

Update on Depression, Anxiety, and Mood Disorders

Greg Sullivan, MD October 25, 2019

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Disclosures

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I have no relevant financial relationships to disclose.

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Learner Objectives

- 1. Describe the impact depression and anxiety play in long-term morbidity and mortality.
- 2. Identify a primary mood disorder and associated first- and second-line treatments.
- 3. Recognize a primary anxiety disorder and select most appropriate treatment.
- Demonstrate an understanding of the overlapping roles that primary psychiatric and primary medical problems may play in pathology.

Why is this topic important?

Depression 1

Estimates of up to 50% are cited regarding LTC residents with a diagnosis of depressive disorder or depressive symptoms

Bipolar Disorder 2

As many as 10% of LTC residents are diagnosed with bipolar disorder

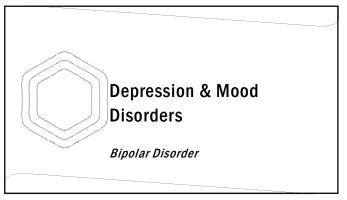
Anxiety 3

Estimates of anxiety symptoms range up to 58% in residential LTC

Sleep 4,5

Insomnia disorder prevalence exceeds 15% in 55+ population, insomnia symptoms are reported by greater than 50% in 65+

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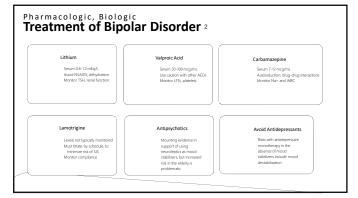
Diagnostic Criteria ⁶ Bipolar I Disorder, manic episode

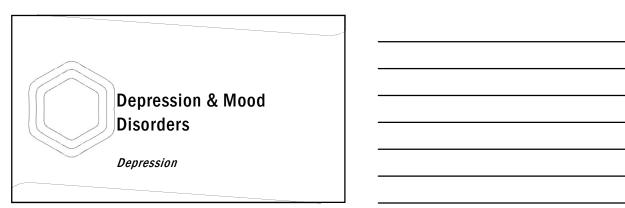
- $\textbf{A} \textbf{A} \ distinct period of abnormally and persistently elevated, expansive, or irritable mood and abnormally and persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy, lasting at least 1 week and present most of the day, nearly every day (or any persistently increased activity or energy).$ duration if hospitalization is necessary).
- **B** During the period of mood disturbance and increased energy or activity, three (or more) of the following symptoms (four if the mood is only irritable) are present to a significant degree & represent a noticeable change from usual behavior:
- 1) Inflated self-esteem or grandiosity.

- 1) Inflated self-esteem or grandiosity.
 2) Decreased need for sleep.
 3) More talkative than usual or pressure to keep talking.
 4) Flight of ideas or subjective experience that thoughts are racing.
 5) Distractibility, as reported or observed
 6) Increase in goal-directed activity or psychomotor agitation
 7) Excessive involvement in activities having high potential for painful consequences

C - The mood disturbance is sufficiently severe to cause marked impairment in social or occupational functioning or to necessitate hospitalization to prevent harm to self or others, or there are psychotic features.

- Same as manic episode, except lasting at least 4 consecutive days rather than 1 week	
– Same as manic episode:	
Inflated self-esteem or grandiosity. Decreased need for sleep. More talkative than usual or pressure to keep talking. Flight of ideas or subjective experience that thoughts are racing. Distractibility, as reported or observed	
Increase in goal-directed activity or psychomotor agitation Excessive involvement in activities having high potential for painful consequences	
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Excessive involvement in activities having high potential for painful consequences	tomatic.
Excessive involvement in activities having high potential for painful consequences - Associated with unequivocal change in functioning uncharacteristic of the individual when asymptone in the control of the individual when a control of the control of the individual when a control of the control of the control of the individual when a control of the	itomatic.





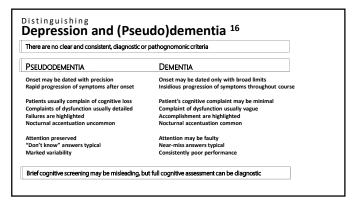
Morbidity 7.8 Associated with cardiovascular disease, diabetes, treatment noncompliance, and dementia Cost of Depression Associated with increased care utilization costs and decreased chance of acute recovery 7 Mortality 9 Odds of dying may be up to 1.5-2.0 times higher in elderly with depression In 2010 an estimated \$44+ billion in direct costs were paid for individuals 50+ with MDD 10

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Diagnostic Criteria Major Depressive Disorder A - Five or more of the following symptoms, present during a 2-week period, represent a change from previous level of function, and include at minimum (1) or (2) 1) Depressed mood most of the day, nearly every day, as indicated by either subjective report or observation 2) Markedly diminished interest or pleasure in all, or almost all, activities most of the day, nearly every day 3) Significant weight loss when not dieting or weight gain, or decrease or increase in appetite nearly every day 4) Insomnia or hypersomnia nearly every day 5) Psychomotor agitation or retardation nearly every day 6) Fatigue or loss of energy nearly every day 7) Feelings of worthlessness or excessive or inappropriate guilt nearly every day 8) Diminished ability to think or concentrate, or indecisiveness, nearly every day 9) Recurrent thoughts of death (not just fear of dying), recurrent suicidal ideation without a specific plan, or a suicide attempt or a specific plan for committing suicide B – Symptoms cause clinically significant distress or impalment in social, occupational, or other function C – Episode not attributable to physiologic effect of a substance or another medical condition

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Clinical Criteria Endicott Substitution Criteria 15 A - Five or more of the following symptoms, present during a 2-week period, represent a change from previous level of function, and include at minimum (1) or (2) 1) Tearfulness, fearfulness, or depressed appearance in face or body posture 2) Markedly diminished interest or pleasure in all, or almost all, activities most of the day, nearly every day 3) Significant weight loss when not dieting or weight gain, or decrease or increase in appetite nearly every day 4) Social withdrawal or decreased talkstdeness 5) Psychomotor agitation or retardation nearly every day 6) Brooding, self-pity, or pessimism 7) Feelings of worthlessness or excessive or inappropriate guilt nearly every day 8) Cannot be cheered up, doesn't smile, no response to good news or humorous situations 9) Recurrent thoughts of death (not just fear of dying), recurrent suicidal ideation without a specific plan, or a suicide attempt or a specific plan for committing suicide B - Symptoms cause clinically significant distress or impairment in social, occupational, or other function C - Episode not attributable to physiologic effect of a substance or another medical condition



Clinical Diagnostic Pearls Geriatric Depression 7, 8 Diagnosis is complicated by characteristics of aging, comorbidities, polypharmacy, and other factors - Psychomotor slowing and decreased energy may overlap with simple aging and medical illness - Concentration deficits may overlap with neurocognitive impairment or disorders - Simple aging may elicit thoughts of mortality, which can be mistaken for suicidal ideation Certain characteristics may be more suggestive of depression in the elderty - Hopelessness, worthlessness, and overt wish for death - Cognitive nihilisms, subtle delusion, or paranola - Regative view of the past, present, self, and future which is different from baseline Patient may endorse symptoms in different ways - Affective symptoms are frequently denied or minimized - Emotional evidence of mood disturbance may be missed - Anniety and anhedonial should raise suspicion - Somatic complaints are common (headache, abdominal pain, etc.)

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Pharmacologic, Biologic
Treatment of Depression

SSRI Selective Serotonin Reuptake Inhibitors
Limit reabsorption of serotonin into the presynaptic cell

SNRI Serotonin-Norepinephrine Reuptake Inhibitors
Limit reabsorption of serotonin and norepinephrine into the presynaptic cell

AA Atypical Antidepressants
Various mechanisms of action different from traditional antidepressants.

TCA Tricyclic Antidepressants
Block serotonin and norepinephrine transporters

... Stimulants, Augmentation, TMS, ECT
Various mechanisms, typically best-managed by specialist

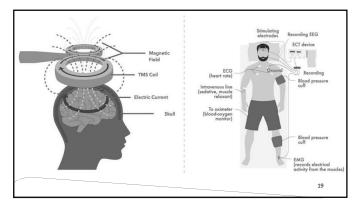
Pharmacologic, Biologic Treatment of Depression	
SRI Selective Serotonin Reuptake Inhibitors Limit reabsorption of serotonin into the presynaptic cell	
 citalopram ⇒ Generally well-tolerated, but consider checking EKG escitalopram ⇒ Well-tolerated, starting dose same as maintenance dose 	
parexistine Significant anticholinergic effects sertraline Generally well-tolerated, highest potential for GI effects	
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Pharmacologic, Biologic Treatment of Depression	
Treatment of Depression	_
:VentafavioeNagepiniephrinteReluptekeddinhitossrance	
oxetine Cenerally Well-tollerated, tenefits for pain control venlafaxine Well-tolerated, monitor for increase in DBP	
• levomilnacipran > Highest NE:5HT ratio, quite expensive	
17	
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Pharmacologic, Biologic Treatment of Depression	
 bupropion Well-tolerated, no sexual side effects, energizing mirtazapine Well-tolerated, may improve sleep and appetite 	
Action And Action	
vortioxetine	

Pharmacologic, Biologic Treatment of Depression

- Avoid tertiary amine TCAs

 Amitriptyline, imipramine, doxepin
- If requiring a TCA, use a secondary amine
 Nortriptyline, designating lic Antidepressants
 TCA
 Block serotonin and norepinephrine transporters
- Monitor for cardiac concerns
 BBB raises risk of symptomatic AV block

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Psychotherapeutic, non-pharmacologic
Treatment of Depression

CBT Cognitive Behavioral Therapy
Short-term, evidence-based treatment, with structured sessions and practical approach

MM Meditation and Mindfulness
Allotment of dedicated time to self-awareness and incorporation of present-mindedness

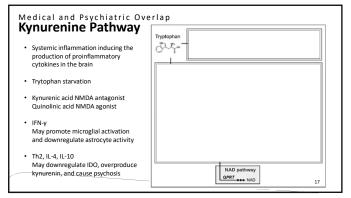
PD Psychodynamic

PA Psychoanalytic

"ACT, IPT, PPT, and numerous others

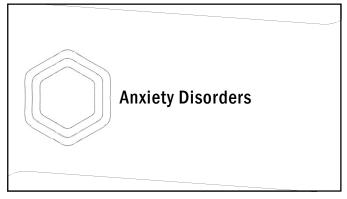
Psychotherapeutic, non-pharmacologic Treatment of Depression CBT Cognitive Behavioral Therapy Short-term, evidence-based treatment, with structured sessions and practical approach Most typically administered by MD, DO, PhD, LCSW, LMHC, etc. Evidence suggests that cardon after a multipropagans are just as effective and demonabeling lasting processor and interpretable of the providers 11 Highly structured, is effective in either individual or group formats Generally any member of the staff can be trained in relaxation, mindfulness skills, thereby making delivery to patients or residents seamless and comprehensive Formats often serve additional benefits to physical function (e.g. Tai chi) Effective in either individual or group formats

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Evolutionary and Psychiatric Overlap Sickness Behavior 18 Some theorists argue neurovegetative symptoms of depression have been genetically selected Exogenous advantages Reduces overall movement, conserving energy Overall metabolic energy expended in fever rather than movement Limits potential exposure to predation during periods of impairment Endogenous advantages Lowered pain threshold ensures that injuries are not overlooked Reduced grooming and respiration may reduce insensible water losses Anorexia prevents continued ingestion of illness promoting substances Anorexia may also reduce iron levels which are bioavailable during infection Social advantages Limited mobility and social withdrawal prevents transmission of infection Behavioral changes may signal health status to group members



Anxiety Disorders 12

Prevalence in the US estimated to be 18%, up to 70% in people with chronic disease

Adverse Impacts 11

Overall quality of life, sleep, health outcomes, and mortality are

Burden of Cost $^{12}\,$

Contributed to an estimated 26.8 million disability-adjusted life years in 2010

Associations 11

Consistent correlation with depression, lower perceived quality of life, pain, and lower perceived

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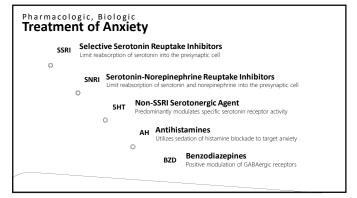
Diagnostic Criteria Generalized Anxiety Disorder 6

- A Excessive anxiety and worry (apprehensive expectation), occurring more days than not for at least 6 months, about a number of events or activities.
- B The individual finds it difficult to control the worry.
- C Anxiety and worry associated with 3+ of the following symptoms:

- 1) Restlessness or feeling keyed up or on edge.
 2) Being easily fatigued.
 3) Difficulty concentrating or mind going blank.
 4) Irritability.
 5) Muscle Tension.
 6) Sleep disturbance (difficulty falling or staying asleep, or restless, unsatisfying sleep.
- $D,E,F-Cause\ clinically\ significant\ distress,\ not\ attributable\ to\ effects\ of\ substance\ or\ another\ medical\ condition,\ and\ not\ better\ explained\ by\ another\ mental\ disorder.$

Diagnostic Criteria Panic Disorder 6	
A. Recurrent unexpected panic attacks (an abrupt surge of intense fear or intense discomfort that	
reaches a peak within minutes, and during which time four (or more) of the following symptoms occur: 1) Palpitations, pounding heart or accelerated heart rate 9) Chills or heat sensations	-
2) Sweating 3) Trembling or shaking 4) Sensations of shortness of breath or smothering 10) Paresthesia (numbness or tingling sensations) 11) Derealization (feelings of unreality) or	
5) Feelings of choking depersonalization (detached from self) 6) Chest pain or discomfort 12) Fear of losing control or	
7) Nausea or abdominal distress "going crazy" 8) Feeling dizzy, unsteady, light-headed, or faint 13) Fear of dying	
B. At least one of the attacks has been followed by 1 month (or more) of one or both of the following Persistent concern or worry about additional panic attacks and consequences	
Significant maladaptive change in behavior due to panic attacks C, D: Not attributable to effects of substance or another medical condition, and not better explained by	
another mental disorder.	
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Clinical Diagnostic Pearls Geriatric Anxiety Disorders 13	
Research has not supported a qualitatively different presentation based upon age of onset	-
The clinical evaluation should be customized to the population:	
 Use a broad array of terms: anxiety, concerns, nerves, think too much, fret Give examples of worries and avoidance behaviors that are age-appropriate. Probe areas of health, finances, social support, perceived medical support, existential fears. 	
 Don't ask whether worry is "excessive," but instead inquire whether friends or relatives believe the individual worries too much or whether description suggests high 	
frequency or severity. 4) Note that depression and anxiety frequently coexist. 5) Be aware of the potential for co-occurring cognitive impairment,	
either as a direct consequence of the anxiety ("pseudodementia") or situations where anxiety may precede cognitive	
decline.	
29	
Most Common latrogenic Outcomes of	
Most Common latrogenic Outcomes of Unrecognized Anxiety 13	
Assista disasdas	
Anxiety disorder	

Pharmacologic, Biologic Treatment of Anxiety
Selective Serotonin Reuptake Inhibitors Limit reabsorption of serotonin into the presynaptic cell
SNRI Serotonin-Norepinephrine Reuptake Inhibitors Limit reabsorption of serotonin and norepinephrine into the presynaptic cell
Atypical Antidepressants Various mechanisms of action different from traditional antidepressants.
TCA Tricyclic Antidepressants Block serotonin and norepinephrine transporters
Stimulants, Augmentation, ECT Various mechanisms, typically best-managed by specialist



Pharmacologic, Biologic Treatment of Papietssion SSRI Selective Serotonin Reuptake Inhibitors Limit reabsorption of serotonin into the presynaptic cell • citalopram ⇒ Generally well-tolerated, but consider checking EKG • escitalopram ⇒ Well-tolerated, starting dose same as maintenance dose • fluoretine → Numerous interactions with other medications • fluoretine → Significant anticholinergic effects • sertraline ⇒ Generally well-tolerated, highest potential for GI effects For anxiety... higher doses may be required

Pharmacologic, Biologic Treatment of Appiæssion	
SNRI Serotonin-Norepinephrine Reuptake Inhibitors Limit reabsorption of serotonin and norepinephrine into the presynaptic cell	
desvenlafaxine	
 venlafaxine	
• levomilnacipran → Highest NE:5HT ratio, quite expensive	
34	
Pharmacologic, Biologic Treatment of Anxiety	
,	
Buspirone	
Selective serotonin subtype 1A partial agonist	-
Ve I-tolerated ระหายสม่อกสิโร เมาะหา elderly Ur nately requires BID 中的 dosing tonin receptor activity Less efficacious in patients with history of	-
benzodiazepine use for management of anxiety	
35	
	_
Pharmacologic, Biologic Treatment of Anxiety]
Treatment of Anxiety	
Avoid in older or medically-complex patients	-
Anticholinergic effects can be problematic	
If required, monitor closely for sedation, delirium	
hydroxyzine may be mast sommes Utilizes sedation of histamine blockade to target anxiety	

Pharmacologic, Biologic Treatment of Anxiety

- Avoid in older, cognitively-impaired, or fall-risk
- Avoid with comorbid substance abuse
- If required, monitor closely for sedation, diversion Shorter-acting agents are preferred for use in the elderly when necessary, but longer-acting agents have fewer associations with rebound anxiety and lower risk of dependence and mississipation of GABAergic receptors

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Psychotherapeutic, non-pharmacologic **Treatment of Anxiety**

CBT Cognitive Behavioral Therapy

ith structured sessions and practical approach

- Most typically administered by MD, PhD, LCSW, LMHC, etc.
- Most typically administered by with, Philip, LESWY, LIMITE, ECC.
 Evidence suggests that certain therapeutic programs are just as effective and demonstrating lasting effects when provided by supervised, non-expert lay providers ¹¹
- Highly structured, is effective in either individual or group formats

MM Meditation and Mindfulness Allotment of dedicated time to self-aware

- Generally any member of the staff can be trained in relaxation, mindfulness skills, thereby making delivery to patients or residents seamless and comprehensive
 Formats often serve additional benefits to physical function (e.g. Tai chi)
 Effective in either individual or group formats

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Thoughts Behavior Feelings Cognitive Behavioral Therapy

- Peaceful Living is an example of CBT which has been modified to facilitate ease of delivery in various care scenarios 14 CBT for late-life GAD produces long-term improvements extending at least 12 months beyond treatment completion, also improving sleep and depression 11

Important Points in M	Managing Anxiety	
por cane r onico in in	gg.r.i.meey	
Avoid	Avoid	Assess
Benzodiazepines	Anticholinergics	Contributors
Lorazepam Alprazolam	Diphenhydramine Doxylamine	Sleep difficulties Chronic or acute pain
ClonazepamChlordiazepoxide	Hydroxyzine Dicyclomine	Cardiac diseaseUnderlying depression
Temazepam	Hyoscyamine Amitriptyline	Environment
	Doxepin	Staffing Social support
(where possible)	(where possible)	
)		
(1.10) Prevalenc	e estimates of de	pressive
	C, using the MDS,	
which of the foll		3.03031 10
which of the foll	lowings	
A. 10%		
B. 90%		
C. 30%		
D. 50%		
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1		
(1 1/1) \A/i+h \u/h-	t was Major Depr	rossion
	e Longitudinal Agi	ing Study
Amsterdam?		
A. Poorer self-perceived he	ealth	
B. Increased social network		
	:	
C. Married status		
D. External locus of control	I	

_ _ _

(9.3) Which of the following has proven to be the most robust predictor of late-life depression?	
A. Religious involvement B. Perceived social support C. Personality pathology D. Cognitive distortions	
46	
(10.12) An older patient with bipolar disorder who has been maintained on lithium for many years presented to the ED with lithium toxicity. Which of the following is the most likely cause?	
A. The patient's lisinopril was discontinued B. The patient's naproxen was increased C. The patient's renal clearance increased with age D. The patient's theophylline was increased	
47	
(12.2) What is the prevalence of anxiety disorders in the elderly?	
A. The prevalence of late-life anxiety is currently unknown B. All of the anxiety disorders are less common in older adults C. If present, anxiety disorders are typically comorbid conditions stemming from depression and/or cognitive decline	
D. Anxiety disorders are the most prevalent disorders in older adults	

(23.4) Which of the following is the most studied psychotherapy modality for depression in older adults? A. Psychodynamic psychotherapy B. Interpersonal therapy C. Cognitive-behavioral therapy D. Problem-solving therapy	
(25.2) Which of the following has NOT been	
shown to be associated with depression among LTC residents?	
A. Diabetes B. Increase in pain complaints C. Risk of delirium	
D. Unchanged nutritional status	
50	
(25.10) Which of the following is a component of the intrinsic system of mental health care in LTC?	
A. Optimizing the ways staff and residents interact B. Evaluating the interactions between medical and mental health problems C. Establishing psychiatric diagnoses	
C. Establishing psychiatric diagnoses D. Administering specific treatments for mental disorders	
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References:
1. Martin Columnia - Sengian M. Pay, Naci E. Valvenich B. Longs are conserved on the lated States. 231 convolves National Contact for Health Statistics. Vital Health Statistics. 2016. The contributed and statistics are contributed as a few statistics. As et al. 2017. The contributed or statistics are contributed as good good and statistics. As et al. 2017. The contributed or statistics are contributed as statistics. 2017. The contributed or statistics are contributed as statistics. 2017. The contributed or statistics are contributed as statistics. 2017. The contributed or statistics are contributed as statistics. 2017. The contributed or stat

Additional Resources:

Bipolar Disorder:

• Depression • Anxiety

Article: Bipolar Disorder in Long Term Care
Article: Late Life Depression Detection: An Evidence-Based Guideline
Article: Treatment of Anxiety Disorders
Article: Pharmacological Management of Anxiety Disorders in the Elderly

- Psychopharmacology Reference Table: Dr. John Bradley, Chief of Psychiatry MH Service VA Boston Healthcare System
- Peaceful Living CBT Protocol Manual: Quijano, Calleo, Wetherell, and Stanley
- Assessment tools for depression, anxiety
 Relaxation exercises, mindfulness strategies

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Thank you for your time