- concomitant medical and neurologic problems
- availability of technology and personnel to administer special types of treatment
- cooperation and reliability of the client

Early medical treatment:

- maintenance of an open airway
- hydration with intravenous fluids
- treatment of hypertension

DVT

- DVT is the formation of a blood clot (thrombus) in a deep vein, usually in the lower extremity
- a common risk in clients who have prolonged periods of bedrest and immobility
- incidence of DVT in individuals with stroke ranges from 22% to 73%
- Emboli that are released from deep veins and subsequently lodge in the lungs are referred to as pulmonary emboli
- Pulmonary embolism most common cause of death in the first 30 days after a stroke
- evaluation:
 - > daily evaluation of leg temperature
 - > color
 - > circumference
 - > tenderness
 - > appearance
- preventive treatments:
 - > medication
 - > use of elastic stockings
 - > use of reciprocal compression devices

 Respiratory problems and pneumonia
 CO.404

 - National Survey of Stroke reported that a third of clients who had sustained strokes also vial to biratory infections
 CO.404

 - Symptoms:
 > low-grade fever

 > increased lethargy
 13

 - Medical management:
 > administration of fluids and tribliotic

 > aggressive pulmonal vial stroke
 13

 - Ventilatory instificiency – major factor contributing to the migh fraction

 - Netilatory instificiency – major factor contributing to the migh fraction

- hemiparesis associated with stroke involves the muscles of respiration
 - > Exercise programs that involve strengthening and endurance training of both the inspiratory and expiratory muscles help improve breathing and cough effectiveness and reduce the frequency of pneumonia

Cardiac Disease

- stroke itself may cause the cardiac abnormality, or the client may have had a pre-existing cardiac condition
- former is treated in the same manner as any new cardiac diagnosis
- self-care evaluations:
 - > Monitoring of the heart rate
 - > blood pressure
 - > electrocardiogram (ECG)

Bowel and Bladder Dysfunction

- common
- Physician's responsibilities:
 - > ordering a specific bowel program that includes:
 - = time schedule
 - = adequate fluid intake
 - = stool softeners
 - = suppositories
 - = oral laxatives
 - = medications or procedures to treat fecal impaction

- timed or scheduled toilet program - essential in treating urinary incontinence

- Catheterization may be necessary during stroke rehabilitation

=Evaluation and Intervention Procedures for Clients Who Sustained a Stroke=

- location of the stroke is determined by: CT or MRI

Anomic Aphasia

- difficulty in word retrieval

- Anomia, or word-finding difficulty occurs in all types of aphasia.
- word-finding difficulty primary or only symptom may be said to have anomic aphasia
- > speech of these clients is fluent, grammatically correct, and well articulated but accompanied by significant difficulty in word finding - result in hesitant or slow speech and the substitution of descriptive phrases for the actual names of things.
- Mild to severe deficits in reading comprehension and written expression occur, and mild deficits in mathematic skills may be present

Dysarthria

- an articulation disorder
- absence of aphasia, because of dysfunction of the CNS mechanisms that control the speech musculature.
- This disorder results in paralysis and incoordination of the organs of speech, which causes the speech to: sound thick, slurred, and sluggish

Communication with Clients Who Have Aphasia

- use of gestures for communication should be encouraged
- client should be reassured that the language disorder is part of the disability, not a manifestation of mental illness
- strategies:
 - Understanding is facilitated when one person talks at a time. Extra noise creates confusion.
 - Give the client time to respond.
 - Carefully phrase questions to make it easier for the client to respond; for example, use "yes/no" and "either/or" questions.
 - Use visual cues or gestures with speech to help the client understand.
 - Never force a response.
 - Use concise sentences.
 - Do not rush communication because this may increase frustration and decrease the effectiveness of communication.

Inability to Perform Chosen Occupations Secondary to Neurobehavioral/Cognitive-Perceptual Impairments

Neurobehavioral Deficit - functional impairment of an individual manifested as defective skill performance resulting from a neurologic processing dysfunction that affects performance components such as affect, body scheme, cognition, emotion and language, memory, motor movement, perception, personality, sensory awareness, spatial relations, and visuospatial wills C ***Box 33-2 - number of task characteristics that differ from those of the original test of the spatial orientation
 - characteristics:
 > spatial orientation
 > mode of presentation (e.g. subibry (r.visual))
 > movement requirement to be any intervent of the spatial orientation
 - near transfer of learning

- > transfer between two tasks that have one or two differing characteristics
- > remedial tasks to similar tasks is possible for all clients with brain injury

- Intermediate transfer

> transfer of learning to a task that varies by three to six characteristics

> remedial to functional tasks will occur only in clients with localized brain lesions and good cognitive skills and after training with a variety of treatment tasks

<u>far transfer</u>

> task that is conceptually similar but has one or no characteristics in common

> remedial to functional tasks will occur only in clients with localized brain lesions and good cognitive skills and after training with a variety of treatment tasks

> remedial to functional tasks will not occur in clients with diffuse injury and severe cognitive deficits.

very far transfer

> spontaneous application of what has been learned in treatment to everyday living.

> remedial to functional tasks will occur only in clients with localized brain lesions and good cognitive skills and after training with a variety of treatment tasks

> remedial to functional tasks will not occur in clients with diffuse injury and severe cognitive deficits

Inability to Perform Chosen Tasks Secondary to Upper Extremity Dysfunction Loss of UE control

- common after a stroke

- 88% of clients who sustained a stroke having some level of UE dysfunction

Factors the affects the client's ability to integrate the affected arm

- 1. Pain
- 2. Contracture and deformity
- 3. Loss of selective motor control
- 4. Weakness
- 5. Superimposed orthopedic limitations