

# Welcome to the Medication Safety Community of Practice Webinar Series

*Hosted by ISMP Canada*

March 21, 2012



## **Opportunities for Quality Improvement: *Contemporary Issues in the Use of Psychotropic Medications in the Management of Behavioural and Psychological Symptoms of Dementia in Long-Term Care***



## Medication Safety CoP Aim

- | To improve Medication Safety within Long Term Care homes. It is a collaboration of three organizations HQO, QHN and ISMP Canada with support from SHRTN



## Medication Safety CoP Team

- | Doris Doidge, RN, MN, CoP Co-Lead
  - | Process Improvement Consultant, QHN
  - | QI Coach, Residents First
- | Kris Wichman, RPh BScPhm FCSHP, CoP Co-Lead
  - | Institute for Safe Medication Practices (ISMP) Canada
- | Terry Kirkpatrick, B.A., R.L.C., M.Ed.
  - | Knowledge Broker, SHRTN
- | James Medd
  - | Information Specialist, SHRTN
- | Core Working Group



## For More Information & Upcoming Webinars, Go to:

| [WWW.SHRTN.ON.CA](http://WWW.SHRTN.ON.CA)

| [www.ismp-canada.org](http://www.ismp-canada.org)



## Webex system - audio

- Please make sure that you joined the call correctly (i.e. enter your unique “Attendee ID” number when prompted by the phone greeting). See the pop-up screen or click on the “Event Info” tab (upper left hand corner of your screen) for audio connection information.
- You are on Mute right now but we can open the audio lines later for questions, so it’s important that you joined the call correctly.
- There is a Chat box function that you can use (address your questions to “All Panelists”).



# **Opportunities for Quality Improvement:**

*Contemporary Issues in the  
Use of Psychotropic Medications in the  
Management of Behavioural and  
Psychological Symptoms of Dementia in  
Long-Term Care*



## **Presenter**

- | **Carlos Rojas–Fernandez, BSc (Pharm), PharmD**
- | Schlegel Research Chair in Geriatric Pharmacotherapy
- | Schlegel-UW Research Institute on Ageing & School of Pharmacy, University of Waterloo



## Objectives

- ❖ Increase awareness of medication use issues in the management of behavioural and psychological symptoms (BPSD) in long-term care (LTC) residents.
- ❖ Increase knowledge of improvement opportunities in LTC medication management system that affects physicians, nurses, pharmacists, and ultimately residents.
- ❖ Highlight actions that each profession can take to enhance the safety and care of residents with BPSD.



The logo for Schlegel-UIW, with "Schlegel-UIW" written vertically and "RIA" in large blue letters.

The logo for The Centre for Family Medicine, featuring a green leaf icon and the text "The Centre for Family Medicine" in green.

**Opportunities for Quality Improvement: Contemporary issues in the use of psychotropic medications in the management of Behavioural and Psychological Symptoms of Dementia (BPSD) for residents in long term care.**

**WATERLOO**  
**PHARMACY**  
pharmacy.uwaterloo.ca

Carlos Rojas-Fernandez, BSc(Pharm), PharmD  
Schlegel Research Chair in Geriatric Pharmacotherapy  
March 20<sup>th</sup>, 2012



The S7000, Saipem UK Ltd.'s semisubmersible heavy lift vessel, is the largest of its kind in the world. It arrived in Halifax in April 1998 to install the offshore oil rig and North Truro

## Disclosures

- Current funding:
  - UW-RBJ Schlegel RIA
  - CIHR
  - Pfizer
  - Purdue
  - AstraZeneca



**WATERLOO**  
**PHARMACY**



# Roles

- **Research**
  - Long term care and primary care
    - Alzheimer's disease and related disorders, falls
    - Various other diseases
- **Clinical Geriatric Pharmacotherapy**
  - CFFM Memory Clinic
- **Teaching**
  - UW School of Pharmacy
  - AHS Health Studies & Gerontology
  - MacMaster Family Medicine



**WATERLOO**  
**PHARMACY**

# Questions

- >50%-90% of patients with dementia will be affected by BPSD.
  - True or false?
- BPSD are best treated with medications
  - True or false?
- When medications are necessary for BPSD, any of the antipsychotics may be used interchangeably.
  - True or false?

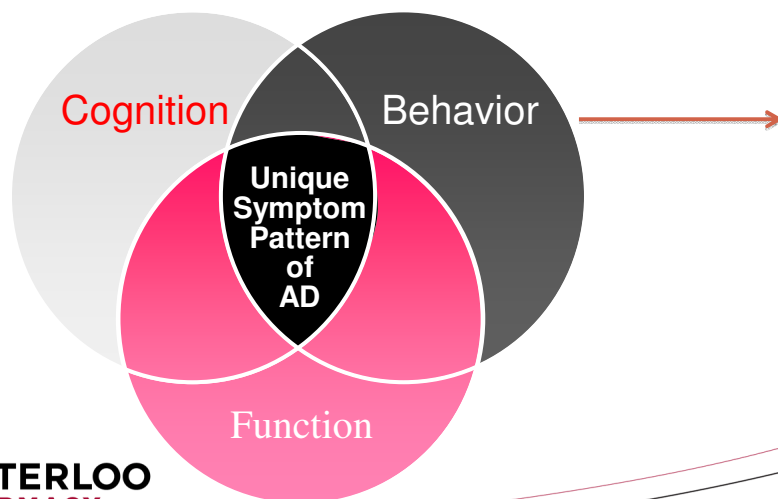
**WATERLOO**  
**PHARMACY**

## Questions

- In many cases, BPSD may be the result of reversible causes.
  - True or false?
- When drugs are used to manage BPSD, what is the optimal duration of therapy?
  - 6 months
  - 3 months
  - 9 months
  - 12 months
  - 24 months

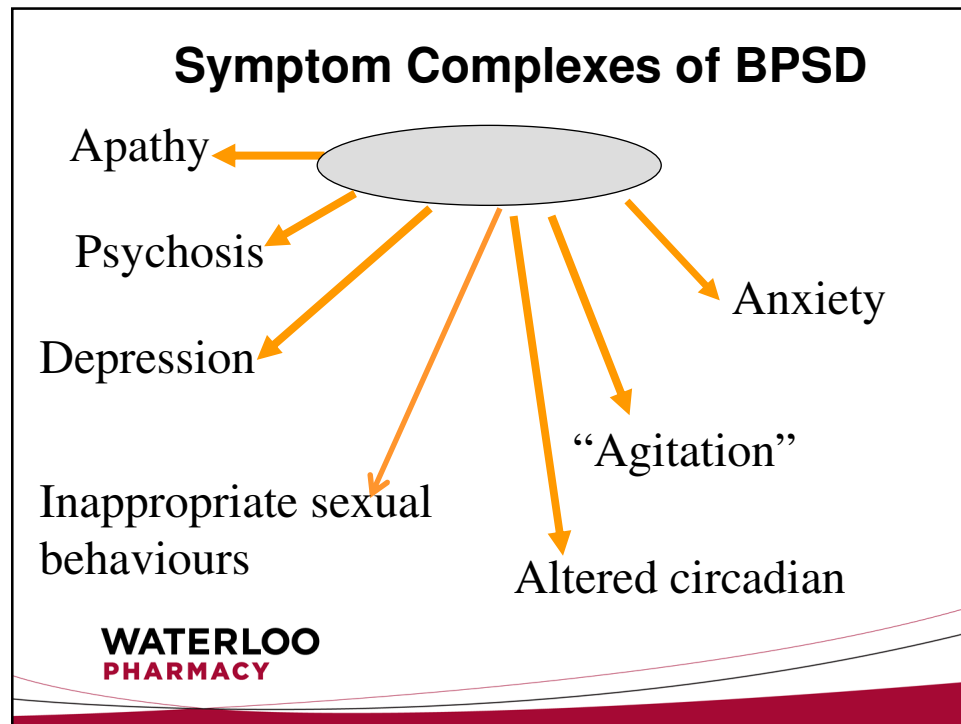
**WATERLOO**  
**PHARMACY**

## Symptomatic expression of dementia



**WATERLOO**  
**PHARMACY**





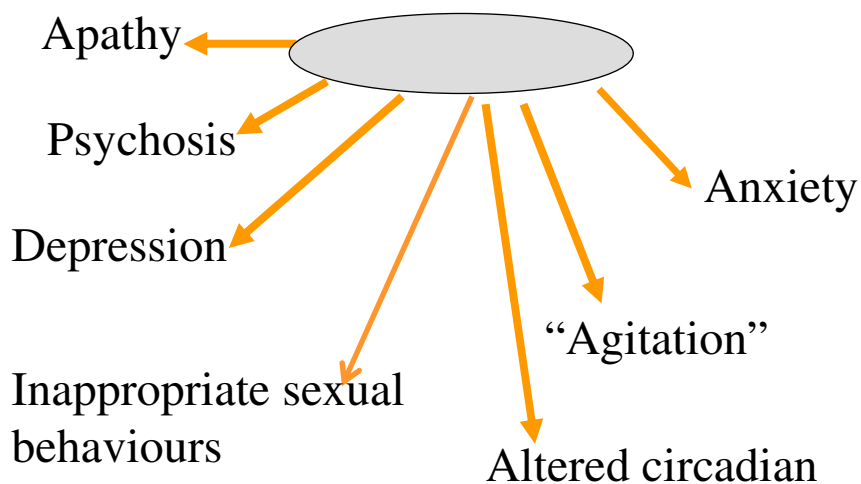
- ### Relevance of BPSD
- >50%-90% of patients are affected
  - Reduced ADL function (incl. incontinence)
  - Compromised nutrition and hydration
  - Falls, aspiration, injuries
  - Suffering, excess disability
- WATERLOO**  
PHARMACY

## Relevance of BPSD

- Caregiver time, stress, depression.
- Increased hospitalizations.
- Premature institutionalization.
- Overall ↑ in health care use (e.g., ER visits, ALC time).
- Interference with medical and nursing care

**WATERLOO**  
**PHARMACY**

## Symptom Complexes of BPSD



**WATERLOO**  
**PHARMACY**

# Apathy

- Is a behavioural sign of executive dysfunction.
- May be characterised by loss of motivation:
  - Reduced initiative
  - Poor persistence
  - Lack of interest
  - Indifference
  - Blunted emotional response, lack of concern
  - Low social engagement

**WATERLOO**  
**PHARMACY**

# Apathy

- Compare w depression:
  - Negative thoughts, dysphoria, pessimism, self criticism
- One of the most commonly occurring BPSD ( up to 92% of AD patients).
- Increases care demands, CG burden and stress.

**WATERLOO**  
**PHARMACY**

Landes AM. J Am Geriatr Soc 2001

## Psychosis: AD Vs Schizophrenia.

	<u>Psychosis of AD</u>	<u>Schizophrenia</u>
Bizarre or complex delusions	Rare	Frequent
Misidentifications of caregivers	Frequent	Rare
Common form of hallucinations	Visual	Auditory
Active suicidal ideation	Rare	Frequent
Past history of psychosis	Rare	Frequent

**WATERLOO**  
**PHARMACY**

## *Delusions*

- Theft
- House is not one's home
- CG or spouse is impostor
- Abandonment
- Infidelity

**WATERLOO**  
**PHARMACY**

## Depression in AD.

- Depressive symptoms often fluctuate.
- Depressed patients with AD exhibit more self-pity, rejection sensitivity, anhedonia and psychomotor disturbance than depressed older patients without dementia.
- Major depression in AD is associated with an increased mortality rate, but no acceleration of cognitive decline.

**WATERLOO**  
**PHARMACY**

## Inappropriate sexual behaviours

- Up to 25% of patients with dementia exhibit these behaviours
- Non-pharmacological approaches very important:
  - Education
  - Avoid confrontation
  - distraction,
  - Modified clothing, etc

**WATERLOO**  
**PHARMACY**

Tucker L. Int Psychogeriatr 2010;22:5:683-92.

## **Circadian Rhythm Disturbances**

- Functional and anatomic changes occur in the suprachiasmatic nucleus in dementia.
- Alterations of the daily rhythm of serum melatonin have been correlated to some cases of sleep disturbances in Alzheimer's disease.

**WATERLOO**  
**PHARMACY**

Stopa, Volicer, et al. 1999, Uehida, Okamoto, et al. 1996

## **Circadian Rhythm Disturbances**

- Disturbances of sleep and day-night reversals are common.
- Sleep disturbances may be more common in VaD, DLB & PSP, compared to those found in AD.

**WATERLOO**  
**PHARMACY**

## Agitation

- Some symptoms don't fit well into defined symptom complexes of BPSD such as psychosis, depression or anxiety.
- They are consigned to the "grab-bag" category of "agitation", which is a sensitive, but non-specific term.
- Agitation
  - May be defined as inappropriate verbal, vocal or motor activity that is not judged by an outside observer to result directly from the needs or confusion of the person.

**WATERLOO**  
**PHARMACY**

### ***Physically Non-Aggressive***

- General Restlessness
- Repetitive mannerisms
- Pacing
- Hiding Objects
- Inappropriate Handling
- Shadowing
- Escaping protected environment
- Inappropriate Dressing/Undressing

### ***Verbal Non-Aggressive***

- Negativism
- Chanting
- Repetitive Sentences
- Constant Interruptions
- Constant Requests for Attention

**WATERLOO**  
**PHARMACY**



### **Physically aggressive**

- Hitting
- Pushing
- Scratching
- Grabbing
- Kicking
- Biting
- Spitting

### ***Verbally aggressive***

- Screaming
- Cursing
- Temper Outbursts

**WATERLOO  
PHARMACY**

### ***Aggression symptom complexes include:***

- Reactive aggression associated with personal care, discomfort.
- Aggression associated with delirium
- Aggression associated with depression
- Aggression associated with psychosis
- Spontaneous disinhibited aggression

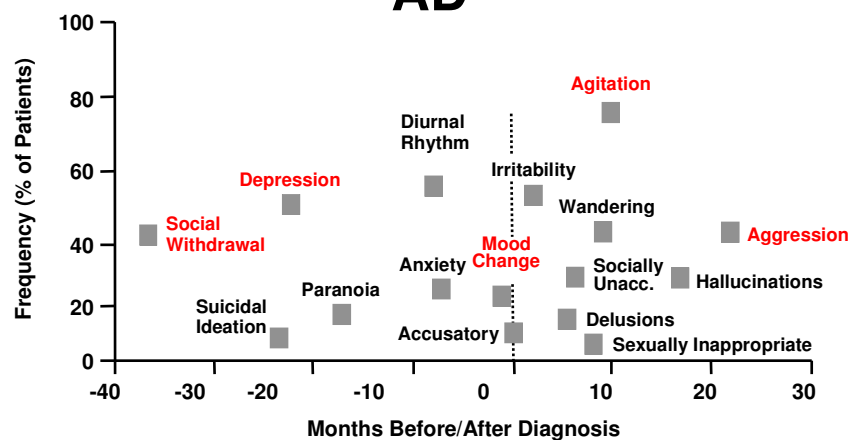
**WATERLOO  
PHARMACY**

## Anxiety Symptoms in BPSD

- No specific definition of anxiety in BPSD is available;
  - Generalized anxiety disorder type symptoms
  - Godot syndrome (repeatedly asking questions on a forthcoming event)
  - Fear of being left alone
  - Pacing
  - Wringing of hands, fidgeting
  - Chanting

**WATERLOO**  
**PHARMACY**

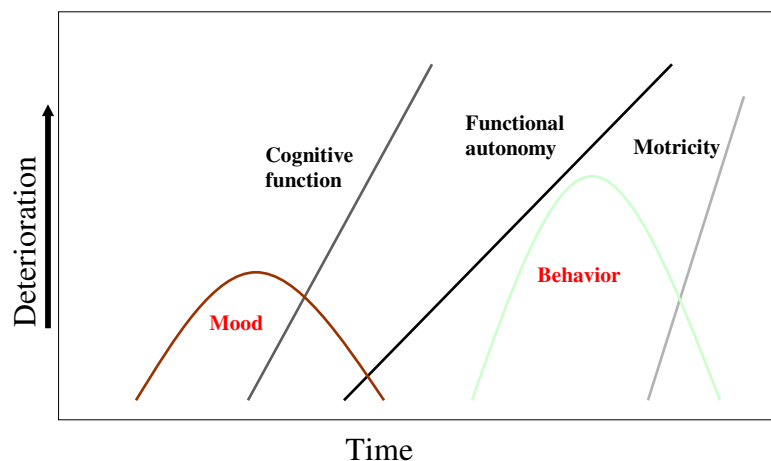
## Peak Frequency of Behavioral Symptoms with Progression of AD



**WATERLOO**  
**PHARMACY**

Jost BC, Grossberg GT. J Am Geriatr Soc. 1996;44:1078-1081

## Symptomatic domains over time



**WATERLOO  
PHARMACY**

Gauthier, et al. 1996; Gelinas and Auer. 1996; Eastwood and Reisberg. 1996; Barclay, et al. 1985.

## Most common/ most distressing symptoms.

- Psychological
  - Delusions
  - Hallucinations
  - Depressed mood
  - Sleeplessness
  - Anxiety
- Behavioural
  - Pacing
  - Physical aggression
  - Wandering
  - Restlessness

**WATERLOO  
PHARMACY**

## Most persistent symptoms

- Wandering
- “Agitation” (restlessness, increased motor activity)
  - i.e., physical or verbal aggression

**WATERLOO  
PHARMACY**

Devanand, et al. Arch Gen Psych 1997;54:257-63 & Alz Dis Rel Disord 1999;13(Suppl 2):S3-S8

## Symptoms that **may** respond to Rx

- Anxiety, restlessness, depressive symptoms.
- Withdrawal, apathy
- Elation, pressured speech and hyperactivity
- Delusions or auditory hallucinations
- Physical or verbal aggression
- Sexually inappropriate behaviour

**WATERLOO  
PHARMACY**

## Symptoms that **do not tend** to respond to Rx

- Simple wandering
- Inappropriate voiding
- Inappropriate dressing/undressing
- Perseveration
- Hiding, hoarding
- Eating inedibles

**WATERLOO**  
**PHARMACY**

## Therapy

- First think of the obvious:
  - Responsive behaviours:
    - i.e., Reversible causes
      - E.g., infection, cold, hot, hunger, recent change in routine &/or medications, etc
      - Appropriate pain management may be effective in reducing BPSD.
        - » Husebo BS. BMJ 2011;343:1-10.

**WATERLOO**  
**PHARMACY**

## Nonpharmacologic Therapy

- Environmental modifications such as music, white noise, plants, animals
- Speak slowly, keep commands simple and positive, use gestures, gentle touch
- Behavioral management techniques
- Structured activities and use of schedules
- Massage, exercise

**WATERLOO**  
**PHARMACY**

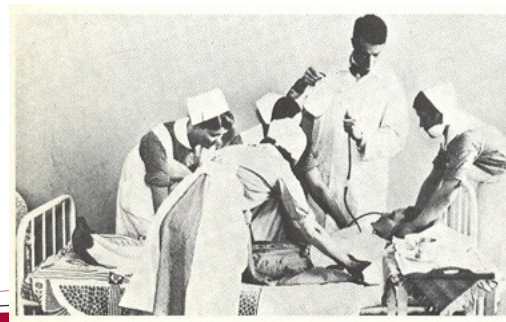
Rowe, Alfred 1999

Gerdner, Swanson 1993

## When to treat with medications?

- Personal biases, thresholds..
- Perceived CG stress
- Regulations
- Etc...

**WATERLOO**  
**PHARMACY**



## Pharmacotherapeutic principles for BPSD:

- Look for **symptom complexes** to help guide initial choice of agent.
  - E.g., depression, depression/anxiety, psychosis.
- Medications should be given in **lower doses** than recommended adults (50% less) and follow guidance from **appropriate study data**.
- Ideally, use agents with **demonstrable efficacy** as first line agents.
  - NB: Demonstrable does not = Health Canada or FDA approval....
- Carefully consider **side effects**.....

**WATERLOO**  
**PHARMACY**

## Associations between antipsychotics and adverse outcomes: The tale of safety.





## **CVAE warnings for atypical antipsychotics**

- Risperidone 2002-03
- Olanzapine 9/04
- Aripiprazole 1/05

**WATERLOO**  
**PHARMACY**

## **“Black Box” warnings**

- April 2005, FDA
- June 2005, Health Canada
- June 2008, FDA for typical APs

**WATERLOO**  
**PHARMACY**

## Bottom line?

- They are all potentially risky with a 1.5 to 1.8X greater risk of mortality.

**WATERLOO**  
**PHARMACY**

## Safety Considerations of particular importance in older people

- ↑ risk for antipsychotic-related AEs
  - EPS
  - Tardive dyskinesia (TD)
- Orthostatic hypotension
- Sedation
- Anticholinergic effects
- Cognitive impairment
- Cardiac conduction abnormalities
- ↑ fall risk due to any/all of above

**WATERLOO**  
**PHARMACY**

## ANTIPSYCHOTIC SIDE EFFECTS

	HAL	RIS	OLZ	QUET	ZIP	CLZ	ARIP
Anticholinergic	-	-	++	-/+	-	+++	-
Weight gain	+	+	+++	+	-	+++	-
Prolactin	+++	++	-/+	-	-	-	-
EPS/TD	+++	+/++	+	-/+	-/+	-	-
Sedation	-	+	+/++	+/++	-/+	+++	-/+
Cardiac	-	-	-	-	-/+	+	-

**WATERLOO**  
**PHARMACY**

## Evidence for the Efficacy of Antipsychotics and current use

- The best of a bad bunch.....



**Current evidence supports use of risperidone or aripiprazole, at least for up to 12 weeks for aggression or psychosis**

## **Efficacy and Adverse Effects of Atypical Antipsychotics for Dementia: Meta-analysis of Randomized, Placebo-Controlled Trials**

*Lon S. Schneider, M.D., M.S., Karen Dagerman, M.S.,  
Phillip S. Insel, M.S.*

*risperidone; increased risk for death overall was reported elsewhere. **Conclusions:** Small statistical effect sizes on symptom rating scales support the evidence for the efficacy of aripiprazole and risperidone. Incomplete reporting restricts estimates of response rates and clinical significance. Dropouts and adverse events further limit effectiveness. Atypicals should be considered within the context of medical need and the efficacy and safety of alternatives. Individual patient meta-analyses are needed to better assess clinical significance and effectiveness. (Am J Geriatr Psychiatry 2006; 14:191-210)*

**WATERLOO  
PHARMACY**

## **The reality**

- Risperidone or aripiprazole are not always effective (**nothing is**) nor always tolerated.
- Above factors (& others) lead to use of various drugs.
- Must therefore **carefully consider evidence & be knowledgeable regarding alternatives and their safety profile in this vulnerable population....**

**WATERLOO  
PHARMACY**

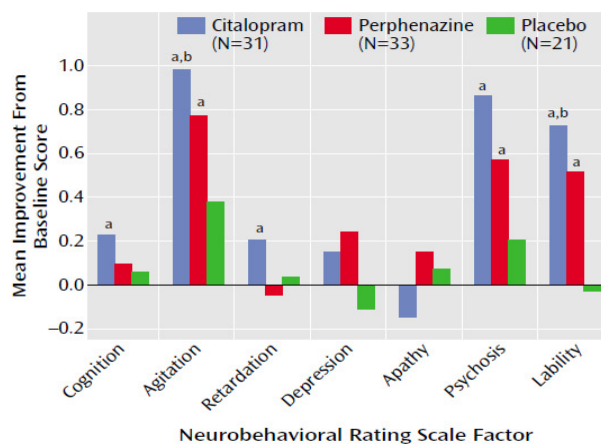
## Additional considerations

- Effect size for BPSD vs other diagnoses.
- Effect size for **NH vs community** subjects.
- Waxing and waning of BPSD/reassessment and discontinuation (to be covered later).

**WATERLOO**  
**PHARMACY**

## Are antidepressants helpful?

FIGURE 1. Change in Neurobehavioral Factor Scores From Baseline to Study Termination ( $\leq 17$  Days) in Patients With Dementia in a Randomized, Double-Blind, Placebo-Controlled Trial of Citalopram and Perphenazine



<sup>a</sup> Significant difference within group between baseline and termination scores (Wilcoxon signed-rank test,  $p < 0.05$ ).

<sup>b</sup> Significant difference between the citalopram and placebo groups (Kruskal-Wallis test,  $p < 0.05$ ).

# Are antidepressants helpful?

Lancet 2011; 378:403-11.

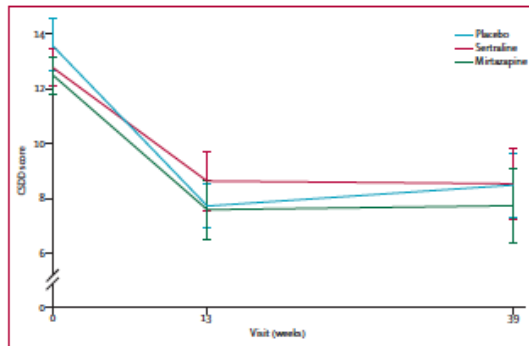


Figure 2: Unadjusted mean CSD scores by treatment group  
Lowest score is best. Error bars show 95% CIs. CSD= Cornell scale for depression in dementia.

Before you say no, consider:

1. Study setting
2. Other benefits
3. Power
4. Severity of depression
5. 50% overall failure of antidepressant studies, and not many have been done in AD
6. Lack of response to one SSRI does not predict it to the other

These drugs are used empirically for depression & aggression.

**WATERLOO  
PHARMACY**

## 5-HT drugs

- Fluoxetine:  $t_{1/2}$  can be a problem.
- Fluvoxamine: Nausea can be a problem.
- Paroxetine: Anticholinergic properties.
- **Citalopram/escitalopram: Very well tolerated.**
  - Citalopram: 5-10mg/day, can increase to 20mg/day
  - Escitalopram: 5-10mg/day, may increase to 20mg/day

**WATERLOO  
PHARMACY**

## 5-HT drugs

- **Sertraline: Well tolerated, good second choice.**
  - 25mg daily, may increase if needed.
- **Trazodone: Very well suited for sleep and aggression.**
  - Start with 25-50mg and titrate as needed

**WATERLOO**  
**PHARMACY**

## Mood stabilisers??

- VPA (Depakote and others)
  - Data from case reports & small case series.
  - Cochrane review concluded **no benefit**.
  - Dose to response/side effects.
  - **Would you draw levels?**
- Gabapentin
  - From case reports
  - Dose to response/side effects.
  - Drowsiness may be problematic
  - 100% renally excreted...
  - Best avoided

**WATERLOO**  
**PHARMACY**



## Mood stabilisers

- Carbamazepine
  - Evidence for efficacy better than w other mood stabilisers.
  - Can be difficult to use.
  - Would you draw levels?
  - Dosing?

**WATERLOO**  
**PHARMACY**

## Apathy Pharmacotherapy

- Evidence to guide us is scant...
  - AChEIs (donepezil)
  - Bupropion
  - Methylphenidate
  - ? Memantine

Mega MS. Arch Neurol 1999, Landes AM. JAGS 2001, Dolder CR. Ann Pharmacother 2010.

**WATERLOO**  
**PHARMACY**

## Inappropriate sexual behaviours

- Pharmacological approaches:
  - **Eliminate drugs that are disinhibiting (etoh, BZPs)**
  - Perhaps AChEIs
  - Most data are **case reports**
    - Citalopram, trazodone, quetiapine
    - Gabapentin
    - Estrogens
    - Leuprolide, cyproterone

**WATERLOO**  
**PHARMACY**

Tucker I. Int Psychogeriatrics 2010;22:683-92.

## Circadian Rhythm Disturbances

- **Nonpharmacologic therapies include:**
  - **keeping patients awake during the day with various external stimuli**
  - sometimes structuring short nap after lunch to avoid sundowning
  - **early evening activities**
  - **stimulus control at night**
  - **“white noise”**
  - bright light exposure

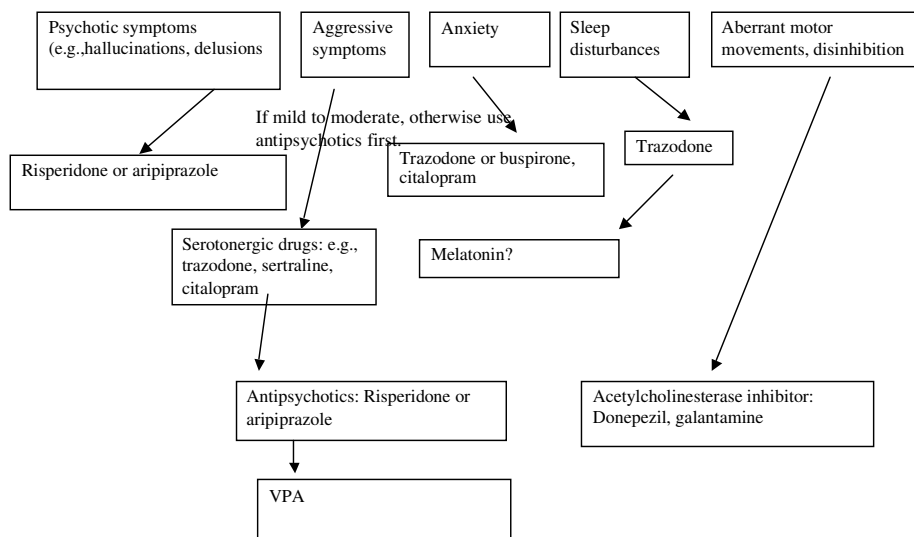
**WATERLOO**  
**PHARMACY**

## Circadian Rhythm Disturbances

- Pharmacologic interventions include melatonin, nonbenzodiazepine hypnotics (e.g. zopiclone, **trazodone**).
- Caregiver interventions include: educational programs, respite, and assistance with their own sleep needs.

**WATERLOO**  
PHARMACY

**Figure 1. Putative approach to BPSD**



**WPH** Alternatively, acetylcholinesterase inhibitors may be used as first line

## Measuring effectiveness

- Keep it simple & look at/measure:
  - Frequency
  - Severity
  - XS work due to symptom
- Alternatively:
  - Goal setting?

**WATERLOO**  
**PHARMACY**

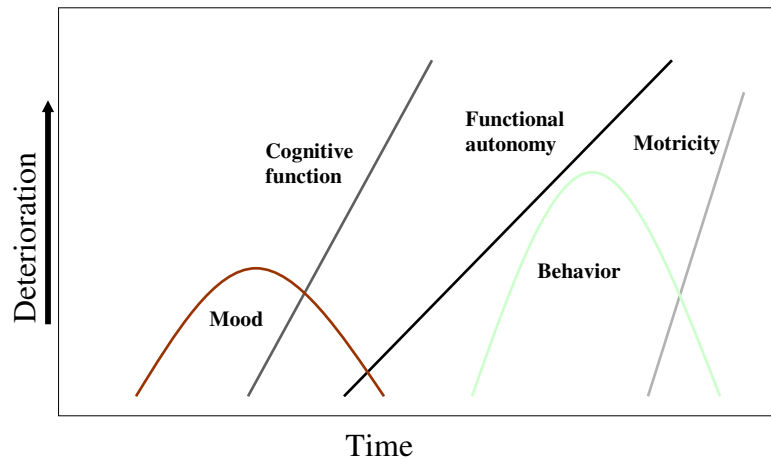
## How long to treat?

- Guidelines suggest attempt at lowering dose and stopping the medication **after 3 months of stability.**
  - E.g., Paranoid delusions or hallucinations occurred at  $\frac{3}{4}$  consecutive visits over 2 years of f/u in only 10-15% of patients. (Devanand 1997)

Herrmann N. Alzheimer's and Dementia 2007;3:385-97.

**WATERLOO**  
**PHARMACY**

## Symptomatic domains over time



**WATERLOO  
PHARMACY**

Gauthier, et al. 1996; Gelinas and Auer. 1996; Eastwood and Reisberg. 1996; Barclay, et al. 1985.

## Discontinuing antipsychotics is NOT a new concept!

168

THE NEW ENGLAND JOURNAL OF MEDICINE

July 16, 1992

### SPECIAL ARTICLE

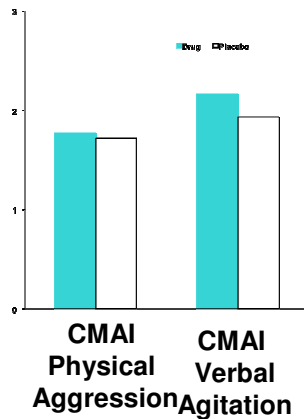
#### A RANDOMIZED TRIAL OF A PROGRAM TO REDUCE THE USE OF PSYCHOACTIVE DRUGS IN NURSING HOMES

JERRY AVORN, M.D., STEPHEN B. SOUMERAI, Sc.D., DANIEL E. EVERITT, M.D., DENNIS ROSS-DEGNAN, Sc.D., MARK H. BEERS, M.D., DAVID SHERMAN, R.Ph., SUSANNE R. SALEM-SCHATZ, Sc.D., AND DAVID FIELDS, M.D.

**Conclusions.** An educational program targeted to physicians, nurses, and aides can reduce the use of psychoactive drugs in nursing homes without adversely affecting the overall behavior and level of functioning of the residents. (N Engl J Med 1992;327:168-73.)

**WATERLOO  
PHARMACY**

## Withdrawal of haloperidol, thioridazine & lorazepam in NH Residents



- DB controlled crossover trial: 60% completed
- Mean duration of therapy: 16.5 months
- **No behavioral or functional differences detected after placebo crossover**

**WATERLOO  
PHARMACY**

Cohen-Mansfield J, Lipson S, Werner P et al. Arch Intern Med. 1999;159:1733-1740

## Ballard C, et al. A randomised, blinded, placebo-controlled trial in dementia patients continuing or stopping neuroleptics. PLoS Med 2008;5(4):e76.

### Conclusions

For most patients with AD, withdrawal of neuroleptics had no overall detrimental effect on functional and cognitive status. Neuroleptics may have some value in the maintenance treatment of more severe neuropsychiatric symptoms, but this benefit must be weighed against the side effects of therapy.

**Trial registration:** Cochrane Central Registry of Controlled Trials/National Research Register (#ISRCTN33368770).

**WATERLOO  
PHARMACY**

## Stopping antipsychotic drug therapy in demented nursing home patients: a randomized, placebo-controlled study—The Bergen District Nursing Home Study (BEDNURS)

**Results** By study completion, 23 of the 27 intervention group patients were still off antipsychotics. Symptom scores (NPI) remained stable or even improved in 42 patients (intervention group, 18 out of 27; reference group, 24 out of 28;  $p = 0.18$ ). As compared to patients with stable or improved symptom scores, patients with behavioural deterioration after antipsychotic cessation used higher daily drug doses at baseline ( $p = 0.42$ ).

**Conclusion** A large share of elderly nursing home patients on long-term treatment with antipsychotics for BPSD, do well without this treatment. Standardized symptom evaluations and drug cessation attempts should therefore be undertaken at regular intervals. Copyright © 2008 John Wiley & Sons, Ltd.

**WATERLOO**  
**PHARMACY**

## Summary

- Pharmacologic treatment is often indicated for BPSD.
- Use a structured approach (vs. using antipsychotics for all BPSDs).
- Revisit in a few months with a goal of stopping medications.

**WATERLOO**  
**PHARMACY**



## Web resources

- [www.ipa-online.org](http://www.ipa-online.org)
- <http://livingwithdementia.uwaterloo.ca/>
- [www.alzforum.org](http://www.alzforum.org)
- <http://www.alzheimer.ca/>

**WATERLOO**  
**PHARMACY**

## Case 1

- 85 year old female with AD has recently been telling her CG that she enjoys having a doorman at their house everyday.
- CG tells you no such person exists and wonders what he should do.
- Standard workup is unremarkable.
- No new medications added or deleted.
- No other consequences noted.

**WATERLOO**  
**PHARMACY**

## Case 1

Which is the best treatment option?

- A: Cholinesterase inhibitor
- B: Trazodone
- C: No drug therapy
- D: Risperidone

**WATERLOO**  
**PHARMACY**

## Case 2

- 80 year old female with multiple diseases and medications
- Dx: AF, hypothyroid, OA, OP, HTN, atonic bladder
- Rx: include warfarin, APAP, thyroxine, etc
- Recent INR: 1.1; TSH: 18; BP: 175/86

**WATERLOO**  
**PHARMACY**

## Case 2

- CG reports patient only takes ~ 50% of her doses & has hit him and their daughter when they try and help with her medicines.
- She is also very angry, and believes her husband is having an affair.
- Also believes that he and their daughter are plotting to poison her with all these drugs.

**WATERLOO**  
**PHARMACY**

## Case 2

Which is the best treatment option?

A: Cholinesterase inhibitor

B: Trazodone

C: Risperidone or aripiprazole

D: Olanzapine

**WATERLOO**  
**PHARMACY**

### Case 3

- 82 year old male with AD living in NH has been resisting care (i.e., bathing and grooming) & constantly gets up at night and wanders.
- The patient states he doesn't care to be bathed four times a week and doesn't like his new caregiver, Mike who works 3 days/week.
- Staff are able to provide care but they state that it takes longer on the days that Mike works.

**WATERLOO**  
**PHARMACY**

### Case 3

Which is best treatment option?

- A: Cholinesterase inhibitor
- B: Trazodone
- C: Valproic acid
- D: No drug therapy

**WATERLOO**  
**PHARMACY**

# Questions?



## We encourage you to report medication incidents

### Reporting and Prevention Systems Medication Incident and Near Miss Reporting Programs

**REPORT**  
a Medication Incident

#### [Practitioners](#)

Healthcare Professional - (e.g., nurse, pharmacist, physician)

**SafeMedicationUse.ca**  
Supported by Health Canada

#### [General Public](#)

Preventing harm from medication incidents is not just a responsibility for health professionals - **consumers like you** can also play a vital role.

**CPHIR**  
Community Pharmacy Incident Reporting

**CPHIR** - Community Pharmacy Incident Reporting Program

For participating community pharmacies.

**ANALYZE-ERR**

**Analyze-Err®**

For participating healthcare facilities.

## Post-session Questionnaires:

- | Post-session attendance statistics survey
- | An Evaluation link will be sent to you
- | Please complete



Visit us at:

- [www.shrtm.on.ca](http://www.shrtm.on.ca)
- <http://www.ismp-canada.org>
- [www.qualityhealthcarenetworkforum.com](http://www.qualityhealthcarenetworkforum.com)
- [www.hqontario.ca](http://www.hqontario.ca)
- [www.residentsfirst.ca](http://www.residentsfirst.ca)

*Thank You*

