PHYSICIAN FACT SHEET ON THE ROLE OF GENETICS AND DEMENTIA

- A positive family history for Alzheimer's disease increases the individual's risk for developing dementia.
- 2. A family history of Alzheimer's disease does not confirm the presence of this disease unless a post-mortem examination is performed.
- 3. Individuals who have siblings with Alzheimer's disease have up to a 3.5-fold increased risk for developing dementia.
- 4. The autosomal dominant variant of Alzheimer's disease produces about 2% of all dementias.
- 5. Multiple "suspect" genes are linked with late onset dementia; most associated with the APOE 4 gene on chromosome 19.
- 6. APOE typing is not predictive for dementia as some ethnic groups have high rates of APOE 4 and normal rates of dementia.
- 7. In elderly twins, genetic factors accounts for 48% of variation in risk for dementia.
- 8. Vascular dementia and diffuse Lewy body disease probably have limited genetic risk factors.
- 9. Frontotemporal dementia is associated with chromosome 17 that programs tau.
- 10.A simple genetic test is unlikely for Alzheimer's disease; however, a genetic screen that assesses risk factors is likely within the next five years.
- 11.Genetic risk can be crudely assessed by determining the number of family members with proven Alzheimer's disease, age of onset, and proximity in the family tree.
 - 12. Genetic risk factors, basic healthcare compliance, and lifestyle decisions may alter the risk for dementia.