Amyotrophic Lateral Sclerosis (ALS)

Prevalence (number of cases in a given population):

- It is estimated that as many as 30,000 Americans may have the disease at any given time.¹

Incidence (rate of new cases of a disease or condition):

- Approximately 5,600 people in the United States are diagnosed with ALS each year. The incidence of ALS is two per 100,000 people.²
- Every 90 minutes, someone is diagnosed with ALS.²

Costs (patient care costs, lost wages, and lost wages of care givers):

- Direct non-medical costs (from a 1996 study):³
  
  Basic patient equipment costs (e.g., wheelchair, patient lift, suction machine, etc): $49,565³
  
  Non-invasive mechanical ventilation: $5,220/year³
  
  Invasive mechanical ventilation: $199,500/year³
  
  Alternative nutritional maintenance: $6,000/year³

NIH Funding:⁴

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¹ALS Association Facts You Should Know. Available at http://www.alsa.org/about-als/facts-you-should-know.html

²ALS Frequently Asked Questions. Available at http://www.als.net/about-als-tdi/als-faq/

³Klein L and Forshew D. The Economic Impact of ALS. Neurology 1996;47;126S

Alzheimer’s Disease

Prevalence (number of cases in a given population):

- An estimated 5.4 million Americans of all ages have Alzheimer’s disease in 2012. This figure includes 5.2 million people age 65 and older and 200,000 individuals under age 65 who have younger-onset Alzheimer’s.¹

Incidence (rate of new cases of a disease or condition):

- Approximately 53 new cases per 1,000 people age 65 to 74, to 170 new cases per 1,000 people age 75 to 84, to 231 new cases per 1,000 people over age 85 (the “oldest-old”).²
- Every 70 seconds, someone is diagnosed with Alzheimer’s.³

Costs (patient care costs, lost wages, and lost wages of care givers):

- Total payments for 2012 are estimated at $200 billion, including $140 billion for Medicare and Medicaid combined in 2012 dollars. These figures are derived from a model developed by The Lewin Group using data from the Medicare Current Beneficiary Survey and The Lewin Group’s Long-Term Care Financing Model.⁴

NIH Funding:⁵

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³Facts About Alzheimer’s Disease. Available at http://www.alzheimersprevention.org/
Autism Spectrum Disorder

Prevalence (number of cases in a given population):

- 11.3 per 1,000 (one in 88) children aged 8 years.¹
- 1 to 1.5 million Americans live with an autism spectrum disorder.²

Incidence (rate of new cases of a disease or condition):

- (UK study) The true incidence of autism spectrum disorders is likely to be within the range of 30-60 cases per 10,000.³
- Every 11 minutes, a child is born who will soon be diagnosed with some form of autism.⁴

Costs (patient care costs, lost wages, and lost wages of care givers):

- Caring for all people with autism over their lifetimes costs an estimated $35 billion per year.⁵

NIH Funding:⁶

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¹CDC. MMWR. Prevalence of Autism Spectrum Disorders — Autism and Developmental Disabilities Monitoring Network, 14 Sites, United States, 2008. Available at http://www.cdc.gov/mmwr/preview/mmwrhtml/ss6103a1.htm?s_cid=ss6103a1_w
Epilepsy

Prevalence (number of cases in a given population):

- *Epilepsy affects about 2 million Americans.*¹

Incidence (rate of new cases of a disease or condition):

- *About 140,000 new cases of epilepsy will be diagnosed in the United States each year.*¹
- *1 in 26 people will be diagnosed with epilepsy at some point in their lives.*¹
- *Every four minutes, a person is diagnosed with epilepsy.*²

Costs (patient care costs, lost wages, and lost wages of care givers):

- *Epilepsy results in an estimated annual cost of $15.5 billion in medical costs and lost or reduced earnings and production.*¹

NIH Funding:³

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¹CDC. Epilepsy Facts and Figures. Available at [http://www.cdc.gov/epilepsy/basics/fast_facts.htm](http://www.cdc.gov/epilepsy/basics/fast_facts.htm)


Multiple Sclerosis

Prevalence (number of cases in a given population):

- In the United States, there are estimated to be 400,000 people with MS.¹

Incidence (rate of new cases of a disease or condition):

- Arriving at an accurate incidence figure has been virtually impossible.²
- Every 60 minutes, a person in the United States is diagnosed with MS.³

Costs (patient care costs, lost wages, and lost wages of care givers):

- Total costs over 10 billion per year.¹
- Direct and indirect costs all in 2007 Int’l Dollars per person (an international dollar has the same purchasing power as the United States dollar has in the United States): Direct medical costs: $23,975; Direct non-medical costs: $7,844; Indirect costs: $18,888⁴

NIH Funding:⁵

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Parkinson’s Disease

Prevalence (number of cases in a given population):

- In the United States, at least 500,000 people are believed to suffer from Parkinson's disease.¹

Incidence (rate of new cases of a disease or condition):

- About 50,000 new cases are reported annually.¹
- The number of people with Parkinson’s disease is expected to double to 8.7 million by 2030.²

Costs (patient care costs, lost wages, and lost wages of care givers):

- Overall, the annual economic impact of PD in the United States is estimated at $10.8 billion, 58% of which is related to direct medical costs (O’Brien et al. 2009). Annual direct medical costs per patient with PD are estimated to be between $10,043 and $12,491, more than double that of patients without the disease (O’Brien et al. 2009, and Huse et al. 2005). Prescription drugs account for approximately 14% to 22% of costs, with nursing home care the largest component at approximately 41%. Annual indirect costs, including lost workdays for patients and caregivers, are estimated at $9,135.³

NIH Funding:⁴

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## Stroke

**Prevalence (number of cases in a given population):**

- An estimated 7,000,000 Americans ≥ 20 years of age have had a stroke (extrapolated to 2008 using NCHS/NHANES 2005 to 2008 data). Overall stroke prevalence during this period is an estimated 3.0%.

**Incidence (rate of new cases of a disease or condition):**

- Every year, more than 795,000 people in the United States have a stroke. Every four minutes, someone dies of stroke.

**Costs (patient care costs, lost wages, and lost wages of care givers):**

- In 2010, stroke cost the United States an estimated $53.9 billion. This total includes the cost of health care services, medications, and missed days of work.

**NIH Funding:**

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