


Title page



**NC Department of
Health and Human Services
NC Nurse Aide I Curriculum**

**Module R
Cognitive Changes Due to Aging**

July 2024

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Objectives

1. Discuss the healthy aging brain
2. Identify cognitive changes due to aging
3. Describe the importance of pacing and patience while delivering care to the older adult

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Cognition


- Refers to the mental processes involved in thinking, learning, understanding and remembering
- Messages sent to the brain from the five senses are:
 - changed
 - stored in memory
 - recovered from memory
 - used to answer questions
 - used to respond to requests
 - used to perform tasks
- Cognitive function is related to use

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Module R Handout 2

The Healthy Aging Brain



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Learning in the Older Adults

- The gaining of information, skills, and knowledge
- Older adults learn easier and better when they can set their own pace
- Learning is dependent on memory
- Memory involves the storing of information in the brain for later use

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“Use It Or Lose It”




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Module R Handout 3

Cognitive Changes Due to Aging

- Size of neurons (brain cells) progressively decrease
- Total brain mass decreases
- Responses slow down
- Increased learning time needed



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Cognitive Changes Due to Aging

- Mild short-term memory loss
- Motivation to learn decreases
- Feels threatened when changes are evident in public
- Challenged by more than one task or more than one request
- Unable to ignore external stimuli while performing basic tasks

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Understanding Reaction Time

Changes in reaction time vary from person to person Decreases gradually

May be impaired by aging process, sensory deficits or chronic disease

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Module R Handout 4


Reaction Time in Older Adults

- Responses slow down
- Increased time for learning new activities
- More difficulty in re-learning motor skills
- Decreased ability to process conversation
- Decreased reaction time

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Reaction Time in Older Adults




- More deliberate, less frequent responses
- Less effective performance when pace is fast
- Easily confused at times

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Workload of the Nurse Aide



Nurse Aides have multiple tasks to accomplish in a short period of time

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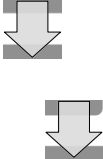
Module R Handout 5

Effects of a Fast-Paced Environment for an Older Adult

Resident's ability to learn, perform a task, or maintain motivation can be negatively affected in a fast-paced environment.

Residents are more cautious and less willing and able to respond quickly


Residents may be less willing to complete task due to fear of failure



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Social Breakdown Syndrome



- Occurs if a resident is rushed or not allowed enough time to complete tasks
- Blames self for not being able to keep up
- Begins to feel incompetent with decrease in self-esteem

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Social Breakdown Syndrome

Society becomes impatient with those who cannot keep up




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Module R Handout 6

Effective Responses by the Nurse Aide

Pacing and patience can be used to offset the effects of a resident's slowed reaction time




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Pacing and Patience

Residents who are encouraged to set their own pace:

- Are better able to perform or learn new things
- Will establish enough time to use assets to the best of their abilities
- Feel better about themselves, competent, and in control



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Role of Nurse Aide

- Inform resident of the task ahead of time
- Relate new information or tasks with the past
- Identify supplies and equipment needed to complete a task
- Demonstrate for the resident what is to be done

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Module R Handout 7

Role of Nurse Aide

- Ensure hearing aid(s) are in place, glasses are clean and properly worn
- Slow down pace when working with residents
- Allow the resident to set the pace
- Provide time for the resident to focus

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The End

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