

Course Title: Neurology UE 117

Course Subtitle: Parkinson Disease Epidemiology, Pathology, Genetics, and Pathophysiology

Course Description: Parkinson disease is a complex, age-related, neurodegenerative disease associated with dopamine deficiency and both motor and nonmotor deficits. Many environmental and genetic factors influence Parkinson disease risk, with different factors predominating in different patients. These factors converge on specific pathways, including mitochondrial dysfunction, oxidative stress, protein aggregation, impaired autophagy, and neuroinflammation. Ultimately, treatment of Parkinson disease may focus on targeted therapies for pathophysiologically defined subtypes of Parkinson disease patients.

Course Source: Clinics in Geriatric Medicine

Course Length: 1 hour

Course Authors: Multiple

Course Instructor: Joanne Brown, MS, OTR/L, CHT

Target Audience: OT/OTA's, PT/PTA's

Educational Level: Introductory, Intermediate, Advanced

The course is written at the intermediate level, but learners of all levels will benefit from the information.

Course Objectives:

At the end of the course, participants will be able to:

1. DESCRIBE PD AND LIST 3 MOTOR AND NONMOTOR DEFICITS ASSOCIATED WITH PD
2. DESCRIBE THE EPIDEMIOLOGY OF PD AND STATE WHETHER OR NOT THE PREVALENCE OF PD WILL INCREASE
3. LIST 3 NEUROPATHOLOGIC HALLMARK SIGNS OF PD
4. LIST 3 LIFESTYLE FACTORS THAT HAVE BEEN ASSOCIATED WITH RISK FOR PD
5. DESCRIBE HOW GENETICS AND PATHOPHYSIOLOGY PLAY A MAJOR ROLE IN PD

Outline of Content:

Hour #1

- Introduction
- Neuropathology
- Epidemiology
 1. Distribution of Disease
 2. Determinants of Disease
 3. Toxicant Chemical Exposure
 4. Head Injury
 5. Lifestyle Factors
- Genetics and pathophysiology
- Alpha-synuclein aggregation and spread of pathology
 1. Alpha-Synuclein Aggregation
 2. A Prion-Like Role for Alpha-Synuclein Assemblies?
- Summary

Instructional Methods and Formats:

Online course available 24/7 at www.OnlineCE.com includes text-based course.

Course Completion Requirements:

A minimum passing score of 100% is required for course completion. You will have as many attempts as needed until your passing score of 100% is achieved. Upon successful completion of course, you will receive your certificate of completion and AOTA eligible CEUs.

AOTA Classification Codes:

Category 1: Domain of OT

Category 2: Occupational Therapy Process

Category 3: Professional Issues

Additional Policies:

OnlineCE Policies are available by clicking on the tab – Policies – located in the left-hand navigation bar.

OnlineCE.com is an AOTA Approved Provider of continuing education. AOTA does not endorse specific course content, products, or clinical procedures.