We experienced case of Alzheimer's disease which showed abnormal cortical enhancement in MR-imaging studies for 4 years.

Case presentation: KH (female, 72y-o, house wife) was referred to our hospital at 2003 because of dementia. She diagnosed as CJD because of her clinical course, laboratory data and MRI findings. Her disorientation was started at 2002, and her mental function gradually gets worse, so that we could not check her intelligence score. However, at the first time we met her at 2003, she could eat and sitting with some aids at 2003. We had a question of accuracy of her diagnosis as CJD because of the rate of disease progression as CJD was so slow, without myoclonus, without PSD on EEG records, and normal 14-3-3 levels in CSF.

At three years later, autopsy was performed. Brain weight was 880g. In microscopic findings, many primitive plaques were observed in cortices all over the cerebrum, but no cores were present. In immunohistochemical studies, no anti-prion-Ab positive structure were detected.

We concluded this case as a case of Alzheimer's disease with atypical pathological findings. We present this case with special reference in ADPD.