Depression in Late Life

Robert Madan MD FRCPC Geriatric Psychiatrist

Key Learnings

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Key Learnings

- By the end of the session, participants will be able to
 - List the symptoms of depression
 - List 3 treatment modalities
 - List 3 side effects of antidepressants in the elderly

Outline

- Common Causes
- Assessment
- Management
- Implications for Practice

Prevalence of Geriatric Depression

- 4.4% in women, 2.7% in men for Major Depression (Cache County 2000)
- Sub threshold depression = 31.1%
- Worsens quality of life and health
- Increased service utilization and cost expenditure



Common Causes Robert Madan MD FRCPC

Biopsychosocial

- Biological Factors
 - Genetics and medical illness

Psychological vulnerability

- Social Circumstances
 - E.g., loss, moving, retirement...

Conditions Associated with Late Life Depression

- Arthritis
- Sensory loss
- Urinary tract/prostate disease
- Obesity
- Chronic Pain
- Diabetes

- Cerebrovascular disease
- Silent infarct
- Parkinson's
- Myocardial infarction
- CAD
- Cardiac catheterization

Medications Associated with Late Life Depression

- Cimetidine
- Clonidine
- Hydralazine
- Estrogens
- Progesterone
- Tamoxifen
- Vinblastine
- Vincristine

- Methyldopa
- Benzodiazepines
- Propranolol
- Reserpine
- Steroids
- Anti-Parkinsonian agents
- Beta-blockers

Vascular Depression

- Depression executive dysfunction syndrome
- Disruption of frontal-striatal circuits
- Symptoms
 - Apathy
 - Anhedonia
 - Executive dysfunction
 - Psychomotor retardation
- Poor response to Rx

Depression and Dementia

 Early and late-onset Depression increases the risk of dementia

- 2 meta analyses (Jorm 2001, Ownby 2006)
 - Case control and prospective studies
 - Risk increases **2-fold**

Hypotheses

- 1. Depression causes hippocampal damage
- 2. Prodrome to dementia
- 3. Depression as neuropsychiatric symptoms of dementia
- 4. Dementia and depression have common risk factors (vascular)
- 5. Depression as a reaction to dementia



Assessment

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Differential Diagnosis

- Major Depressive Disorder
- Bipolar Depression
- Persistent Depressive Disorder (dysthymia)
- Adjustment Disorder with Depressed Mood
- Substance/Medication Induced Depressive Disorder
- Depressive Disorder due to Another Medical Condition
- Bereavement

Symptoms of Major Depression

- *Depressed/empty
- *Anhedonia
- Sleep (less or more)
- Appetite (less or more)
- Reduced energy
- Poor concentration

- Guilt or worthlessness
- Psychomotor slowing or restlessness
- Thoughts of death or suicide
- Distress or impairment in functioning X 2 weeks

Symptoms of Major Depression

- S: sleep
- : interest
- G: guilt/worthlessness
 - E: energy
- C: concentration
- A: appetite
- P: psychomotor
- S: suicidal thoughts

Presentation

- More likely
 - Anhedonia
 - Cognitive complaints
 - Somatic symptoms
 - Vegetative symptoms
 - Irritability
 - Social withdrawal

- Less likely
 - depressed mood
 - Guilt/worthlessness

Subtypes

- Depression with psychotic features
 - Hallucinations
 - Delusions

Depression with seasonal pattern

Depression with anxious distress

"Anxious Depression"

- Anxious Distress:
 - 2 of: keyed up/tense, restless, concentration, fear that something awful will happen, feelings of losing control
- Compared to non-anxious depression
 - Predicts cognitive decline
 - Predicts suicide risk
- Poor prognosis
- Treatment implications

Bereavement

- Feelings of emptiness and loss
- Waves or pangs that decrease over days to weeks; assoc with reminders
- Can have positive emotions or humour
- Thoughts about deceased
- Self-esteem preserved
- Join the deceased

Assessment

- Collateral History
- Safety
- Physical exam
- Bloodwork
 - CBC, Lytes, Thyroid, B12, Calcium
- Imaging
- Driving

Rating Scales

- Geriatric Depression Scale
 - 15 item
- PHQ -9 Patient Health Questionnaire
- MADRS Montgomery Asperg Depression Scale
- Beck Depression Inventory

Management

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Treatment

Pharmacotherapy

Psychotherapy

Other somatic treatments

Start low and go slow

Start at ¼ to ½ the usual adult starting dose

Increase the dose slowly, in small increments

- Example
 - Citalopram 10mg starting dose (or 5 mg in some..) and increase by 10 mg increments

Antidepressants

- Response rates 48%, remission 33.7% a
- Evidence from Randomized Placebo Controlled Trials exists for:
 - Fluoxetine
 - Paroxetine
 - Sertraline
 - Duloxetine

Maintenance

Maintenance studies

NNT to prevent 1 recurrence in 2 years is 4

 Recurrence rates are high; up to 90% in 3 years in 1 seminal study

Serotonin Reuptake Inhibitors

- Sertraline (25-200mg)
- Citalopram (Qtc) (5-20mg)
- Escitalopram (Qtc) (5-10mg)
- Paroxetine (drug interactions, anticholinergic)
 - 10-40mg
- Fluoxetine (drug interactions) (10-40mg)
- Fluvoxamine (drug interactions) (25-200mg)

Other Antidepressants

- SNRIs: venlafaxine (37.5-300mg), duloxetine (30-120mg)
 - Hyponatremia, hypertension, orthostatic hypotension)
- Bupropion SR/XL (100-450mg)
 - Drug interactions, tremor, agitation
- Mirtazapine (7.5-45mg)
 - Anti-histaminic, very sedating, weight gain

Side Effects

- GI Bleeding
 - SSRI
- Hyponatremia
 - SSRI, SNRI
- Falls
- Qtc

Treatment resistant depression

- 2/3 do not remit with 1 trial
- Step 1 check adherence
- Adequate trial? 6 weeks at therapeutic dose
- If in partial remission
 - Psychotherapy
 - Pharmacotherapy

Augmentation

- Atypicals
 - *Quetiapine XR (Katilla et al., 2013)
 - Monotherapy
 - Aripirazole
 - Olanzapine, risperidone
- Lithium
 - 0.4 to 0.8 mmol/L
- T3
- Methylphenidate

Combinations

- Combine antidepressants with different mechanisms of action, never an MAOI
- Mirtazapine +
 - SSRI, SNRI, TCA, bupropion
- Bupropion +
 - SSRI, SNRI, TCA (drug interaction), mirtazapine
- TCA + SSRI

Electroconvulsive Therapy

- Procedure
- Efficacy
 - Remission rates of 75% or higher in MDD
- Risks
 - Meta-analysis of 2981 patients shows cognitive impairment 3 days post-treatment, improves above baseline by day 15

Psychotherapy

- Best evidence
 - Cognitive Behavioural Therapy
 - Problem Solving Therapy

- Interpersonal Therapy
- Group, family, supportive, dynamic

Implications for Practice

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Implications for Practice

- Depression is common in late life and has serious consequences
- Cognitive and Medical workup
- Treatment requires patience and persistence
- Watch for pharmacokinetic and pharmacodynamic drug interactions
- Multimodal treatment

Guidelines

CCSMH

Canadian Coalition for Seniors Mental Health

http://www.ccsmh.ca/en/default.cfm

Thank you!