Dementia Risk Factors and Preventative Strategies

Risk Factors:

Non-Modifiable:

- 1. Age the older you get the more your risk increases
- 2. Sex women make up 2/3 of people with Alzheimer's Disease
- Family history having a parent or sibling with AD increases risk, more than one = even greater risk
- 4. Genetics genes APOE-e2 or APOE-e3 or APOE-e4 all increase risk but are not determinants (not a sure thing that AD will develop)

Modifiable or preventable:

- 1. Stress increases the release of the hormone cortisol; chronic stress leads to chronic exposure of the brain to cortisol; cortisol is a neurotoxin to the hippocampus (primary center of memory function in the brain)
- Lack of sleep restorative functions in the brain occur during sleep toxic protein Beta Amyloid (present in plaques in brains of those with AD) may be cleared from the brain during sleep
- Chronic inflammation associated specifically with development of AD, CAD, atherosclerosis, insulin resistance – can be caused by lack of sleep, poor eating patterns, stress, TBI, metabolic disorders, chronic infections
- 4. Hypertension* #
- Elevated serum cholesterol* #
- 6. Diabetes* #
- 7. Obesity* #
- 8. COPD and Sleep Apnea #
- 9. Smoking #
- 10. Head injury including multiple subclinical hits to the head
- 11. Environmental toxins heavy metals

risk factors for cerebrovascular disease and thereby risk factors for AD and vascular dementia

Preventative Strategies to Build Cognitive Reserve:

^{*} part of what is known as Metabolic Syndrome, all of which have a significant component of inflammation

Healthy lifestyle:

- Diet no specific diet but, healthy for your heart = healthy for your brain (such as the Dash Diet and Mediterranean); moderation is the key; rich in good fats and multicolored fruits/vegetables and fish
- 2. Exercise routine exercise that raises the heart rate
- 3. Socially engaged the more social contacts and social contexts the better
- 4. Cognitively engaged new learning, especially in a social setting, is the most beneficial
- 5. Adequate sleep research indicates that optimal functioning occurs with 7.5 to 8.5 hours of sleep per night
- Control of risk factors that cannot be eliminated or prevented
 Cardiovascular disease, respiratory disease, diabetes

Factors that have a positive impact on brain health:

- Purpose in life those who scored higher on purpose in life were found to be 2.4 times less likely to develop Alzheimer's Disease and found to have slower rates of cognitive decline
- Personality traits: conscientious, organized, self-disciplined, dependable, driven to achieve = reduction in risk for AD
- Education those with higher education have lesser risk; strive for lifelong learning
- Being married lifelong singles are 42% more likely to develop dementia; widowed are
 20% more likely
- Other habits to embrace be creative, cultivate curiosity, laugh often, take time to play