

Managing Responsive Behaviours in Dementia

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May 1, 2019

Conflicts of Interest

- Faculty: Dr. David Sherman
- Relationships with financial sponsors :
- None

Conflicts of Interest

- DISCLOSURE OF FINANCIAL SUPPORT
- This program has received financial support from the following organizations in the form of unrestricted educational grants:
- Astellas, Bayer, Bayshore Home Health, Boehringer Ingelheim, Eli Lilly, GSK Canada, Merck, Mylan, Novartis, NovoNordisk, Pfizer and Purdue
- This program has received financial support from Grand River Hospital Foundation in the form of speaker honoraria. This program has received in-kind support from Grand River Hospital in the form of logistical support.
- Potential for conflict(s) of interest:
- Dr. David Sherman will be making therapeutic recommendations for medications that have not received regulatory approval (i.e. off-label use of medications).
- Dr. David Sherman is receiving payment from the Freeport Physicians' Education Fund

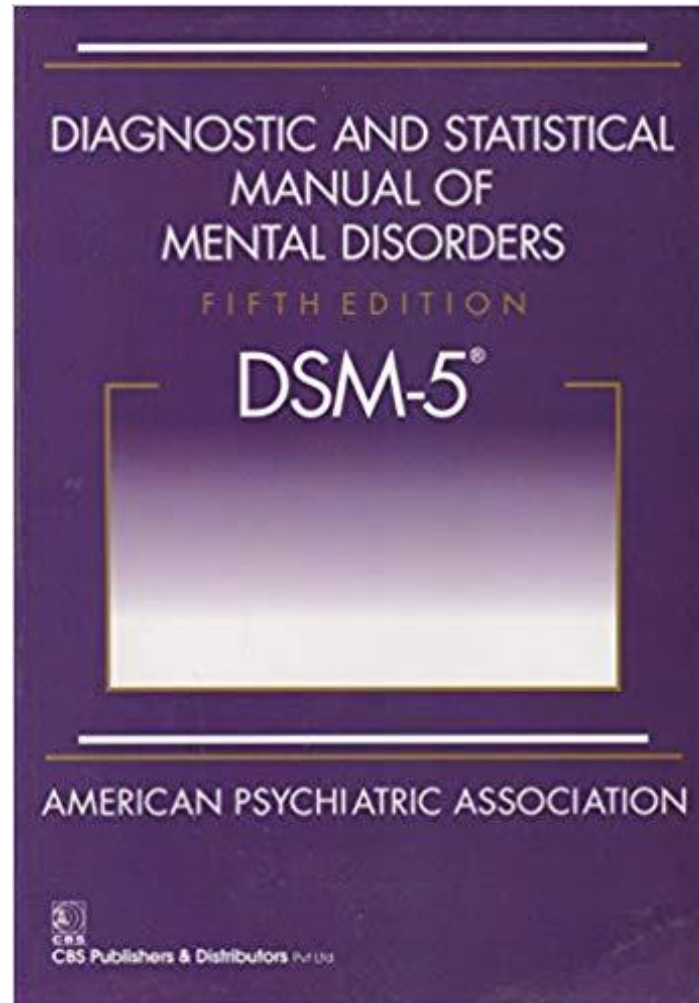
- Mitigating Potential Bias:
- Recommendations for medications that have not received regulatory approval (off-label) will be highlighted during the presentation
- Recommendations for Drug Therapy will be based on peer reviewed journal articles and published guidelines

Learning Objectives

1. Participants will understand the DSM-5 diagnostic nomenclature of Neurocognitive Disorders
2. Participants will be able to name important side effects of commonly used medications for the management of behavioural symptoms of Neurocognitive Disorders.
3. Participants will be able to use an algorithmic approach to the management of behavioural symptoms of Neurocognitive Disorders



Nomenclature



Neurocognitive Disorders

ex. Major Neurocognitive Disorder due to Alzheimer's disease, moderate severity, with behavioural disturbance (psychosis, agitation)

Mild Neurocognitive Disorder

- A. Evidence of **MODEST** cognitive decline from a previous level of performance in one or more cognitive domains
 - Complex attention, executive function, learning and memory, language, perceptual-motor, or social cognition
- Based on:
 - 1. Concern of the individual, a knowledgeable informant, or the clinician that there has been a mild decline in cognitive function
 - And
 - 2. A modest impairment in cognitive performance, preferably documented by standardized neuropsychological testing, or in its absence, another quantified clinical assessment

Mild Neurocognitive Disorder

- B. The cognitive deficits **DO NOT** interfere with capacity for independence in everyday activities
 - ie. complex instrumental activities of daily living such as paying bills or managing medications are preserved, but greater effort compensatory strategies, or accommodation may be required

Mild Neurocognitive Disorder

- C. The cognitive deficits do not occur exclusively in the context of a delirium
- D. The cognitive deficits are to better explained by another mental disorder
 - eg. Major Depressive Disorder, Schizophrenia

Major Neurocognitive Disorder

- A. Evidence of **SIGNIFICANT** cognitive decline from a previous level of performance in one or more cognitive domains
 - Complex attention, executive function, learning and memory, language, perceptual-motor, or social cognition
- Based on:
 - 1. Concern of the individual, a knowledgeable informant, or the clinician that there has been a **SIGNIFICANT** decline in cognitive function
 - And
 - 2. A **SUBSTANTIAL** impairment in cognitive performance, preferably documented by standardized neuropsychological testing, or in its absence, another quantified clinical assessment

- B. The cognitive deficits interfere with capacity for independence in everyday activities
 - ie. at a minimum, requiring assistance with complex instrumental activities of daily living such as paying bills or managing medications

Major Neurocognitive Disorder

- C. The cognitive deficits do not occur exclusively in the context of a delirium
- D. The cognitive deficits are to better explained by another mental disorder
 - eg. Major Depressive Disorder, Schizophrenia

Specifiers - Etiology

- Alzheimer's disease
- Frontotemporal lobar degeneration
- Lewy body disease (and Parkinson's Disease)
- Vascular disease
- Traumatic brain injury
- Substance/medication use
- HIV infection
- Prion disease
- Huntingon's disease
- Another medical condition
- Multiple etiologies
- Unspecified

- *Specify* current severity:
 - Mild: Difficulties with instrumental activities of daily living (eg. Housework, managing money)
 - Moderate: Difficulties with basic activities of daily living (eg. feeding, dressing)
 - Severe: Fully dependent

A Continuum

Complaint	Cognitive Testing	Functional Impairment	Diagnosis
"I can't remember!"	Normal	None	Subjective Cognitive Impairment
"I can't remember!"	Modest Impairment	None	Mild Neurocognitive Disorder
"I can't remember!"	Substantial Impairment	IADLs	Major Neurocognitive Disorder, mild
"I can't remember!"	Substantial Impairment	BADLs	Major Neurocognitive Disorder, moderate
"I can't remember!"	Substantial Impairment	Fully Dependent	Major Neurocognitive Disorder, severe



- *Specify:*
 - Without behavioural disturbance
 - With behavioural disturbance (specify disturbance):
 - If the cognitive disturbance is accompanied by a clinical significant behavioural disturbance
 - Eg. Psychotic symptoms, mood disturbance, agitation, apathy or other behavioural symptoms

Neurocognitive Disorders

ex. Major Neurocognitive Disorder due to Alzheimer's disease, moderate severity, with behavioural disturbance (psychosis, agitation)

Managing (Behavioural Disturbance) in (Neurocognitive Disorders)

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Treatment

Management of Behavioural Disturbance - Non-Pharmacological Approaches

Management of Behavioural Disturbance - Pharmacological Approaches

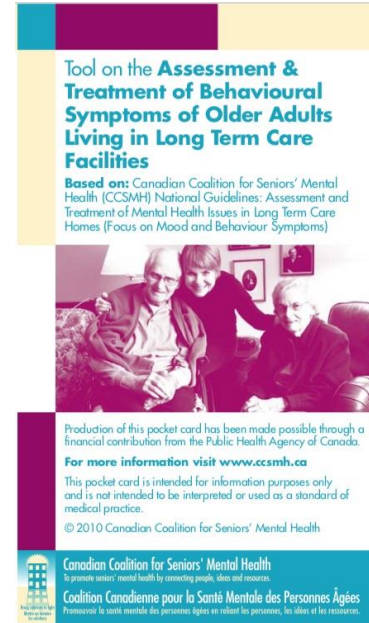
MAY 2006

NATIONAL GUIDELINES FOR SENIORS' MENTAL HEALTH

The Assessment and Treatment of Mental Health Issues in Long Term Care Homes (Focus on Mood and Behaviour Symptoms)



CANADIAN COALITION FOR SENIORS' MENTAL HEALTH
COALITION CANADIENNE POUR LA SANTÉ MENTALE DES PERSONNES ÂGÉES



Canadian Coalition for Seniors' Mental Health
To promote seniors' mental health by connecting people, ideas and resources.

Coalition Canadienne pour la Santé Mentale des Personnes Âgées
Promouvoir la santé mentale des personnes âgées en reliant les personnes, les idées et les ressources.

www.ccsmh.ca

- Carefully weigh the potential benefits of pharmacological intervention versus the potential for harm. [A]

Side Effects - Anti-depressants

- GI side effects: nausea, vomiting, diarrhea
- Cardiac side effects: prolonged QTc
- Metabolic side effects: hyponatremia due to SIADH
- Falls

- **Black Box Warning! - Increased Mortality**
- Stroke
- Sedation
- Extra-Pyramidal Symptoms
- Falls
- Weight gain and Metabolic Syndrome
- Prolonged QTc

- CCSMH - Alzheimer's, Vascular, and FTD:
 1. Non-violent agitation without psychosis -
Anti-depressant (SSRI or trazodone)
 2. Severe agitation, physical aggression and/or
psychosis - Atypical anti-psychotic
 3. Severe agitation, physical aggression -
carbamazepine, short acting
benzodiazepines, ECT

Original Paper

Sequential drug treatment algorithm for agitation and aggression in Alzheimer's and mixed dementia

**Simon JC Davies^{1,2,3}, Amer M Burhan^{3,4}, Donna Kim^{1,2,3},
Philip Gerretsen^{1,2,3,5}, Ariel Graff-Guerrero^{1,2,3,5}, Vincent L Woo^{1,2,3},
Sanjeev Kumar^{1,2,3}, Sarah Colman^{1,2,3}, Bruce G Pollock^{1,2,3},
Benoit H Mulsant^{1,2,3} and Tarek K Rajji^{1,2,3}**



Journal of Psychopharmacology
2018, Vol. 32(5) 509–523
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DOI: 10.1177/0269881117744996
journals.sagepub.com/home/jop



1. Risperidone

2. Aripiprazole or Quetiapine

3. Carbamazepine

4. Citalopram

5. Gabapentin

6. Prazosin

7. Combinations or ECT



Pharmacotherapy Algorithm - Agitation, Aggression and Psychosis

BPSD Algorithm

Part 1
Interdisciplinary Decisional Support for BPSD

- Assessment
- Problem Solving
- Care Planning / Evaluation

Part 2
Reassessment with Family Physician or Nurse Practitioner for BPSD

- Assessment
- Medication Options
- Care Planning / Evaluation

www.bcbpsd.ca

- CCSMH - Parkinson's Disease and Lewy Body Disease
 1. Cholinesterase Inhibitor
 2. Quetiapine
 3. Clozapine

- Cardiac: Bradycardia
- GI: Peptic Ulcer Disease, Nausea, Vomiting, Diarrhea, Weight Loss

Pharmacological Management of Lewy Body Dementia: A Systematic Review and Meta-Analysis

Chris Stinton, Ph.D., Ian McKeith, F.Med.Sci., John-Paul Taylor, Ph.D., Louise Lafortune, Ph.D., Eneida Mioshi, Ph.D., Elijah Mak, M.Sc., Victoria Cambridge, Ph.D., James Mason, D.Phil., Alan Thomas, Ph.D., John T. O'Brien, D.M.

American Journal of Psychiatry (2015) 172: 731-742



- CCSMH: Appropriate pharmacological treatment of residents with severe sexual disinhibition can include: a) hormone therapy (e.g., medroxyprogesterone, cyproterone, leuprolide); b) selective serotonin reuptake inhibitors; or c) atypical antipsychotics. [D]



Hormonal Therapy Side Effects

- Medroxyprogesterone: mood effects
- Cyproterone: mood effects, osteoporosis
- Luprolide (Lupron): mood effects, osteoporosis

Summary

- How to systematically approach a DSM 5 diagnosis of a Neurocognitive Disorder
- An algorithmic approach to treatment of behavioural disturbances in neurocognitive disorders
- A review of side effect considerations of commonly prescribed medications



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