



Institution Name: Al Masarra Hospital					
Document Title: Clinical Guideline for the Diagnosis and Treatment of Major Depressive Disorder					
Approval Process					
	Name	Title	Institution	Date	Signature
Written by	Badriya Al Ghammari	Senior Staff Nurse	Al Masarra Hospital	26.7.22	
	Dr. Thuraya Al Hashme	Psychiatrist	Al Masarra Hospital	1.8.2022	
	Dr. Fathyia Abd Elazeim Elhofy	Psychiatrist	Al Masarra Hospital	1.8.2022	
Reviewed by	Local Clinical Guidelines Committee	Committee	Al Masarra Hospital	26/7/2022	
Validated by	Kunooz Al Balushi	Document Manager	Al Masarra Hospital	July 2022	
Approved by	Dr. Bader Al Habsi	Hospital Director	Al Masarra Hospital	25/7/22	





Content Table

	Page
Acronyms.....	3-4
1. Introduction.....	5
2. Scope.....	5
3. Purpose.....	5
4. Definition.....	6
5. Procedure.....	6-28
6. Responsibility.....	28-30
7. Document History and Version Control.....	31
8. Related Documents.....	31
9. References.....	31-50
Appendices.....	51-53
Appendix 1. Formulating A Treatment Plan.....	51
Appendix 2. Document Request Form.....	52
Appendix 3. Documentation Validation Checklist.....	53



Acronyms

AMRH	Al Masarra Hospital
(ABG)	arterial blood gas.
ADHD	Attention Deficit Hyperactivity Disorder
B12	Vitamin B12
Ca²⁺	Calcium
CBT	cognitive behavioral therapy
CT	Computerized Tomography
e.g.	Example
ECT	Electroconvulsive Therapy
EEG	Electro encephalo gram
ESR	Erythrocyte Sedimentation Rate
FBC	Full Blood Count
GI	Gastro Intestinal
Hz	Hertz
LFTs	Liver Function Tests
MAOI	Monoamine Oxidase Inhibitors
MI	Myocardial infection
MRI	Magnetic Resonance Imaging
OCD	Obsessive-compulsive disorder
rTMS	Repetitive Transcranial Magnetic Stimulation
SAD	Seasonal Affective Disorder



SSRI	Selective serotonin reuptake inhibitors
T3	Triiodothyronine
TCAs	Tricyclic Antidepressant
TFTs,	Thyroid Function Tests
U&Es	Urea and Electrolytes
VDRL	Veneral disease research lab
WHO	World Health Organization



Clinical Guideline for the Diagnosis and Treatment Of Major Depressive Disorder

1. Introduction

This guideline addresses the management of major depressive disorder (MDD) in adults with a target audience of psychiatrists and other mental health professionals in Al-Masarra Hospital. It provides clear and comprehensive evidence based recommendations incorporating the latest international guidelines and practices in the treatment of MDD.

Major Depression is a common disorder, which often leads to poor quality of life and impaired role functioning. It is known to be a major contributor to the global burden of diseases and according to World Health Organization (WHO), depression is the fourth leading cause of disability worldwide, it will be the second most common leading cause of disability . Major Depression is also associated with high rates of suicidal behavior and mortality. When major depression occurs in the context of medical morbidity, it is associated with increased health care cost, longer duration of hospitalization, poor cooperation in treatment, poor treatment compliance and high rates of morbidity.

2. Scope

This guideline is applicable to psychiatrists and other mental health professionals in Al Masarra Hospital (AMRH).

3. Purpose

- 3.1.** To providing information, promoting the health worker on, diseases and their management.
- 3.2.** To improve the general practice of & increase awareness of a disease or diagnosis and to provide health educational information on that disease and its management.
- 3.3.** To provide Evidence-based recommendations on diagnosis and management on MDD.
- 3.4.** To provide all health care professionals who are involved in the management of patients with depression with updated and reliable information.



4. Definitions

4.1. Depression: Major Depressive Disorder is a broad and heterogeneous diagnosis. Central to it is depressed mood and/or loss of pleasure in most activities. Severity of the disorder is determined by the number and severity of symptoms, as well as the degree of functional impairment. To diagnose MDD the symptoms must be present for at least two weeks.

4.1.1. A formal diagnosis using the ICD-10 classification system requires at least four out of ten depressive symptoms, whereas the DSM-V system requires at least five out of nine (decrease or increase in appetite with change in weight e.g. more than 5% of body weight in a month , Insomnia or hypersomnia , Psychomotor agitation or retardation, Fatigue or loss of energy ,Feelings of worthlessness , excessive or inappropriate guilt , poor concentration or indecisiveness, Recurrent thoughts of death , recurrent suicidal ideation without a specific plan, or a suicide attempt or a specific plan) for a diagnosis of major depression .Both diagnostic systems require at least one (DSM-V) or two (ICD-10) key symptoms (low mood, loss of interest and pleasure) to be present.

4.1.2. Depression presents with of symptoms of depressed mood, loss of interest or pleasure, decreased energy and fatigue, reduced concentration and attention, reduced self-esteem and self-confidence, ideas of guilt and unworthiness, bleak and pessimistic views of the future, ideas or acts of self-harm or suicide, disturbed sleep and diminished appetite.

5. Procedure

5.1. Assessment

5.1.1. Patients should receive a thorough diagnostic assessment in order to establish the diagnosis of major depressive disorder, identify other psychiatric or general medical conditions that may require attention, and develop a comprehensive plan for treatment.

5.1.2. Assessment generally includes a history of the present illness and current symptoms; a psychiatric history, including identification of past symptoms of mania, hypomania, or mixed episodes and responses to previous treatments; a general medical history; a personal history including information about psychological development and responses to life transitions and major life events;



a social, occupational, and family history (including mood disorders and suicide); review of the patient's prescribed and over-the-counter medications; a review of systems; a mental status examination; a physical examination; and appropriate diagnostic tests as indicated to rule out possible general medical causes of depressive symptoms .

- 5.1.3.** Thorough assessment also ought to focus on evaluation for co morbid substance abuse/dependence. Careful history of substance intake need to be taken to evaluate the relationship of depression with substance intoxication, withdrawal and abstinence. Whenever required appropriate tests like, urine or blood screens (with prior consent) may be used to confirm the existence of comorbid substance abuse/dependence.
- 5.1.4.** Many physical illnesses are known to have high rates of depression. In some situations the physical illnesses have causative role in development of depression, whereas in other situations the relationship/co-occurrence is due to common etiology.
- 5.1.5.** When depression occurs in relation to physical illness attempt may be made to clearly delineate the symptoms of depression and physical illness.
- 5.1.6.** Further, while reviewing the treatment history to kept in mind medication induced depression, as many medications are known to cause depression.
- 5.1.7.** It is always important to take the longitudinal life course perspective into account to evaluate for previous episodes and presence of symptoms of depression amounting to dysthymia.
- 5.1.8.** Evaluation of history also takes into consideration the relationship of onset of depression with change in season (seasonal affective disorder), peripartum period and phase of menstrual cycle. Further, the longitudinal course approach may also take into account response to previous treatment and whether the patient achieved full remission, partial remission or did not respond to treatment.
- 5.1.9.** An important aspect of diagnosis of depression is to rule out bipolar disorder. Many patients with bipolar disorder present to the clinicians during the depressive phase of illness and do not spontaneously report about previous hypomanic or manic episodes.
- 5.1.10.** Careful history from the patient and other sources (family members) often provide important clues for the bipolar disorder. It is often useful to use standardized



scales like mood disorder questionnaire to rule out bipolarity. Treating a patient of bipolar depression as unipolar disorder can increase the risk of antidepressant induced switch. Presence of psychotic features, marked psychomotor retardation, reverse neurovegetative symptoms (excessive sleep and appetite), irritability of mood, anger, family history of bipolar disorder and early age of onset need to alert the clinicians to evaluate for the possibility of bipolar disorder.

- 5.1.11.** Area to be covered in assessment include symptom dimensions, symptom-severity, comorbid psychiatric and medical conditions, particularly comorbid substance abuse, the risk of harm to self or others, level of functioning and the socio-cultural milieu of the patient.
- 5.1.12.** In case patient has received treatment in the past, it is important to evaluate the information in the form of type of antidepressant used, dose of medication used, compliance with medication, reasons for poor compliance, reasons for discontinuation of medication, response to treatment, side effects experienced etc. If the medications were changed, then the reason for change is also to be evaluated.
- 5.1.13.** Wherever possible, unstructured assessments need to be supplemented by ratings on appropriate standardized rating scales.
- 5.1.14.** A careful and ongoing evaluation of suicide risk is necessary for all patients with major depressive disorder. Such an assessment includes specific inquiry about suicidal thoughts, intent, plans and behaviors. Identification of factors that may increase the likelihood of acting on suicidal ideas (e.g. presence of psychosis, severe anxiety, co morbid substance use or general medical conditions ,past and, particularly, recent suicidal behavior; presence of stressors). Identification of potential protective factors (e.g., positive reasons for living, strong social support); and identification of any family history of suicide or mental illness.
- 5.1.15.** As part of the assessment process, impulsivity and potential for risk to others should also be evaluated, including any history of violence or homicidal ideas, plans, or intentions.
- 5.1.16.** In addition it is important to assess the patient's level of self-care, hydration, and nutrition, each of which can be compromised by severe depressive symptoms.
- 5.1.17.** Depending on the need, investigations need to be carried out. The use of neuroimaging may be indicated in those with first-episode of depression seen in



late or very late age; those have neurological signs, those having treatment resistant depression.

5.1.18. Besides, patients, information about the illness need to be obtained from the caregivers too and their knowledge and understanding of the illness, their attitudes and beliefs regarding treatment, the impact of the illness on them and their personal and social resources need to be evaluated

5.2. Types of depression

There are different types of depressive disorders. Symptoms can range from relatively minor (but still disabling) through to very severe. The American Psychiatric Association's Diagnostic Statistical Manual of Mental Disorders, Fifth Edition (DSM-5) (1) classifies the depressive disorders as disruptive mood deregulation disorder, major depressive disorder (including major depressive episode), persistent depressive disorder, premenstrual dysphoric disorder, Substance/Medication-Induced Depressive Disorder, depressive disorder due to another medical condition, and Other Specified Depressive Disorder which include; Recurrent brief depression, Short-duration depressive episode (4-13 days), Depressive episode with insufficient symptoms.

5.2.1. Major depression Disorder

Major depressive disorders may be further categorized by specifiers that include peripartum onset, seasonal pattern, melancholic features, mood-congruent or mood-incongruent psychotic features, anxious distress, and catatonia. When diagnosing Major Depressive episode you need to specify:

- If it's single or recurrent (For an episode to be considered recurrent, there must be an interval of at least 2 consecutive months between separate episodes in which criteria are not met for a major depressive episode).
- Level of severity: Mild, Moderate, and Severe with or without psychotic features.
- Remission level : in partial remission , in full remission , unspecified

5.2.1.1. Mild depressive episode: Two or three symptoms of Depression are usually present. The patient is usually distressed by these but will probably be able to continue with most activities.



- 5.2.1.2. **Moderate depressive episode:** Four or more symptoms of depression are usually present and the patient is likely to have great difficulty in continuing with ordinary activities.
- 5.2.1.3. **Severe depressive episode without psychotic symptoms:** An episode of depression in which several symptoms are marked and distressing, typically loss of self-esteem and ideas of worthlessness or guilt. Suicidal thoughts and acts are common and a number of "somatic" symptoms are usually present.
- 5.2.1.4. **Severe depressive episode with psychotic symptoms:** as described in Severe depressive episode without psychotic symptoms but with presence of hallucinations, delusions, psychomotor retardation, or stupor.
- 5.2.1.5. **Melancholia:** Characterizes by one of the following: Loss of pleasure in almost all activities, Lack of reactivity to usually pleasurable stimuli. In addition to three (or more) of the following; depressed mood characterized by profound despondency and despair. Depression that is regularly worse in the morning. Early-morning awakening (i.e., at least 2 hours before usual awakening). Marked psychomotor agitation or retardation. Significant anorexia or weight loss. Excessive or inappropriate guilt.
- 5.2.1.6. **With anxious distress:** defined as the presence of at least two of the following symptoms during the majority of days of a major depressive episode ; feeling keyed up or tens, feeling unusually restless, difficulty concentrating because of worry, fear that something awful may happen, feeling that the individual might lose control of himself or herself. High levels of anxiety have been associated with higher suicide risk, longer duration of ill ness, and greater likelihood of treatment nonresponse.
- 5.2.1.7. **With mixed features:** At least three of the following manic/hypomanic symptoms are present nearly every day during the major depressive episode; elevated, expansive mood, inflated self-esteem or grandiosity, more talkative than usual , flight of ideas or subjective experience that thoughts are racing, increase in energy or goal-directed activity, Increased or excessive involvement in activities that have a high potential for painful consequences, decreased need for sleep.



- 5.2.1.8. **With atypical features:** Characterize by mood reactivity and significant weight gain or increase in appetite, hypersomnia, leaden paralysis, long-standing pattern of interpersonal rejection sensitivity. These features predominate during the majority of days of the current or most recent major depressive episode.
- 5.2.1.9. **With péripartum onset:** This specifier can be applied if full criteria are met for a major depressive episode and onset of mood symptoms occurs during pregnancy or in the 4 weeks following delivery. Women with péripartum major depressive episodes often have severe anxiety and even panic attacks. Infanticide is most often associated with postpartum depression with psychotic symptoms.
- 5.2.1.10. **With seasonal pattern:** This applies to recurrent major depressive disorder. There has been a regular temporal relationship between the onset of major depressive episodes and a particular time of the year with full remissions occurs at a characteristic time of the year.

5.2.2 **Persistent Depressive Disorder (Dysthymia):**

The essential feature of persistent depressive disorder (dysthymia) is a depressed mood that occurs for most of the day, for more days than not, for at least 2 years, or at least 1 year for children and adolescents. The symptoms of dysthymia are similar to those of major depression but are less severe. Early onset Dysthymia if onset is before age 21 years and late onset if onset is at age 21 years or older.

5.2.3 **Premenstrual Dysphoric Disorder**

To diagnose PMDD at least five of the following, present to a marked degree, in the week before menstruation for most months of the previous year: depressed mood, emotional lability, irritability and anger, poor concentration, tension and anxiety, loss of interest in usual activities, altered eating habits or food cravings, disturbed sleep patterns, lethargy and fatigue, feeling overwhelmed or out of control, physical symptoms such as headache, breast tenderness, weight gain and feeling bloated. The features must include at least one mood or anxiety symptom and should severely interfere with social and occupational functioning.



5.2.2. Recurrent brief depression:

Characterized by depressed mood and at least four other symptoms of depression for 2-13 days at least once per month (not associated with the menstrual cycle) for at least 12 consecutive months. Patient has never met criteria for any other depressive or bipolar disorder and does not currently meet active or residual criteria for any psychotic disorder.

5.2.3. Short-duration depressive episode (4-13 days):

Characterized by depressed mood and at least four of the other eight symptoms of a major depressive episode associated with clinically significant distress or impairment that persists for more than 4 days, but less than 14 days, in an individual whose presentation has never met criteria for any other depressive or bipolar disorder

5.2.4. Depressive episode with insufficient symptoms:

Characterize by depressed mood and at least one of the other eight symptoms of a major depressive episode associated with clinically significant distress or impairment that persist for at least 2 weeks in an individual whose presentation has never met criteria for any other depressive or bipolar disorder.

5.2.5. Depressive Disorder Due to another Medical Condition:

Characterized by a prominent and persistent period of depressed mood or markedly diminished interest that is thought to be related to the direct physiological effects of another medical condition. A careful and comprehensive assessment of multiple factors is necessary to make this judgment. One consideration is the presence of a temporal association between the onset, exacerbation, or remission of the general medical condition and that of the mood disturbance. A second consideration is the presence of features that are atypical of primary Mood Disorders (e.g., atypical age at onset or course).

5.2.6. Substance/Medication-Induced Depressive Disorder:

Characterized by symptoms of a depressive disorder, such as major depressive disorder; however, the depressive symptoms are associated with the ingestion, injection, or inhalation of a substance. Depressive disorder should have developed during or within 1 month after use of a substance. In addition, the diagnosis is not better explained by an independent depressive disorder e.g the depressive disorder preceded the onset of ingestion or withdrawal from the substance; the depressive



disorder persists beyond a substantial period of time after the cessation of substance use.

5.3. Management of depression

Treatment options for management of depression can be broadly be divided into Pharmacotherapy {typical antidepressants, atypical antidepressants} Psychotherapy, electroconvulsive therapy (ECT) and psychosocial interventions. Physical therapy other less commonly used treatment or treatments used in patients with treatment resistant depression include repetitive transcranial magnetic stimulation (rTMS).

5.3.1. Pharmacotherapy:

5.3.1.1. Medications vs. no medications

5.3.1.1.1. Antidepressants may be considered where there is:

5.3.1.1.1.1 History of moderate or severe depression

5.3.1.1.1.2 Mild depression that have been present for more than two years (dysthymia).

5.3.1.1.1.3 Mild depression that persists after other interventions.

5.3.1.1.2. For mild depression: usually no need for use of antidepressants. Psychotherapeutic treatments are advised.

5.3.1.1.3. For moderate or severe depression: combine antidepressant medications and a high intensity psychotherapeutic intervention.

5.3.1.2. Selective Serotonin Reuptake Inhibitors

SSRIs have the advantage of ease of dosing and low toxicity in overdose. SSRIs are greatly preferred over the other classes of antidepressants for the treatment of children and adolescents, and they are also the first-line medications for late-onset depression. This recommendation is supported by the 2011 APA guideline. Ease of dosing; better tolerated than TCAs, less cardio toxic, fewer anticholinergic side-effects, low toxicity in overdose.

5.3.1.2.1. Side Effects

5.3.1.2.1.1. Serotonin reuptake inhibition (leads to increase 5-HT in synaptic cleft).

5.3.1.2.1.2 .5-HT_{1A} agonism: antidepressant, anxiolytic, anti-



obsessive, antibulimic effects.

5.3.1.2.1.3 . 5-HT₂ agonism: agitation, akathisia, anxiety/panic, insomnia, sexual dysfunction.

5.3.1.2.1.4 .5-HT₃ agonism: nausea, GIT upset, diarrhea, headache.

5.3.1.2.2 **Adverse Effects**

5.3.1.2.2.1 The adverse-effect profile of SSRIs is less prominent than that of some other agents, which promotes better compliance. Common adverse effects include gastrointestinal effects {upset,nausea, diarrhea, constipation, vomiting,}, sexual dysfunction, and changes in energy level (fatigue, restlessness) and insomnia.

5.3.1.2.3 **Contraindication**

5.3.1.2.3.1 Manic episode, concomitant use of MAOIs.

5.3.1.2.4 **Caution**

5.3.1.2.4.1 Variable and significant inhibitory effects on hepatic P450 (particularly CYP2D6) enzymes. Hence, take care when co-prescribing with drugs that undergo extensive liver metabolism and have a narrow therapeutic range.

5.3.1.2.4.2 Significant interactions :(variable for different agents):alcohol, anticoagulants, anticonvulsants, antipsychotics, BDZs, B-blockers, bupropion, buspirone, cimetidine, cyproheptadine, hypoglycemic, lithium, methadone, MAOIs, morphine, smoking, TCAs, theophylline, warfarin.

5.3.1.2.5 **Medications**

5.3.1.2.5.1 Citalopram

5.3.1.2.5.2 Escitalopram

5.3.1.2.5.3 Fluoxetine

5.3.1.2.5.4 Fluvoxamine

5.3.1.2.5.5 Paroxetine



5.3.1.2.5.6 Sertraline

5.3.1.2.5.7 Vilazodone

5.3.1.2.5.8 Vortioxetine

5.3.1.3 **Serotonin/norepinephrine reuptake inhibitors**

SNRIs has greater potency for norepinephrine reuptake inhibition than for serotonin reuptake inhibition without directly affecting the uptake of dopamine or other neurotransmitters. **SNRIs** also have an important role as second-line agents in patients who have not responded to SSRIs. The safety, tolerability, and side-effect profiles of SNRIs include those of the SSRIs, as well as noradrenergic side effects, such as hypertension

5.3.1.3.2 **Medications**

5.3.1.3.2.1 Venlafaxine

5.3.1.3.2.2 Desvenlafaxine

5.3.1.3.2.3 Duloxetine

5.3.1.3.2.4 Levomilnacipran

5.3.1.4 **Atypical antidepressant**

Atypical Antidepressants have all been found to be effective in monotherapy in major depressive disorder and may be used in combination therapy for more difficult to treat depression. This group also shows low toxicity in overdose.

5.3.1.4.2 **Medications**

5.3.1.4.2.1 Bupropion

5.3.1.4.2.2 Mirtazapine

5.3.1.4.2.3 Nefazodone

5.3.1.4.2.4 Trazodone

5.3.1.5 **Serotonin-Dopamine Activity Modulators**

SDAMs act as a partial agonist at 5-HT_{1A} and dopamine D₂ receptors at similar potency, and as an antagonist at 5-HT_{2A} and noradrenaline alpha_{1B/2C} receptors. This mechanism of action is unique from other atypical antipsychotic drugs.

5.3.1.5.2 **Medications**

5.3.1.5.2.1 Brexpiprazole

5.3.1.5.2.2 Aripiprazole



5.3.1.6 Tricyclic Antidepressants

TCAs have a long record of efficacy in the treatment of depression. They are used less commonly because of their side-effect profile and their considerable toxicity in overdose. It is good practice to monitor cardiac and liver function, U&Es, FBC, and weight during long-term therapy.

5.3.1.6.2 Medications

5.3.1.6.2.1 Amitriptyline

5.3.1.6.2.2 Clomipramine

5.3.1.6.2.3 Desipramine

5.3.1.6.2.4 Doxepin

5.3.1.6.2.5 Imipramine

5.3.1.6.2.6 Nortriptyline

5.3.1.6.2.7 Protriptyline

5.3.1.6.2.8 Trimipramine

5.3.1.6.3 Side Effects

5.3.1.6.4 **Serotonin/noradrenaline** (and dopamine) reuptake inhibition: antidepressant effects.

5.3.1.6.5 **Anticholinergic** (antimuscarinic—MI): dry mouth, blurred vision, constipation, urinary retention, drowsiness, confusion/memory problems (particularly in the elderly), palpitations-tachycardia.

5.3.1.6.6 **Adrenergic antagonism**: drowsiness, postural hypotension (occasionally syncope), tachycardia, sexual dysfunction.

5.3.1.6.7 **5-HT₂ antagonism**: anxiolytic reduced sexual dysfunction, sedation.

5.3.1.6.8 **Antihistaminergic (HI)**: drowsiness, weight gain.

5.3.1.6.9 Contraindications

5.3.1.6.9.1 Acute MI,

5.3.1.6.9.2 Heart block,

5.3.1.6.9.3 Arrhythmias,

5.3.1.6.9.4 IHD



5.3.1.6.9.5 Severe liver disease

5.3.1.6.9.6 Pregnancy

5.3.1.6.9.7 Lactation

5.3.1.6.10 Cautions

5.3.1.6.10.1 Cardiovascular, liver, renal disease; endocrine disorders (hyperthyroidism, adrenal tumors, diabetes); urinary retention/prostatic hypertrophy; constipation; glaucoma; epilepsy; psychotic disorders; patients with thoughts of suicide; elderly (use lower doses).

5.3.1.7 Monoamine oxidase inhibitors:

These agents are widely effective in a broad range of affective and anxiety disorders. Because of the risk of hypertensive crisis, patients on these medications must follow a low-tyramine diet. Other adverse effects can include insomnia, anxiety, orthostatic hypotension, weight gain, and sexual dysfunction

5.3.1.7.2 Medications

5.3.1.7.2.1 Isocarboxazid

5.3.1.7.2.2 Phenelzine

5.3.1.7.2.3 Selegiline

5.3.1.7.2.4 Tranylcypromine

5.3.1.8 N-methyl-D-aspartate antagonists.

The N-methyl-D-aspartate (NMDA) receptor antagonist has been shown to improve treatment-resistant depression in conjunction with an oral antidepressant. The precise mechanism by which esketamine elicits its antidepressant effect is not fully understood.

5.3.1.8.2 Medication

5.3.1.8.2.1 Esketamine Intranasal

5.3.2 Comparative effectiveness of antidepressants

5.3.2.2 The Agency for Healthcare Research and Quality (AHRQ) compared the effectiveness of the following 12 second-generation antidepressants :

5.3.2.1.1 Bupropion

5.3.2.1.2 Citalopram



- 5.3.2.1.3 Duloxetine
- 5.3.2.1.4 Escitalopram
- 5.3.2.1.5 Fluoxetine
- 5.3.2.1.6 Fluvoxamine
- 5.3.2.1.7 Mirtazapine
- 5.3.2.1.8 Paroxetine
- 5.3.2.1.9 Sertraline
- 5.3.2.1.10 Trazodone
- 5.3.2.1.11 Venlafaxine
- 5.3.2.2 The AHRQ found that average effectiveness of those 12 antidepressants appeared similar, but the studies reviewed were not designed to test variation among patients' responses to individual drugs. However, the AHRQ did find moderately strong evidence of differences among individual second-generation antidepressants with respect to onset of action and some measures (eg, sexual functioning) that could affect health-related quality of life.
- 5.3.2.3 The combination of sustained-release bupropion and escitalopram was more effective at reducing suicidal ideation than sustained-release venlafaxine plus mirtazapine

5.3.3 Available antidepressants in AMRH

5.3.3.1 Selective serotonin reuptake inhibitors (SSRIs)

- 5.3.3.1.1 Available agents in the Hospital: Citalopram, Fluoxetine, Paroxetine.

5.3.3.2 Tricyclic/tetracyclic Antidepressants

- 5.3.3.2.1 Available agents in the Hospital: Amitriptyline, Clomipramine, Imipramine. Maprotiline.

5.3.4 Outpatient vs. inpatient treatment

- 5.3.4.1 Usually pharmacological treatment can be initiated on an outpatient basis, severe cases may require admission.
- 5.3.4.2 Indications for hospital admission
 - 5.3.4.2.1 Serious risk of suicide.
 - 5.3.4.2.2 Serious risk of harm to others.
 - 5.3.4.2.3 Significant self-neglect.



- 5.3.4.2.4 Severe depressive symptoms.
- 5.3.4.2.5 Severe psychotic symptoms
- 5.3.4.2.6 Lack or breakdown of social supports.
- 5.3.4.2.7 Initiation of ECT.
- 5.3.4.2.8 Treatment-resistant depression (where inpatient monitoring may be helpful).
- 5.3.4.2.9 A need to address comorbid conditions (e.g. physical problems, other psychiatric conditions, inpatient detoxification).

5.3.5 Key aims for follow-up

- 5.3.5.1 Establishing and maintaining a therapeutic alliance.
- 5.3.5.2 Monitoring the patient's psychiatric status.
- 5.3.5.3 Providing education regarding depressive disorder and the treatment options.
- 5.3.5.4 Enhancing treatment compliance.
- 5.3.5.5 Monitoring side-effects of medication.
- 5.3.5.6 Identifying and addressing any significant comorbidity.
- 5.3.5.7 Promoting regular patterns of activity and rest.
- 5.3.5.8 Identifying unmet needs for specific (practical) support, counseling, (bereavement, stress management), or psychotherapy.
- 5.3.5.9 Promoting understanding of and adaptation to the psychosocial effects of symptoms.
- 5.3.5.10 Identifying new episodes early.
- 5.3.5.11 Reducing the morbidity and sequel of depressive disorder.

5.3.6 Baseline investigations

- 5.3.6.1 No specific tests for depression.
- 5.3.6.2 Investigations focus on the exclusion of treatable causes, or other secondary problems (e.g. loss of appetite, alcohol misuse). Standard tests: FBC, ESR, B12/folate, U&Es, LFTs, TFTs, glucose, Ca²⁺.
- 5.3.6.3 Focused investigations, only if indicated by history and/or physical signs:
 - 5.3.6.3.1 Urine or blood toxicology.
 - 5.3.6.3.2 Breath or blood alcohol.



- 5.3.6.3.3 Arterial blood gas (ABG).
- 5.3.6.3.4 Thyroid antibodies.
- 5.3.6.3.5 Antinuclear antibody.
- 5.3.6.3.6 Syphilis serology.
- 5.3.6.3.7 Additional electrolytes—e.g. phosphate, magnesium, zinc.
- 5.3.6.3.8 Dexamethasone suppression test (Cushing's disease).
- 5.3.6.3.9 Cosyntropin stimulation test (Addison's disease).
- 5.3.6.3.10 Lumbar puncture (VDRL, Lyme antibody, cell count, chemistry, protein electrophoresis).
- 5.3.6.3.11 CT/MRI, EEG.

5.3.7 Basic principles of prescribing medication in depression

- 5.3.7.1 Discuss with the patient choice of drug and utility/availability of other, non- pharmacological treatments.
- 5.3.7.2 Discuss with the patient likely outcomes, such as gradual relief from depressive symptoms over several weeks.
- 5.3.7.3 Prescribe a dose of antidepressant (after titration, if necessary) that is likely to be effective.
- 5.3.7.4 For a single episode, continue treatment for at least 6-9 months after resolution of symptoms (multiple episodes may require longer).
- 5.3.7.5 Withdraw antidepressants gradually; always inform patients of the risk and nature of discontinuation symptoms mainly when used short half-life antidepressant.

5.3.8 First-line treatment

- 5.3.8.1 Antidepressant drugs are effective in 65-75% of patients.
- 5.3.8.2 For mild-moderate episodes or where antidepressants are contraindicated (e.g. recent MI), CBT or other psychotherapies may have a role.
- 5.3.8.3 The combination of psychotherapeutic approaches and pharmacotherapy may be synergistic, but in severe cases treatment—at least initially—is almost exclusively pharmacological or physical (e.g. ECT).

5.3.9 Choosing an antidepressant

- 5.3.9.1 The decision about which antidepressant to choose will depend upon:



5.3.9.1.1 Patient factors: age, sex, comorbid physical illness (cardiac, renal, liver, neurological, previous response to antidepressants).

5.3.9.1.2 Tolerability

5.3.9.1.3 Symptomatology: sleep problems (more sedative agent), lack of energy/ hypersomnia (more adrenergic/stimulatory agent), mixed (e.g. with anxiety/panic—SSRI/imipramine), OCD symptoms, (clomipramine/ SSRI), risk of suicide (avoid TCAs).

5.3.10 Adequate trial

5.3.10.1 Generally, an adequate trial of an antidepressant is defined as at least 4wks of the highest tolerated dose.

5.3.11 Suicide risk

5.3.11.1 The risk of suicide may be increased in the early stages of antidepressant treatment. Often patients with previous marked psychomotor retardation have been unable to act upon their thoughts of self-harm. Partial treatment response may 'free' them to do this, hence careful monitoring is critical (and admission to hospital may be indicated).

5.3.12 Treatment failure—second-line treatment

5.3.12.1 Failure of an adequate trial of an antidepressant may occur in ~25% of cases.

5.3.12.2 A similar number of patients will experience unacceptable side effects, leading to the withdrawal of the agent without completing an adequate trial.

5.3.12.3 For these patients, second-line treatment is with an alternative agent usually from a different class of antidepressant, or from the same class but with a different side-effect profile.

5.3.13 Maintenance therapy

5.3.13.1 First episode

5.3.13.1.1 A collaborative approach with the patient should emphasize compliance (even when feeling 'better') with advice to continue the effective treatment for 6mths to 1yr after remission.

5.3.13.1.2 Discontinuation should be gradual and if there is recurrence of symptoms revert to effective dose with further attempt at



withdrawal after at least a further 4-6months.

5.3.13.1.3 Often patients wish to continue medication indefinitely (particularly after a severe episode) and reassurance should be given that there is no evidence of any specific long-term problems with such a course of action.

5.3.13.2 **Recurrent episodes**

5.3.13.2.1 If period between episodes is less than 3yrs, or with severe episodes (esp. with marked suicidal thought/actions) prophylactic treatment should be maintained for at least 5yrs (often indefinitely—risk of relapse if medication stopped is 70-90% within 5yrs).

5.3.14 **Treating depressive illness with psychotic features**

5.3.14.1 **ECT** is advocated by most guidelines for the treatment of psychotic depression as being at least equally as effective as the suggested pharmacological first-line treatment. Only NICE, RANZCP, and DNSC place ECT as a third and final option to be used when other treatments have failed, or if acute response is required due to medical comorbidities or suicidality.

5.3.14.2 Combination treatment (antidepressant plus antipsychotic): There is no clear evidence for any particular combination of medication being more efficacious, but the available evidence supports use of an atypical antipsychotics.

5.3.14.3 Newer medications (selective serotonin reuptake inhibitor or serotonin-norepinephrine reuptake inhibitor +second-generation antipsychotic)

5.3.14.3.1 Venlafaxine plus quetiapine

5.3.14.3.2 Sertraline plus olanzapine

5.3.14.3.3 Fluoxetine plus olanzapine

5.3.14.4 Older medications (tricyclic antidepressant +first-generation antipsychotic)

5.3.14.4.1 Amitriptyline plus haloperidol, trimipramine

5.3.14.4.2 Nortriptyline plus perphenazine

5.3.14.4.3 Amoxapine, Amitriptyline plus perphenazine

5.3.14.4.4 Amitriptyline plus perphenazine



5.3.14.5 Additional practice points:

5.3.14.5.1 Symptoms ought to be carefully monitored, as antipsychotic side-effects may mask improvement in depressive symptoms—hence use of lowest effective dose is advocated.

5.3.14.5.2 Combinations of antidepressant/antipsychotic may worsen side-effects common to both (e.g. sedation, anticholinergic effects) and careful dose titration is necessary.

5.3.14.5.3 Once acute psychotic symptoms have resolved, a lower dose of antipsychotic (or withdrawal) may be indicated, particularly when patients begin to manifest side-effects (which were not seen in the acute stages, even with higher doses)—with careful monitoring for recurrence of psychotic symptoms.

5.3.15 Treatment resistant depression

5.3.15.1 Commonly defined as 'failure to respond to adequate (dose and duration for at least 4 weeks) courses of 2 antidepressants, or 1 antidepressant and ECT.

5.3.15.2 The consequences of resistant depression include reduced quality of life, excessive strain on relationships (which may lead to break-up of families), significant personal economic impact, increased physical comorbidity, increased risk of suicide, therapeutic alienation (making further interventions difficult due to difficulties forming a therapeutic alliance), and high use of psychiatric services (without clear benefit).

5.3.15.3 It is important to distinguish actual treatment resistance from chronicity of symptoms. Apparent treatment failure may also occur due to: incorrect initial diagnosis (i.e. not depressive disorder in the first place), inadequate initial treatment, poor compliance, incomplete formulation (esp. role of maintaining factors), and issues of comorbidity (both physical and other psychiatric disorders).

5.3.16 Management of resistant depression

5.3.16.1 Review diagnostic formulation: is diagnosis correct? Are there any unaddressed maintaining factors (e.g. social, physical, and psychological)

Note: a proportion of individuals with chronic, refractory depression will have unrecognized bipolar disorder.



- 5.3.16.2 Check patient understanding/compliance: serum levels may help.
- 5.3.16.3 Continue mono therapy at maximum tolerable dose: may mean exceeding BNF guidelines (esp. if there has been partial benefit)
- 5.3.16.4 Consider change in antidepressant: try different class of antidepressant.
- 5.3.16.5 Consider augmentation with a mood stabilizer: e.g. lithium.
- 5.3.16.6 Consider additional augmentative agents: e.g. T3, tryptophan.
- 5.3.16.7 Consider combining antidepressants from different classes: caution is advised, due to possible serious adverse reactions.
- 5.3.16.8 Consider use of ECT: esp. if severe biological features or psychotic symptoms).
- 5.3.16.9 Consider possibility of psychosurgery or other advanced intervention.

5.3.17 Depression during pregnancy

- 5.3.17.1 There are many different factors that can increase risk of developing depression during your pregnancy. These risks can include:
 - 5.3.17.1.1 Having a history of depression or premenstrual dysphoric disorder (PMDD).
 - 5.3.17.1.2 Your age at time of your pregnancy — the younger you are, the higher the risk.
 - 5.3.17.1.3 Living alone.
 - 5.3.17.1.4 Having limited social support.
 - 5.3.17.1.5 Experiencing marital conflict.
 - 5.3.17.1.6 Feeling ambivalent about your pregnancy
- 5.3.17.2 Some antidepressants are considered safer for pregnant women than others. Antidepressants that are considered safer include:
 - 5.3.17.2.1 Fluoxetine
 - 5.3.17.2.2 Citalopram
 - 5.3.17.2.3 Sertraline
 - 5.3.17.2.4 Amitriptyline
 - 5.3.17.2.5 Desipramine
 - 5.3.17.2.6 Nortriptyline
 - 5.3.17.2.7 Bupropion



5.3.17.3 **Postpartum Depression Treatment**

5.3.17.3.1 Principles of treatment of postpartum major depressive disorder are the same as for depression during any other time of life. Earlier initiation of treatment is associated with better prognosis.

5.3.17.3.2 Postpartum blues are typically mild and resolve spontaneously; no specific treatment is required, other than support and reassurance.

5.3.17.3.3 For first episodes of depression in postpartum women, 6-12 months of treatment is recommended.

5.3.17.3.4 For women with recurrent major depression following pregnancy, long-term maintenance treatment with an antidepressant is indicated.

5.3.17.3.5 Antidepressants remain the first line of treatment. However, there are preliminary data to suggest that estrogen, alone or in combination with an antidepressant, may be beneficial.

5.3.17.4 **Medications used for postpartum depression**

5.3.17.4.1 Selective serotonin reuptake inhibitors (SSRIs) are first-line agents and are effective in women with postpartum depression.

5.3.17.4.2 Serotonin/norepinephrine reuptake inhibitors (SNRIs) such as venlafaxine (Effexor) 75-300mg/day or duloxetine are also highly effective for managing depression and anxiety.

5.3.17.4.3 Tricyclic antidepressants (TCAs) (eg, nortriptyline 50-150mg/day) may be useful for women with sleep disturbance, although some studies suggest that women respond better to the SSRI drug category.

5.3.17.4.4 **Brexanolone:** The first drug to be approved by the FDA for the treatment of postpartum depression. The mechanism by which brexanolone works for postpartum depression is not fully understood, but it is believed to be related to positive allosteric modulation of both synaptic and extrasynaptic GABA-A receptors.



5.3.17.5 **Antidepressants and Breast-feeding**

5.3.17.5.1 The use of TCAs, fluoxetine (Prozac), sertraline (Zoloft), and paroxetine (Paxil) during breast-feeding are encouraging, and serum antidepressant levels in the breast-fed infant are either low or undetectable.

5.3.17.5.2 Reports of toxicity in breast-fed infants are rare.

5.3.17.6 **Additional points**

5.3.17.6.1 There is little definitive evidence to support any specific augmentative regime.

5.3.17.6.2 Spontaneous remission is possible.

5.3.17.6.3 Psychological and social interventions, particularly when psychosocial factors appear paramount, may be important aspects of management.

5.3.18 **Physical therapy:**

5.3.18.1 **Electroconvulsive therapy (ECT)**

5.3.18.1.1 A highly effective treatment for depression (particularly with psychotic symptoms).

5.3.18.1.2 May act more rapidly than antidepressant medication.

5.3.18.1.3 **Indications:**

5.3.18.1.3.1 Depressive episode: severe episodes, need for rapid antidepressant response (e.g. due to failure to eat or drink in depressive stupor; high suicide risk), failure of drug treatments, patients who are unable to tolerate side-effects of drug treatment, previous history of good response to ECT, patient preference.

5.3.18.1.3.2 Other indications: treatment-resistant psychosis and mania (50-60% effective), schizoaffective disorder, catatonia, neuroleptic malignant syndrome, neurological crises (e.g. extreme Parkinsonian symptoms: on-off phenomena), intractable seizure disorders (acts to raise seizure threshold).

5.3.18.1.4 **Contraindications:**

5.3.18.1.4.1 There are no absolute contraindications.



- 5.3.18.1.4.2 Use of ECT should be limited for patients with cerebral aneurysm, recent MI, cardiac arrhythmias, intracerebral hemorrhage, acute/ impending retinal detachment, pheochromocytoma, high anaesthetic risk, and unstable vascular aneurysm or malformation.
- 5.3.18.1.4.3 Other considerations: -Time-limited action: benefit from ECT tends to dissipate after a couple of weeks. There is a need for a clear maintenance plan to be in place before the course of ECT finishes. ECT should not be considered the only treatment—except in very rare cases when continuation/ maintenance treatment is indicated.
- 5.3.18.1.5 **Consent:** guidelines on ECT vary between legislatures concerning use of capacity legislation/Mental Health Act. Decisions rest on assessment of capacity, informal/formal status, active (or advance statement) refusal, potential as a life-saving intervention.
- 5.3.18.1.6 **Side-effects:** ECT does cause potential side-effects and the administration of ECT will always be a balance of risk and benefit. Of particular note is the potential to cause cognitive problems and this may dictate electrode positioning.
- 5.3.18.2 **Repetitive trans cranial magnetic stimulation (rTMS)**
- 5.3.18.2.1 The rationale for treatment is either to increase activity in the left dorsolateral prefrontal cortex (using high-frequency stimulation, e.g. 20Hz) or to reduce activity in the right dorsolateral prefrontal cortex (using low- frequency stimulation, e.g. 1Hz).
- 5.3.18.2.2 **Adverse effects:** Minimal, but patients often report headache or facial discomfort; rarely seizure induction.
- 5.3.18.2.3 **Indications:** Experimental treatment for treatment-resistant depression; possible use in treatment of treatment-resistant auditory hallucinations; negative symptoms of schizophrenia;



OCD; panic disorder.

5.3.18.2.4 **Contraindications:** History of stroke, brain tumor, or epilepsy.

6. Responsibility

6.1 Psychiatrists

- 6.1.1 Adhere to safe management according to depression guidelines.
- 6.1.2 Take full history including all necessary information from relevant
- 6.1.3 Accomplish Mental State Examination on admission
- 6.1.4 Ensure full physical assessment carried out including necessary investigation
- 6.1.5 Perform initial risk assessment
- 6.1.6 Provisional diagnosis and information of care plan including observation and treatment
- 6.1.7 Referral to other multidisciplinary team for assessment
- 6.1.8 Finalize diagnosis with comprehensive risk assessment by the multidisciplinary team
- 6.1.9 Implement integrated team intervention
- 6.1.10 Monitor progress.

6.2 Nurses

6.2.1 Establishing Trust and rapport

- 6.2.1.1 Tell your name to the patient and call him by name.
- 6.2.1.2 Expect the patient to put you through a rigorous testing period before he shows the evidence of trust. Don't tease or joke with him.
- 6.2.1.3 Don't touch the patient without first telling exactly what you are going to do.
- 6.2.1.4 If necessary postpone the procedures that require physical contact until the patient is less suspicious.
- 6.2.1.5 Use an accepting and consistent approach.
- 6.2.1.6 Don't avoid or overwhelm the patient.
- 6.2.1.7 Make repeated contacts until trust is been established.
- 6.2.1.8 Use clear, unambiguous language.



6.2.1.9 Maintain a sense of hope for possible improvement and convey this to the patient

6.2.2 Ensuring Safety

6.2.2.1 Maintain a safe environment with minimal stimulation.

6.2.2.2 Monitor the patient's nutritional status, weigh him regularly.

6.2.2.3 If the patient expresses suicidal thoughts, institute suicide precautions.

6.2.2.4 If he expresses homicidal thoughts, initiate homicidal precautions and notify the doctor.

6.2.3 Maximizing the level of functioning

6.2.3.1 Assess the patient ability to carry out activities of daily living.

6.2.3.2 Avoid promoting dependence.

6.2.3.3 Reward positive behavior

6.2.4 Promoting Social skills

6.2.4.1 Encourage the patient to engage in meaningful interpersonal relationships.

6.2.4.2 Provide support to assisting him to learn social skills

6.2.5 Promoting Compliance and monitoring Drug therapy

6.2.5.1 Administer prescribed drugs to manage depression symptoms

6.2.5.2 Encourage the patient to comply with the medication regimen to prevent relapse.

6.2.5.3 Regularly assess the patient for adverse side effects.

6.3 Occupational Therapist

6.3.1 The scope of Initial assessment should include but not limited to the following:

6.3.1.1 Treatment approach should be flexible and multiple approaches may be used for different patients, functioning at different level.

6.3.1.2 The realistic and achievable short term and long term treatment goals should be set.

6.3.1.3 Patient is involved in variety of sessions focusing on.

6.3.2 Daily living skills: Encourage attention and motivation to personal hygiene, including bathing, grooming & dressing
retraining of self-care activities through modeling, group discussion & education,



chaining and self-awareness programs.

Increase functional skills in independent living such a small preparation,

6.3.3 Self-concept, coping skills and adaptive strategies, social skills, social support system: Decrease inappropriate expression of sadness by vigorous physical exercise, games, work, group session and creative art.

6.3.4 Increase self-esteem and positive self-image through individual accomplishment with expressive activities like, painting, drawing, poem or story writing.

Provide opportunities for graded, structured verbalization by event narrating, storytelling, singing, and sharing

6.3.5 Provide one- to –one approach for individual who are withdrawn or too psychotic to benefit from group approach

6.4 Psychologists

6.4.1 Obtain CBT ,behavior modification

6.4.2 Psycho –education (1-3 session) :

6.4.2.1 Clinical interview ,gathering full information ,history taking and identify patient symptoms through intake form.

6.4.2.2 Psycho –education patient about causes ,symptoms ,triggers and medication through brochures ,set homework and verbal explanation

6.4.3 Family Psycho –education (1-2 session) :

6.4.3.1 Psycho –education about the illness , psycho education about the triggers and how to deal with it ,how to deal with patient relapse and support him in correct way

6.4.4 Individual therapy (6-15 session) depending on patient response :

6.4.4.1 Social skills communication skills and interactive with others through weight out pros and cons , role play and thought record sheet

6.4.4.2 Coping skills: adjust with illness and accept it , adjust with life change ,cope with life stressor ,anger management strategist and problem solving skills through calming skills (breathing technique ,counting backward) given situational and examples.

6.4.4.3 Activation behavioral therapy through daily activity schedule, setting goals, outline hobbies and interest.



7. Document History and Version Control

Document History and Version Control			
Version	Description of Amendment	Author	Review Date
1	Initial Release	Clinical pathway formulations	2021
2	Update and modified	Dr.Tharaya Al Hashemi Dr.Fatehyia Abd Elazeim Abd Elatif	July 2025
Written By	Reviewed By	Approved By	
Dr.Tharaya Al Hashemi Dr.Fatehyia Abd Elazeim Abd Elatif	Local Clinical Guideline Committee	Dr. Bader Al Habsi	

8. Related Document

8.1. Clinical Diagnosis Guideline – Depression. AMRH/PSY/GUD/001/Vers.01

9. References

Title of book/ journal/article/website	Author	Year of publication	Page
Depression or Hostility Monitoring and Precautions.	Ministry of Health Sultanate of Oman The Directorate General for Nursing Affairs	2015	1-6
<i>Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition.</i>	American Psychiatric Association.	2013	
The ICD-10 Classification of Mental and Behavioural Disorders Clinical descriptions and diagnostic guidelines	World Health Organization		78-85



Depression: more treatment but no drop in prevalence: how effective is treatment? And can we do better?	Ormel J, Kessler RC, Schoevers R.	2019	348-350
Handbook of Depression. New York: Guilford Press	Gotlib I, Hammen C.	2002	
Maternal self-harm deaths: an unrecognized and preventable outcome.	Mangla K, Hoffman MC, Trumpff C, O'Grady S, Monk C.	2019	295-303
Psychiatric Symptom Profiles Predict Functional Impairment.	Tanner J, Zeffiro T, Wyss D, Perron N, Rufer M, Mueller-Pfeiffer C	2019	37
Mental disorders and comorbidity in suicide.	Henriksson MM, Aro HM, Marttunen MJ, et al.	1993	40
Health, United States, 2016: with chart-book on long-term trends in health.	National Center for Health Statistics	2017	
.Age at onset of selected mental disorders in five community populations.	Burke KC, Burke JD Jr, Regier DA, Rae DS	1990	8
Natural history of diagnostic interview schedule/DSM-IV major depression: the Baltimore Epidemiologic Catchment Area follow-up.	Eaton WW, Anthony JC, Gallo J, et al.	1997	9
Mood-disorder patients In: Stern TA, Cassem NH, Fricchione G, Rosenbaum JF, Jellinek M, eds. Massachusetts General Hospital handbook of general hospital psychiatry. 5th ed.	Cassem NH, Papakostas GI, Fava M, Stern TA	2004	69-92
General medical with depression drugs associated.	Rogers D, Pies R.	2008	28-41
The long-term natural history of the weekly symptomatic status of bipolar I disorder.	Judd LL, Akiskal HS, Schettler PJ, et al.	2002	7



Combined pharmacotherapy and psychological treatment for depression: a systematic review	Pampallona S, Bollini P, Tibaldi G, Kupelnick B, Munizza C.	2004	9
The impact of psychotherapy, pharmacotherapy, and their combination on quality of life in depression. <i>Harv Rev Psychiatry</i> . 2011 Dec. 19(6):277-89.	Ishak WW, Ha K, Kapitanski N, Bagot K, Fathy H, Swanson B, et al.	2011	89
A review of empirically supported psychological therapies for mood disorders in adults.	Hollon SD, Ponniah K.	2010	791-932
Depression. Society of Clinical Psychology, Division 12 of the APA.	APA	2018	
Evidence-based psychosocial treatments for child and adolescent depression.	David-Ferdon C, Kaslow NJ.	2008	62-104
APA. Practice Guideline for the Treatment of Patients with Major Depressive Disorder (3rd edition).	APA	2011	
Prospective study of postpartum depression: prevalence, course, and predictive factors. <i>J Abnorm Psychol</i> . 1984 May. 93(2):158-71.	O'Hara MW, Neunaber DJ, Zekoski EM	1984	71
The Serotonin Transporter Promoter Variant (5-HTTLPR), Stress, and Depression Meta-analysis Revisited: Evidence of Genetic Moderation.	Karg K, Burmeister M, Shedden K, Sen S.	2011	54
Clinical guidelines for the management of depression with specific comorbid psychiatric conditions French recommendations from experts (the French Association for Biological Psychiatry and Neuropsychopharmacology and the foundation FondaMental).	Bennabi D, Yroni A, Charpeaud T, Genty JB, Destouches S, et al.	2019	91



Major Depression among Adults. National Institutes of Health.	National Institute of Mental Health	2015	
Prepubertal depression: diagnostic and therapeutic dilemmas.	Sheikh RM, Weller EB, Weller RA.	2006	6
Anaclitic depression: An inquiry into the genesis of psychiatric conditions in early childhood.	Spitz R.	1946	313-342
Epidemiology of puerperal psychoses.	Kendell RE, Chalmers JC, Platz C.	1987	73
SIGN. Postnatal Depression and Puerperal Psychosis: A National Clinical Guideline.	Scottish Intercollegiate Guidelines Network	2002	32
Screening for depression in adults: U.S. preventive services task force recommendation statement.	USPSTF	2009	92
Identifying depression in the first postpartum year: guidelines for office-based screening and referral.	Peindl KS, Wisner KL, Hanusa BH.	2004	37-44
Clinical practice. Postpartum depression.	Wisner KL, Parry BL, Piontek CM.	2002	194-199
Postpartum depression: it isn't just the blues.	Beck CT.	2006	50-51
Acute stress and depression 3 days after vaginal delivery-- observational, comparative study.	Imsiragic AS, Begic D, Martic-Biocina S.	2009	521-527
Depression after delivery: risk factors, diagnostic and therapeutic considerations.	Scrandis DA, Sheikh TM, Niazi R, Tonelli LH, Postolache TT.	2007	82
Antepartum and postpartum depression.	Spinelli MG.	1998	6
Clinical practice. Postpartum depression. <i>NEngl J Med.</i> 2002 Jul 18. 347(3):194-9.	Wisner KL, Parry BL, Piontek CM.	2002	194-199



Use of psychiatric medications during pregnancy and lactation.	ACOG Practice Bulletin	2008	1000-1020
Incorporating recognition and management of perinatal and postpartum depression into pediatric practice.	Earls, Marian, MD.	2010	1032-1039
Screening for depression in adults: a summary of the evidence for the U.S. Preventive Services Task Force.	Pignone MP, Gaynes BN, Rushton JL, Burchell CM, Orleans CT, Mulrow CD, et al.	2002	765-776
Metabolic depression: a chronic depressive subtype? Findings from the InCHIANTI study of older persons.	Vogelzangs N, Beekman AT, Boelhouwer IG, et al.	2011	598-604
Association of Depression and Anxiety Disorders With Autoimmune Thyroiditis: A Systematic Review and Meta-analysis.	Siegmann E-M, Müller H, Luecke C, et al.	2018	
Beta-blocker therapy and symptoms of depression, fatigue, and sexual dysfunction.	Ko DT, Hebert PR, Coffey CS, Sedrakyan A, Curtis JP, Krumholz HM.	2002	351-357
β-blockers and the risk of incident depression in the elderly.	Luijendijk HJ, van den Berg JF, Hofman A, Tiemeier H, Stricker BH.	2011	45-50
Can we really accelerate and enhance the selective serotonin reuptake inhibitor antidepressant effect? A randomized clinical trial and a meta-analysis of pindolol in nonresistant depression.	Portella MJ, de Diego-Adeliño J, Ballesteros J, Puigdemont D, Oller S, Santos B, et al.	2011	962-969
Screening for Depression in Adults. U.S. Preventive Services Task Force.	U.S. Preventive Services Task Force.	2016	
Do ultra-short screening instruments accurately detect depression in primary care? A pooled analysis and	Mitchell AJ, Coyne JC.	2007	144-151



meta-analysis of 22 studies.			
Screening for depression in primary care with two verbally asked questions: cross sectional study. <i>BMJ</i> . 2003 Nov 15. 327(7424):1144-6.	Arroll B, Khin N, Kerse N.	2003	1144-1146
A technetium-99m hexamethylpropylene amine oxime brain single-photon emission tomography study in adolescent patients with major depressive disorder. <i>Eur J Nucl Med</i> . 1998 Jun. 25(6):601-6.	Tutus A, Kibar M, Sofuoglu S, Basturk M, Gönül AS.	1998	601-606
[Guideline] Using second-generation antidepressants to treat depressive disorders: a clinical practice guideline from the American College of Physicians. <i>Ann Intern Med</i> . 2008 Nov 18. 149(10):725-33.	Qaseem A, Snow V, Denberg TD, Forcica MA, Owens DK.	2008	725-733
Update on empirically validated therapies, II. <i>Clin Psychol</i> . 1998. 51, 3-16.	Chambless, D. L, Baker, M. J., Baucom, D. H., et al.	1998	3-16
Training in and dissemination of empirically validated psychological treatments. <i>Clin Psychol</i> . 1995. 48, 3-23.	Task Force on Promotion and Dissemination of Psychological Procedures	1995	3-23
Defining empirically supported therapies.	Chambless, D. L., & Hollon, S. D.	1998	7-18
Celexa (citalopram hydrobromide): Drug safety communication – abnormal heart rhythms associated with high doses.	US Food and Drug Administration.	2011	
A randomized, double-blind, placebo-controlled 8-week trial of the efficacy and tolerability of multiple doses of Lu AA21004 in	Henigsberg N, Mahableshwarkar AR, Jacobsen P, Chen Y, Thase ME.	2012	953-959



adults with major depressive disorder.			
A double-blind, randomized, placebo-controlled, active reference study of Lu AA21004 in patients with major depressive disorder.	Alvarez E, Perez V, Dragheim M, Loft H, Artigas F.	2012	589-600
A randomized, double-blind, parallel group study comparing the efficacy and safety of 2 doses of vortioxetine in adults with major depressive disorder.	Mahableshwarkar AR, Jacobsen PL, Serenko M, Chen Y, Trivedi M.	2013	
A randomized, double-blind, placebo-controlled study of the efficacy and safety of vortioxetine 10 mg and 20 mg in adults with major depressive disorder.	Jacobsen PL, Mahableshwarkar AR, Serenko M, Chen Y, Trivedi M.	2013	
A randomized, double-blind, placebo-controlled, duloxetine-referenced, fixed-dose study comparing the efficacy and safety of Lu AA21004 in elderly patients with major depressive disorder.	Katona C, Hansen T, Olsen CK.	2012	215-223
A randomized clinical study of Lu AA21004 in the prevention of relapse in patients with major depressive disorder.	Boulenger JP, Loft H, Florea I.	2012	1408-1416
. Vortioxetine (Lu AA21004) in the long-term open-label treatment of major depressive disorder.	Baldwin DS, Hansen T, Florea I	2012	1717-1724
A randomized, double-blind trial of 2.5?mg and 5?mg vortioxetine (Lu AA21004) versus placebo for 8 weeks in adults with major depressive disorder.	Mahableshwarkar AR, Jacobsen PL, Chen Y.	2013	217-226
A randomized, double-blind, placebo-controlled 6-wk trial of the efficacy and tolerability of 5 mg	Jain R, Mahableshwarkar AR, Jacobsen PL, Chen Y, Thase ME.	2013	131-321



vortioxetine in adults with major depressive disorder			
Combining Medications to Enhance Depression Outcomes (CO-MED): Acute and Long-Term Outcomes of a Single-Blind Randomized Study. 168(7):689-701.	Rush AJ, Trivedi MH, Stewart JW, et al.	2011	689-701
Rexulti (brexpiprazole) [package insert].	Otsuka America Pharmaceutical, Inc.	2015	
Psilocybin for treatment-resistant depression: fMRI-measured brain mechanisms.	Carhart-Harris RL, Roseman L, Bolstridge M, Demetriou L, Pannekoek JN, Wall MB, et al.	2017	13187
. Comparative Effectiveness of Second-Generation Antidepressants in the Pharmacologic Treatment of Adult Depression.	Agency for Healthcare Research and Quality	2010	
Effect of antidepressant medication treatment on suicidal ideation and behavior in a randomized trial: an exploratory report from the Combining Medications to Enhance Depression Outcomes	Zisook S, Lesser IM, Lebowitz B, Rush AJ, Kallenberg G, Wisniewski SR, et al.	2011	1322-1332
Comparative efficacy and acceptability of 21 antidepressant drugs for the acute treatment of adults with major depressive disorder: a systematic review and network meta-analysis.	Cipriani A, Furukawa TA, Salanti G, Chaimani A, Atkinson LZ, Ogawa Y, et al.	2018	
Contemporary behavioral activation treatments for depression: procedures, principles, and progress.	Hopko DR, Lejuez CW, Ruggiero KJ, Eifert GH.	2003	69-717
A component analysis of cognitive-behavioral treatment for depression.	Jacobson NS, Dobson KS, Truax PA, Addis ME, Koerner K, Gollan JK, et al.	1996	295-304
What is behavioral activation? A review of the empirical literature.	Kanter JW, Manos RC, Bowe WM, Baruch DE,	2010	608-620



	Busch AM, Rusch LC.		
A brief behavioral activation treatment for depression. Treatment manual.	Lejuez CW, Hopko DR, Hopko SD.	2001	255-286
Randomized trial of behavioral activation, cognitive therapy, and antidepressant medication in the acute treatment of adults with major depression.	Dimidjian S, Hollon SD, Dobson KS, Schmaling KB, Kohlenberg RJ, Addis ME, et al.	2006	658-670
Expanding behavioral activation to depressed adolescents: Lessons learned in treatment development.	McCauley, E., Schloredt, K., Gudmundsen, G., et al.	2011	173-383
BE-ACTIV: a staff-assisted behavioral intervention for depression in nursing homes.	Meeks S, Looney SW, Van Haitsma K, Teri L.	2008	105-114
Treatment of depressive symptoms during short-term rehabilitation: an attempted replication of the DOUR project.	Sood, J. R., Cisek, E., Zimmerman, J., et al.	2003	44-49
Healthy Ideas: a depression intervention delivered by community-based case managers serving older adults.	Quijano, L. M., Stanley, M. A., Peterson, N. J., et al.	2007	139-156
Cognitive therapy for depression. Barlow D.H. <i>Clinical handbook of psychological disorders: A step-by-step treatment manual</i> . Third Edition.	Young JE, Weinberger AD, Beck, AT.	2001	264-308
Cognitive therapy of depression.	Beck AT, Rush AJ, Shaw BF, Emery G.	1979	
Psychotherapy and combined psychotherapy/pharmacotherapy for late life depression	Areán PA, Cook BL.	2002	293-303
Treatments for later-life depressive conditions: a meta-analytic	Pinquart M, Duberstein PR, Lyness JM.	2006	1493-1501



comparison of pharmacotherapy and psychotherapy.			
Interpersonal Psychotherapy of Depression. New York: Basic Books	Klerman, G. L., Weissman, M. M., Rounsaville, B. J., et. al	1984	
Interpersonal psychotherapy for depression and other disorders. Barlow D.H. <i>Clinical Handbook of Psychological Disorders: A Step-by-Step Treatment Manual</i> . 3rd ed.	Gillies, L. A.	2001	
Interpersonal psychotherapy for depressed adolescents: a one-year naturalistic follow-up study.	Mufson L, Fairbanks J.	1996	1145-1155
Nortriptyline and interpersonal psychotherapy as maintenance therapies for recurrent major depression: a randomized controlled trial in patients older than 59 years.	Reynolds CF 3rd, Frank E, Perel JM, Imber SD, Cornes C, Miller MD, et al.	1999	29-45
Full Catastrophe Living: The program of the Stress Reduction Clinic at the University of Massachusetts Medical Center.	Kabat-Zinn, J.	1990	
Mindfulness-based cognitive therapy: Theoretical rationale and empirical status. Hayes, S.C., Follette, V.M. and Linehan, M.M. <i>Mindfulness and Acceptance: Expanding the Cognitive-Behavioral Tradition..</i>	Segal, Z. V., Teasdale, J. D., & Williams, J. M. G.	2011	
<i>Mindfulness based cognitive therapy for depression: A new approach to preventing relapse.</i>	Segal, Z. V., Williams, J. M. G., & Teasdale, J. D.	2002	
Prevention of relapse/recurrence in major depression by mindfulness-based cognitive therapy.	Teasdale JD, Segal ZV, Williams JM, Ridgeway VA, Soulsby JM, Lau MA.	2000	615-623
Mindfulness-based cognitive therapy for depression: replication and	Ma SH, Teasdale JD.	2004	31-40



exploration of differential relapse prevention effects.			
Efficacy of Mindfulness-Based Cognitive Therapy in Prevention of Depressive Relapse: An Individual Patient Data Meta-analysis From Randomized Trials.	Kuyken W, Warren FC, Taylor RS, Whalley B, Crane C, Bondolfi G, et al.	2016	
<i>Solving life's problems: A 5-step guide to enhanced well-being.</i>	Nezu, A. M., Nezu, C. M., & D'Zurilla, T. J.	2007	
Life stress, current problems, problem solving, and depressive symptoms: an integrative model.	Nezu AM, Ronan GF.	1985	693-697
Social problem solving as a moderator variable between negative life stress and depressive symptoms.	Nezu, A. M., Nezu, C. M., Saraydarian, L., et al	1986	489-498
Problem solving and behavior therapy revisited.	Nezu, A. M.	2004	1-33
<i>Problem-solving therapy: A positive approach to clinical intervention.</i> 3rd ed.	D'Zurilla, T. J. & Nezu, A. M.	2007	
A. Social problem solving: Theory and assessment. Chang, E.C., D'Zurilla, T.J., & Sanna, L.J. <i>Social problem solving: Theory, research, and training.</i>	D'Zurilla, T. J., Nezu, A. M., & Maydeu-Olivares,	2004	11-27
Problem-solving therapy. O'Donohue, W., Fisher, J. E. & Hayes, S. C.,. <i>Cognitive behavior therapy: Applying empirically supported techniques in your practice.</i> Hoboken	Nezu, A. M., Nezu, C. M., & Lombardo, E.	2003	301-307
Efficacy of a social problem-solving therapy approach for unipolar depression.	Nezu AM.	1986	196-202
Social problem-solving therapy for unipolar depression: an initial	Nezu AM, Perri MG.	1989	408-413



dismantling investigation.			
Comparative effectiveness of social problem-solving therapy and reminiscence therapy as treatments for depression in older adults.	Arean PA, Perri MG, Nezu AM, Schein RL, Christopher F, Joseph TX.	1993	1003-1010
Randomised controlled trial comparing problem solving treatment with amitriptyline and placebo for major depression in primary care.	Mynors-Wallis LM, Gath DH, Lloyd-Thomas AR, Tomlinson D.	1995	441-445
Problem solving treatment and group psychoeducation for depression: multicentre randomised controlled trial. Outcomes of Depression International Network (ODIN) Group.	Dowrick C, Dunn G, Ayuso-Mateos JL, Dalgard OS, Page H, Lehtinen V, et al.	2000	1450-1454
Efficacy of Bright Light Treatment, Fluoxetine, and the Combination in Patients With Nonseasonal Major Depressive Disorder: A Randomized Clinical Trial.	Lam RW, Levitt AJ, Levitan RD, Michalak EE, Morehouse R, Ramasubbu R, et al.	2015	1-9
Bright light treatment in elderly patients with nonseasonal major depressive disorder: a randomized placebo-controlled trial.	Lieverse R, Van Someren EJ, Nielen MM, Uitdehaag BM, Smit JH, Hoogendijk WJ.	2011	61-70
A randomized, double-blind, placebo-controlled study of light therapy for antepartum depression.	Wirz-Justice A, Bader A, Frisch U, Stieglitz RD, Alder J, Bitzer J, et al.	2011	986-993
. FDA Clears TMS Device for Resistant Depression.	Cassels C	2013	
FDA Okays TMS Device for Rapid Treatment of Major Depression. Mescape Medical News.	Brooks, M.	2017	
FDA Clears New Brain Stimulation System for Depression. Medscape Medical News.	Brooks M.	2015	



FDA Clears 3-Minute Brain Stimulation Protocol for Depression. Medscape Medical News.	Brooks M.	2018	
. The effect of exercise in clinically depressed adults: systematic review and meta-analysis of randomized controlled trials.	Krogh J, Nordentoft M, Sterne JA, Lawlor DA	2011	529-538
Deep brain stimulation for treatment-resistant depression: follow-up after 3 to 6 years.	Kennedy SH, Giacobbe P, Rizvi SJ, et al.	2011	502-510
The Sertraline vs Electrical Current Therapy for Treating Depression Clinical Study: Results From a Factorial, Randomized, Controlled Trial.	Brunoni AR, Valiengo L, Baccaro A, Zanão TA, de Oliveira JF, Goulart A, et al.	2013	1-9
Meta-analysis of randomized controlled trials of cranial electrostimulation. Efficacy in treating selected psychological and physiological conditions	Klawansky S, Yeung A, Berkey C, Shah N, Phan H, Chalmers TC.	1995	478-484
FDA OKs Brain Stimulator for Insomnia, Anxiety, Depression. Medscape Medical News.	Brooks M.	2019	
Acute and longer-term outcomes in depressed outpatients requiring one or several treatment steps: a STAR*D report.	Rush AJ, Trivedi MH, Wisniewski SR, Nierenberg AA, Stewart JW, Warden D, et al.	2006	1905-1917
Star-D: lessons learned and future implications.	Rush AJ.	2011	521-524
The efficacy and safety of aripiprazole as adjunctive therapy in major depressive disorder: a multicenter, randomized, double-blind, placebo-controlled study.	Berman RM, Marcus RN, Swanink R, McQuade RD, Carson WH, Corey-Lisle PK, et al.	2007	843-853
The efficacy and safety of aripiprazole as adjunctive therapy in major depressive disorder: a second	Marcus RN, McQuade RD, Carson WH, Hennicken D, Fava M,	2008	156-165



multicenter, randomized, double-blind, placebo-controlled study.	Simon JS, et al.		
Aripiprazole augmentation in major depressive disorder: a double-blind, placebo-controlled study in patients with inadequate response to antidepressants.	Berman RM, Fava M, Thase ME, Trivedi MH, Swanink R, McQuade RD, et al.	2009	197-206
Efficacy and Safety of Intranasal Esketamine for the Rapid Reduction of Symptoms of Depression and Suicidality in Patients at Imminent Risk for Suicide: Results of a Double-Blind, Randomized, Placebo-Controlled Study.	Canuso CM, Singh JB, Fedgchin M, Alphs L, Lane R, Lim P, et al.	2018	620-630
Efficacy and Safety of Intranasal Esketamine Adjunctive to Oral Antidepressant Therapy in Treatment-Resistant Depression: A Randomized Clinical Trial.	Daly EJ, Singh JB, Fedgchin M, Cooper K, Lim P, Shelton RC, et al.	2018	139-148
Vagus nerve stimulation effective in resistant depression.	Lowry F.	2013	
Association of cerebral metabolic activity changes with vagus nerve stimulation antidepressant response in treatment-resistant depression.	Conway CR, Chibnall JT, Gebara MA, Price JL, Snyder AZ, Mintun MA, et al.	2013	
TMS for resistant depression: long-term results are in.	Cassels C.	2013	
The Treatment for Adolescents With Depression Study (TADS): long-term effectiveness and safety outcomes.	March JS, Silva S, Petrycki S, Curry J, Wells K, Fairbank J, et al.	2007	1132-1143
Texas Children's Medication Algorithm Project: update from Texas Consensus Conference Panel on Medication Treatment of Childhood Major Depressive Disorder.	Hughes CW, Emslie GJ, Crismon ML, Posner K, Birmaher B, Ryan N, et al.	2007	667-686



. The treatment of SSRI-resistant depression in adolescents (TORDIA): in search of the best next step.	Brent DA	2009	871-874
Pharmacology of the selective serotonin reuptake inhibitors in children and adolescents.	Leonard HL, March J, Rickler KC, Allen AJ.	1997	725-736
. Paroxetine in children with major depressive disorder: an open trial.	Rey-Sánchez F, Gutiérrez-Casares JR	1997	1443-1447
Efficacy of antidepressants in juvenile depression: meta-analysis.	Tsapakis EM, Soldani F, Tondo L, Baldessarini RJ.	2008	10-17
A double-blind, randomized, placebo-controlled trial of fluoxetine in children and adolescents with depression.	Emslie GJ, Rush AJ, Weinberg WA, Kowatch RA, Hughes CW, Carmody T, et al.	1997	1031-1037
The Treatment for Adolescents With Depression Study (TADS): long-term effectiveness and safety outcomes.	March JS, Silva S, Petrycki S, Curry J, Wells K, Fairbank J, et al.	2007	1132-1143
FDA Suicide Warnings Change Antidepressant Prescribing Patterns, but Physicians Ignore Monitoring Recommendations. Medscape Today.	Cassels C.	2010	
FDA Suicide Warnings About Antidepressants Cut Rates of Depression Diagnosis and Treatment. Medscape Today.	Cassels C.	2010	
Antidepressants and risks of suicide and suicide attempts: a 27-year observational study.	Leon AC, Solomon DA, Li C, et al.	2011	580-586
Antidepressant medication and suicide in Sweden.	Carlsten A, Waern M, Ekedahl A, Ranstam J	2001	525-530
Association between antidepressant prescribing and suicide in Australia, 1991-2000: trend analysis.	Hall WD, Mant A, Mitchell PB, Rendle VA, Hickie IB, McManus P.	2003	1008



National trends in the use of outpatient psychotherapy.	Olfson M, Marcus SC, Druss B, Pincus HA.	2002	1914-1920
Fluoxetine, cognitive-behavioral therapy, and their combination for adolescents with depression: Treatment for Adolescents With Depression Study (TADS) randomized controlled trial.	March J, Silva S, Petrycki S, Curry J, Wells K, Fairbank J, et al.	2004	807-820
Suicide risk during antidepressant treatment.	Simon GE, Savarino J, Operskalski B, Wang PS.	2006	41-47
A meta-analysis of depression during pregnancy and the risk of preterm birth, low birth weight, and intrauterine growth restriction.	Grote NK, Bridge JA, Gavin AR, Melville JL, Iyengar S, Katon WJ.	2010	1012-1024
Selective serotonin-reuptake inhibitors and risk of persistent pulmonary hypertension of the newborn.	Chambers CD, Hernandez-Diaz S, Van Marter LJ, Werler MM, Louik C, Jones KL, et al.	2006	579-587
Persistent pulmonary hypertension of the newborn and selective serotonin reuptake inhibitors: lessons from clinical and translational studies.	Occhiogrosso M, Omran SS, Altemus M.	2012	134-140
FDA drug safety communication: Selective serotonin reuptake inhibitor (SSRI) antidepressant use during pregnancy and reports of a rare heart and lung condition in newborn babies..	US Food and Drug Administration	2011	
Neonatal abstinence syndrome after in utero exposure to selective serotonin reuptake inhibitors in term infants.	Levinson-Castiel R, Merlob P, Linder N, Sirota L, Klinger G.	2006	173-176
Pharmacotherapy of postpartum depression.	di Scalea TL, Wisner KL.	2009	2593-2607



The management of depression during pregnancy: a report from the American Psychiatric Association and the American College of Obstetricians and Gynecologists.	Yonkers KA, Wisner KL, Stewart DE, Oberlander TF, Dell DL, Stotland N, et al.	2009	703-713
. Prevention of postpartum depression: a pilot randomized clinical trial.	Wisner KL, Perel JM, Peindl KS, Hanusa BH, Piontek CM, Findling RL	2004	1290-1292
. Pooled analysis of antidepressant levels in lactating mothers, breast milk, and nursing infants.	Weissman AM, Levy BT, Hartz AJ, Bentler S, Donohue M, Ellingrod VL, et al	2004	1066-1078
High worry severity is associated with poorer acute and maintenance efficacy of antidepressants in late-life depression.	Andreescu C, Lenze EJ, Mulsant BH, Wetherell JL, Begley AE, Mazumdar S, et al.	2009	266-272
A systematic review of treatments for refractory depression in older people.	Cooper C, Katona C, Lyketsos K, et al.	2011	681-688
DASH Diet Linked to Lower Risk for Depression. Medscape Medical News.	Anderson P.	2018	
Dietary intervention for people with mental illness in South Australia.	Bogomolova S, Zarnowiecki D, Wilson A, Fielder A, Procter N, Itsiopoulos C, et al.	2018	71-83
A randomised controlled trial of dietary improvement for adults with major depression (the 'SMILES' trial).	Jacka FN, O'Neil A, Opie R, Itsiopoulos C, Cotton S, Mohebbi M, et al.	2017	23
. Neuroprotective Diets Are Associated with Better Cognitive Function: The Health and Retirement Study.	McEvoy CT, Guyer H, Langa KM, Yaffe K	2017	1857-1862
. Paroxetine-induced hyponatremia in older adults: a 12-week prospective study.	Fabian TJ, Amico JA, Kroboth PD, Mulsant BH, Corey SE, Begley AE, et al	2004	327-332



Serotonin and suicidality: the impact of acute fluoxetine administration. I: Serotonin and suicide.	King RA, Segman RH, Anderson GM.	1994	271-279
Antidepressant drugs and the emergence of suicidal tendencies. <i>Drug Saf.</i> 1993 Mar. 8(3):186-212. Pan A, Okereke OI, Sun Q, Logroscino G, Manson JE, Willett WC, et al. Depression and incident stroke in women.	Teicher MH, Glod CA, Cole JO.	2011	1770-2775
Depression and risk of stroke morbidity and mortality: a meta-analysis and systematic review.	Pan A, Sun Q, Okereke OI, Rexrode KM, Hu FB.	2011	1241-1249
Illness risk following rapid versus gradual discontinuation of antidepressants.	Baldessarini RJ, Tondo L, Ghiani C, Lepri B.	2010	934-941
Atypical antipsychotic augmentation in major depressive disorder: a meta-analysis of placebo-controlled randomized trials.	Nelson JC, Papakostas GI.	2009	980-991
Collaborative care for depression: a cumulative meta-analysis and review of longer-term outcomes.	Gilbody S, Bower P, Fletcher J, Richards D, Sutton AJ.	2006	2314-2321
Pilot study of continuation cognitive-behavioral therapy for major depression in adolescent psychiatric patients	Kroll L, Harrington R, Jayson D, Fraser J, Gowers S.	1996	1156-1161
Clinical guidelines for the management of depression with specific comorbid psychiatric conditions French recommendations from experts (the French Association for Biological Psychiatry and Neuropsychopharmacology and the fondation FondaMental).	Bennabi D, Yroni A, Charpeaud T, Genty JB, Destouches S, et al.	2019	50



[Guideline] International Society for Nutritional Psychiatry Research Practice Guidelines for Omega-3 Fatty Acids in the Treatment of Major Depressive Disorder.	Guu TW, Mischoulon D, Sarris J, Hibbeln J, McNamara RK, Hamazaki K, et al.	2019	263-273
A Message From APA President Dilip Jeste, M.D., on DSM-5.	APA	2012	
Stimulation device shows 'immediate' impact on depression.	Anderson P.	2014	
Efficacy and safety of levomilnacipran sustained release 40 mg, 80 mg, or 120 mg in major depressive disorder: a phase 3, randomized, double-blind, placebo-controlled study.	Asnis GM, Bose A, Gommoll CP, Chen C, Greenberg WM.	2013	
Depression Causally Linked to Heart Disease. Medscape Medical News.	Brauser D.	2014	
Depressive disorder, coronary heart disease, and stroke: dose-response and reverse causation effects in the Whitehall II cohort study.	Brunner EJ, Shipley MJ, Britton AR, Stansfeld SA, Heuschmann PU, Rudd AG, et al.	2014	
FDA Approves New SNRI for Major Depression. Medscape Medical News.	Cassels C.	2013	
FDA Approves Vortioxetine for Major Depression. Medscape Medical News.	Cassels C.	2013	
Psychosocial and psychological interventions for preventing postpartum depression.	Dennis CL, Dowswell T.	2013	
Suicide as an outcome for mental disorders. A meta-analysis. <i>Br J Psychiatry</i> . 1997 Mar. 170:205-28. Hollon SD, Ponniah K. A review of empirically supported psychological therapies for mood	Harris EC, Barraclough B.	2010	891-932

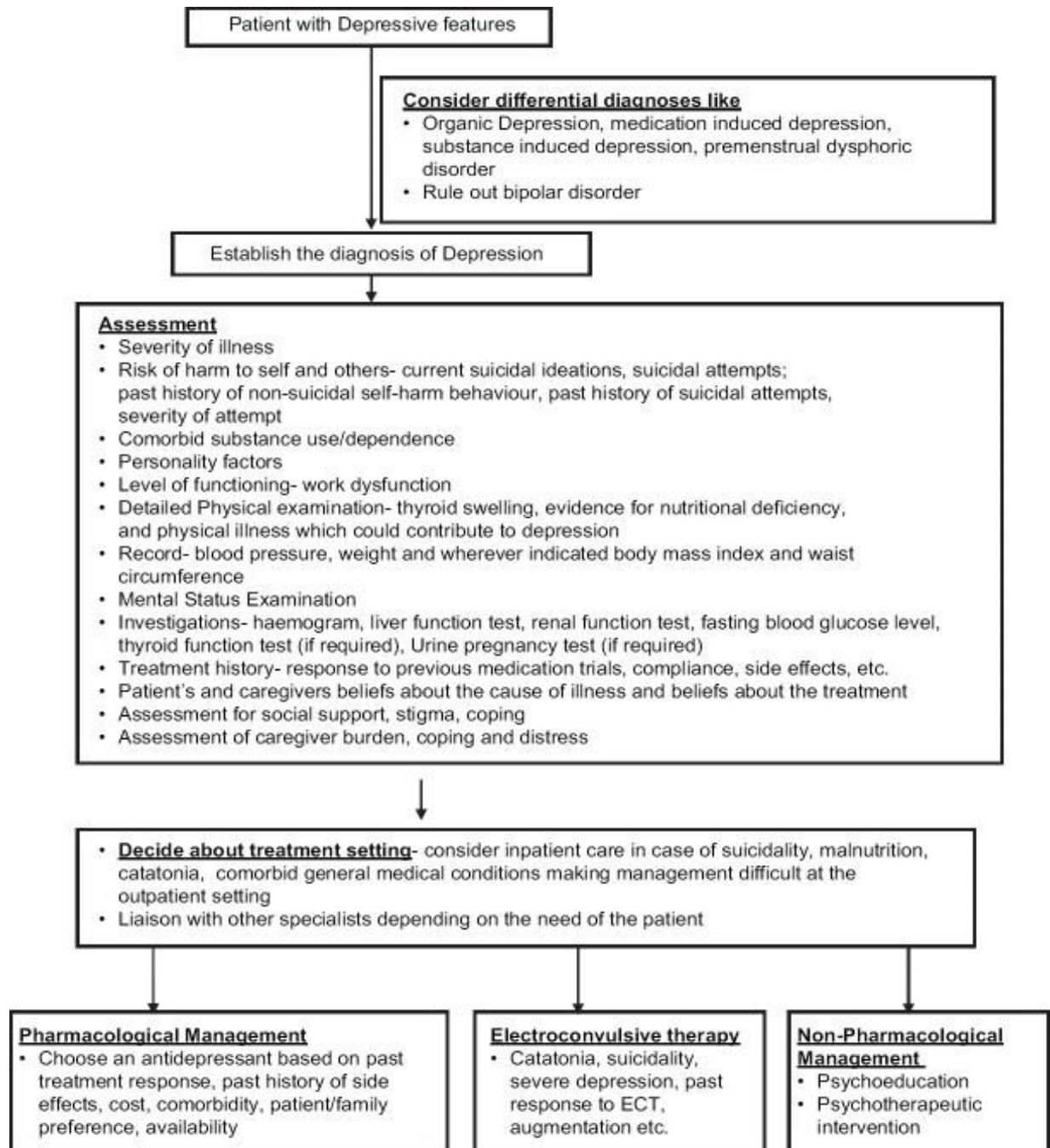


disorders in adults.			
Varicella Zoster Virus-Specific Immune Responses to a Herpes Zoster Vaccine in Elderly Recipients With Major Depression and the Impact of Antidepressant Medications. <i>Clin Infect Dis.</i> 2013 Feb 13. Jarrett RB, Minhajuddin A, Gershenfeld H, Friedman ES, Thase ME. Preventing depressive relapse and recurrence in higher-risk cognitive therapy responders: a randomized trial of continuation phase cognitive therapy, fluoxetine, or matched pill placebo.	Irwin MR, Levin MJ, Laudenslager ML, Olmstead R, Lucko A, Lang N, et al.	2013	1152-1560
Rapid mood-elevating effects of low field magnetic stimulation in depression.	Rohan ML, Yamamoto RT, Ravichandran CT, et al.	2014	186-193
Structural abnormalities in brain magnetic resonance images of depressed children.	Steingard RJ, Renshaw PF, Yurgelun-Todd D, Appelmans KE, Lyoo IK, Shorrock KL, et al.	1996	307-311
Global arginine bioavailability ratio is decreased in patients with major depressive disorder.	Ali-Sisto T, Tolmunen T, Viinamäki H, Mäntyselkä P, Valkonen-Korhonen M, Koivumaa-Honkanen H, et al.	2018	145-151
Esketamine Nasal Spray for Rapid Reduction of Major Depressive Disorder Symptoms in Patients Who Have Active Suicidal Ideation With Intent: Double-Blind, Randomized Study (ASPIRE I).	Fu DJ, Ionescu DF, Li X, Lane R, Lim P, Sanacora G, et al.	2020	9-15
Esketamine Nasal Spray May Rapidly Reduce Suicidal Thoughts. <i>Medscape Medical News.</i>	Davenport L.	2019	



10. Appendices

10.1. Appendix 1. Formulating a Treatment Plan





10.2. Appendix 2. Audit Tool

S.N	Audit process	Standard / Criteria	Yes	Partial	No	N/A	Comment
1.	Interview	Does health care provider are aware about P&P of depression.					
		<u>Assessment</u>					
2.	Interview observation	Are all patients assessed on admission to identify patient who are depressed with risk of suicidal.					
3.	Interview observation Document Review	Does doctor Take full history including all necessary information , Initial risk assessment for the patient with depression , depression Hamilton scales , Mental state examination and Ensure full physical assessment carried out including necessary investigation.					
		<u>Management of depression</u>					
4.	Interview Document Review	Dose the psychiatrist's implementation of a management/care plan appropriate to the risk factor identified.					
5	Document Review	Dose the doctor provisional diagnosis and information of care plan including observation and treatment and referring the patient to other multidisciplinary team for assessment.					
6.	Interview	Dose the psychiatrists has knowledge about Treatment options for management of depression (First-line treatment and Second line treatment.					
7	observation	Does assigned nurse took appropriate action to make the environment safe to promote the safety of service users/ patients.					
8	Interview observation Document	Does assigned nurse Monitor the depression patient's nutritional status, weigh him regularly.					



	Review						
9	Interview observation Document Review	Does assigned nurse maximizing the level of functioning Assess the patient ability to carry out activities of daily living and promoting Social skills.					

Department: _____

Date: _____



10.3. Appendix 3. Document Request Form

Document Request Form			
Section A: Completed by Document Requester			
1. Requester Details			
Name	Dr. Thuraya Al Hashme	Date of Request	July 2022
Institute	Al Masarra Hospital	Mobile	—
Department	Psychiatry	Email	—
The Purpose of Request			
<input type="checkbox"/> Develop New Document	<input checked="" type="checkbox"/> Modification of Document	<input type="checkbox"/> Cancelling of Document	
1. Document Information			
Document Title	Clinical Guideline for the Diagnosis and Treatment of Major Depressive Disorder		
Document Code	AMRH/PSY/GUD/001/Vers.02		
Section B: Completed by Document Controller			
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Cancelled	<input type="checkbox"/> Forward To:.....	
Comment and Recommendation:			
Name	Kunooz Al Balushi	Date	July 2022
Signature		Stamp	





10.4.

Appendix 4. Document Validation Checklist

Document Validation Checklist					
Document Title: Clinical Guideline for the Diagnosis and Treatment of Major Depressive Disorder		Document Code : AMRH/PSY/GUD/001/Vers.02			
No	Criteria	Meets the Criteria			Comments
		Yes	No	N/A	
1.	Approved format used				
1.1	Clear title – Clear Applicability	✓			
1.2	Index number stated	✓			
1.3	Header/ Footer complete	✓			
1.4	Accurate page numbering	✓			
1.5	Involved departments contributed	✓			
1.6	Involved personnel signature /approval	✓			
1.7	Clear Stamp	✓			
2.	Document Content				
2.1	Clear purpose and scope	✓			
2.2	Clear definitions	✓			
2.3	Clear policy statements (if any)			✓	
3.	Well defined procedures and steps				
3.1	Procedures in orderly manner	✓			
3.2	Procedure define personnel to carry out step	✓			
3.3	Procedures define the use of relevant forms			✓	
3.4	Procedures to define flowchart	✓			
3.5	Responsibilities are clearly defined	✓			
3.6	Necessary forms and equipment are listed	✓			
3.7	Forms are numbered	✓			
3.8	References are clearly stated	✓			
4.	General Criteria				
4.1	Policy is adherent to MOH rules and regulations	✓			
4.2	Policy within hospital/department scope	✓			
4.3	Relevant policies are reviewed	✓			
4.4	Items numbering is well outlined	✓			
4.5	Used of approved font type and size	✓			
4.6	Language is clear, understood and well structured	✓			
Recommendations..... For implementation More revision To be cancelled					
Reviewed by: <u>Kunooz Al Balushi</u>			Reviewed by: <u>Irvin S. Rio</u>		

