

Journal of Depression and Anxiety Disorders

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Management of Depression and Anxiety in Primary Care -**An Update**

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Abstract

Depression and anxiety are the most common mental health diagnoses in primary care. In this article, we discuss changes in Diagnostic and Statistical Manual of Mental Disorders (DSM) with respect to depressive and anxiety disorders. We also provide a brief overview of assessment of these disorders and associated safety concerns, while maintaining focus on the pharmacologic and non-pharmacologic interventions for the management of depression and anxiety in primary care.

Index Words

Primary care, Mental illness, Psychiatry

Introduction

Depression is a highly prevalent public health concern affecting an estimated 300 million people worldwide in a given year [1]. It is the leading cause of disability worldwide and one of the major causes of completed suicide [2,3]. Similarly, anxiety disorders affect a large portion of the population with the lifetime prevalence noted as 10-16% [4]. In 2001, the estimated number of visits for depression in office-based settings was an alarming 24.5 million, 64% of these visits were with primary care providers [5].

Changes in Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5)

In May 2013, the American Psychiatric Association (APA) published DSM-5, which included new diagnosis of disruptive mood dysregulation disorder (DMDD) in children under the category of depressive disorders. This disorder is characterized by chronic irritability and frequent tantrums. Premenstrual dysphoric disorder has been recognized as a separate diagnosis. Persistent depressive disorder represents a consolidation of previously defined chronic major depressive disorder and dysthymic disorder. DSM-5 allows diagnosis of Major Depressive Disorder (MDD) during bereavement based on symptom severity and associated impairment. Additional specifiers for MDD such as: With anxious distress, mixed, melancholic, atypical, mood-congruent/incongruent psychotic features, catatonia, peripartum onset and seasonal pattern, have been included.

The anxiety disorders section from the fourth edition of DSM (DSM-IV) is now separated into three distinct chapters in DSM-5. 1) Anxiety disorders; 2) Obsessive compulsive and related disorders; 3) Trauma and Stressor related disorders. Anxiety disorders now include selective mutism and separation anxiety disorder. Social Phobia is renamed as social anxiety disorder. Panic attack, is now a specifier for any mental disorder including anxiety, mood, psychotic, substance use and personality disorders. Obsessive compulsive and related disorders now include body dysmorphic disorder, trichotillomania and excoriation disorder and a new category of hoarding disorder. Trauma and Stressor related disorders now include reactive attachment disorder (RAD) and a new category of disinhibited social engagement disorder, formerly called RAD, disinhibited type. Besides Post traumatic stress disorder (PTSD) and acute stress disorder, adjustment disorders are also included in this chapter.

Management

Some of the screening tools to assist primary care providers are listed in Table 1. Most of the instruments available online are free and easy to interpret.

The main treatment goal for depression is complete resolution of symptoms. Other treatment objectives are to minimize duration of disease, reduce morbidity and associ-

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Questionnaire	Number of items	Threshold score	Copyrighted	Indication in population
Patient health questionnaire - 9 (PHQ-9)	9	10 of 21	No	Adults, adolescent (modified)
Patient health questionnaire - 2 (PHQ-2)	2	3 of 6	No	Adults, adolescents
Beck depression inventory - II (BDI-II)	21	20 of 63	Yes	Adults, adolescents
Child depression inventory - 2 (CDI-2) Short	12	7-10 of 24 (Age, gender based)	Yes	Ages: 7-17 years

Table 1: Depression screening questionnaires.

Table 2: Assessing severity of deperssive disorders (DSM-5).

8 of 21

6 of 15

10 of 30

14

15

10

Specifier	Symptoms	Intensity	Impairment
Mild	Few, if any, in excess of threshold symptoms	Distressing but manageable	Minor
Moderate	In-between mild & severe	In-between mild &severe	In-between mild & severe
Severe	Substantially in excess of threshold symptoms	Seriously distressing and unmanageable	Marked

ated impairment and prevent recurrence. The principles of management include risk assessment, establishing disease severity and psychosocial support. The severity of illness as described in Table 2, determines treatment options. Mild depression may be closely monitored or managed with supportive care alone. Supportive care includes developing rapport, providing psycho-education regarding condition, and encouraging healthy lifestyle. Psychosocial interventions like cognitive behavior therapy (CBT) and interpersonal therapy (IPT) may be considered in mild to moderate depression. Antidepressant pharmacotherapy is considered in moderate to severe depression.

Pharmacotherapy

Hospital anxiety & depression scale

Edinburgh postnatal depression scale

Geriatric depression scale - 15

According to American Psychiatric Association's practice guidelines for the Major Depressive Disorder [6], the psychopharmacological treatment of depression is divided into three phases - acute, continuation and maintenance [6]. The acute phase refers to the first 6 to 12 weeks, during which symptoms are treated aggressively aiming at complete resolution. During the continuation phase of 4 to 9 months, the same effective dose of medication is continued. The maintenance phase involves recurrence prevention, given the risk of recurrence approaches 100% following the 3rd episode. Improvement with medications can be observed as early as the first 1 to 2 weeks of treatment [7], and continues up to 12 weeks. Pharmacotherapy requires at least 4 to 6 weeks to achieve maximum therapeutic effects [8].

Selective serotonin reuptake inhibitors (SSRIs) are the first line treatment for MDD [9]. Recent meta-analysis showed SSRI are superior to placebo in terms of efficacy [10]. The dosing schedule is medication specific. As a general rule, any SSRI may be initiated at the lowest recommended dose and titrated up as clinically indicated, based on tolerability. As an example, the starting dose for fluoxetine is 10-20 mg, sertraline is 25-50 mg dose and escitalopram is 5-10 mg. Additional treatment options include serotonin norepinephrine reuptake inhibitors (SNRIs) such as venlafaxine, duloxetine, desvenlafaxine; tricyclic antidepressants (TCAs); monoamine oxidase inhibitors (MAOIs); bupropion, mirtazapine, trazodone and nefazodone. Table 3 lists newer medications approved by the Food and Drug Administration (FDA) in the United State of America (USA) in the last decade.

Adults 18-80 years

Geriatrics

Postpartum

No

No

No

Treatment for anxiety disorders include SSRIs, SNRIs, TCAs, as well as other options including buspirone, benzodiazepines, beta-adrenergic blocking agents, Gabapentin and Pregabalin.

It is important to be aware of adverse effects (AE) of these medications. The FDA issued a black box warning of worsening suicidal behavior in youth and young adults with antidepressant medication. Common AE include gastrointestinal symptoms such as abdominal distress, nausea, diarrhea; headache; disrupted sleep and nightmares; sexual dysfunction, weight gain and bleeding. There are other concerns such as QTc prolongation with Citalopram. TCAs are associated with cardiac arrhythmias, which may be lethal in an overdose. MAOIs may result in hypertensive crisis if taken with vasoactive amines or tyramine containing foods. Serotonergic medications may result in Serotonin syndrome (SS), which presents with autonomic instability, agitation, confusion, muscle rigidity, fever, seizures, arrhythmia and even unconsciousness. Symptomatic treatment and the use of benzodiazepines is the treatment of choice for SS. Clinicians should also be familiar with discontinuation syndrome, which often presents as flu-like symptoms associated with abrupt cessation of SSRI or SNRI. Patient education and gradual taper helps prevent these symptoms.

Psychosocial treatments

CBT is geared toward improved understanding of the interplay between emotions, thoughts, and actions. It is an evidence-based treatment for depression and anxiety. In addition to office-based CBT, computerized CBT has also shown efficacy with depressive and anxiety disorders [11]. Another

Table 3: Newer antidepressant medication	on.
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Approval date	Generic (Brand name)	Mechanism of action	Indication	Starting dose (Max)
February 2010	Trazodone hydrochloride (Oleptro)	Dual serotonin agonist, serotonin reuptake inhibitor	MDD	150 mg (375 mg) oral
January 2011	vilazodone hydrochloride (Viibryd)	SSRI, 5HT1A receptor partial agonist	MDD	10 mg (40 mg) oral
July 2013	Levomilnacipran (Fetzima)	Norepinephrine & serotonin reuptake inhibitor	MDD	20 mg (120 mg) oral
October 2013	Vortioxetine (Trintellix/ Brintellix)	Serotonin modulator & stimulation	MDD	10 mg (20 mg) oral
July 2015	Brexpiprazole (Rexulti)	Atypical antipsychotic	Adjunctive for MDD	0.5 mg (3 mg) oral
March 2019	Esketamine nasal spray (Spravato)	NMDA receptor antagonist	Treatment resistant depression	56 mg (84 mg) intranasal
March 2019	Brexanolone (Zulresso)	Allosteric modulator of GABA-A receptors	Postpartum depression	30 mcg/kg/hr (90 mcg/kg/hr) intravenous infusion

Table 4: Risk and protective factors for Suicide [19].

Risk factors	Protective factors
Past suicidal history - personal or family*	Support system
Access to firearms*	Religiosity and faith
Psychiatric diagnoses*	Positive self-esteem
Substance misuse*	Effective coping skills
Physical illness	Access to care for physical, mental & substance use disorders
Psychosocial features	
Childhood trauma	
Psychological features	
Demographic features: Male, widowed, elderly, adolescent, Gay, lesbian, or bisexual orientation	

^{*}Significant factors

evidence based psychosocial intervention is IPT, which focuses on issues such as role dispute (different expectations in a relationship), role transition (struggle with adjusting to changing responsibilities), unresolved grief and interpersonal difficulties. In a meta-analysis, IPT was considered effective in acute phase of treatment and relapse prevention [12].

Complementary and Alternative Medicine (CAM) such as St. John's Wort, Omega-3 Fatty Acids, S-Adenosyl Methionine have limited evidence for effectiveness in depressive disorders. Kava has been used in anxiety but is associated with hepatotoxicity [13]. Drug-drug interactions are to be considered when using CAM concurrently with medications.

Exercise [14] and phototherapy or bright light therapy [15] has positive outcomes on mood and anxiety symptoms. Neuromodulation treatments such as Transcranial Magnetic Stimulation, Vagal Nerve Stimulation and Electroconvulsive therapy (ECT) are also used for symptoms resistant to traditional therapies.

Other considerations

For psychotic depression, atypical antipsychotics should be combined with antidepressants and psychosocial therapy, and consider ECT if there is partial or no response. Referral to a mental health clinician for moderate to severe depression and anxiety is a reasonable. Similarly, presence of comorbid conditions and lack of response to trial of several antidepressant medications should prompt a referral to a specialist [16].

Safety Assessment

Suicide is a serious public health issue due to loss of life with devastating after-effects on the surviving family and community. It is the 2nd leading cause of death in the USA after unintentional injuries among persons 15-34 years of age [17]. According to American Association of Suicidology, there is a life lost to suicide every 12 minutes in the US. There are significant gender differences: Men are 3.4 times more likely to complete suicide compared to women; whereas, women are 3 times more likely to attempt suicide. The rates of suicidal behavior or non-fatal attempts were reported to be significantly higher with 25 attempts for each completed suicide. Unsurprisingly, use of firearms is the most common method of completed suicide, followed by suffocation or hanging and then poisoning [18].

It is almost impossible to predict every suicide attempt. However, there are factors that can assess the risk for suicidal behavior (Table 4). Some risk factors are better correlated with future risk than others. Conversely, there are protective factors as well. For example, rates of suicide attempts and deaths are significantly higher when guns and other lethal means easily available. Reduced access to lethal means can prevent negative outcome. Education of family members regarding importance of restricting access to potentially lethal means cannot be over emphasized.

While conducting a risk assessment, the significance of these factors should be considered more than the absolute number. One such assessment measure is the Columbia Suicide Severity Rating Scale (www.cssrs.columbia.edu). However, this instrument requires training. In clinical practice, we often use contract for safety during risk assessment, but there is no evidence that such a contract can prevent suicide or suicidal behavior. On the other hand, refusal to contract raises significant safety concerns and is an indication for urgent mental health evaluation.

Levels of care: If there are significant safety concerns, inpatient psychiatric hospitalization is indicated. Individuals may voluntarily request inpatient care. If a person poses a danger to him/herself or others, or is unable to take care of him/herself, with a reasonable probability of death/serious bodily injury or physical debilitation, without treatment in the next 30 days, they may be subject to involuntary inpatient care. The duration of involuntary commitment varies by jurisdiction. Individuals admitted on voluntary status may be converted to involuntary commitment if they insist on discharge while safety is still a concern.

Conclusion

In conclusion, depression and anxiety are the most common mental health disorders in primary care and primary care providers manage the majority of these disorders. Therefore, developing a treatment plan, addressing safety and psychosocial and biological factors, is the goal in optimal patient care. Addressing physical and emotional well-being, treating presenting complaint and underlying conditions, providing support services and improving motivation for treatment result are likely to result in better outcomes.

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Author Contribution

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