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FACTS

Preventable. Treatable. Beatable.

Stroke in the U.S.

OVERVIEW

Stroke is the nation's No. 5 killer and a leading cause of both serious long-term disability and dementia. 1, 2 Each year, about 795,000 people suffer a stroke. Approximately 610,000 of these individuals have never experienced a stroke before, and almost 185,000 have a recurrent attack. 2 On average, someone in the U.S. has a stroke every 40 seconds, and every 4 minutes someone dies from one. 2 Stroke was the primary cause of about one in every 20 deaths in 2013. 3

As these facts illustrate, stroke is already a very serious problem – and as the baby boomers age, it is projected to get worse. There are currently 6.6 million American adults living with stroke, and the number is projected to increase by 3.4 million by 2030.^{4,5} The costs of treating stroke in the U.S. for 2012 were \$71.6 billion and are expected to triple to \$184 billion by 2030.⁵ Conservative estimates forecast that ischemic stroke alone will cost the U.S. an astounding \$2.2 trillion from 2005 to 2050.⁶

Certain segments of the population have a disproportionately high risk of stroke. African-Americans have almost twice the risk of a first-ever stroke as whites, and African-Americans and Hispanics are more likely to die after a stroke, compared to whites. Gender is also a factor. Each year, nearly 55,000 more women than men have a stroke, and stroke remains the No. 4 killer of women. Although stroke is often thought of as a disease of adulthood, it is among the top 10 causes of death in children and young adults between the ages of 5 and 19.1

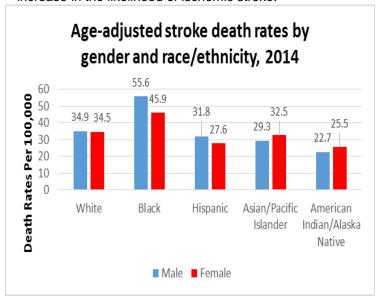
Despite these very sobering statistics, the good news is that nearly 80% of strokes can be prevented, and timely access to the latest therapies can greatly reduce disability from stroke.⁷

PREVENTING STROKE

Known, changeable risk factors, such as smoking, high blood pressure, lack of physical activity, diabetes, nutrition and atrial fibrillation (a condition where the upper chambers of the heart contract in an uncoordinated fashion and blood clots may form) are linked to an increased incidence of stroke.²

Reducing or eliminating these risk factors decrease the risk of stroke.

- Current smokers have a 2 to 4 times increased risk of stroke compared with nonsmokers or those who have quit for more than 10 years.²
- Diabetics with blood pressure <120/80 mm Hg have approximately half the lifetime risk of stroke compared to diabetics with hypertension.^{2,8}
- Physical inactivity is associated with an overall 20% increase in stroke risk.⁹
- A one-serving increase of sugar-sweetened beverage consumption is associated with a 13% increase in the likelihood of ischemic stroke.¹⁰



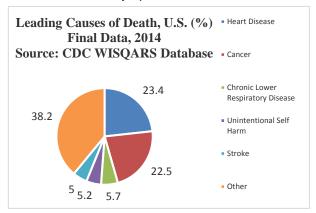
FACT SHEET: Stroke: Preventable, Treatable, Beatable,

TREATING & BEATING STROKE

A major advancement in the treatment of ischemic stroke was approved by the FDA in 1996—a clotdissolving drug called tPA. TPA can significantly reduce the debilitating effects of stroke if administered as soon as possible within 4.5 hours of symptom onset. In a study of nearly 1 million admissions for stroke in hospitals participating in the Get With The Guidelines-Stroke (GWTG-Stroke) program, fewer than 5% of patients overall were eligible for tPA.11

There are many reasons why treatment rates are so low - many of which can be addressed through public policy - but a major barrier is that patients often do not recognize the symptoms of stroke and do not arrive at the hospital in a timely manner.

- Only 51% of those surveyed in 2009 said they would first call 9-1-1 if they thought someone was having a stroke.2
- Only about 20% of women are able to identify sudden severe headache, dizziness, and sudden loss of vision as warning signs for stroke.¹²
- African Americans are nearly twice as likely as whites to have a first stroke, but fewer than half (47%) know at least five stroke warning signs. Error! Bookmark not defined.
- Only 27% of stroke patients arrive at the hospital within 3.5 hours of symptom onset.¹³



- Patients who receive tPA within 90 minutes of symptom onset are 25% less likely to die in hospital, 28% less likely to suffer intracranial hemorrhage, and 33% more likely to be discharged home.¹⁴ They are almost three times as likely to have favorable outcomes three months after a stroke than those who do not receive tPA. 15
- The development of "stroke systems of care", including the establishment of a primary stroke center, can significantly increase the proportion of patients who receive improved stroke care. Patients admitted to primary stroke centers were more likely to receive thrombolytic therapy and had lower 30-day mortality rates when compared with patients admitted to non-designated hospitals.16

- The use of tPA leads to a reduction of \$25,000 in lifetime costs per patient.¹⁷
- According to a recent study, about one-third of Americans live more than an hour away from a primary stroke center. 18 Telemedicine has proven to be very effective in the evaluation and treatment of acute stroke, including significantly increasing the use of tPA, in rural and neurologically-underserved areas.¹⁹
- Only about 30% of stroke survivors receive outpatient rehabilitation, which is lower than would be expected, if clinical practice guidelines for all stroke patients had been followed.^{2,20}

THE AHA/ASA ADVOCATES

The American Stroke Association, a division of the American Heart Association, urges policymakers to support the following policy recommendations for preventing stroke and improving the quality of care that stroke patients receive:

- Protect investments in prevention; Support the development and implementation of stroke systems of care, including via the use of telemedicine, such as the Furthering Access to Stroke Telemedicine (FAST) Act (S.1465/H.R. 2799), which would remove a reimbursement barrier to telestroke, specifically Medicare's rural originating site requirement.²¹
- Increase the National Institutes of Health's investment in stroke research, which currently constitutes only 1% of NIH's budget; and
- Improve access to needed stroke care, including rehabilitation, such as by supporting the Medicare Access to Rehabilitation Services Act (S. 539/H.R. 775).

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