



# Mood disorders in Older Adults

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## OBJECTIVES

Know and understand:

- Incidence and morbidity of depressive disorders among older adults
- Diagnostic criteria for depression and mania
- Treatment options for older adults with depression or mania
- Actions and side effects of drugs for depression and mania in older adults

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## TOPICS COVERED

- Epidemiology
- Clinical Presentation
- Diagnosis
- Treatment

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## Case Study

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67F HTN, DM, HL, and CAD was brought to the ED by her daughter for nausea, confusion, fatigue, and loss of appetite for 3 days. Patient felt sad since her sister passed away 6 weeks ago and was prescribed fluoxetine by her primary care physician 2 weeks earlier. On exam she was lethargic, only oriented to place and person, and had slow speech. Laboratory studies revealed serum sodium levels of 124 mmol/L.

Should SSRI have been prescribed ?

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Patient has grief

- ▶ Hyponatremia induced by SSRI
- ▶ Grief persists in most older adults with loss but *Complicated Grief* occurs when vegetative symptoms persist several months after a sentinel event

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## Case Presentation

- 82F arrives at Geriatric Clinic
- 4 months ago, she was tearful and sad.
  - Loss of appetite and interest in activities. Sleep problems
  - Son recently moved in with her after he lost his job and divorce.
  - No psychotic symptoms or suicidal ideation.
- History: depression, diabetes mellitus, hypertension, coronary artery disease, osteoarthritis
  - No history of suicide attempt or psychiatric hospitalization

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## Case continuation

- Medications: metformin, levothyroxine, hydrochlorothiazide, metoprolol, docusate, ibuprofen as needed
  - Trials of sertraline and venlafaxine were initiated 4 months ago, but poorly tolerated (GI symptoms).
  - Mirtazapine started 3 months ago & titrated to 45 mg nightly.
    - ❖ Better mood, sleep and appetite, and she cries less.
    - ❖ Still spends most of her time in bed and remains uninterested in usual activities
    - ❖ She is troubled by adverse effects of constipation and weight gain.
- Laboratory findings: hemoglobin A1c 8%; glomerular filtration rate 35mL/min; normal thyrotropin level

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## Case question

Which one of the following treatment options should be considered next?

- A. D/C mirtazapine and initiate nortriptyline.
- B. Cognitive-behavioral therapy.
- C. Add aripiprazole.
- D. Add nortriptyline
- E. Uni-polar electroconvulsive therapy.

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## Answer

Which one of the following treatment options should be considered next?

- A. Discontinue mirtazapine and initiate tricyclic antidepressant.
- B. Refer for cognitive-behavioral therapy.
- C. Add aripiprazole.
- D. Add lithium.
- E. Refer for electroconvulsive therapy.

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Older adults with depressive symptoms have increased length of stay and higher 30 day readmission rates than non – depressed elderly ?

- A. True
- B. False

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Older adults with depressive symptoms have increased length of stay and higher 30 day readmission rates than non – depressed elderly ?

- A. True
- B. False

2014 University of Maryland prospective cohort study on older adults (n=750) 65 years old and older found that LOS was 4.0 days and recidivism rate 19% in both depressed and non depressed elderly. Age, > 2 hospitalizations in past 6 months and Charlson Comorbidity Index score were significant predictors of 30 day re-hospitalization. JAGS (2014) 62:495.

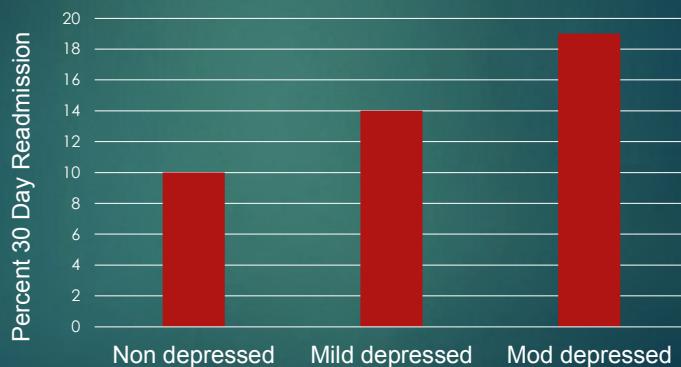
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## Characteristics of depressed hospitalized elderly



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## Dose – response of depression on re-hospitalization rates in middle aged adults (PHQ9)



J Hosp Med (2014) 9:358

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## Key points

- ▶ Determinants of acute care usage are different between middle aged and older adults
- ▶ Age, co-morbidities & hospitalization history predict older adult acute care use
- ▶ Depression is associated with higher disability and falls

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## Clinical practice change ideas

### for post - hospitalization

- ▶ Screen hospitalized elderly for depression (PHQ9 or GDS15)
- ▶ Refer screen + hospitalized patients to Fall Prevention clinic
- ▶ Consider social determinants of health (loneliness and social isolation) in your health care plan.

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## EPIDEMIOLOGY AMONG OLDER ADULTS

### ► Minor depression

- 15% (range 8 - 40%)
- Associated with
  - ↑ use of health services,
  - excess disability,
  - poor health outcomes,
  - ↑ mortality

### ► Major depressive disorder

- 6%–10% of older adults in primary care clinics
- 12%–20% of nursing home residents
- 11%–45% of hospitalized older adults

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## Late life depression



### Atypical manifestations

- Weight loss
- Fatigue
- Somatic symptoms
- Bereavement

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## 3 Stages of bereavement

1. Numbness (weeks)
2. Depression (weeks to one year)
3. Recovery

P.J. Clayton **Bereavement**

E.S. Paykel (Ed.), Handbook of Affective Disorders, The Guilford Press, New York (1982), pp. 403-415

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## Bereavement Symptoms

No gender differences:

- ▶ Depressive symptoms
- ▶ Sleep disturbance
- ▶ Crying
- ▶ Anorexia
- ▶ Nervousness
- ▶ Concentration problems / poor memory

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## Bereavement and Depression



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## Risk factors for persistent depression



- ▶ Younger age
- ▶ Grief beyond 2 months
- ▶ Hx of major depression
- ▶ Depression at 7 months

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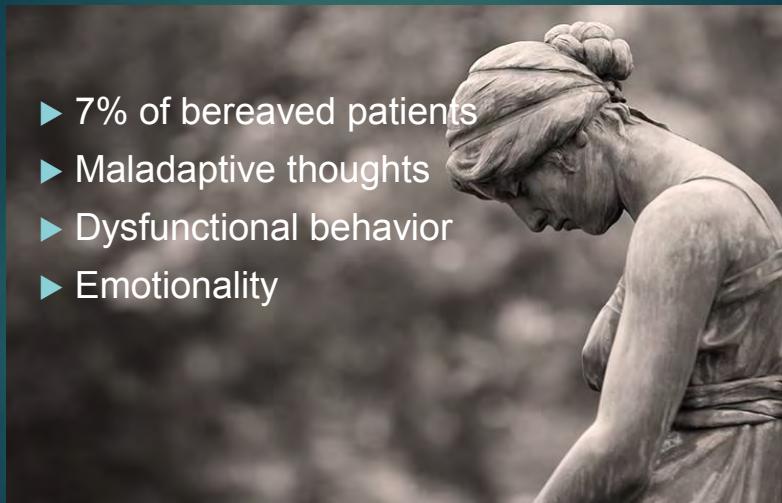
## How to communicate with bereaved patients

- ▶ Have patient tell their story of loss
- ▶ Ask about positive memories
- ▶ Ask how things are different now
- ▶ Who helps the patient get through the day
- ▶ Any loss of resources or transportation ?

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## Complicated Grief

- ▶ 7% of bereaved patients
- ▶ Maladaptive thoughts
- ▶ Dysfunctional behavior
- ▶ Emotionality



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# Complicated Grief vs Depression

## Complicated Grief

- ▶ Yearning,
- ▶ sorrow,
- ▶ preoccupying thoughts of the deceased,
- ▶ difficult acceptance of death

## Depression

- ▶ depressed mood,
- ▶ anhedonia,
- ▶ worthlessness,
- ▶ psychomotor and neuro-vegetative symptoms

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# A Clinical Trial of Complicated Grief Treatment

## 16 sessions

- ▶ Sessions 1 – 3:
- ▶ Sessions 4 – 9:
- ▶ Sessions 10 -16:

- ▶ history, daily grief monitoring, education
- ▶ memories and pictures
- ▶ imaginal conversation with deceased

[JAMA Psychiatry. \(2016\) 73\(7\): 685–694](#)

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## Complicated Grief Treatment trial

- n = 395 (4 sites)
- Decedent Age = 53 +/- 14
- ~ 33% violent death (accident, suicide)

NNT = 3.6  
SSRI did not improve outcome



[JAMA Psychiatry. 2016 Jul 1; 73\(7\): 685–694.](#)

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## Geriatric syndrome: Late Life Depression

- Older adults may be preoccupied with somatic symptoms and less frequently report depressed mood
  - Among those who do not acknowledge sustained sadness, anhedonia for at least 2 weeks is necessary for a diagnosis of major depressive disorder

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## Geriatric syndrome: Late Life Depression

- ▶ Diagnosis of depression in physically ill older adults is confounded by the overlap among symptoms of major depressive disorder and somatic illness
  - “Mood disorder due to a general medical condition” should be used for patients with depression that appears to result directly from a specific medical condition

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## SCREENING

### 9-Item Patient Health Questionnaire (PHQ-9)

- 9 items cover diagnostic criteria for major depressive disorder
- Those who acknowledge thinking they would be “better off dead” or “hurting themselves” should be asked about presence of a firearm in the home
- Initial 2 questions (PHQ-2) can be used for screening
- Serial administrations can be used to reliably assess response to treatment

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## SCREENING

PHQ-9 score	Depression severity	Clinician response
1–4	None	None
5–9	Mild to moderate	If not currently treated, rescreen in 2 weeks. If currently treated, optimize antidepressant and rescreen in 2 weeks
10–14	Major depressive disorder	Start antidepressant therapy
≥15	Major depressive disorder	Start antidepressant therapy; obtain psychiatric consultation if suicidality or psychosis suspected

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## SCREENING

### Geriatric Depression Scale (GDS)

- 15-items, Yes/No format
- Free of somatic and sleep queries
- Lacks suicidal ideation query
- Not useful for assessing treatment response

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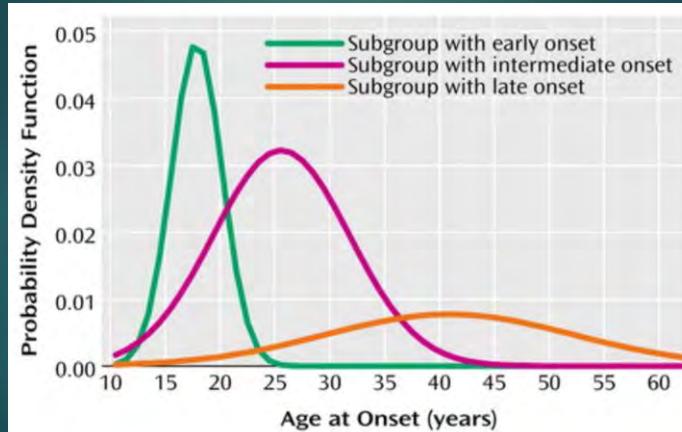


## Bipolar Disorder

- Prevalence low but numbers are increasing
- Do not ‘burn out’ in old age
- Longer episodes and shorter intervals between
- Less intense, more hostility & irritability

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## Incidence relative to age



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# Bipolar Disorder

## *DSM-5 criteria*

- ▶ type I (mania with or without depression)
- ▶ type II (major depressive disorder without mania but with hypomania)
- ▶ criteria unchanged with age

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# Bipolar disorder

- **Manic episodes** may present with confusion, disorientation, distractibility, and irritability rather than with elevated, positive mood
  - Inflated self-esteem, grandiosity, and contentious claims of certainty
- Presence of psychosis, sleep disturbance, and aggressiveness may lead to mistaken diagnosis of dementia or depressive disorder

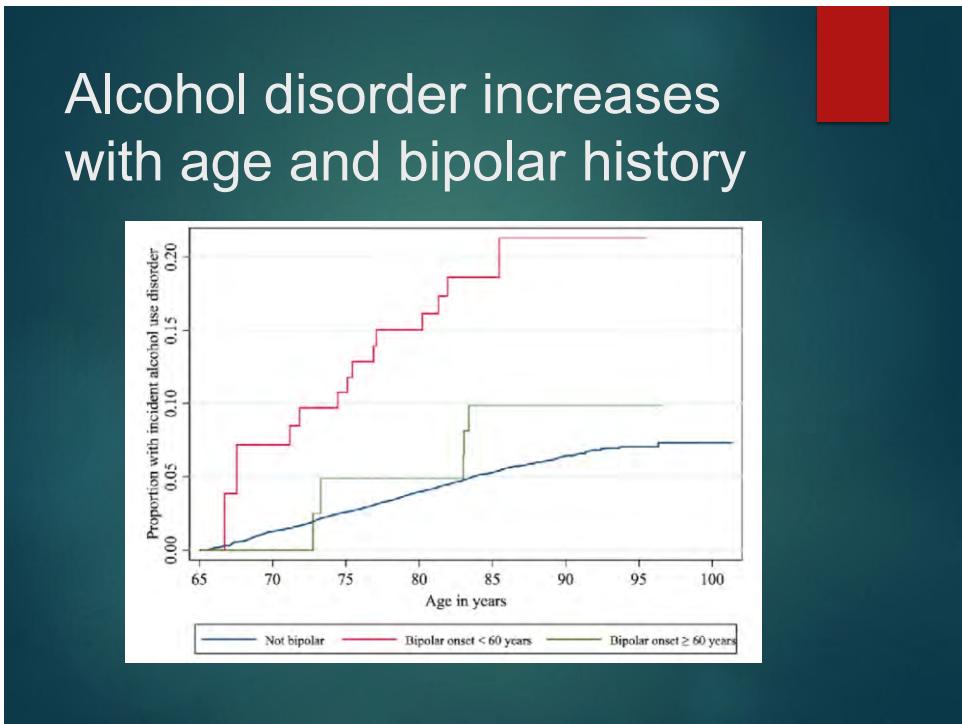
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## Bipolar Disorder

- ▶ Late-onset mania often associated with medical disorders (stroke, small vessel dx, dementia, brain atrophy or hyperthyroidism) or medications (antidepressants, steroids, stimulants)
- ▶ Excessive use of alcohol or tobacco
- ▶ Inquire about history of understated hypomania episodes

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## Bipolar disorder

- ▶ **Bipolar disorder type II** characterized by recurrent major depressive episodes interspersed with periods of hypomania
- ▶ **Past episodes of hypomania** may be unrecognized by patient and family
- ▶ **Mixed states** occur in which criteria for both mania and major depressive disorder are present

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## Bipolar summary

- ▶ Few fully recover despite symptom remission
- ▶ **Mania** causes hospitalization more, but **depression** accounts for more disability

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## Psychotic depression

- Patients have sustained, fixed, false beliefs (delusions) in association with depressed mood
  - Delusions are often plausible and focused on physical or medical preoccupations
- Suspect when the irrational belief focuses on somatic symptoms or around fears of a serious physical condition when no medical evidence can be identified to support the belief
- Patients often visit multiple specialists and obtain repeated testing

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## TREATMENT: OVERVIEW

- ▶ 50% of patients with major depressive disorder respond to initial antidepressant treatment
  - Additional 1/3 recover when switched to another agent or combined with a second antidepressant or psychotherapy
  - 40-60% of those who recover experience recurrence
- ▶ Current approach to mood disorders in late life:
  - Aggressive acute phase of treatment to bring about remission
  - Continuation treatment for an additional 6 months after symptom remission to prevent relapse
  - Maintenance treatment to prevent recurrence

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## FIRST WEEKS OF TREATMENT

- ▶ 4 weeks is adequate to identify those patients who at 12 weeks will be nonresponders or partial responders
  - At 4 weeks, 1/3 will be nonresponders, 1/3 will have responded fully, and 1/3 partially
- ▶ A visit or phone call within the first 10 days to insure adequate dosage and adherence and at week 4 may help identify patients who ultimately will not respond to initial treatment

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## ANTIDEPRESSANTS FOR OLDER ADULTS

- ▶ Selective Serotonergic Reuptake Inhibitors (SSRIs)
- ▶ Selective Serotonergic and Noradrenergic Reuptake Inhibitors (SSRI/SNRIs)
- ▶ Tricyclic Antidepressants (TCAs)
- ▶ Others

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## SSRIs

Drug	Initial Dosage	Final Dosage	Comments/Precautions
Citalopram	10 mg qam	20 mg qam	Risk of Qtc prolongation in doses >20 mg, nausea, tremor, hyponatremia, serotonin syndrome
Escitalopram	10mg qam	10-20 mg qam	Nausea, tremor, serotonin syndrome; reduce dosage in renal insufficiency
Sertraline	25mg qam	100-200 mg qam	Nausea, tremor, insomnia, serotonin syndrome

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## SSRIs/SNRIs

Drug	Initial Dosage	Final Dosage	Comments/Precautions
Duloxetine	20-30 mg qam	60mg qam	Drug interactions (CYP1A2, -2D6 substrate); chronic liver disease, alcoholism, increased serum transaminase; reduce dosage in renal insufficiency <a href="#">Int J Clin Pract</a> . 2007 Aug; 61(8): 1283-1293
Venlafaxine XR	37.5-75 mg qam	75-225 mg qam	Mild hypertensive; headache, nausea, vomiting; do not stop abruptly; reduce dosage in renal insufficiency
Vortioxetine	5mg qam	10-20 mg qam	Nausea; no data available on doses >5mg in older adults

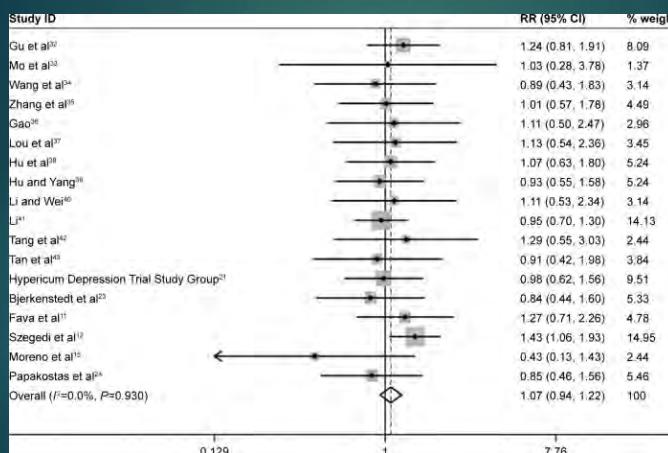
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## TCAs AND OTHER ANTIDEPRESSANTS

Drug	Initial Dosage	Final Dosage	Comments/Precautions
<b>TCAs</b>			
Nortriptyline	10-25 mg qhs	25-100 mg qhs	Glaucoma, prostatic disease, diabetes; may be fatal in overdose; therapeutic window 50-150 ng/mL serum level
<b>Other Antidepressants</b>			
Bupropion	75mg q12h 150 mg qam	150-300 mg 300 mg extended release qam	Agitation, insomnia, seizures
Mirtazapine	7.5mg qhs	15-45 mg qhs	Dry mouth, weight gain, potential for neutropenia, reduce dosage in renal insufficiency

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## St. John's Wort = SSRI



Neuropsychiatr Dis Treat. 2016; 12: 1715–1723

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Prescriber response guidelines at 4 weeks  
based on PHQ-9

### Sequenced Treatment Alternatives to Relieve Depression (STAR\*D) Studies

PHQ-9 score or change	Outcome	Clinician response
No decrease or increase	Nonresponse	Switch medication
Decrease of 2–4 points	Partial response	Add medication
Decrease of $\geq 5$ points	Response	Maintain medication
Score <5	Remission	Maintain medication

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### SSRI and SNRI side effects

- ▶ hyponatremia with serum sodium of less than 130 mmol/L
  - ▶ 0.06% to 2.6% for SSRIs (e.g., fluoxetine)
  - ▶ 0.08% to 4.0% for the SNRI venlafaxine

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## SSRI and SNRI side effects

- ▶ Falls and Fractures
- ▶ Canadian study 6600 post menopausal women HR 1.88 for fragility fractures (Osteoporos Int 2014;25(5):1473–81.)

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## CLINICAL SIGNS AND SYMPTOMS OF SEROTONIN SYNDROME

- ▶ Cognitive and behavioral changes: agitation, hyperactivity, worsening confusion, restlessness
- ▶ Diaphoresis
- ▶ Diarrhea and GI upset
- ▶ Fever usually >100.5°F
- ▶ Hyperreflexia with or without myoclonus
- ▶ Incoordination, ataxia, or new onset falls
- ▶ Ocular clonus
- ▶ Rhabdomyolysis
- ▶ Shivering
- ▶ Seizures
- ▶ Tremor

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## TREATMENT OF PSYCHOTIC DEPRESSION

- ▶ SSRI plus anti – psychotic effective in >60% of geriatric patients
- ▶ Electroconvulsive therapy (ECT)

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## PHARMACOTHERAPY OF MANIA: DIVALPROEX

### First-choice for treatment

- ▶ Therapeutic level of 50-100 mcg/mL
- ▶ If little to no response after 2 weeks, drug trial failed
- ▶ Inhibits hepatic enzymes
- ▶ CBC with PLT, AST, ALT, amylase should be performed at initiation of treatment, dose increase, and at least every 6 months

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## PHARMACOTHERAPY OF MANIA: ANTIPSYCHOTICS

- ▶ Second-generation antipsychotics
- ▶
- ▶ Since response to divalproex requires at least 3-week period, may use if mania is exhausting or associated with overly aggressive behavior

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## PHARMACOTHERAPY OF MANIA: LITHIUM

- ▶ Do not stop or switch if Li<sup>++</sup> is working
- ▶ Frequent reasons for discontinuation:
  - Diabetes insipidus, hyperglycemia, thyroid abnormalities, severe tremor, confusion, heart failure, arrhythmia, psoriasis
- ▶ Toxicity can occur at plasma concentrations below therapeutic threshold of 1 mEq/L
  - Manifestations: GI complaints, ataxia, slurred speech, delirium, coma
  - Mild tremor and nystagmus without functional consequences are frequent and should not be considered signs of toxicity

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## PHARMACOTHERAPY OF BIPOLAR DEPRESSION

- ▶ Mood stabilizers are preferable to antidepressants for late-life bipolar depression
  - Antidepressants should be used with caution due to risk of manic
  - Lamotrigine is preferable to lithium, divalproex, and carbamazepine due to its adverse-event profile and the likelihood of drug interactions

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## ELECTROCONVULSIVE THERAPY (ECT)



Dr. Charles Welch, a psychiatrist who treats Kitty Dukakis, demonstrates bilateral placement of electrodes in electroconvulsive therapy in a treatment room at McLean Hospital in Belmont.—M. Scott Brauer / The New York Times

- Treatment for major depression & mania
- 1<sup>st</sup> line treatment for suicide risk and inanition
- 1st-line for delusional depression; response rates ~80%
- 2x weekly x 4 weeks

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## REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION (rTMS)

- ▶ In a meta-analysis ( $n = 6$ ) ECT showed greater remission rates than rTMS
- ▶ Older adult response is not as robust

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## PSYCHOTHERAPY

- Individualize standard approaches
  - Cognitive-behavioral therapy
  - Interpersonal psychotherapy
  - Problem-solving therapy
- Combined with an antidepressant, has been shown to extend remission after recovery
- Watch for caregiver depression

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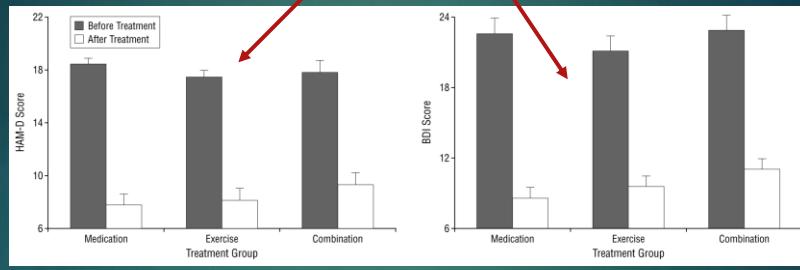
# Alternative Interventions



- Duke study: Aerobic exercise equivalent to SSRI
- 
- N=150, age 50 – 77
- 16 weeks, 75% HRmax walking 3x weekly
- Measured Hamilton Depression Scale and Becks Inventory

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## Role of Exercise



Arch Intern Med. 1999;159(19):2349-2356.  
doi:10.1001/archinte.159.19.2349

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# Behavioral Health interventions

- ▶ Intensive psychosocial interventions
  - Family-focused treatment
  - Interpersonal and social rhythms therapy
  - Cognitive-behavioral therapy
- Behavioral health managers
  - More often being used to manage depression through a disease management model

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## Ethno Geriatric considerations

Compared to white, non – Hispanic elderly, Native Americans are less adherent to SSRI treatment for depression.

True

False

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## Ethno Geriatric considerations

Compared to white, non – Hispanic elderly, Native Americans are less adherent to SSRI treatment for depression.

True

False

[Depress Anxiety. 2016 Aug; 33\(8\): 765–774.](#)

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### Caregiver Self-Assessment Questionnaire How are YOU?

Caregivers are often so concerned with caring for the relative's needs that they lose sight of their own well-being. Please take just a moment to answer the following questions. Once you have answered the questions, turn the page to do a self-evaluation.

During the past week or so, I have ...

- |  |                              |                             |   |                              |                             |
|--|------------------------------|-----------------------------|---|------------------------------|-----------------------------|
| 1. Had trouble keeping my mind on what I was doing....                           | <input type="checkbox"/> Yes | <input type="checkbox"/> No | 13. Had back pain.....  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. Felt that I couldn't leave my relative alone.....                             | <input type="checkbox"/> Yes | <input type="checkbox"/> No | 14. Felt ill (headaches, stomach problems or common cold).....  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. Had difficulty making decisions.....  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | 15. Been satisfied with the support my family has given me.....   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4. Felt completely overwhelmed.....  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | 16. Found my relative's living situation to be inconvenient or a barrier to care.....   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5. Felt useful and needed .....  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | 17. On a scale of 1 to 10, with 1 being "not stressful" to 10 being "extremely stressful," please rate your current level of stress.                        |                              |                             |
| 6. Felt lonely.....  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | 18. On a scale of 1 to 10, with 1 being "very healthy" to 10 being "very ill," please rate your current health compared to what it was this time last year. |                              |                             |
| 7. Been upset that my relative has changed so much from his/her former self..... | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <b>Comments:</b><br><i>(Please feel free to comment or provide feedback.)</i>   |                              |                             |
| 8. Felt a loss of privacy and/or personal time.....                              | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <hr/> <hr/> <hr/>   |                              |                             |
| 9. Been edgy or irritable.....   | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <hr/> <hr/> <hr/>   |                              |                             |
| 10. Had sleep disturbed because of caring for my relative.....                   | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <hr/> <hr/> <hr/>   |                              |                             |
| 11. Had a crying spell(s).....   | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <hr/> <hr/> <hr/>   |                              |                             |
| 12. Felt strained between work and family responsibilities...                    | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <hr/> <hr/> <hr/>   |                              |                             |

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# Campaign to End Loneliness Scale

1. I am content with my friendships and relationships
2. I have enough people I feel comfortable asking for help at any time
3. My relationships are as satisfying as I would want them to be

Rate 0 – 4 (0 = strongly agree)



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## SUMMARY

- Initial response to medication, first 4 weeks
- Trials of more than one antidepressant or combination therapy with two antidepressants may be required before remission is achieved
- Executive cognitive dysfunction is easily assessed and when present predicts poor response to medication as well as the need for adapted psychotherapy

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## SUMMARY

- Exercise reduces depressive symptoms and should be prescribed for all depressed older adults who are capable of increasing their level of physical activity
- Bipolar depression in older adults may be more common than previously thought and should be treated with a mood stabilizer rather than an antidepressant

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## CASE 2 (1 of 3)

- 82F follow-up clinic visit related to depression.
- She has had a partial response to mirtazapine, despite adequate dosage and duration of therapy.
  - She continues to spend much time in bed, is deconditioned, and has fallen twice.
  - Since beginning therapy, she has gained weight and is finding it difficult to control her diabetes.
  - During today's visit, she describes hopelessness and sometimes believes that she would be better off dead.
    - She denies any intent or plan to kill herself.
    - She reports frequent arguments with her unemployed son about finances.
  - There is no skilled provider for cognitive-behavioral therapy in the area.

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## CASE 2 (2 of 3)

Which one of the following treatment options should be considered next?

- A. Hospitalization and electroconvulsive therapy
- B. Referral for transcranial magnetic stimulation
- C. Augmentation with bupropion
- D. Switch from mirtazapine to duloxetine
- E. Referral for family therapy

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## CASE 2 (3 of 3)

Which one of the following treatment options should be considered next?

- A. Hospitalization and electroconvulsive therapy
- B. Referral for transcranial magnetic stimulation
- C. Augmentation with bupropion
- D. Switch from mirtazapine to duloxetine
- E. Referral for family therapy

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## CASE 3 (1 of 4)

- A 73-year-old woman comes to the office for follow-up. She was last seen 1 week ago, a few days after her husband's death from end-stage renal disease and metastatic cancer.
  - She had been his sole caregiver for the last 3 years and handled all medical and practical decisions in his last days.
  - She was distressed and barely able to speak.
  - She was sleeping poorly, had lost weight, and felt isolated and unable to function.
  - She declined medication to help her sleep and agreed to return in a few days for follow-up.

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## CASE 3 (2 of 4)

- Today, she is calmer, but she still cries easily, cannot sleep, and is unable to concentrate.
  - She realizes that she neglected her health during her husband's illness and wants to start taking care of herself, but she has a feeling of futility at the idea of engaging in any activity.
  - She states that she has no active or passive suicidal ideation.
- She has no children or other family, and she neglected friendships because of the demands of caregiving.
- History: hypertension, osteoarthritis, hypercholesterolemia

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### CASE 3 (3 of 4)

Which one of the following is the most appropriate course of action?

- A. No treatment is necessary for normal grief reaction.
- B. Start treatment with an antidepressant if she shows no improvement in 2 weeks.
- C. Consider psychiatric diagnosis unrelated to grief.
- D. Encourage her to start seeing friends.

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### CASE 3 (4 of 4)

Which one of the following is the most appropriate course of action?

- A. No treatment is necessary for normal grief reaction.
- B. Start treatment with an antidepressant if she shows no improvement in 2 weeks.
- C. Consider psychiatric diagnosis unrelated to grief.
- D. Encourage her to start seeing friends.

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