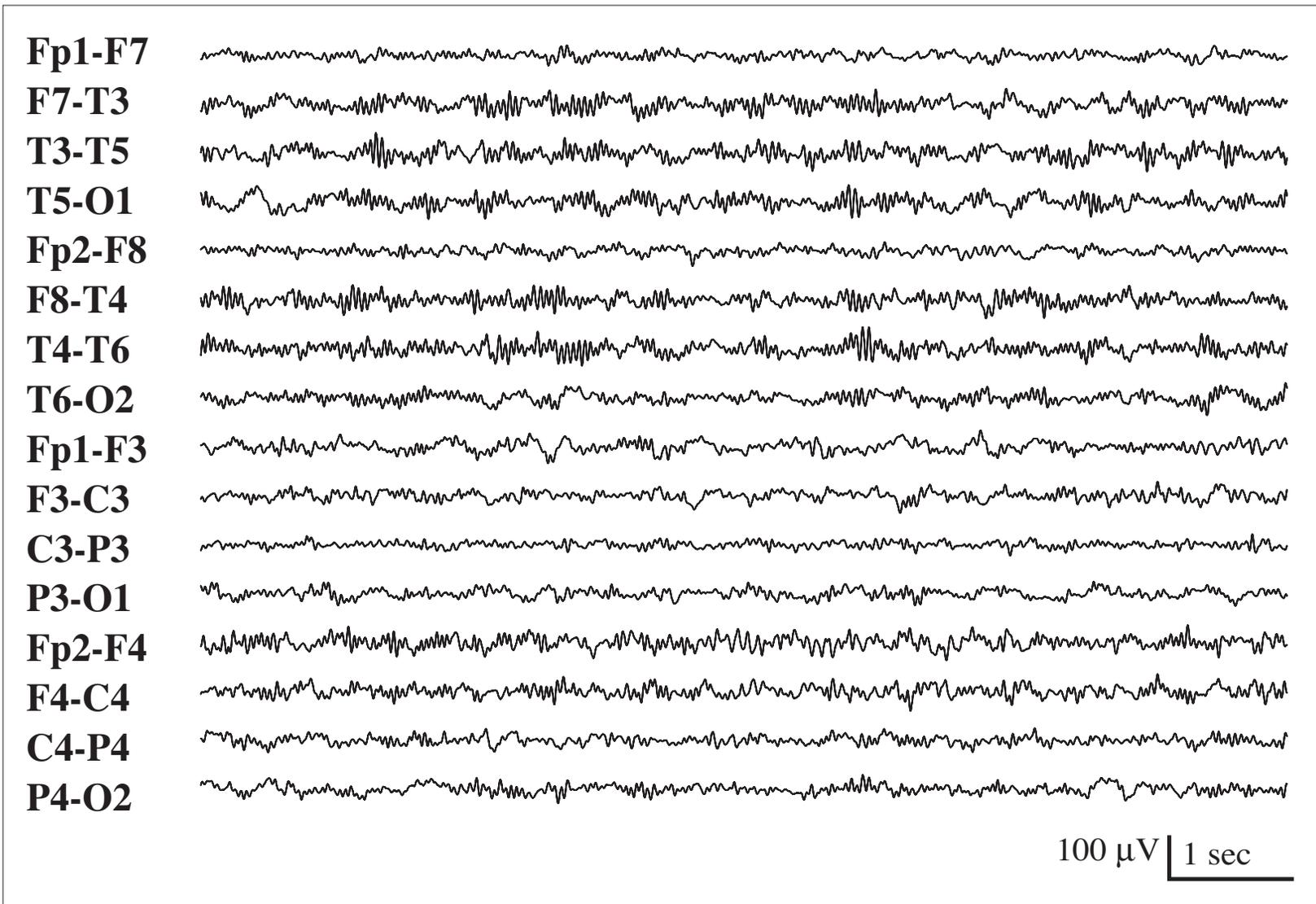
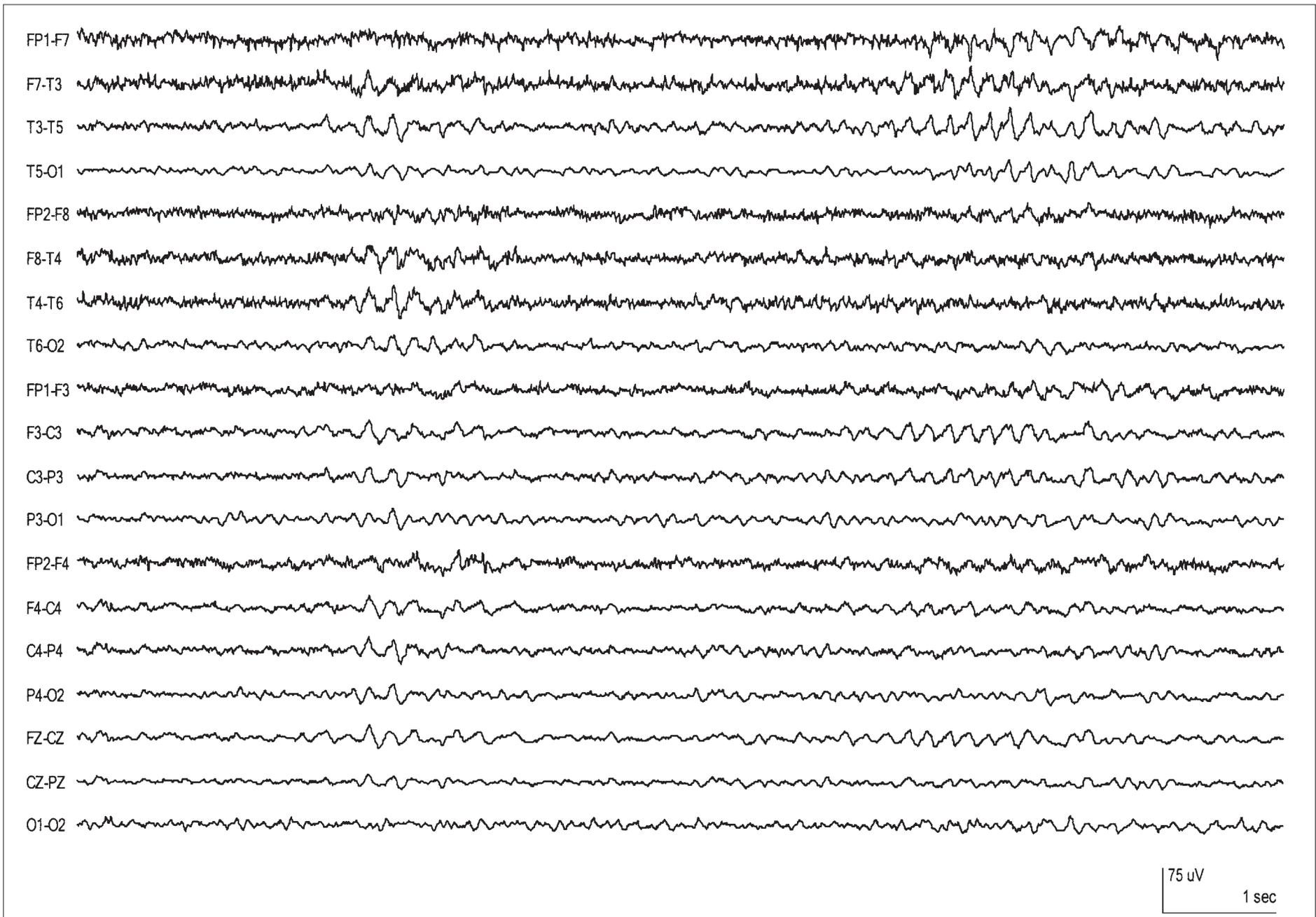


Fig. 2.12. Excess beta (fast) activity



RM TD or possibly wicket rhythm

RMTD or possibly wicket rhythm

Patient's History 56-year-old woman with a history of diabetes, dystonia, hypothyroidism, and dementia. Medications are insulin, thyroid, phenytoin, lansoprazole, enalapril, and diazepam.

EEG Findings The left temporal region displays frequent runs of rhythmical sharp activity, with phase reversals in the T3 or F7 electrodes. This is a normal variant pattern that has some similarities to both wicket spikes or wicket rhythm and RMTD.

Features of This Pattern Isolated wicket rhythms are often difficult to distinguish from epileptiform activity (sharp waves and spikes). Unlike sharp waves and spikes, wicket rhythms have an arciform morphology and do not disrupt the underlying rhythm or have a clear aftergoing slow wave. Wicket rhythms occur in a range of 6 to 11 cps over the posterior temporal lobes during drowsiness and do not have epileptiform potential and therefore may be faster than RMTD. Most patients with isolated wicket discharges that might be mistaken for sharp waves also have longer trains of wicket activity that help identify this pattern.

Clinical Relevance This pattern can be difficult to distinguish from rhythmical temporal theta bursts of drowsiness.

Similar Waveforms

1. sharp waves
2. breach rhythm
3. sharp transients
4. mu rhythm

Clinically Related Patterns

1. rhythmic midtemporal theta of drowsiness (RMTD)
2. normal drowsiness
3. minor sharp and slow pattern
4. psychomotor variant (see RMTD)