

Collaborative Approach to Activity and Wellness for Individuals with Dementia

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Aegis Therapies



#### **LEARNING OBJECTIVES:**

#### PARTICIPANTS WILL BE ABLE TO...



- Articulate how team members can work together to develop wellness programs for individuals with cognitive impairment
- Identify various tools that can help develop optimal wellness programs for patients with cognitive impairment based on the patient's cognitive level
- State various options/strategies for failure-free programming and anticipated outcomes



#### **AGENDA**

- 1. Legislative update
- 2. Prevalence of cognitive disorders
- 3. Cognitive testing and Allen Cognitive Levels
- 4. Collaborative rehab follow-up protocol
- 5. Failure-free programming
- 6. Case studies



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# REFORM OF REQUIREMENTS FOR LONG-TERM CARE FACILITIES' PARTICIPATION IN MEDICARE AND MEDICAID



- Final Rule of Participation for SNFs<sup>1</sup>
- Published in the Federal Register on October 4, 2016
- Includes much related to cognition, behavioral issues and person-centered care

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# Older Adults: Psychotropics and Non-pharmacological Approaches



- A psychotropic drug is any drug that affects brain activities associated with mental processes and behavior. These drugs include anti-psychotics, anti-depressants, anti-anxiety, medications and hypnotics.
- Each resident's drug regimen must be free of unnecessary drugs.





### NON-PHARMACOLOGICAL APPROACHES TO ANTIPSYCHOTIC MEDICATION REDUCTION



#### $Some\ CMS\ examples^2 of\ non-pharmacological\ approaches:$

- Addressing underlying causes of distressed behavior such as boredom and pain
- Using sleep hygiene techniques and individualized sleep routines
- Accommodating behavior and needs through activities reminiscent of lifelong work or activity patterns (such as providing early morning activity for a farmer who is used to waking up early)



NON-PHARMACOLOGICAL APPROACHES	TC
ANTIDEVCHOTIC MEDICATION PEDILICTION	N



#### Some CMS examples<sup>2</sup> of non-pharmacological approaches:

- Enhancing the taste and presentation of food, assisting the resident to eat, addressing food preferences, and increasing finger foods and snacks for an individual with dementia to avoid unnecessary use of appetite stimulating medications
- Individualizing toileting schedules to prevent incontinence and to avoid the use of incontinence medications that may have significant adverse consequences (e.g., anticholinergic effects)
- Increasing the amount of exercise, intake of liquids and dietary fiber, and an individualized bowel regimen to prevent or reduce constipation and the use of medications (e.g., laxatives and stool softeners)

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# Non-Pharmacological Approaches to Antipsychotic Medication Reduction (continued)



#### More CMS examples<sup>2</sup> of non-pharmacological approaches:

- Developing interventions specific to interests, abilities, strengths, and needs, such
  as simplifying or segmenting tasks for a resident who has trouble following
  complex directions
- Using massage and hot/warm or cold compresses to address pain or discomfort
- Arranging staffing to optimize familiarity and consistency for a resident with symptoms of dementia



#### A FEW ASSESSMENT TOOLS



- Nursing Home Behavior Problem Scale (NHBPS)
- Independent Living Skills Survey (ILSS and ILSS-SR)
- Allen Cognitive Level Tests
  - o Allen Cognitive Level Screen (ACLS-5 and ACLS-6)
  - o Routine Task Inventory (RTI)
  - o Sensory Motor Assessment
  - o Allen Diagnostic Module
- Cognitive Performance Test
   Geriatric Depression Scale (GDS)
- Interest Checklist/Modified Interest Checklist
- Hamilton Anxiety Scale (HAM-A)
- Montreal Cognitive Assessment (MoCA)

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#### PREVALENCE OF ALZHEIMER'S DISEASE



- 5.7 million Americans have Alzheimer's Disease
- 1 in 10 people over 65 have Alzheimer's or a related type of dementia
- Older African Americans and Hispanics are more likely than older white people to have Alzheimer's Disease and other types of dementia
- 6TH LEADING CAUSE OF DEATH IN THE UNITED STATES
- Future estimates of Americans age 65 and older:
  - o 2020: 14 million
- Every 65 seconds someone in the U.S. develops this disease
  - (Alzheimer's Association, 2018) <sup>3</sup>

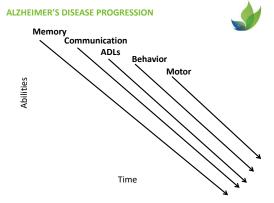


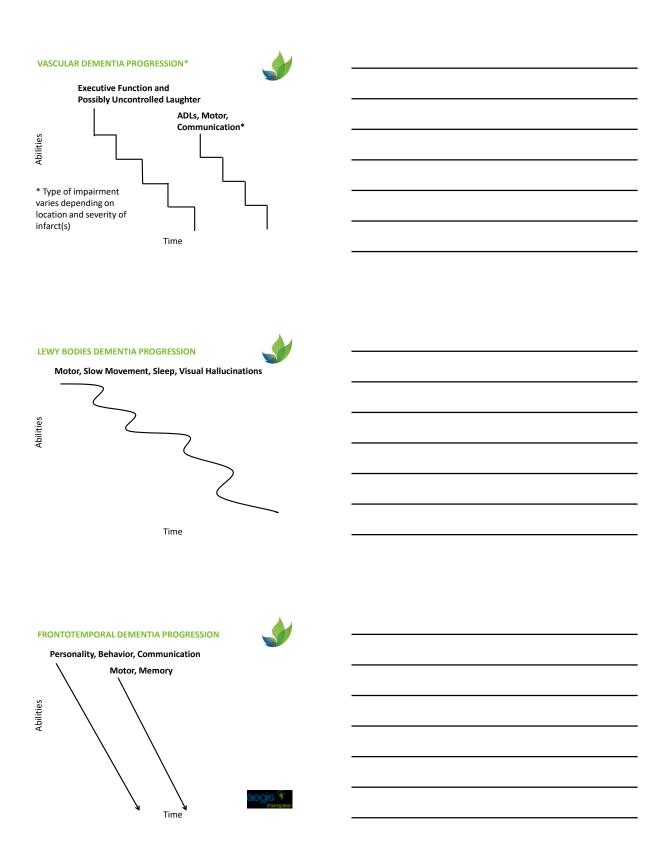
### PROGRESSION OF ALZHEIMER'S AND RELATED DEMENTIAS

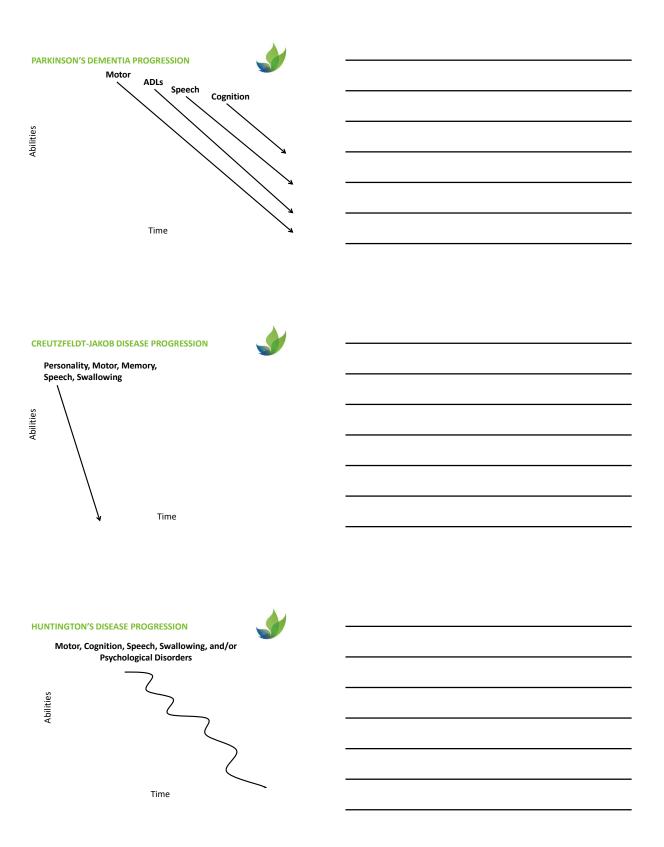


Type of Dementia	Progression
Alzheimer's disease	Gradual onset and progression; memory loss occurs before communication and personality changes
Vascular dementia (such as multi- infarct dementia)	More abrupt onset with stepwise progression
Dementia with Lewy bodies	Fluctuating course
Frontotemporal dementia (including Pick's disease and primary progressive aphasia)	Communication and personality changes occur before motor and memory loss









CHRONIC TRAUMATIC ENCEPHALOPATHY			
PROGRESSION  Cognition, Emotion, Motor, Speech, Hearing		9	
wotor, speech, nearing	5		
Abilities			
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Time	aogis		
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COGNITIVE DEFICITS			
Other conditions and disease processes can contribute to the deve cognitive deficits, such as:	elopment of		
Mild cognitive impairment (MCI)     Parkinson's disease     Traumatic brain injury			
Cerebrovascular accident (CVA)/stroke     Multiple infarct dementia     Chronic obstructive pulmonary disease (COPD)		-	
Schizophrenia and other mental health disorders	400/ full :		
<ul> <li>Physicians may be unaware of cognitive impairment in more that cognitively impaired patients. <sup>4</sup> Therefore, the cognitive impairm diagnosed!</li> </ul>		-	
	thursquiese		
MILD COGNITIVE IMPAIRMENT (MCI)			
Alzheimer's Associat	tion: A slight		
but noticeable and r decline in cognitive a including memory ar	measurable abilities,		
skills. A person with increased risk of dev Alzheimer's or anoth	MCI is at an veloping		
It is important to inc appropriate cognitiv for patients with MC	lude e programming		
retain function as lot			

#### MCI RISK FACTORS

#### From the Mayo Clinic<sup>6</sup>:

- Age
- Specific gene (APOE-e4), which is also linked to Alzheimer's disease
- Diabetes
- Smoking
- Depression
- · High blood pressure
- Elevated cholesterol
- Lack of physical exercise
- Infrequent participation in mentally or socially stimulating activities









#### **BRAIN HEALTH**



- Promoting brain health through proper nutrition, adequate sleep, stress reduction, medication management, and exercise is important for adults.
- Exercise is important for brain health:
- Physical exercise
- Cognitive exercise





# PREVALENCE OF COGNITIVE DEFICITS IN VARIOUS SETTINGS



- Agee & Holt (2009)<sup>7</sup>:
- Skilled nursing facilities: 69%
- Assisted living facilities: 45–67%
- Adult day care centers: At least 50%
- Home care: Approximately 37%
- The Indianapolis Study of Health and Aging (published in 2001)<sup>8</sup> found that cognitive impairment short of dementia affects nearly one in four community-dwelling elders and is a major risk factor for later development of dementia.





TI	HE OPTIMAL T	EAN
	Patient	

PhysicianFamily

Executive Director/Administrator

Recreational Therapist

Activities Department

Wellness Coordinator

Fitness Coordinator or Personal Trainer

Nursing (Nurse, CNA, Restorative Nurse)

• Dietitian





#### THE OPTIMAL TEAM (CONTINUED)

- Social Services Director
- Volunteers
- Minister or Spiritual Leader
- Rehab
  - o Physical Therapist and Physical Therapist Assistant
  - o Occupational Therapist and Occupational Therapy Assistant
  - o Speech-Language Pathologist

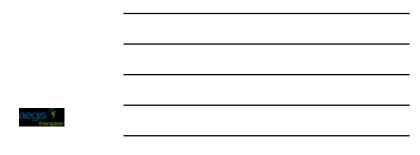


# COLLABORATIVE PARTNERSHIP WITH THE REHAB TEAM



The rehab team obviously plays an important role in developing optimal programming for patients with cognitive dysfunction that is:

- Patient-specific
- Patient-centered



THE SEVEN DIMENSIONS OF WELLNESS  Dimonsions of wellness  The seven dimensions of wellness  Dimonsions of wellness  Dimonsions of wellness	
VALUE OF COGNITIVE TESTING     The choice of cognitive test is important in providing a comprehensive understanding of the cognitive deficit and also pointing to beneficial activities and approaches.	
Some screens can be performed by many team members, such as:     Mini-Mental Status Exam (MMSE)     Clock Draw Test     Brief Interview of Mental Status (BIMS)     Global Deterioration Scale (GDS)     Montreal Cognitive Assessment (MoCA)	
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VALUE OF COGNITIVE TESTING (CONTINUED)9	
Some tests can be performed by therapists with specific training, such as:     Allen Cognitive Levels     Allen Cognitive Level Screen (ACLS) 5 or 6     Allen Diagnostic Module (ADM)     Routine Task Inventory (RTI)     Sensory Motor Assessment (SMA) — in development     Cognitive Performance Test (CPT)     Functional Linguistic Cognitive Inventory (FLCI)     Arizona Battery of Communication Disorders of Dementia (ABCD)	
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- A model for evaluation and intervention
- Hierarchy of cognitive processing skills
- Measures the severity of the cognitive disability
- Shows what the patient can do
- Points to potential function associated with the cognitive level and appropriate setting (predictive)
- Indicates treatment activities and approaches beneficial at the cognitive level
- Provides valuable information for many disciplines, professionals, and family

  members.



### **POP QUIZ**

Name two cognitive tests or screens

#### **POP QUIZ**

#### Name two cognitive tests or screens.



- ✓ Mini-Mental Status Exam (MMSE)
- ✓ Clock Draw Test
- ✓ Brief Interview of Mental Status (BIMS)
- ✓ Allen Cognitive Level Screen (ACLS)
- ✓ Allen Diagnostic Module (ADM)
- ✓ Routine Task Inventory (RTI)
- ✓ Sensory Motor Assessment (SMA)
- ✓ Cognitive Performance Test (CPT)
- ✓ Functional Linguistic Communication Inventory (FLCI)
- ✓ Arizona Battery of Communication Disorders of Dementia (ABCD)
- ✓ Montreal Cognitive Assessment (MoCA)




ALLEN		



There are six levels and there are modes within each level:

- Level 1: Automatic Actions
- Level 2: Postural Actions
- Level 3: Manual Actions
- Level 4: Goal-Directed Actions
- Level 5: Independent Learning
- · Level 6: Planned Actions
- Descriptions of levels are currently being modified by Claudia Allen and will be available in the ACIS-6



# ALLEN COGNITIVE LEVELS: DEVELOPMENTAL AGE COMPARISON



Level	Allen Title	Stage	Developmental Age Comparison
Level 1	Automatic Actions	Advanced	Infant to 11 Months
Level 2	Postural Actions	Late	12 to 18 Months
Level 3	Manual Actions	Middle	18 Months to 3 Years
Level 4	Goal-Directed Activity	Early	4 to 10½ Years
Level 5	Independent Learning	MCI	Teens to Early 20s
Level 6	Planned Actions	Normal	25 Years +



### ACL MODES



Therapists use modes within Allen levels to further delineate cognitive ability. For example:

- Level 1 Automatic Actions
- 1.0 Withdraws from stimuli
- 1.2 Responds to stimuli
- 1.4 Locates stimuli1.6 Moves in bed
- 1.8 Raises body parts





CAN DO, WILL DO, MAY DO	
Can Do  Realistic abilities	
Based on cognitive level, motor skills, physical capacity, sensory skills	
<ul><li>Will Do</li><li>Psychologically relevant to that person</li></ul>	
Influenced by culture, values, history, and interests	
May Do  Potential abilities influenced by the environment and support structure	
Influenced by legal factors, educational level, and employment history     Ideal considerations for a treatment program	
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ACTIVITY ADAPTATION TO FACILITATE	
BEST ABILITIES	
<ul> <li>Identify activities of interests</li> <li>Adapt activities based on cognitive level, motor skills, sensory stills</li> </ul>	
Considerations for adaptations include:            New learning abilities	
Attention span     Ability to scan environment	
Awareness of purpose/goal     Quality of work	
o Problem solving	
o Social/psychosocial	
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ACTIVITY ADAPTATION TO FACILITATE	
BEST ABILITIES (CONTINUED)	
Considerations (continued)  • Environmental	
Activity engagement and ability to attend or initiate     Ability to select an activity	
Ability to follow directions     Response time	
response time	

### Activity Analysis/Adaptation<sup>13</sup>

Component	Early	Middle	Late	Advanced
New Learning Ability	May learn with repetition over a period of time if activity is highly valued, simple, concrete, valued,	Questionable with new activity; should be presented each time and broken down into one	Unable to learn new activity	N/A; may be unable to physically engage in the activity
	or 2-3 steps	step		
Attention Span	Minimum of 20 minutes, requires one to two verbal and/or visual cues	5-20 minutes, intermittent verbal cues	Needs content cueing; may be unable to attend	Requires constant cueing
Environmental Scanning  Adapted with written Warchol	Materials and supplies placed 24 inches in front	Materials and supplies placed 14 inches in front; will attend to leader 3 to 6 feet in front or beside	front; position	Materials need to be directly in front; will require 1:1 with most activities

### Activity Analysis/Adaptation<sup>13</sup>

Component	Early	Middle	Late	Advanced
Awareness of Purpose or Goal	Some awareness of object of game, goal, purpose, or object to be made; may benefit from	Unaware of object of game, goal, or purpose, but aware of actions to be performed as part of the	No awareness of game, purpose, or goal; may respond to actions or stimulus with	No awareness of purpose or goal; may demonstrate subtle response to stimuli
	sample	activity.	gross movements, change in posture, or minimal verbalizations	
Adapted with writt from Kim Warchol	en permission			

### Activity Analysis/Adaptation<sup>13</sup>

Component	Early	Middle	Late	Advanced
Communication Abilities	Able to read out loud and to self but limited comprehension; can write; speaks in phrases; can share stories	Can read a few words without comprehension; may be able to write name; speaks in short phrases	Can speak a few words or short phrases; unable to read or write	May respond with facial expressions; nonverbal
Physical Attributes  Adapted with written Kim Warchol	Gross and fine motor movements are functional; may get lost and not recognize hazards	Gross movement OK; fine motor movements may be slow, but able to grasp	Gross movement of arms present but may need cues; fine motor skills limited to holding objects placed in hands	May demonstrate reflexive grasp when objects placed in hand; minimal arm, leg, and head movement

### Activity Analysis/Adaptation<sup>13</sup>

Component	Early	Middle	Late	Advanced
Quality of Work	Cues to clean up and to point out minor errors	Frequent cueing for clean-up, which may lack thoroughness or quality	No awareness of quality	N/A
Problem Solving	Situations presented need to be familiar and concrete; need assistance for minor problems	Unable to solve most problems; will need help from others or caregiver	Unable; will need to be solved by others	N/A
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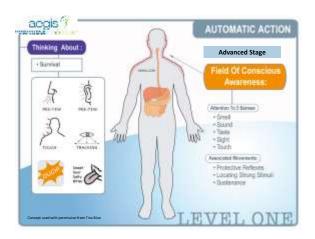
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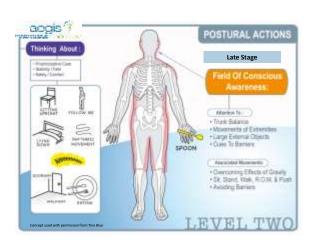
Component	Early	Middle	Late	Advanced
Sequencing	Assistance needed for new activity one step at a time; can sequence familiar tasks	Assistance for each step for most activities one step at a time	Total assistance to perform one-step actions	N/A; patient unable to perform activities with multiple steps
Adapted with wri	Can take turns; able to participate in group/social activities; may be blunt or interrupt; may be territorial and attempt to protect perceived possessions tten permission from	Can take turns with cues; may need cues or assistance to interact; may be able to engage in conversations with cues	Can interact with others with one-on- one cueing; can demonstrate some verbalization with cues; only minimal awareness of	May smile or grunt with stimulation

### Activity Analysis/Adaptation<sup>13</sup>

Component	Early	Middle	Late	Advanced
Ability to Attend or Initiate an Activity or Engagement	Is aware activity is occurring; may express interest in attending; can use activity calendar with assistance; may need assistance to locate activity	Is not aware activity is occurring; may express limited interest to participate in valued activity	Will need others to select activities based upon past interests and abilities	Able to respond to sensory stimulation activities in group or one- on-one situation
Ability to Follow Directions	Able to follow simple verbal directions; can read but written directions can not be depended upon to convey information	Able to follow simple one-step verbal directions; may require a demonstration to perform the action	Can follow simple one-step directions with hand-over- hand assistance or demonstration; most will require one demonstration to perform an action	Severely impaired, but may make simple movement with simultaneous verbal and hands-on
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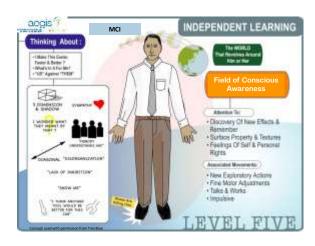
#### Activity Analysis/Adaptation<sup>13</sup>

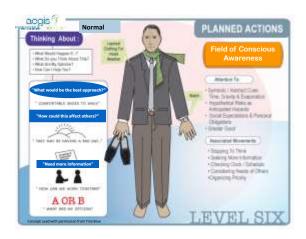












### **POP QUIZ**

- 1. How many Allen levels are there?
  2. At what Allen level would you move objects for the patient to visually track them?
  3. At what Allen level do patients like to fiddle with their hands?
  4. At what Allen level do patients usually live in the community but lack inhibition?

#### POP QUIZ



#### Based on what you know so far...

- 1. How many Allen levels are there? 6 levels
- At what Allen level would you move objects for the patient to visually 2. track them? ACL 1
- 3. At what Allen level do patients like to fiddle with their hands? ACL 3
- At what Allen level do patients usually live in the community but lack



WHAT ABOUT YOU?				





- We will discuss several options and ideas for programs.
- ✓ If you were the patient, think about what would appeal to you.
- Keep track of activities that would interest you.



#### LIFE HISTORY



Find out specific detailed information about the patient and his/her history, such as:

- o Family
- o Home and neighborhood
- o Occupation, habits, and leisure
- o Likes, dislikes, and daily routine





### ADVANCED DEMENTIA



Even persons who have severe cognitive deficits still have some remaining abilities.
 It is important to identify those strengths and understand the person's history in order to provide programming to maintain those skills.





#### SENSORY MOTOR ASSESSMENT



- Aegis Therapies is developing the Sensory Motor Assessment (SMA) as an update to previously available Allen materials
- The goal is to develop a standardized cognitive assessment tool for low level patients using the Allen Cognitive Disability Model





# SENSORY MOTOR ASSESSMENT: ITEMS NEEDED (CONTINUED)



No	Levels Tested				
Item	0	1	2	3	
Stopwatch	Х	Х	Х	Х	
	SMELL				
Cotton swabs	Х	Х			
Garlic paste	Х	Х			
Onion juice	Х	Х			
Peppermint		Х			
Patient's cologne		Х			
Ground cinnamon		Х			
Black coffee		Х			



# SENSORY MOTOR ASSESSMENT: A LOOK INSIDE



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- Aegis Therapies has developed a protocol that promotes collaboration between
  the therapist and the individual(s) who will implement the follow-up plan for brain
  health.
- 10-day protocol, which can be customized
- Goal is to facilitate the best ability to function through meaningful activity
- Plan is derived from observation, interview, and collaboration
- Results in a follow-up plan that is agreed upon by all parties
- Return demonstration by the activity collaborator

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# COLLABORATIVE REHAB FOLLOW-UP PROTOCOL (CONTINUED)



Day	Therapist's Activity						
Day 1	Listen to concerns of patient and caregiver.						
Day 2	Review activity section of medical record and have patient, family or caregiver complete the Interest Checklist. Determine previous occupation.						
Day 3	Complete cognitive and motor testing.						
Day 4	Work with caregiver and patient to conduct environmental assessment, complete My Way <sup>14</sup> , and implement behavior mapping as needed.						
Day 5	Review and discuss draft rehab follow-up plan with caregiver and patient.						



# COLLABORATIVE REHAB FOLLOW-UP PROTOCOL (CONTINUED)



Day	Therapist's Activity				
Day 6	Determine who will actually implement the follow-up (CNA, nurse, Activities Director, Wellness Coordinator, family member, volunteer, etc.), conduct training and provide feedback.				
Day 7	Determine additional components for the follow-up plan and conduct training as indicated.				
Days 8 and 9	Have collaborator provide return demonstration and determine patient outcome. $ \\$				
Day 10	Incorporate final plan into medical record and have collaborator				



# COLLABORATIVE REHAB FOLLOW-UP PROTOCOL FOR HOME HEALTH



Day	Therapist's Activity					
Day 1	Listen to concerns of patient and caregiver. Review activity section of medical record and have patient, family or caregiver complete the Interest Checklist. Determine previous occupation. Complete assessment including cognitive and motor testing.					
Day 2	Work with caregiver and patient to conduct environmental assessment, complete My Way <sup>14,</sup> and implement behavior mapping as needed. Review and discuss draft rehab follow-up plan with caregiver and patient.					
Day 3	Determine who will actually implement the follow-up (family member, volunteer, neighbor etc.), conduct training and provide feedback.					
Day 4	Determine additional components for the follow-up plan and conduct training as indicated. Determine additional components for the follow-up plan and conduct training as indicated.					
Day 5	Assess follow though and prepare for discharge. Incorporate final plan into medical record and have collaborator continue implementation.					

# COLLABORATIVE REHAB FOLLOW-UP PROTOCOL (CONTINUED)



- Unique aspects of the protocol
  - Involves the patient/caregiver from the beginning with development of the program
  - Determines patients' interests through Interest Checklist  $^{\rm 14}$  and My Way  $^{\rm 15}$
  - Incorporates a broader definition of who could be the collaborator for follow-up
  - Obtains return demonstration



### ONGOING INVESTIGATION



- •Investigation used a mixed methods analysis of data
- Feedback from therapists and collaborators on the surveys indicated patient positive results including
  - oincreased social interaction/ smiling and talking
  - ·leaving their room more often
  - °sleeping in a chair less often
  - oincreased awareness and orientation
  - $^{\circ}\text{expressing}$  needs and wants
  - °demonstrating increased accuracy with 1-step directions



ONGOING		
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- Collaborators indicated that the protocol assisted them in understanding the importance of
  - · brain health
  - understanding how to implement the maintenance plan
  - providing a return demonstration to show comprehension of their role.
- One month after the end of treatment, Activity Directors indicated that the maintenance plans were still being used 3x/wk

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		100

### ONGOING INVESTIGATION



- · Continuing to collect data
- · Currently have additional data on over 40 clients
  - · In process of receiving post treatment data



#### **FUTURE PLANS**



- Continue to collect data for current Investigation
  - Gather and analyze data 2 months post rehab discharge
  - Add more facilities to the Investigation
  - Correlate gains with severity of cognitive deficit
- Compare informal, approximate cognitive level scores to actual Allen Cognitive Levels
  - Determine relationship between these scores and the newly proposed high/low Allen Cognitive Level profiles
- Collect data regarding impact of cognitive treatment and maintenance programs on reduction of psychotropic medication use
- Collect outcomes data for skilled maintenance services



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- Failure-free activities must:
  - ✓ Be fun
  - ✓ Have no wrong answers
  - ✓ Encourage participation
  - ✓ Provide positive feedback
  - ✓ Stimulate language and cognition

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#### BENEFITS OF FAILURE-FREE PROGRAMMING



↓ Falls	↓ Pilfering	→ Patient to patient altercations
↓ Negative behaviors	↓ Required medications	↓ Rate of cognitive decline
↑ Patient self- esteem	↑ Family satisfaction with patient outcomes	↑ Staff awareness of patient attributes



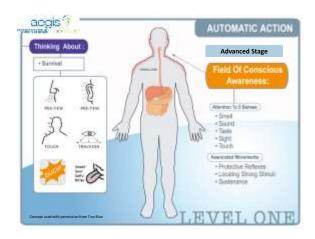
#### WHAT ABOUT YOU?



What are some failure-free activities that you use in your facility?

- The key is that failure-free activities must:
  - ✓ Be fun
  - ✓ Have no wrong answers
  - ✓ Encourage participation
  - ✓ Provide positive feedback
  - ✓ Stimulate language and cognition

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#### **ALLEN LEVEL 1 ACTIVITIES**



#### Feeling Textures

- Materials: Large container, small items such as beans, rice, beads, macaroni, sand or birdseed
- Directions: Fill up a large container with beans, rice, beads, macaroni, sand or birdseed (can be mixed). Place the patient's hand in the container and pour, sift or move the rice side to side.



#### **ALLEN LEVEL 1 ACTIVITIES (CONTINUED)**



#### Tracking with Eyes

- Materials: Contrasting colors of construction paper, scissors
- Directions: Cut a red circle out of construction paper. Glue the circle to a piece of
  white or black construction paper. Place the paper in front of the patient about 14
  inches away from face. Encourage the patient to look at the paper and follow it
  with his/her eyes as you slowly move it left to right and up and down. Any
  contrasting color will suffice.



#### **ALLEN LEVEL 1 ACTIVITIES (CONTINUED)**



#### Different Smells

- Materials: Several small containers, different smelling materials (e.g., ground coffee, perfume, baby powder, fruit, mint, cinnamon, ginger, herbs, flowers, etc.)
- Directions: Fill several small containers with different smelling materials such as what's listed above. Place each container under patient's nose and observe any reactions.





#### **ALLEN LEVEL 2 ACTIVITIES**



#### Naming and Pointing to Body Parts

- Materials: None
- Directions:
  - Low 2s: Ask the patient to name various body parts (face, head, hair, leg, eyes, etc.)
  - o Mid to High 2s: Ask the patient to name body parts



ALLEN	LEVEL	2 ACTIVITIES (	CONTINUED
ALLEN	LEVEL	2 ACTIVITIES (	CONTINUED



#### Singing Songs with Actions

- Materials: None
- Directions:
  - $\circ \quad \ \ \, \text{Encourage and cue patient to sing familiar songs}.$
  - Then introduce songs with associated actions, such as stomping feet, clapping hands, etc.

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#### **ALLEN LEVEL 2 ACTIVITIES (CONTINUED)**



#### Naming Items

- Materials: Balloon, ball, cup
- Directions:
  - Ask patient to name the objects.
  - Then model an action or have the patient perform the action (such as hit
    the balloon, kick the ball, drink from a cup) and have the patient name
    the object ("balloon," "ball," "cup").





ALLEN LEVEL 3 ACTIVITIES	
<ul> <li>Materials: Regular or jumbo size playing cards</li> <li>Directions: Hand the patient a deck of cards (jumbo size if the patient has visual problems). Ask patient to sort the cards by color.</li> </ul>	
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ALLEN LEVEL 3 ACTIVITIES (CONTINUED)	
Naming Object and Verb  Materials: Common objects such as cup, comb, fork  Directions:	
<ul> <li>Have patient name the objects.</li> <li>Perform an action with the objects and have patient name the object and the action, e.g., "drink from a cup," "comb hair" and "eat with a fork."</li> </ul>	
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ALLEN LEVEL 3 ACTIVITIES (CONTINUED)	
Sorting Beads	
Materials: Bag of beads, 1 to 3 containers     Directions:	
<ul> <li>Give the patient a color of bead to find in the bag of beads and tell him/her to place that color bead in a container as he/she finds them.</li> </ul>	
OR  O Ask patient to find more than one color and place each color in its own container.	



#### **ALLEN LEVEL 4 ACTIVITIES**



#### Finding the Object

- Materials: Common items such as book, pen, cup, eyeglasses, etc.
- Directions: Place objects in different locations within the room, but do not hide them. Ask the patient to scan the environment to locate the objects.



#### **ALLEN LEVEL 4 ACTIVITIES (CONTINUED)**



#### Reality Orientation and Communication Activity

- Materials: Calendar; pictures of buildings, locations, rooms and similar objects; patient's schedule
- Directions: Have patient name and describe what he/she sees in the materials.
   Have patient provide opposites of some items. Discuss day, time, location. Have patient describe pictured objects using such terms as "same," "different," "higher," "lower," etc. Review patient's schedule or create a schedule, reviewing what has to be done to attend all scheduled activities.



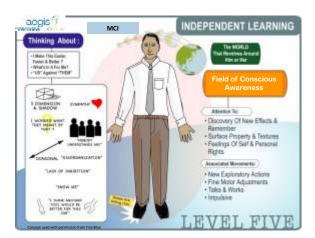
<b>ΔIIFNI</b>	FVFI 4	LACTIVITIES	(CONTINUED)



#### Memory Book

- Materials: Pictures and text related to the patient's life, paper, scissors, sleeve protectors
- Directions: Discuss events from the patient's life. Verify with family as needed.
   Obtain pictures and write simple text. Work together to construct the memory book.





### ALLEN LEVEL 5 ACTIVITIES



#### Following the Recipe

- Materials: Boxed cake mix with instructions, eggs, and cooking oil or water as needed, cake pan(s), oven, oven mitt, spoon, spatula
- Directions: Give the patient the box with instructions and have him/her make the
  cake according to the directions. Provide assistance as needed to assure thorough
  completion of steps (such as thorough mixing of ingredients). When the cake is
  done, enjoy!



### **ALLEN LEVEL 5 ACTIVITIES (CONTINUED)**



#### **Describing Work Activity**

- Materials: Written directions for a work activity, materials as needed for the activity
- Directions:
  - Discuss employment history and current and past interests to determine the optimal "work" activity. Activities might include typing, recording information, delivering mail, sorting, stacking, labeling, rolling/pushing, using a hand truck and folding.
  - $\circ$   $\;$  Have patient scan the directions and then direct another participant or group of participants in how to do the activity.



#### **ALLEN LEVEL 5 ACTIVITIES (CONTINUED)**



#### Games in a Group

- Materials: Game that involves high-level memory activities, problem solving, and social interaction (such as Clue, Scrabble, Junior Monopoly, Simon, basic card games)
- Directions: Assure that the group understands the rules of the game, which can be modified if necessary to make the game enjoyable and ensure the group's success. Monitor social communication and interaction to assure that participants follow social conventions.





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#### **Current Events**

- Materials: Current newspaper or magazine or radio with current events program
- Directions: This can be done in individual or group sessions. Tell the participants to read—or listen to, if radio—current events story. Then prompt group discussion with pertinent questions that review the facts and implications of the events.



#### **ALLEN LEVEL 6 ACTIVITIES (CONTINUED)**



#### Puzzles

- Materials: Crossword puzzles, Sudoku puzzles, jigsaw puzzles or word searches, etc.
- Directions: This can be done in individual or group sessions. Provide participants
  with the puzzle pages and instruct them to solve the puzzle. They can work
  individually or in teams. Then review answers and discuss various options that
  could have been considered for difficult to find answers.



#### **ALLEN LEVEL 6 ACTIVITIES (CONTINUED)**



#### Social Project

- Materials: Calendar, calculator, telephone book, telephone, season-appropriate decorations as indicated
- Directions: Instruct a group to plan a seasonally appropriate activity or community
  outing. Have the group begin by discussing possible activities and then plan the
  activity, check costs against the budget, invite others to attend, decorate as
  needed, etc. After planning the activity, the group will attend the activity together
  and meet afterward to discuss successes and opportunities for improvement.



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- What is the lowest Allen level that would be appropriate for:
  - Balloon toss?
  - Card and bead sorting?
  - Memory book?
- 2. What unique failure-free feature do the Allen levels all have in common?

#### POP QUIZ



- 1. What is the lowest Allen level that would be appropriate for:
  - a. Balloon toss? ACL 2
  - b. Card and bead sorting? ACL 3
  - c. Memory book? ACL 4
- 2. What unique failure-free feature do the Allen levels all have in common?
- ✓ They focus on what the patient can do at each level.



#### **ACL MODES AND PROGRAMS**



- Work with an Allen-trained therapist to determine the patient's specific mode score. Some examples of activities for modes include ones that allow the patient to:
- ACL 1.0 through 1.2 (requires 24-hour care)
- Participate in sensory stimulation program carried out by family member, volunteer, activities staff or CAN.
- Use stimuli to turn head for tracking.



ACL MODES AND PROGRAMS (CONTINUED)	
ACE MODES AND PROGRAMS (CONTINUED)	
ACL 1.4 through 1.6	
<ul> <li>Grunt, grimace or smile to express food preferences.</li> <li>Participate in hand-over-hand feeding.</li> </ul>	
Move in bed with physical assistance and sensory stimulation.	
ACL 1.8	
Hit a balloon.	
Say "no" to communicate dislikes.  Site in the investment of a satisfaction of the same of the sa	
<ul> <li>Sit in chair with special positioning devices.</li> <li>Lift buttocks off bed to use bed pan with stimulation.</li> </ul>	
Ent datables on dea to use dea part with stimulation.	
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ACL MODES AND PROGRAMS (CONTINUED)	
ACL 2.0	
Communicate yes/no for basic concerns.	
Gesture and wave to communicate.  Use counting to three to initiate movement.	
Use counting to three to initiate movement.	
ACL 2.2	
Name body parts.	
Feed self small amount of finger foods with assistance and cues.	
Extend arms to help prevent falls.	
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ACL MODES AND PROGRAMS (CONTINUED)	
ACL 2.4	
Do rhythmic activities such as rocking in a chair, swaying, etc.	
<ul> <li>Use one word to communicate needs.</li> <li>Notice barriers above the knee while walking, with cues for barriers below the</li> </ul>	
<ul> <li>Notice parriers above the knee while walking, with cues for parriers below the knee.</li> </ul>	
Feed self small amounts with utensils with assistance to initiate and sequence	
steps.	



#### ACL 2.6

- Point to body parts on command.
- Feed self part of meal with utensils at the table with cues to continue and sustain action.
- Sing familiar songs.
- Catch a ball.



### ACL MODES AND PROGRAMS (CONTINUED)



ACL 2.8 (you should provide demonstration and assistance as needed)

Learn simple songs with associated actions (hand tapping, foot stomping,

- Learn simple songs with associated actions (hand tapping, foot stomping, marching, swaying, etc.).
- Toss a bean bag or kick a ball at a target.
- $\bullet \quad \text{Name simple objects to be used for actions (throw a "ball")}.$
- Feed self and drink with cues to initiate and sustain action and to sequence steps (may need scoop plate or other adaptive feeding equipment).
- Use grab bars for support.



#### **ACL MODES AND PROGRAMS (CONTINUED)**



#### ACL 3.0

- Grasp, release, throw and catch object.
- Name object with verb.
- Respond to name and state name when asked.
- Cut food with a spork.
- $\bullet \quad \text{Feed self part of meal with spoon and fork and open some containers with cues}. \\$
- Walk up stairs with supervision.



ACL	MODES A	ND PRO	GRAMS	(CONTINUED)



#### ACL 3.2

- Move objects in a back and forth motion
- Distinguish self-care objects by size, color, and shape
- · Speak in short phrases.
- · Remember common objects from the past.
- Minimize behavior problem by participating in individualized activity plan.
- Propel wheelchair with feet.



#### **ACL MODES AND PROGRAMS (CONTINUED)**



#### ACL 3.4

- · Place objects in a row.
- Talk about actions while doing them (e.g., brushing hair).
- Say short phrases to communicate memory of a common object and action (reminiscing boxes).
- Write name with dominant hand.
- Use a napkin to wipe mouth .
- Wash dishes and do manual actions for cooking, such as snapping beans.

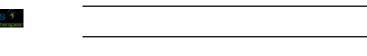


#### **ACL MODES AND PROGRAMS (CONTINUED)**



ACL 3.6 (need 24-hour caregiver supervision to supply needs for daily living, for ADL sequencing, and to remove dangerous objects)

- Sort objects by size, shape or color.
- Follow a demonstration for stacking, tossing, winding, turning, etc.
- Use pronouns to differentiate between male and female.
- Follows direction to "wait a minute."
- Manipulate an ADL board.
- Complete part of dressing and grooming with objects set up in a linear sequence.
- Follow cues to stop, start, and count therapeutic exercise.
- Don common clothing without assistance (but may have trouble with fasteners).
- Select one upper body and one lower body clothing item whe laid out.





#### ACL 3.8

- · Imitate a sequence of three actions.
- Use all objects that are within tunnel vision.
- Name the activity that he/she is doing.
- Follow verbal directions to continue doing an activity.
- Follow cue to take turns in a simple three-action sequence like sorting or matching.
- · Can learn high-priority designations (toilet).



#### **ACL MODES AND PROGRAMS (CONTINUED)**



ACL 4.0 (requires 24-hour supervision to remove dangerous objects and for problem solving)

- Complete activities toward achievement of a goal.
- Follow a simple pattern.
- Recognize the concept of a game (dominoes, etc.).
- Remember name, place, and familiar daily routine.
- Follow a simple home exercise program using memory aids.
- Prepare a simple cold or room temperature meal.



## ACL MODES AND PROGRAMS (CONTINUED)



#### ACL 4.2

- Follow cue to look at a sample and match sample one feature at a time.
- Check sample when an error is recognized.
- Recognize error and request assistance to correct it.
- Follow step-by-step directions.
- Play simple matching games with cues (such as picture dominoes and modified memory matching games).
- Initiate travel to a familiar destination with familiar means.
- Prepare a well-learned simple meal, including heating canned or frozen foods.



ACI	MACDEC	AND DDOC	DARACI	(CONTINUED)



ACL 4.4 (may live at home with someone doing daily checks to remove safety hazards and assist with problem solving)

- · Keep track of games with turns.
- Look at a sample with a simple project to assemble with size, shape, color, numbers one through four, checkerboard pattern, and horizontal and vertical lines
- Learn concrete board games that allow for matching two features at a time and numbers one through four.



#### **ACL MODES AND PROGRAMS (CONTINUED)**



ACL 4.6 (might live at home alone with assistance for meal prep, finances, problem solving, safety, and reminders to do household chores)

- Request different size, shape or color.
- Personalize a sample of a craft activity.
- Ignore written communication (will not follow written or diagram instructions).
- Use keyboard and writing instruments.



#### **ACL MODES AND PROGRAMS (CONTINUED)**



#### ACL 4.8

- Read and follow a schedule.
- Estimate 5 to 15 minutes
- Read simple instructions and follow one step at a time (may skip portions and request verification).
- Match pieces of a sample for assembly of width, length, and depth.
- Check work when finished to identify possible mistakes.
- Use a checklist to identify possible problems and to compensate for memory deficit.
- Cook light meal with supervision.
- Manage a schedule for a new medication with extra time.
- Initiate a routine of housekeeping activities and learn a new procedure by
- Memorize steps and new sequence to prepare a new recipe, and follow a recipe in a rigid manner (may ask for verification).



ACI	MODES AND PROGR	DANIC (CONTINUED	м



ACL 5.0 (may live alone with weekly checks for problem solving and to monitor safety)

- Complete three-dimensional block design.
- · Read and follow some instructions but may miss steps.
- Use a memory book to compensate for memory deficit.
- Participate in activities that involve trial and error problem solving.
- · Compete with others during an activity.
- · Schedule appointments or activities (but may forget to attend).
- Attend regularly scheduled activities with cueing to anticipate environmental hazards.
- Manage medications with opening and closing containers.
- Make reservation for dining in a restaurant.



#### **ACL MODES AND PROGRAMS (CONTINUED)**



#### ACL 5.2

- Use memory aid to keep frequent appointments and synchronize activities with others.
- Talk while doing a motor activity.
- Recognize group of dissimilar objects.
- Use a diagram to assemble according to length and width.
- Consult the clock when working and doing activities.
- Engage in social activities (but will not consider others' feelings or circumstances before speaking).
- Adhere to a travel schedule with calendars, train schedules, bus schedules, etc.



#### **ACL MODES AND PROGRAMS (CONTINUED)**



ACL 5.4 and 5.6 (may live at home alone and have a job with some cognitive assistance to anticipate hazards and to point out hazards that are a secondary effect of actions)

- Follow explanations for weight, gravity, and evaporation.
- Conceive group membership and possible exclusion from the group; conform to group norms when mocked, rebuked or reproached.
- Consider others in the work space.
- Initiate clean up after an activity.
- Express sympathy for others.
- Adjust pace on request.
- Travel to a new location independently (but may have difficulty estimating time requirement).



ACL	MODES	AND PR	OGRAMS	(CONTINUED)



ACL 5.8 (may live and work independently but with a little assistance to plan for the future)

- Read safety precautions.
- Conform to group norms with mild expressions of disapproval (but may threaten or display some unwillingness in group activities).
- Research and plan for the future but may need to consult others.
- Organize work space based on anticipated step and needs of others.
- Estimate time required for activity (but may ask for verification).
- Read written instructions before starting work.
- Execute written instructions to vary actions on spatial property.
- Follow a new recipe and plan new dishes when materials are present, and vary pace.

#### ACL 6.0

• We do not always perform at a 6.0 (normal) level!



## **POP QUIZ**

What are the subdivisions (.2, .4, .6, .8) of Allen levels called?

## POP QUIZ



- What are the subdivisions (.2, .4, .6, .8) of Allen levels called?
  - Modes



FAILURE-FREE PROGRAM EXAMPLES	
<ul> <li>Sensory stimulation</li> <li>Activity based on past and/or current interests</li> <li>Music</li> <li>Physical exercise</li> </ul>	
Brain Storms: A Cognitive-Linguistic Stimulation Program for Clients with Dementia     Montessori-based activities	
Memory Magic	
aogis 😚	
FAILURE-FREE PROGRAM EXAMPLES (CONTINUED)	
GreyMatters: Reaching Beyond Dementia app     It's Never 2 Late (iN2L)	
Journaling     Memory book or memory wallet	
<ul> <li>Reading and writing</li> <li>Soft/fidget books and blankets for Alzheimer's and dementia</li> <li>Falls prevention movement patterns</li> </ul>	
- Fails prevention movement patterns	
alogis &	
FAILURE-FREE PROGRAM EXAMPLES (CONTINUED)	

Puzzles

Red Light, Yellow Light, Green Light Program

SENSORY STIMILII ATION		



- Sensory Motor Assessment (SMA) is being developed to indicate Allen Cognitive Levels for patients with low cognitive functioning. It also suggests treatment goals and activities
- Provide various sensory stimuli (five senses) to obtain a response from the patient.
   Remaining abilities or capacity is activated through sensory stimulation.
- Design the program in a way that gives meaning to the patient's life.
- $\bullet \quad \text{Sensory stimulation can focus on improving or maintaining the patient's status.}\\$



#### SENSORY STIMULATION (CONTINUED)



- Set up organized, frequent stimulation periods with reduced environmental distractions.
- Present stimuli one at a time, allowing time for response.
- · Record motor/verbal response.
- Precaution: Be aware of sensory overload.
- Group/individual programs
- Morning care
- Bedside kits



#### SENSORY STIMULATION (CONTINUED)



- Identify cues that are pleasant and meaningful
  - Perfume, lipstick, lotion, flowers, air fresheners, pictures, memory wallet, music, radio, recordings of voices of family members, home movies
- Set up a sequence of stimulation that can be maintained.
- www.radiolovers.com
- $\bullet \quad$  Refer to PT/OT, nursing, or physician if you notice signs of contracture.

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#### BRAIN STORMS<sup>16</sup>



- Provides cognitive-linguistic stimulation in the form of failure-free programming.
- Appropriate for early, middle, and late stages of dementia.
- Patients with medical diagnoses placing them at risk for cognitive decline may also participate.
- Pre-planned activity for every work day of the year.
- Materials are inexpensive and many can be re-used.



#### BRAIN STORMS CUEING LEVELS<sup>16</sup>



Level 1 - Low	Level 2 - Medium	Level 3 - High
Hand-over-hand cueing	Increased cues	Minimal cues
May be nonverbal or "inappropriate"	Increased yes/no or multiple choice questions	Initiates and maintains conversation
Will also need sensory stimulation program	Decreased initiation and awareness of errors	May help lower level patients



#### BRAIN STORMS SAMPLE<sup>16</sup>

#### Level 1

- Show one item at a time.
  Discuss the purpose of the item and where it is kept.
  Accept ANY response.

- Level 2
   Show one item at a time.
   Discuss the purpose of the item and where it is kept.
- Provide cues.
- Accept ANY response.

- Show one item at a time.
   Discuss how the item is us.
- Discuss how the item is used and its approximate cost.
  Ask if client had any favorite brands.
  Ask client where he/she would store it at home.
  Accept ANY response.





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- Offer invitation to participate.
- · Ask for patient's help and opinion.
- Include a physical component with the activity.
- Provide enough cueing and assistance to allow the task to be failure-free and enjoyable.
- Post activity: Patient has control through choice. He/she may choose to repeat the
  activity or choose to complete a different activity.
- A variety of programs and activities have a Montessori approach.



#### MEMORY MAGIC PROGRAM<sup>19</sup>



- Each patient in the group has a program board.
- Leader and patients read a clue (such as "Butcher, baker, candlestick...") and participants give the answer ("maker").
- Each participant then looks for the word "maker" on his/her board and pulls down the shade if the word is there.
- Includes familiar phrases, items from stories and movies, and music.



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#### MEMORY MAGIC PROGRAM (CONTINUED)19



- Provides opportunities for reading, recall, word identification, singing, and fine and gross motor skills.
- Encourages reading, reminiscing, and social interaction.
- Reduces disruptive behavior during the activity.
- Promotes positive emotions.



RED LIGHT	, YELLOW LIGHT	, GREEN LIGHT



- Determine Allen Cognitive Level (ACL).
- Then group patients into three levels of intervention based on their ACLs.
  - o Red: Lowest level
  - o Yellow: Intermediate level
  - o Green: Highest level
- $\bullet \quad \text{Train the staff on the types of intervention that occur with each level}.$ 
  - Cueing strategies
  - o Types of ADLs each level can participate in



#### RED LIGHT (ACL ~2.4 TO 2.8)



Abilities	Failure-Free Programming Focus
Likes rocking Doesn't know what to do with objects Unable to reply to verbal requests unless related to movement May attend only to things that come within their vision or have movement	Caregiver education regarding approaches     Sensory stimulation program     Music and movement activities



#### YELLOW LIGHT (ACL ~3.0 TO 3.6)



Abilities	Failure-Free Programming Focus
Enjoys doing things with his/her hands     Has one-minute attention span     Sees 12"-14" in front with tunnel vision     Needs constant cues to move to next step or keep on going     Trains in three weeks to a familiar location	Feeding self in dining room with verbal cues     Sorting/matching     Folding towels     Taking things apart and putting them back together
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#### GREEN LIGHT (ACL ~3.8 TO 4.4)



Abilities	Failure-Free Programming Focus
Wants a familiar routine and schedule Cannot be reasoned with Poor safety Can follow directions if demonstrated one step at a time "What can I do next?"	Set up consistent ADL routine     Social activities     Bingo     Setting the table     Cooking



#### **FALLS PREVENTION MOVEMENT PATTERNS**



- · Look Up/Reach Up
- · Neck and trunk extension, leaning backward, shrugging shoulders
- · Reach High/Low
  - Crossing midline, trunk rotation
  - Turning the other cheek, reaching toward the floor
- Standing and Stepping
  - Weight shifting
- Strengthening During Activity
  - Leaning on arms, extended standing time, knee bends, standing on one leg



## GREYMATTERS: REACHING BEYOND DEMENTIA APP<sup>20</sup>



- A tablet application to improve quality of life of persons with dementia and their caregivers.
- Interactive life storybook paired with music and games.
- Taps into remaining abilities to help patient stay engaged and connected.
- Activities:
  - Create a personalized life storybook full of long-term memories.
     Include pictures, audio, and simple text.
  - Record "I Remember" videos when memories occur using the app together. Record other videos when special moments occur.
  - Look through material with entertainers, films, history and pop culture from the patient's generation.



GREYMATTERS: REACHING BEYOND DEMENTIA APP	
(CONTINUED) <sup>20</sup> • Activities (continued):	
Load an audiovisual reminder related to frequent topics of confusion.     This can be for questions the patient frequently asks.     Listen to music and play games.	
Individualized material can be stored for different patients.	
The app also includes Alzheimer's resources and tips for caregivers.	
aegis 3	
IT'S NEVER 2 LATE (IN2L) <sup>21</sup>	
Easy to use touch screen. Prompts communication, activities and physical movement. Keeps patients engaged longer. Can be used while sitting or standing.	
<ul> <li>Improves:</li> <li>Balance and coordination</li> <li>Problem solving</li> </ul>	
<ul><li>Memory</li><li>Safety, strength, and endurance</li></ul>	
<ul> <li>Motor control, especially arms and hands</li> <li>Range of motion and proprioception</li> <li>Sequencing, communication and word finding</li> </ul>	
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IN2L (CONTINUED) <sup>21</sup>	
<ul> <li>Allows patients to use the internet for sending and receiving pictures and email messages.</li> </ul>	
<ul> <li>Can create a video care plan.</li> <li>Patient can draw or write on the touch screen with fingertip.</li> </ul>	
<ul> <li>Patient can participate in activities designed for his/her cognitive level.</li> <li>Improves socialization, communication and quality of life.</li> </ul>	
Provides cognitive stimulation and enhances independence.	



- Assess for interest.
- Make personalized journal pages.
- Educate patient on option for private journaling which cannot be read by anyone but allows a release of stress and other emotions in a harmless manner.

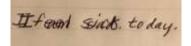
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#### **JOURNALING**



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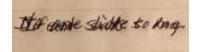




#### **JOURNALING**



- Assess for interest.
- Make personalized journal pages.
- Educate patient on option for private journaling which cannot be read by anyone but allows a release of stress and other emotions in a harmless manner.



Journaling is also helpful for caregivers.



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- Conduct interview with patient or family to gather details about the patient's life.
  If client provides the information, verify it with a family member.
- Make sure the font is large enough for the patient to read it. (Use 72 to 100 size font.)
- Use sheet protectors that do not stick to ink and do not have sharp corners that could lead to skin tears.
- Hole-punch and put together with a ring or place in a 3-ring binder.
- The memory book or wallet can also be used to assess reading ability and reading comprehension.



## MEMORY BOOK OR MEMORY WALLET (CONTINUED)<sup>22</sup>



- This helps family members see it is acceptable to have the same conversation each visit if it brings joy to the patient.
- Assists with reading, recall, cognitive processing, communication and socialization.
- Important to determine where the memory book/wallet will be kept.



#### PUZZLES

- Crosswords with or without cues
- Word search
- Unscramble the word
- Fill in the vowel
- Matching
   Sudoku
- Jigsaw puzzles







<b>OTHER AREAS</b>	<b>FOR</b>	<b>REHAB</b>	TO	ASSIST
(PT. OT. SLP)				



- Patients with cognitive impairments may also need therapists' help with other concerns, such as:
  - · Falls management
  - Continence management
  - Diabetes management
  - Self-care
  - Behavior management
  - Medication management
  - · Seating and positioning
  - Communication
  - Swallowing
  - Community integration





## OTHER CONSIDERATIONS TO ENHANCE QUALITY OF LIFE



- People living with cognitive impairments may benefit from:
  - · Memory cafes
  - Dementia mentors
  - · Assistive technology
  - Art, music, crafts
  - Environmental modifications
  - Meaningful relationships
- Caregivers of clients living with cognitive impairments may benefit from:
  - Training resources such as books and videos
  - Dementia mentors
  - Training on programming and the disease process



#### **CASE STUDIES**







## EARLY STAGE DEMENTIA: MILD COGNITIVE DEFICIT









- Lives in ILF and participates in activities.
- Beginning to have difficulty differentiating between items that are similar.
- Still does self-care.
- Manages his medications but is starting to have trouble. Still cooks basic meals.



# MIDDLE STAGE DEMENTIA: MODERATE COGNITIVE DEFICIT







- Lives in a SNF.
- Still feeds herself but does not sit through a meal and is starting to lose weight.
- Wanders much of the day.
- Enjoys working with her hands but may not be able to complete an activity.



## LATE STAGE DEMENTIA: SEVERE COGNITIVE DEFICIT









- Lives at home with her son or daughter and attends adult day care.
- Dependent in all areas of self-care.
- Unable to ambulate.
- Able to do auditory and visual tracking.
- Can bring her hands to her mouth with some help.
- Can grunt or make noise as a form of communication.





- Legislation and regulations dictate quality programming for patients with cognitive impairments and an appropriate reduction in unnecessary psychotropic medications.
- There has to be a  ${\bf team\ approach\ }$  to manage persons living with cognitive impairments, and the rapists can be a vital part of that team.
- · Since many conditions are progressive, the person will need a follow-up program, which does not have to be time-intensive. The team should **collaborate when** developing follow-up programs.
- $\bullet \quad \textbf{Cognitive programming} \ \text{needs to be individualized based on the person's current} \\$ cognitive level of function and past interests.



#### **REVIEW (CONTINUED)**



- Persons living with any level of cognitive impairment—even severe impairment— still have strengths that should be maintained through programming.
- Failure-free programming can benefit persons with cognitive impairments.
- We can approach persons living with dementia in a positive way and also teach family members to maximize their critical role with a **positive approach**.





# Remember the Person



IN SUMMARY:

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