The Brain, The Body, and You: Behaviour

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Strategic learning for real results.

Objectives

- Review the impact stroke may have on
 - Behaviour
 - Personality
 - Emotions
 - Cognition
- Discuss strategies that may assist the stroke survivor with these changes to manage daily activities

Stroke Impact on Behaviour

Behaviour changes depend on

- Where in the brain the stroke occurred
- How severe the stroke was
- When the stroke occurred
- The patient's pre-stroke abilities and behaviours
- The loss of brain cells due to a stroke can change how a survivor acts or reacts in some situations

Personality Changes

- Stroke damage can decrease a survivor's emotional control and change the way a survivor relates to others
 - Behaviours may not match the survivor's feelings
 - Survivors may lose interest in things they previously enjoyed
 - Survivors may not realize how their behaviour affects others
 - Survivors may experience mood swings
 - Survivors may appear stubborn, demanding or selfish

Emotional Lability

- Emotional lability is a lack of emotional control
 - Responses may seem excessive
 - Emotional responses may not match the emotions the survivor is experiencing
- This can be upsetting for both the survivor and their families
- Ask if the emotion you are observing matches how the person is feeling
- Distraction can work to divert a survivor's attention to a new activity

Social Isolation

- Many survivors have difficulty adjusting and coping with their self image after a stroke
 - They may have low self esteem
 - They may lose confidence
 - They may feel sad, helpless and out of control of their lives
- This can cause them to stop doing things that were important to them
- Encourage a survivor to return to activities they enjoy
- Encourage participation in self-care to promote independence

Anger

- Often has a root cause
 - Inability to communicate or complete a task they used to do easily can cause frustration
 - Embarrassment after a toileting accident
 - Pain that causes helplessness and frustration
- Try to identify the cause of the anger and work with the survivor to find solutions
- Prevent outbursts through routines, explanations and support during potentially frustrating activities
- During an outburst remove the survivor from the situation or try to redirect their attention

Lethargy

- Survivors, particularly with damage to the right side of the brain, may appear to lack interest in daily or leisure activities
- Learn what interests the survivor and try to find a way they can participate
- Reinforce and support their attempts to participate
- If a survivor is not successful or refuses to participate encourage them to try again later

Social Judgment

- Social judgment is saying and doing the right thing in a given situation
- Personality changes can cause poor social judgment
- Problems with cognition can also contribute to poor social judgment
- Recognize and help the survivor to realize their limits
- Provide feedback to inappropriate behaviours in straightforward manner and offer alternatives
- Provide positive reinforcement to appropriate behaviours

• Behaviours changes can be also be due to

- Cognitive or perceptual problems
- Depression
- Communication challenges

Cognition

- Cognition refers to how we know things and how we think. It involves
 - Attention being able to concentrate for a period of time
 - Orientation being aware of person, place and time
 - Memory being able to retain and recall information
 - Insight knowing and understanding our abilities and limits
 - Judgment making good choices or decisions in line with our capabilities
 - Sequencing being able to arrange or perform actions in the right order
 - Problem solving recognizing a problem and finding a solution

- Cognitive problems are invisible barriers but have a major impact on a survivor's functional level and independence post-stroke
- Because there is no physical impairment we may not see the cognitive problem and over-estimate a survivor's abilities
 - People may assume a survivor is acting "this way on purpose" rather than an expectation that is too high

Attention

- Reduce distractions
- Give short and simple instructions
- Slow down and give the survivor more time to think

Orientation

- Post a calendar or use an agenda
- Use a board to post personal information and family pictures
- Limit changes to their schedule

• Memory

- Encourage use of memory aids (journal, agenda)
- Repeat important information
- Label drawers and keep things organized
- Insight
 - Keep the environment safe
 - Gently remind the survivor of the stroke and their subsequent limits
 - Provide the necessary amount of supervision

• Judgment

- Do not place the survivor in challenging situations as they may be unable to decide what action is safe
- Maximize environmental safety
- Impulsivity
 - Encourage the survivor to slow down
 - Divide tasks into steps
 - Provide clear and specific instructions

Sequencing

- Give step-by-step instructions
- Help the survivor to think through and plan the task
- Give the survivor the time necessary to complete the task, even if it takes a long time
- Repeat the task in the same way each time
- Problem-solving
 - Break the tasks into small steps
 - Provide cues
 - Help the survivor identify different ways of solving the problem and how they could approach the solution

Perception

- Perception refers to the way we understand our environment through processing and interpreting information from out senses
- Stroke can cause perceptual problems including
 - Time awareness
 - Spatial relation
 - Neglect
 - Apraxia
 - Perseveration
 - Vision problems

Time awareness

- Link events together
- Review the daily schedule
- Maintain a consistent schedule
- Use a digital or talking clock
- Spatial relations
 - Keep safety in mind decrease clutter, use assistive devices or reminders
 - Encourage practice and repetition

• Visual neglect

- Provide stimulation of the affected side
- Approach on the unaffected side and move to the affected side
- Encourage scanning the environment
- Unilateral body neglect
 - Use the affected arm in daily activities as possible
 - Position the affected limb so the survivor can see it
 - Gently rub the affected arm to stimulate awareness
 - Encourage the survivor to position the limb themselves

Apraxia

- Use short simple instructions
- Break the task down into small steps
- Encourage repetition and practice of activities
- Provide hand-over-hand guidance if necessary

Perseveration

- Plan the task with the survivor and break it down into steps
- If the survivor gets stuck on a step help them move on to the next step

• Visual problems

- Encourage scanning
- Place items on the affected side to increase the survivor's awareness of the visual space
- Encourage the survivor to turn their head toward the affected side

