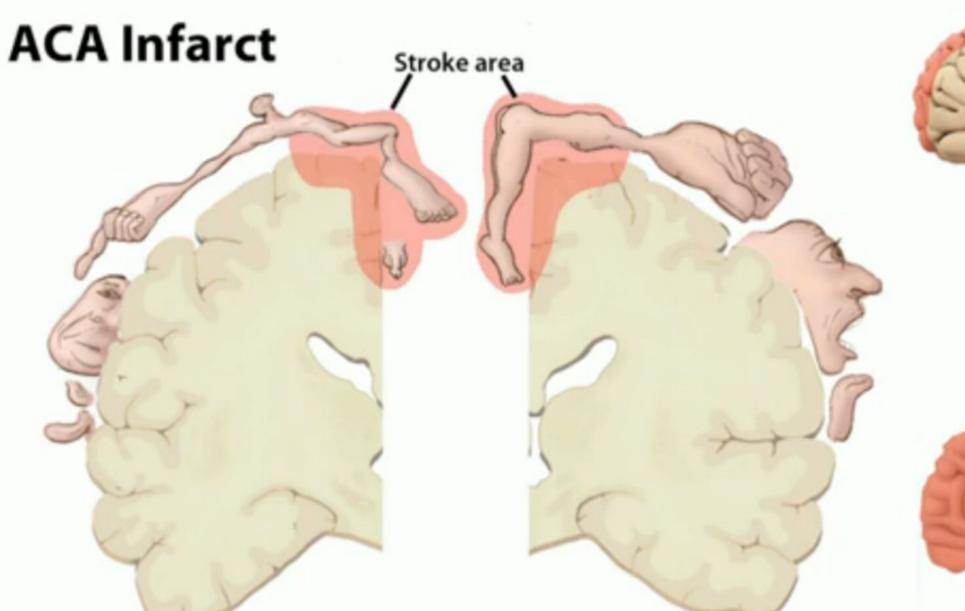
R CVA ACA

Effects on safety and emergency management

ANTERIOR CEREBRAL ARTERY

- Supplies the Anterior and inferior part of the frontal lobes
 - Control of Voluntary Movement
 - Thinking and Problem Solving
- Supplies part of the parietal lobes
 - Perception
 - Processing of sensation





Anterior cerebral artery supply



Sensory homunculus

Motor homunculus

(ETIOLOGY)

- Complication of several disorders
- Atherosclerosis—most common
- Hypertension, smoking, diabetes
- Heart disease Atrial fibrillation
- Other
 - Trauma fat embolism
 - Tumor infection

• Less common than MCA and PCA CVA's

- Falls, lack of judgment and problem solving
- Needs supervision
- Adaptive techniques for deficits in sensory perception and functions
- Personality changes
- Contralateral hemiplegia and hemiparesis to LE more than UE

PROGNOSIS

- Mortality rate is low
- Aphasias from ACA infarcts tend to improve within a short period.
- Recovery is possible, but not necessarily to the same level of function before the stroke.

CVA MEDICAL MANAGEMENT-

- Emergency treatment: open airway, establish fluid balance, and treat medical problems
- Give medications that help reestablish blood flow to the brain
- Decide if surgery is indicated to repair damaged blood vessels to reduce bleeding and prevent additional damage to cerebral tissues

- Positioning techniques
- Maintenance of full joint ROM and prevention of deformity
- Improve motor function
- Manage Tone
- Integrate sensory-perceptual and cognitive functions
- Facilitate maximum level of functional independence
- Encourage health management and maintenance behaviors to prevent recurrent stroke
- ADL and IADL performance
- Grading, adapting, and restoring

OT ROLE AND COMMON ASSESSMENTS

- Assess sensory system dysfunction
- Assess perceptual dysfunction
- Assess cognitive dysfunction
- Assess behavioral manifestations
- Assess Oral-Motor dysfunction

OCCUPATIONAL PROFILE

- Client is a 48 year old man who lives alone. Before his stroke, he worked in Tech support for a business office. He was very active, enjoyed playing slow pitch softball with his co-workers, and enjoyed cooking for himself and friends. He is single, but is still in occasional contact with his ex-wife. He has a history of smoking cigarettes and hypertension.
- He needs constant supervision for safety due to decreased processing skills, judgement and executive functioning.
- He looks forward to cooking, returning to work in some capacity, and enjoying leisure time with friends. He knows he has a long recovery ahead of him and wants to work hard.

IMPACT ON PATIENT'S PERFORMANCE PATTERNS, SKILLS AND DESIRED OCCUPATIONS

- Decreased control of voluntary movement
- Deficits in executive functioning and cognitive flexibility
- Decreased Safety and Emergency Management
- Difficulty processing sensory information
- Decrease independence in ADLs, IADLs, Work, Leisure, and Social Paricipation

IDENTIFICATION OF PRIMARY CLIENT FACTORS IMPACTING THE ASSIGNED PERFORMANCE SKILL AND OCCUPATION

- SAFETY AND EMERGENCY MANAGEMENT
- Higher-level cognitive functions are most effected.
 - Responding to emergencies, recognizing hazards, and taking action to reduce threat to safety
- Difficulty processing

STG:

 Client will identify 3 safety hazards in the kitchen in order to increase independence in Safety and Emergency Management requiring less than 3 verbal cues within 4 weeks.

CLIENT FACTOR: EXECUTIVE FUNCTIONS AND JUDGEMENT

- Practice Recognizing Potential Hazards in the Kitchen
- The environment will have 5 visible safety hazards and the client will be asked to find as many as they are able.
- Strategies to eliminate those hazards will be discussed.
- Verbal cues will be utilized as needed for safety.

ARTICLES.

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- <u>https://www.aota.org/Publications-News/otp/Archive/2015/06-15-15/stroke.a</u>
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