DEMENTIA

Date: February 5, 2019
Resources:  
- Dementia handout (Gruener)
- Dementia PowerPoint (Gruener)

KEY CONCEPTS & LEARNING OBJECTIVES (What you need to demonstrate on an exam in order to pass the test!)

I. Demonstrate the ability to:
   a.) Contrast symptoms of dementia versus age-related changes
   b.) List the demographics of Alzheimer Disease (AD) and the primary risk factors
   c.) Define Mild Cognitive Impairment (MCI) and its relationship to dementia
   d.) Contrast the presentation of AD, Dementia with Lewy bodies (DLB) and Frontotemporal dementia (FTD)
   e.) List the abnormal protein aggregates in AD, DLB and FTD
   f.) Define the Amyloid Cascade Hypothesis and significance of APOE e4 allele
   g.) What is the rationale for cholinesterase inhibitors and NMDA receptor antagonists in AD?
   h.) In DLB dementia what medications can address symptoms, and which are contraindicated
   i.) How do the FTD subtypes present: Behavioral, primary progressive aphasia, progressive supranuclear palsy?
   j.) What is the relevance of the microtubule associated protein tau in FTD? What is the incidence/age group most frequently affected by FTD?
   k.) What is the role and contraindications of typical and atypical neuroleptic (antipsychotic) medications in AD?
   l.) What medical conditions require caution in the use of anticholinesterase medications in AD?

II. As your education progresses you will begin to demonstrate the integration of your knowledge by:
   a.) Suggest a site of dysfunction that would explain signs and symptoms in a clinical case presentation
   b.) Based on a clinical presentation identify the (expected) site of abnormality on an MRI (or CT) scan of the brain
   c.) Develop 2-3 potential diagnoses, appropriate to the patients' clinical scenario, course and medical history, which would explain the etiology of their difficulty

Additional resources for those who are really (we mean really) interested!


