**Supplementary data**

Patients summary

**Subject 1:** Female developing, FTD, progressive dystonia, ataxia of lower limbs and mild parkinsonism at 64 years old.

**Subject 2:** 70 years old male with PSP with prominent CBS and jerky action tremor

**Subject 3:** Male with panic attacks, myoclonus, chorea and FTD from age 60

**Subject 4:** Female with schizoid personality disorder together with FTD, parkinsonism, tremor and distal myoclonus.

**Subject 5:** Male with learning difficulties since childhood, developing generalized myoclonus and chorea from early adulthood. No FTD or ALS present.

**Subject 6:** Male with progressive non-fluent aphasia and lower body parkinsonism unresponsive to levodopa during his mid-fifties perishing at 58.

**Subject 7:** Lady with FTD and no-no tremor of the head starting during her mid-fifities

**Subject 8:** FTD starting in a 39 years old male developing ALS, postural tremor, myoclonus and parkinsonism after 11 years.

**Subject 9:** Male with FTD at 59 years old developing postural tremor after 9 years of follow up.

**Subject 10:** Female with progressive FTD and parkinsonism starting at 55.

**Subject 11:** Rapidly progressive parkinsonian syndrome with tremor, dystonia, chorea and ALS in a 58 years old lady leading to severe disability after a year.

**Subject 12:** Male with FTD at 69 years, after three years he developed mild generalized parkinsonism

**Subject 13:** Lady with parkinsonism, cervical dystonia and FTD starting at 40.

**Subject 14:** Male with hemichorea starting when the patient was 19 years old. No FTD or ALS.

**Subject 15:** FTD starting at 36 years old in a male, developing ALS and complex MD four years later with parkinsonism, cervical dystonia and myoclonus.

**Subject 16:** FTD starting when she was 62, four years later developed mild generalized parkinsonism as well as myoclonus and tremor affecting mouth, tongue and both arms.

**Subject 17:** Male with psychiatric symptoms since sixth decade. After an admission developed marked orofacial dyskinesia, dystonia, generalized chorea and FTD.

ALS, amyotrophic lateral sclerosis; CBS, Corticobasal syndrome; FTD, Frontotemporal dementia.