



NEURODEGENERATIVE DISEASE COSTS EXCEED \$655 BILLION A YEAR IN MEDICAL EXPENSES AND ECONOMIC LOSSES

Neurodegenerative diseases – including Alzheimer’s disease and related dementias, Parkinson’s disease, ALS, and other motor neuron diseases – affected **4.7-6 million Americans** (2016-2017) and were responsible for more than **270,000 deaths** and **3 million** disability-adjusted life years (2016).

Alzheimer’s Disease and Related Dementias (ADRD)



U.S. PREVALENCE: More than **5 million** people aged **65 and older**, prevalence projected to double by 2060



Annual Direct Costs: **\$352 billion**

Medicaid costs: **\$58 billion**

Medicare costs: **\$179 billion**

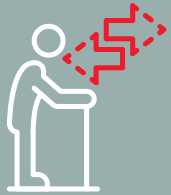
Out-of-pocket direct medical: **\$75 billion**

Annual Burden of Unpaid Caregiving: **15.3 billion hours**



70% of the lifetime cost of care is borne by families of individuals living with dementia

Parkinson’s Disease



U.S. PREVALENCE: More than **1 million** (2017)

Estimated **20%** of adults with Parkinson’s disease undiagnosed

Total Annual U.S. Costs: **\$54.7 billion**



Direct Medical Costs: **\$26.8 billion**

Indirect, Non-Medical Costs: **\$27.9 billion**, including **\$6.9 billion** in unpaid caregiving

Unpaid caregiving averages **22 hours a week**



Medical costs and productivity losses burden projected to rise by **52%**, 2017 to 2037

Amyotrophic Lateral Sclerosis (ALS):



Global prevalence of ALS projected to increase from **223,000** (2015) to **377,000** (2040)



Annual Cost Burden: **\$1.2 billion a year**



Single patient costs exceed **\$2 million over 10 years**



21,835 people in the U.S.

diagnosed with ALS (2015), projected to increase to **29,306** by 2040



TOTAL DIRECT COSTS: **\$1.75 million** with largest cost components of in-home caregivers, ventilation, and hospital care

Spinal Muscular Atrophy:



U.S. Prevalence: **8,500-10,000 individuals** diagnosed across all Types (2017)



U.S. Annual Cost Burden: **\$809 million** (early onset) and \$322 million (other subtypes)



Average direct medical costs: **\$53,560** per person