

**59th ANNUAL DIAGNOSTIC SLIDE SESSION 2018.**

CASE 2018-4b

Submitted by:

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Clinical History:

The decedent was a 72-year-old right handed female who presented for evaluation of incoordination and frequent falls. She complained of multiple episodes of imbalance and demonstrated increasing forgetfulness, anosmia, and micrographia. She was evaluated by multiple neurologists and eventually treated with carbidopa/levodopa with no improvement. Physical exam was remarkable for masked facies, impaired extraocular movements with jerky saccades, axial rigidity, moderate bradykinesia, and a narrow-based gait with short strides, absent arm swing, and no postural control. Over the course of five years she developed severe cognitive defects, including word finding difficulties and memory decline, and was eventually transferred to hospice where she died.

Autopsy findings:

The brain was examined 14 hours post-mortem and weighed 1147 grams. Gross findings included diffuse cerebral atrophy, severely atrophic hippocampus and amygdala, ex-vacuo hydrocephalus, and substantia nigra depigmentation.

Material submitted:

1 H&E section of the hippocampus

Points for discussion:

1. Differential diagnoses
2. Useful immunohistochemical/additional stains
3. Revised differential diagnoses after additional stains and biochemical work-up