



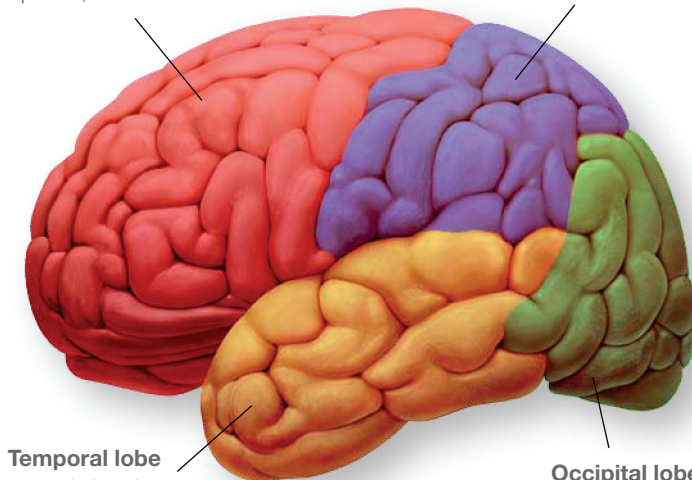
let's talk about

Changes Caused by Stroke

Your brain controls how you move, feel, communicate, think and act. Brain injury from a stroke may affect any of these abilities. Some changes are common no matter which side of the brain the injury is on. Others are based on which side of the brain the stroke injures.

Frontal lobe
controls personality, reasoning, parts of speech, and muscles

Parietal lobe
controls speech and sensation (touch and pressure)



Temporal lobe
controls hearing, speech, and short-term memory

Occipital lobe
controls vision

What are the most common general effects of stroke?

- Hemiparesis (weakness on one side of the body) or hemiplegia (paralysis on one side of the body)
- Dysarthria (difficulty speaking or slurred speech), or dysphagia (trouble swallowing)
- Fatigue
- Loss of emotional control and changes in mood
- Cognitive changes (problems with memory, judgment, problem-solving or a combination of these)
- Behavior changes (personality changes, improper language or actions)
- Decreased field of vision (inability to see peripheral vision) and trouble with visual perception

What are common changes with a left-brain injury?

- Paralysis or weakness on the right side of the body.
- Aphasia (difficulty getting your words out or understanding what is being said)
- Behavior that may be more reserved and cautious than before.

What are common changes with a right-brain injury?

- Paralysis or weakness on the left side of the body.
- One-sided neglect which is a lack of awareness of the left side of the body. It may also be a lack of awareness of what is going on to the survivor's left. For example, they may only eat from the right side of their plate, ignoring the left side.
- Behavior may be more impulsive and less cautious than before.
- It may be harder for the survivor to understand facial expressions and tone of voice. They also may have less expression in their own face and tone of voice when communicating.

What are common emotional effects of stroke?

- Depression
- Apathy and lack of motivation
- Frustration, anger and sadness
- Pseudobulbar affect, also called reflex crying or emotional lability (emotions may change rapidly)

(continued)



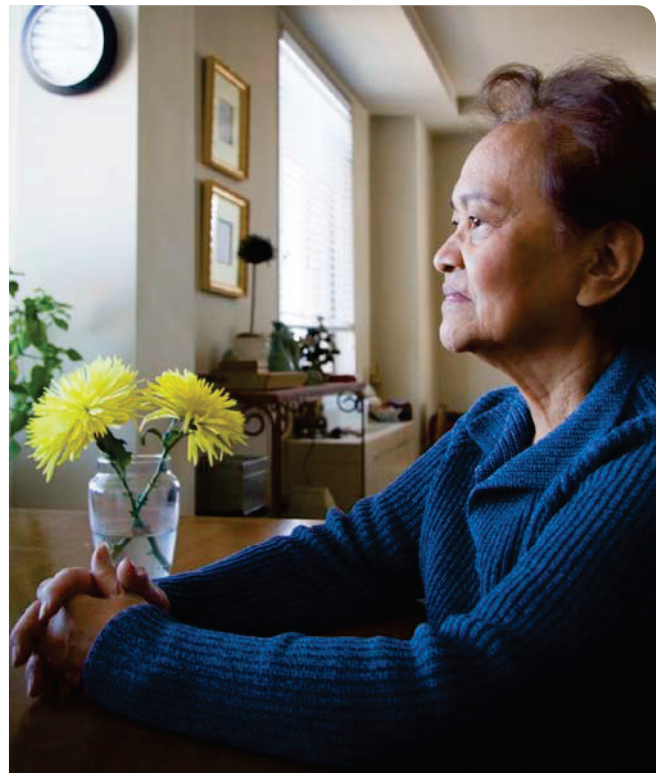
and sometimes not match the mood)

- Denial of the changes caused by the brain injury

Will I get better?

In most cases people do get better over time. The effects of a stroke are greatest right after the stroke. From then on, you may start to get better. How fast and how much you improve depends on the extent of the brain injury and your rehabilitation.

- Some improvement occurs spontaneously and relates to how the brain works again after it's been injured.
- Stroke rehabilitation (rehab) programs help you improve your abilities and learn new skills and coping techniques.
- Rehab begins after the stroke is over and you're medically stable.
- Depression after stroke can interfere with rehab. It's important to treat depression.
- Improvement often occurs most quickly in the first months after a stroke. Then it continues over years, perhaps at a slower pace, with your continued efforts.



Emotional changes such as depression are common effects of stroke, but most people do get better over time.

HOW CAN I LEARN MORE?

- 1** Talk to your doctor, nurse or other healthcare professionals. Ask about other stroke topics.
- 2** Call **1-888-4-STROKE** (1-888-478-7653) or visit us at **StrokeAssociation.org** to learn more about stroke.
- 3** Call the American Stroke Association's "Warmline" at **1-888-4-STROKE** (1-888-478-7653), and:
 - Sign up for *Stroke Connection*, a free magazine for stroke survivors and caregivers.
 - Talk to other stroke survivors and caregivers and find local support groups.

Do you have questions for the doctor or nurse?

Take a few minutes to write your questions for the next time you see your healthcare provider.

For example:

Can other areas of the brain help the damaged part of the brain?

How has my stroke affected me?

My Questions:

We have many other fact sheets to help you make healthier choices to reduce your risk, manage disease or care for a loved one. Visit strokeassociation.org/letstalkaboutstroke to learn more.

Knowledge is power, so Learn and Live!