

S2 Table. Unified Medical Language system's depression terms used to identify key concepts from clinical notes for depression diagnoses and symptoms.

Depression Terms		
Adjustment disorder with depressed mood	Chronic recurrent major depressive disorder	Schizoaffective disorder, depressive type
Brief depressive adjustment reaction	Recurrent major depressive disorder with catatonic features	Post-schizophrenic depression
Mental Depression	Recurrent major depressive disorder with atypical features	Bipolar affective disorder, currently depressed, mild
Depression, Chemical	Recurrent major depressive disorder with atypical features	Bipolar affective disorder, currently depressed, moderate
Endogenous depression	Recurrent major depressive disorder with postpartum onset	Bipolar affective disorder, currently depressed, severe, with psychosis
Involutional Depression	Minor depressive disorder	Bipolar affective disorder, currently depressed, in full remission
Reactive depression	Endogenous depression - recurrent	Manic-depressive - now manic
Depressive disorder	Postviral depression	Single major depressive episode, severe, with psychosis
Single major depressive episode	Chronic depression	Major depressive affective disorder, single episode, in partial or unspecified remission
melancholic depression	Mild depression	Recurrent major depressive episodes, severe, with psychosis
Unipolar Depression	Moderate depression	Senile dementia with depressive or paranoid features
seasonal depression	Severe depression	Chronic bipolar I disorder, most recent episode depressed
Depressive Symptoms	emotional and psychiatric depression	Severe depressed bipolar I disorder with psychotic features, mood-congruent
Depressive Syndrome	AODR depressive state	Severe depressed bipolar I disorder with psychotic features, mood-incongruent
Arteriosclerotic dementia with depression	Recurrent major depressive disorder with melancholic features	Bipolar I disorder, most recent episode depressed with catatonic features
Mild major depression, single episode	depression anxiety disorder	
Moderate major depression, single episode	Cancer patients and suicide and depression	
Severe major depression, single episode, without psychotic features	Monopolar depression, single episode or unspecified	
Single major depressive episode, in full remission	Depressive character or personality	
Recurrent major depressive episodes	Hyposomnia, insomnia or sleeplessness associated with depression	
Mild recurrent major depression	Hyposomnia, insomnia or sleeplessness associated with major depression	
Moderate recurrent major depression	Hyposomnia, insomnia or sleeplessness associated with minor depression	
Severe recurrent major depression without psychotic features		
Recurrent major depression in complete remission		
Atypical depressive disorder		

<p>Antidepressant type abuse</p> <p>Antidepressant type abuse, continuous</p> <p>Antidepressant type abuse, episodic</p> <p>Antidepressant type abuse, in remission</p> <p>Prolonged depressive adjustment reaction</p> <p>Adjustment disorder with mixed anxiety and depressed mood</p> <p>Cerebral depression, coma, and other abnormal cerebral signs in fetus or newborn</p> <p>Depression, Postpartum</p> <p>Recurrent depression</p> <p>Lifelong depressive personality trait</p> <p>Depressed reaction</p> <p>Agitated depression</p> <p>Depression aggravated</p> <p>Primary degenerative dementia of the Alzheimer type, senile onset, with depression</p> <p>Multi-infarct dementia with depression</p> <p>Major depression single episode, in partial remission</p> <p>Recurrent major depression in partial remission</p> <p>Organic mood disorder of depressed type</p> <p>Mild major depression</p> <p>Moderate major depression</p> <p>Severe major depression without psychotic features</p> <p>Major depression in remission</p>	<p>Hypersomnia associated with depression</p> <p>Hypersomnia associated with major depression</p> <p>Hypersomnia associated with minor depression</p> <p>Adjustment reaction with anxiety and depression</p> <p>Depressive disorder, NEC in ICD9CM_2014</p> <p>Depressive disorder, NEC in MDR</p> <p>Depressive disorder, NEC in CCS2003</p> <p>winter depression</p> <p>Major Depressive Disorder</p> <p>Major depression, melancholic type</p> <p>Self-control behavior: depression</p> <p>Acute depression</p> <p>Depression and Suicide Cancer Patient</p> <p>Depression and Suicide Depressed - symptom</p> <p>Drug-induced central nervous system depression</p> <p>Parkinsonism with alveolar hypoventilation and mental depression</p> <p>Depressive Disorder, Treatment-Resistant</p> <p>Severe recurrent major depression</p> <p>clinical depression</p> <p>Childhood Depression</p> <p>Severe major depression</p> <p>Recurrent major depressive episodes, mild</p> <p>Chronic depressive personality disorder</p> <p>Recurrent major depressive episodes, in full remission</p>	<p>Bipolar I disorder, most recent episode depressed with melancholic features</p> <p>Bipolar I disorder, most recent episode depressed with atypical features</p> <p>Bipolar I disorder, most recent episode depressed with postpartum onset</p> <p>Depressed bipolar I disorder in remission</p> <p>Bipolar II disorder, most recent episode major depressive</p> <p>Mild bipolar II disorder, most recent episode major depressive</p> <p>Moderate bipolar II disorder, most recent episode major depressive</p> <p>Chronic bipolar II disorder, most recent episode major depressive</p> <p>Severe bipolar II disorder, most recent episode major depressive without psychotic features</p> <p>Bipolar II disorder, most recent episode major depressive with catatonic features</p> <p>Bipolar II disorder, most recent episode major depressive with melancholic features</p> <p>Bipolar II disorder, most recent episode major depressive with atypical features</p> <p>Bipolar II disorder, most recent episode major depressive with postpartum onset</p> <p>Severe bipolar II disorder, most recent episode major depressive, in remission</p>
---	--	--

Major depression in partial remission	Adjustment disorder with depressed mood in remission	Severe bipolar II disorder, most recent episode major depressive, in partial remission
Major depression in complete remission	Depressive disorder in remission	Severe bipolar II disorder, most recent episode major depressive, in full remission
Major depression, single episode, in complete remission	Depressive disorder in mother complicating childbirth	depressive delusion
Recurrent major depression in remission	Major depressive disorder in mother	depressive schizoaffective disorders
Stuporous depression	Manic-Depression	Depression, psychotic
Depression, Neurotic depressive personality	Depression, Bipolar	depression psychotic feature
Presenile dementia with depression	Depression, Reactive, Psychotic	Senile dementia with delusional or depressive features
Senile dementia with depression	MANIC DEPRESSIVE DISEASE, MANIC PHASE	Manic-depressive psychosis, circular type but currently manic
Drug-induced depressive state	Severe major depression, single episode, with psychotic features	Manic-depressive psychosis, circular type but currently depressed
Recurrent major depressive episodes, moderate	Severe recurrent major depression with psychotic features	Manic-depressive psychosis, circular type, mixed
Major depressive affective disorder, recurrent episode, in partial or unspecified remission	Bipolar I disorder, most recent episode (or current) depressed	Transient organic psychotic condition, depressive type
Endogenous depression first episode	Depressed bipolar I disorder	Manic-depressive psychosis or reaction, hypomanic, single episode or unspecified
Masked depression	Mild depressed bipolar I disorder	Manic-depressive psychosis or reaction, manic, single episode or unspecified
Mixed anxiety and depressive disorder	Moderate depressed bipolar I disorder	Depressive psychosis, single episode or unspecified
Brief depressive reaction	Severe depressed bipolar I disorder without psychotic features	Endogenous depression, single episode or unspecified
Depressive conduct disorder	Depressed bipolar I disorder in partial remission	Manic-depressive psychosis or reaction, depressed type, single episode or unspecified
Mild postnatal depression	Depressed bipolar I disorder in full remission	Psychotic depression, single episode or unspecified
Severe postnatal depression	Manic Type Manic	Manic-depressive psychosis, circular type, current
Pseudo-Cushing's syndrome of depression	Depressive Illness	
Depressive episode, unspecified	Severe major depression with psychotic features	
Postoperative depression		
Feeling depressed		
Mood disorder with depressive features due to general medical condition		

Mood disorder with major depressive-like episode due to general medical condition Menopausal depression Chronic major depressive disorder, single episode Major depressive disorder, single episode with catatonic features Major depressive disorder, single episode with melancholic features Major depressive disorder, single episode with atypical features Major depressive disorder, single episode with postpartum onset	Severe major depression with psychotic features, mood-congruent Severe major depression with psychotic features, mood-incongruent Severe major depression, single episode, with psychotic features, mood-congruent Severe major depression, single episode, with psychotic features, mood-incongruent Severe recurrent major depression with psychotic features, mood-congruent Severe recurrent major depression with psychotic features, mood-incongruent	condition not specified as either manic or depressive Manic-depressive psychosis, mixed type bipolar depression depressed phase Bipolar I disorder, most recent episode (or current) depressed Manic-Depressive Illness MANIC-DEPRESSIVE PSYCHOSIS Reactive depressive psychosis, single episode Severe depressed bipolar I disorder Depressive type psychosis Manic-depressive illness in children Manic-depressive illness in adolescence
--	--	---