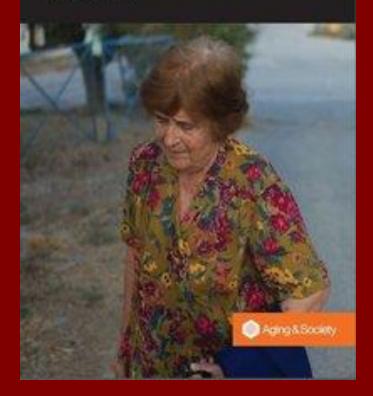
The Meaning of Behaviors in Dementia/Neurocognitive Disorders

Dr. Atul Sunny Luthra

The Meaning of Behaviors in Dementia/Neurocognitive Disorders New Terminology, Classification, and Behavioral Management And Superconnex.



Classification of Behaviors in Dementia/NCDs based on Principles of Compliance and Aggression

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Luthra's-Behavioral Assessment and Intervention Response (LUBAIR) Scale <u>A.S. Luthra MD. (Copyright 2008) REVISED - AUGUST 2012.</u>

DEFINITION OF SEVERITY

S	MILD (1)	BEHAVIORS RESPOND TO INTERVENTIONS (IPI) AND REMAIN STABLE ONCE IPI IS	WITHDRAWN
\$	MODERATE (2)	BEHAVIORS RESPOND TO IPI ONLY TO RELAPSE WHEN IPI IS WITHDRAWN	
۵	SEVERE (3)	BEHAVIORS DO NOT RESPOND TO IPI	
Ś	NP	NOT PRESENT	

DISORGANIZED BEHAVIORS SEVERITY APPEARING "VACANT" OR "LOST" IN FACIAL EXPRESSIONS, mental lethargy 2 3 NP Disorganized thinking, unintelligible/garbled speech 1 2 3 NP Rapid shifts in or incongruency of emotional states 1 2 3 NP INAPPROPRIATE mixing of food or dressing of clothesand layering, smearing fecal matter 1 3 NP 2 Playing with things in the air, responding to auditory hallucinations, picking things from t 2 3 NP Mental or Physical Lethergy or General Functional decline 2 3 NP 1 **MISIDENTIFICATION BEHAVIORS** MISIDENTIFACTION OF PERSONS, PLACES, OBJECTS 2 3 NP **WISIDENTIFICATION OF SOUNDS, SMELLS, TASTES OR TOUCH** 2 3 NP 1 **MISIDENTIFICATION OF EVENTS OR OCCURRENCES** 2 3 NP 1 **& MIS-PERCEPTION OR INTERPRETATION OF COMMENTS OR BEHAVIOURS** 1 2 3 NP OF OTHERS **GOAL DIRECTED BEHAVIORS** Soal-Directed Thinking: e.g. I am going home today, I am going to the bank, 2 3 NP 1 I am getting married today, where can I pay my bills etc) Soal-Directed Activities: e.g. (rummaging,hoarding, rifling or emptying drawers; 1 2 3 NP stripping of clothes, rearranging furniture or fixing items in milieu; stripping bedding or pulling curtains/fixtures on the walls; bed/chair exiting or exit seeking; intrusiveness or purposeful wandering (seemingly driven, 'on the go') **VOCAL BEHAVIORS** 3 NP **EXPLOSIVE, ARGUMENTATIVE AND QUARRELSOME** 1 2 3 NP **TALKING LOUD AND FAST, ACTING MANIC-LIKE** 2 3 NP VELLING AND SCREAMING TO GET THINGS DONE 1 2 **ATTLING BED RAILS/TABLE TOPS, PERISTENT CALLING OUT FOR** 2 3 NP 1 **STAFF/FAMILY or 'PARENTS'** MAKING STRANGE NOISES or MAKING REPETITIVE SOUNDS 1 2 3 NP EMOTIONAL BEHAVIORS 3 NP APPEARING SAD, DESPONDENT OR TEARFUL 2 3 NP SEXPRESSION OF THEMES OF DESPAIR, MORBIDITY, GLOOMINESS AND 1 2 SOMATIC COMPLAINTS MIMICKING OR MOCKING AND BEING DISMISSIVE 2 3 NP **SARCASTIC OR TEASING, DEROGATORY COMMENTS, BEING CRITICAL AND NEGATIVE OF OTHERS** 3 NP 2 1 FEELING REJECTED OR INCREASED SENSITIVITY TO COMMENTS FROM OTHERS 1 2 3 NP

FRETFUL/TREPIDATION BEHAVIORS

💩 FEARFUL OR SCARED FACIAL EXPRESSIONS	1	2	3	NP
ANXIOUS OR DISTRESSED FACIAL EXPRESSIONS	1	2	3	NP
💩 CLINGY OR "LATCHES ON", RINGING OF HANDS, RUBBING FACE/BODY	ୀ	2	3	NP
EXPRESSING WORRY, FEAR, FOREBODING OR CATASTROPHY	1	2	3	NP
IOARDING OR COLLECTING				

IMPORTUNING BEHAVIORS

S	PERSISTENTLY SEEKING REASSURANCE OR ASKING FOR ASSISTANCE	1	2	3	NP
\$	BEHAVING IN WAYS FOR DEMANDS TO BE MET IMMEDIATELY	1	2	3	NP
B	SHADOWING STAFF, Being a pest and crowding personal space of HCP	1	2	3	NP
ŝ	ATTENTION SEEKING OR 'MANIPULATIVE' BEHAVIOURS	1	2	3	NP

APATHY BEHAVIORS

💩 INDIFFERENCE AND LACK OF CONCERN RE: SELF AND ENVIRONMENT	1	2	3	NP
💩 LACK OF SELF-INITIATION, LOW SOCIAL ENGAGEMENT (INTER-PERSONAL	1	2	3	NP
INTERACTIONS AND LILIEU STRUCTURE) AND POOR PERSISTENCE	1	2	3	NP
EMOTIONAL INDIFFERENCE AND LACK OF EMOTIONAL REMORSE	1	2	3	NP

OPPOSITIONAL BEHAVIORS

💩 NEGOTIATING AROUND CARE AND OTHER NEEDS	1	2	3	NP
💩 WORKING AGAINST EVERYTHING THE CARE GIVER OR CARE PROVIDER	1	2	3	NP
IS ATTEMPTING WITH PATIENT				
EVASIVE TO DIRECTIONS FROM CARE GIVER or PROVIDER	1	2	3	NP
💩 RESISTIVE TO CARE, MEDICATION OR MEALS OR OTHER DIRECTIONS	1	2	3	NP
& BARRICADING AND TERRITORIALISM	1	2	3	NP
PHYSICALLY AGGRESSIVE BEHAVIORS				
🕹 SELF-ABUSIVE				
💩 PULLING, PUSHING, GRABBING	1	2	3	NP
💩 KICKING, BITING, SCRATCHING, PUNCHING	1	2	3	NP
SPITTING, THROWING THINGS, BREAKING OBJECTS	1	2	3	NP
SEXUAL BEHAVIORS				
💩 VERBALLY SEXUAL (COMMENTS, GESTURES, INNUENDOS)	1	2	3	NP
PHYSICALLY SEXUAL (GRABBING BREASTS, BUTTOCKS ETC.)	1	2	3	NP
♦ SELF STIMULATION	1	2	3	NP
MOTOR BEHAVIORS				
💩 ROAMING, STROLLING, WANDERING	1	2	3	NP
FIDGETY, ROCKING IN W/C, RESTLESS, AGITATED	1	2	3	NP
💩 SEEMINGLY DRIVEN, "ON THE GO", W/C PROPELLING, CHAIR/BED EXITING	1	2	3	NP

FREQUENCY AND DURATION OF THE IDENTIFIED BEHAVIORS IS MEASURED BY TRANSFERRING BEHAVIORS TO DEMENTIA OBSERVATION SCALE (AKA Q - 30 MIN CHECK LIST)

OPPOSITIONAL BEHAVIORS

S	NEGOTIATING AROUND CARE AND OTHER NEEDS	1	2	3	NP
D	WORKING AGAINST EVERYTHING THE CARE GIVER OR CARE PROVIDER	1	2	3	NP
	IS ATTEMPTING WITH PATIENT				
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PHY:	SICALLY AGGRESSIVE BEHAVIORS				
\$	SELF-ABUSIVE				
\$	PULLING, PUSHING, GRABBING	1	2	3	NP
S	KICKING, BITING, SCRATCHING, PUNCHING	1	2	3	NP
\$	SPITTING, THROWING THINGS, BREAKING OBJECTS	1	2	3	NP

Oppositional Behaviors

Principles of Compliance Oppositional Behaviours (OB)

• Benoit (2006). Refusal to care, to eat or to co-operate.

- Ornstein (2012) Used in context of;
 - Agitation
 - Psychosis
 - Apathy
 - Aggression

Principles of Compliance Oppositional Behaviours (OB)

Developmental Psychology (Greenspoon 1992)

Verbal and Non-Verbal Expressions of 'NO'

- Sense of Identity

- Self Regulation

– Independence

Principles of Compliance Oppositional Behaviours (OB)

Compliance

- Appropriate following of any instruction to perform a specific response.
- Within a reasonable and designated time.

(Schoen, 1983)

Principles of Compliance Oppositional Behaviors (OB)

Non-Compliance

 Refusal to initiate or complete a request made by another person.

(Forehand and McMahon, 1981)

Principles of Compliance Oppositional Behaviors (OB)

Interactional Process

 Bi-directional relationship between the person receiving a command and the person delivering the command.

INTERACTIONAL UNIT

 Forms a conceptual basis to development and sustenance.

(Barnett et al., 2012; Forehand & McMahon, 1981; Kuczynski & Hildebrandt, 1997; Schoen, 1983)

Negotiation:

 Person attempts to modify the nature / conditions of the command

Passive Non-Compliance:

Person does not acknowledge directions given to them

(Kuczynski & Kochanska, 1990)

Simple Non-Compliance

- Person appears to acknowledge commands but refuses to comply.
- No associated hostility / anger.

Direct Defiance:

 Above two steps accompanied by hostility / anger.

Factors influencing Interactions

Level of Intellectual Functioning

Level of developmental sophistication

- **Interactional unit in Dementia Care**
 - Husband and wife unit
 - Regresses with advancement of dementia
 - Mirrors parent-child unit

Interactional unit in Dementia Care

- Parent-Child unit

Reverses with advancement of Dementia

Negotiation:

- Observed in early stages of impairment in patients with higher level of intellectual function / developmental sophistication
- Patient negotiates around care and other needs
- If unsuccessful, patient works against HCP

Passive non-compliance:

- Observed in patients with lower level of intellectual function / developmental sophistication
- Patient act as if they are not hearing direction
- Patient is evasive to commands

Simple non-compliance:

- Observed in patients with even lower level of intellectual function / developmental sophistication
- Acknowledging direction but refusing to comply but no ager / hostility
- Patient is resistive to care, medications, meals, commands

Direct defiance:

- Observed in patients with the lowest level of intellectual function / developmental sophistication
- Acknowledges --- \rightarrow Refuses --> Emotions
- Patient acts territorial / barricades self
- Progresses to vocal and physically aggressive behavior

Symptoms of the Category

- Negotiating around care and other needs
- Working against every thing CG does
- Evasive to Directions
- Resistive to all Directions
- Barricading or territorialism

Oppositional Behaviors Purpose of Measure

- Alert HCP to 'bi-directional' dynamic interaction between patient and them
- HCP verbal / non-verbal expressions and commands influence state of 'homeostasis'
- Alert HCP to range of non-compliant actions patient may exhibit
- Care Planning in accordance with individualized responses

Oppositional Behaviors Care Approach

 Patient-centered, individualized approach to management is required

• Develop care plans which address each identified level of non-compliance exhibited by patient

Focus on preserving homeostasis in patient milieu

Physically Aggressive Behaviors

Physically Aggressive Behaviors

Definition:

 An overt act, involving the delivery of noxious stimuli to (but not necessarily aimed at) another organism, object or self, which is clearly accidental.

Physically Aggressive Behaviors

Symptoms in the Literature (Dennehy et al. 2013)

- Physical aggression
- Aggressive resistance
- Physical threats
- Verbal aggression
- Refusal to speak
- Destructive behavior
- General irritability

Principles of Aggression Conceptual Models

Biological:

- Genetic predisposition, changes in physiological function
- Various disease states may cause change in brain function
- Changes in neurotransmitter function causes aggression

Behavioral:

- Classical / operant conditioning
- Aggression is a learned behavior
- Variables in milieu reinforce / attenuate the behavior

Principles of Aggression Conceptual Models

<u>Cognitive:</u>

- Mental processing of information (memory, thinking, language, problem-solving, decision-making)
- Impairment leads to aggression

Evolutionary:

- Behavior evolved as a form of "defense against attack"
- Aids in survival and reproduction

Cross-cultural:

- Different cultures influence perspective on aggression
- Cultures may differ in behavior frequency

Physically Aggressive Behaviors Alternative Models

Instrumental Aggression:

- Based in reward-consequence paradigm
- Process of systematic thinking (benefits / rewards)

Siegel & Victoroff (2009)

Physically Aggressive Behaviors Alternative Models

Hostile Aggression:

- **"Frustration-Aggression theory"** Dollard et al (1939)
 - Blocked goal attainment \rightarrow frustration \rightarrow aggression

Physically Aggressive Behaviors Alternative Models

Hostile Aggression:

- Emotional response to provocation / negative feelings
 - Berkowitz (1989)
- Internal / external perturbations

 \rightarrow Negative feelings

 \rightarrow Aggression

Physically Aggressive Behaviors Hostile Aggression

- Hierarchy of Needs (Maslow 1943):
 - Physiological
 - Security
 - Belongingness
- Perceived "blocked" needs
 - \rightarrow Negative emotions of anger / discontentment
 - \rightarrow Direct Defiance

 \rightarrow Physically Aggressive Behaviors

Physically Aggressive Behaviors Symptoms

- Pulling, pushing, grabbing
- Kicking, biting, scratching, punching
- Spitting, throwing things, breaking objects
- Self-abuse / mutilation

- Alert HCPs of "interactional unit."
- Alert HCPs to identify perceived discrepancy.
- Alert HCPs of perceived blockage.
- Alert HCPs of emotional responses.
 - Anger and discontentment.

Pushing, pulling, grabbing:

- Direct defiance
 - \rightarrow Persistence of Noxious Stimuli
 - \rightarrow Behaviors
- Goal of behavior is extinguishing perceived noxious stimuli.
- Emergence of Vocal Behaviors Aggressive Type.
 - Defensive Mode.
 - "Shot across the bow"

Self-Abuse:

Based in Primary Emotion of Anger & Discontentment

Out of proportion responses.

- Low threshold, high amplitude, long duration. (Donegan et al (2003)
- "Dysphoric Episodes" (Starcevic 2007)
 - Irritable Quarrelsome Destructive Syndrome
- Turned onto oneself.

Spitting, Throwing Things, Breaking Objects:

- Irritable Quarrelsome Destructive Syndrome.
- Turned outwards.

Oppositional Behaviors

 \rightarrow Vocal Behaviors Aggressive Type

 \rightarrow Physically Aggressive Behaviors

Physically Aggressive Behaviors Care Approach

- Assess from all perspectives and determine whether behavior is instrumental / hostile
- If instrumental:
 - Assess if patient can understand consequences of actions and develop appropriate interventions
- If hostile:
 - Identify how HCP role / environment acts as an impediment to patient's goal attainment
 - Develop behavioral interventions around mitigating / eliminating goal impediments

Behaviors of Dementia/NCD

As defined by <u>LuBAIR</u>:

- Disorganized Behaviors
- Misidentification Behaviors
- Apathy Behaviors
- Goal Directed behaviors
- Motor Behaviors
- Importuning Behaviors

- Emotional Behaviors
- Fretful/Trepidated Behaviors
- Vocal Behaviors
- Oppositional Behaviors
- Physically Aggressive Behaviors
- Sexual Behaviors

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