# LEWY BODIES in DEMENTIA and PARKINSON'S DISEASE

Neuron

### LEWY BODIES

cause both Parkinson's disease and Lewy body dementia. Lewy bodies are abnormal deposits of proteins called alpha-synucleins that can be found in brain cells (neurons).

## DEMENTIA

Common but seldom recognized type of dementia

### PARKINSON'S DISEASE

Second most common movement disorder.

Lewy body

Dopamine is a chemical that neurons use to send messages each other.



No dopamine

Neurons with Lewy bodies may work less well.

Neuron

Neurons with Lewy bodies may die.

### PARKINSON'S SYMPTOMS

Parkinson's shows up when Lewy bodies are found in the brainstem and movement control areas.

Parkinson's is due to the death or loss of neurons that release dopamine.

#### BASAL GANGLIA

MIDBRAIN



### **LEWY BODIES**

can affect different areas of the brain, causing different symptoms.

### DEMENTIA SYMPTOMS

Symptoms of dementia show up when Lewy bodies are found in the brain cortex and mood and memory centers.

#### CEREBRAL CORTEX

- Hallucinations are characteristic of Lewy body dementia
- Thinking and logic impairment

### AMYGDALA

Mood changes

#### HIPPOCAMPUS

 Memory impairment

### BRAINSTEM

- Sleep disturbance
- Changes in alertness

National Institute on Aging

https://www.nia.nih.gov/health/topics/lewy-body-dementia

MedlinePlus

https://medlineplus.gov/lewybodydisease.html

**NIH** MedlinePlus

## <u>Dementia With Lewy Bodies And Parkinsons Disease</u> <u>Dementia</u>

J. Eric Ahlskog

### **Dementia With Lewy Bodies And Parkinsons Disease Dementia:**

Dementia with Lewy Bodies John O'Brien, David Ames, Ian McKeith, Edmond Chiu, 2005-11-29 Filling a noticeable gap in the market for a new text solely focused on Dementia with Lewy Bodies this book discusses cutting edge topics covering the condition from diagnosis to management as well as what is known about the neurobiological changes involved With huge progress having been made over the last decade in terms of the disorder **Dementia with Lewy Body and Parkinson's Disease Patients** J. Eric Ahlskog, 2013-09-19 Dementia implies impaired thinking and memory which develops in most people with Parkinson's disease if they live long enough A closely related condition is Dementia with Lewy Bodies which is the second leading cause of dementia This book addresses these Lewy body conditions with descriptions of diagnosis symptoms and current scientific understanding *Dementia with Lewy Bodies and Parkinson's Disease Dementia* J. Eric Ahlskog, Dementia implies impaired thinking and memory which develops in most people with Parkinson's disease if they live long enough A closely related condition is Dementia with Lewy Bodies which is the second leading cause of dementia This book addresses these Lewy body conditions with descriptions of diagnosis symptoms and current scientific understanding

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Cognitive Impairment and Dementia in Parkinson's Disease Murat Emre, 2010 In this edited volume experts in the field describe in detail all aspects of cognitive impairment and dementia in Parkinson's disease including epidemiology spectrum of clinical features pathology neurochemistry and genetics findings in auxillary investigations and the relation to other neurodegenerative disorders Neuropsychiatric and Cognitive Changes in Parkinson's Disease and Related Movement Disorders Dag Aarsland, Jeffrey Cummings, Daniel Weintraub, K. Ray Chaudhuri, 2013-08-29 A broad and in depth discussion of

the important but still uninformed field of behavioral disturbances associated with Parkinson's disease Lewy Body Dementia U.S. Department of Health and Human Services, ewy body dementia LBD is a complex and challenging brain disorder It is complex because it affects many parts of the brain in ways that scientists are trying to understand more fully It is challenging because its many possible symptoms make it hard to do everyday tasks that once came easily Although less known than its cousins Alzheimer's disease and Parkinsons disease LBD is not a rare disorder More than 1 million Americans most of them older adults are affected by its disabling changes in the ability to think and move As researchers seek better ways to treat LBD and ultimately to find a cure people with LBD and their families struggle day to day to get an accurate diagnosis find the best treatment and manage at home This booklet is meant to help people with LBD their families and professionals learn more about the disease and resources for coping It explains what is known about the different types of LBD and how they are diagnosed Most importantly it describes how to treat and manage this difficult disease with practical advice for both people with LBD and their caregivers **Dementia with Lewy Bodies** Kenji Kosaka, 2016-11-23 This book describes biological and clinical aspects of dementia with Lewy bodies DLB one of the most common types of progressive dementia although in most cases the cause is unknown The editor has made a major contribution to the understanding of the disease since he first reported DLB in 1976 Written by renowned experts in the field the book discusses not only diagnostic criteria and clinical symptoms of DLB but also various imaging modalities and biological markers such as alpha synuclein which are useful for diagnosis of DLB Dementia with Lewy Bodies is aimed at psychiatrists neurologists and researchers who are interested in DLB Parkinson's disease dementia and dementia with Lewy bodies Sics Editore, 2015-05-21

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