

Disclosures

Grant support:

• NIH, Michael J Fox Foundation for Parkinson's disease research

Clinical trials site PI:

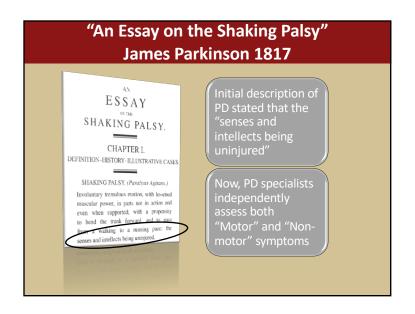
• AstraZeneca, Sanofi

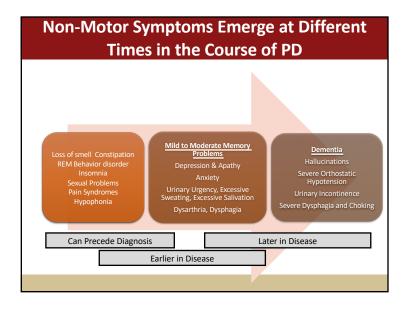
Consulting:

Allergan



Why does a Movement Disorders Specialist care about 'non-motor' things like cognition?



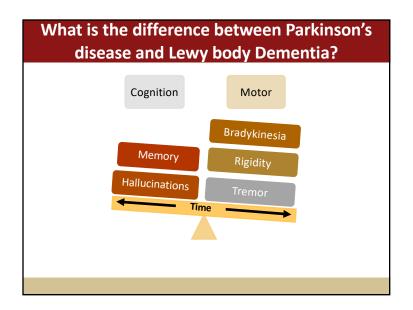


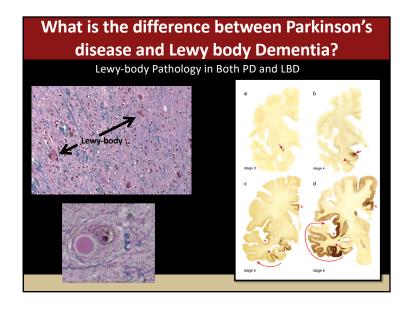
Why are Non-Motor Symptoms so difficult to understand and treat?

- The motor symptoms are more 'obvious'
- Impact of non-motor symptoms on quality of life has only been recognized by physicians for the past 15 years
- There is much more variability in the type and severity of non-motor symptoms experienced by any single patient.
- Because of this variability non-motor symptoms are harder to study.

Why is it important to treat Non-Motor symptoms?

- They can impact quality of life just as much as the motor symptoms
- They can actually WORSEN your motor and other non-motor symptoms
 - ➤ Tremor can worsen when you are constipated
 - ➤ Memory can worsen when you do not sleep or when you are anxious

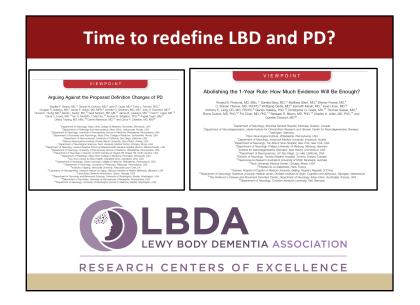


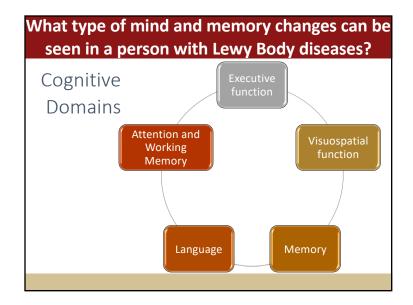


What is the difference between Parkinson's disease and Lewy body Dementia?

As is currently defined:

- The <u>Diagnosis of PD</u> with cognitive impairment or Dementia should be made when memory problems develops within the context of established PD
- The <u>Diagnosis of LBD</u> is appropriate when the diagnosis of Dementia precedes or coincides within 1 year of the development of motor symptoms
- The appropriate term will depend upon the clinical situation and generic terms such as <u>Lewy Body</u>
 <u>Disease</u> (which includes both PD and LBD) are often helpful





Memory

On your way out the door your spouse asks you: "Can you pick up some milk while you are at the store?"

- Encoding
- Maintenance
- > Retrieval



Language

- Names of objects and people
- Problems can be simple
 - 'Tip of the tongue'
- Problems can be more severe
 - You can't remember the name of something you use regularly.

Visuospatial Function

 Problems with parking the car or clipping corners when driving

Problems with directions somewhere that is not familiar

Attention and Working Memory

A friend tells you the date of an event

- You keep it in your mind for about 30 seconds while you unlock your phone and open the calendar.
- While unlocking your phone you are distracted by a reminder to pick up milk from the store.

Executive Function

The cognitive processes that dictate flexible and dynamic adjustment of performance in response to a changing environment.

- Planning/Organizing
- Novel Problem solving
- Shifting attention
- Multi-tasking



