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# Hemorrhagic Stroke

Kelsey Bigham  
*Parkland College*

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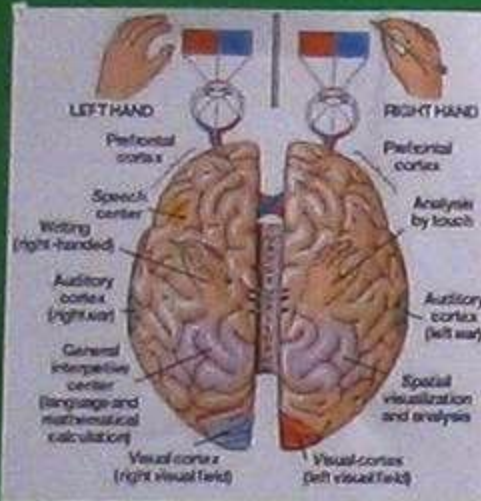
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# HEMORRHAGIC STROKE

**Hemiparesis:**  
 "hemi" - "one side"  
 "paresis" - "weakness"

Approximately 80% of individuals who experience a stroke show some degree of trouble moving one side, or suffer weakness on one side of their body.

Right-sided hemiparesis - injury to the left side of the brain.  
 Left-sided hemiparesis - injury to the right side of the brain.

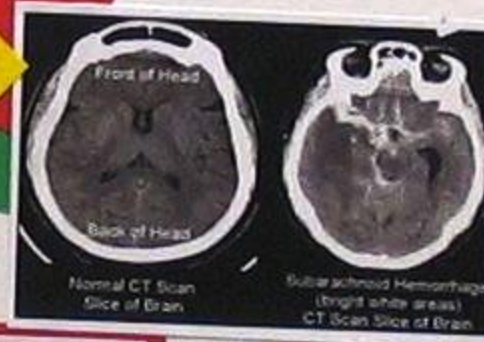
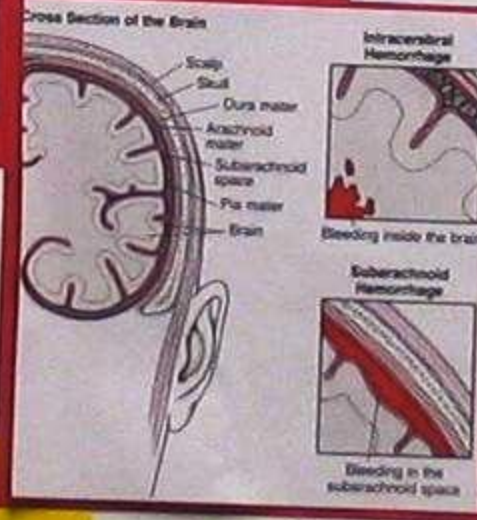


## Types of Hemiparesis

- Pure Motor Hemiparesis: face, arm, and leg weakness
- Ataxic Hemiparesis Syndrome: weakness or clumsiness of one side of body

## Types of Hemorrhagic Strokes

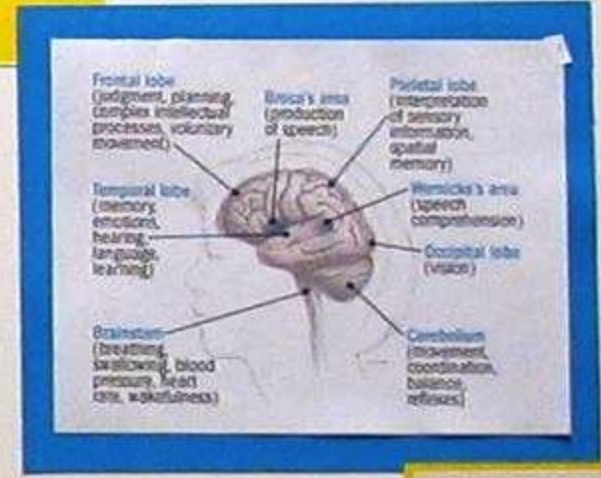
- Subarachnoid hemorrhage: when the bleeding occurs in the space between the brain's surface and the skull
- Intracerebral hemorrhage: when bleeding occurs within the brain tissue



## Symptoms Point to Stroke Location

- Right Hemisphere - paralysis on left side of body, difficulty reasoning or thinking and solutions to simple problems
- Left Hemisphere - paralysis on right side of body, disrupts ability to speak
- Cerebellum - lack of coordination, balance problems, muscular difficulties
- Brain Stem - involuntary functions essential to life

Respiratory System Affected



Nervous System Affected

Hemorrhagic strokes vary in degree of damage, location of bleed, and treatment following the incident. Sudden warning signs such as hemiparesis, should be addressed immediately so further bleeding can be prevented. Fortunately, in some cases, success throughout rehabilitation and other treatments can result in an individual regaining mobility, cognitive function, and ability to live life independently.

**Stroke - there's treatment if you act FAST.**



## Treatment

**Medications**  
 -antihypertensive drugs are administered to bring blood pressure down  
 -therapy drugs called hyperosmotic agents reduce swelling of surrounding brain tissue

**Surgery**  
 -aneurysm clipping: clip is placed on the affected artery to prevent future leaking of blood  
 -surgical arteriovenous malformation removal: if location isn't too deep, surgical removal of the arteriovenous malformation

**Rehabilitation**  
 -physical therapists: assist with strength, endurance and range of motion problems  
 -occupational therapists: help relearn skills needed to perform activities of daily living and fine motor skills

**Electrical Stimulation:** used to treat hemiparesis to strengthen arm and improve range of motion



## Warning Signs

- Headache with no known cause
- Sudden confusion
- Numbness or weakness of face, arms, or legs
- Blurred vision in both or one eye
- Trouble walking/lose or balance and coordination