

Supplementary Material

Article Title: Barriers to Esketamine Nasal Spray Treatment Among Adults with Treatment-Resistant Depression

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LIST OF SUPPLEMENTARY MATERIAL FOR THE ARTICLE

1. [Table 1](#) ICD-10-CM Codes for Exclusion Criteria: Bipolar Depression, Schizophrenia, and Schizoaffective Disorder
2. [Table 2](#) ICD-10-CM Codes for Major Depressive Disorder
3. [Table 3](#) List of Antidepressant Medications Eligible for Inclusion as the Initial Antidepressant Monotherapy
4. [Table 4](#) FDA-Approved Pharmacotherapy for Augmentation/Adjunctive MDD Treatment
5. [Table 5](#) ICD-10-CM Codes for Suicidal Ideation and Self-Harm Behavior
6. [Table 6](#) ICD-10-CM Codes for Psychiatric Comorbidities

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**SUPPLEMENTARY TABLE 1. ICD-10-CM CODES FOR EXCLUSION CRITERIA
BIPOLAR DEPRESSION, SCHIZOPHRENIA, AND SCHIZOAFFECTIVE DISORDER**

Condition	ICD-10
Bipolar Depression	F30.10 – F30.13, F30.1, F30.2, F30.3, F30.4, F30.8, F30.9, F31.X
Schizophrenia	F20.0, F20.1, F20.2, F20.3, F20.5, F20.8, F20.81, F20.89, F20.9
Schizoaffective disorder	F25.x

SUPPLEMENTARY TABLE 2. ICD-10-CM CODES FOR MAJOR DEPRESSIVE DISORDER

Condition	ICD-10	Definition
Major Depressive Disorder, Single Episode		
	F32	Major Depressive Disorder, single episode
	F32.0	Major Depressive Disorder, single episode, mild
	F32.1	Major Depressive Disorder, single episode, moderate
	F32.2	Major Depressive Disorder, single episode, severe without psychotic features
	F32.3	Major Depressive Disorder, single episode, severe with psychotic features
	F32.4	Major Depressive Disorder, single episode, in partial remission
	F32.5	Major Depressive Disorder, single episode, in full remission
	F32.9	Major Depressive Disorder, single episode, unspecified
Major Depressive Disorder, Recurrent Episode		
	F33	Major Depressive Disorder, recurrent episode
	F33.0	Major Depressive Disorder, recurrent episode, mild
	F33.1	Major Depressive Disorder, recurrent episode, moderate
	F33.2	Major Depressive Disorder, recurrent episode, severe without psychotic features
	F33.3	Major Depressive Disorder, recurrent episode, severe with psychotic features
	F33.4	Major Depressive Disorder, recurrent episode, in remission
	F33.40	Major Depressive Disorder, recurrent episode, unspecified
	F33.41	Major Depressive Disorder, recurrent episode, in partial remission
	F33.42	Major Depressive Disorder, recurrent episode, in full remission
	F33.9	Major Depressive Disorder, recurrent episode, unspecified

SUPPLEMENTARY TABLE 3. LIST OF ANTIDEPRESSANT MEDICATIONS ELIGIBLE FOR INCLUSION AS THE INITIAL ANTIDEPRESSANT MONOTHERAPY

Antidepressant	Starting Dose (mg/day)
Alpha-2 Receptor Antagonists	
Mirtazapine	15
Monoamine Oxidase Inhibitors (MAOIs)	
Isocarboxazid	10-20
Phenelzine	15
Selegiline	6
Tranylcypromine	10
Serotonin Modulators	
Nefazodone	
Trazodone	
Vilazodone	
Vortioxetine	
Selective Serotonin Reuptake Inhibitors (SSRIs)	
Citalopram	
Escitalopram	
Fluoxetine	
Paroxetine	
Paroxetine, extended release	
Sertraline	
Serotonin-Norepinephrine Reuptake Inhibitors (SNRIs)	
Desvenlafaxine	
Duloxetine	
Levomilnacipran	
Venlafaxine, immediate or extended release	
Tricyclics and Tetracyclics	
Amitriptyline	
Amoxapine	
Clomipramine	
Desipramine	
Doxepin	
Imipramine	
Nortriptyline	
Protriptyline	
Trimipramine	
Maprotiline	
Antidepressants - Other	
Bupropion, immediate or extended release	
Bupropion, sustained release	

SUPPLEMENTARY TABLE 4. FDA-APPROVED PHARMACOTHERAPY FOR AUGMENTATION/ADJUNCTIVE MDD TREATMENT

Drug class/names

Atypical antipsychotics (second generation)

Aripiprazole (Abilify)

Brexiprazole (Rexulti)

Olanzapine (Zyprexa)

Risperidone (Risperdal)

Fluoxetine + Olanzapine (Symbyax)

Quetiapine (Seroquel)

Combinations

Chlordiazepoxide-amitriptyline (Limbitrol)

Perphenazine-amitriptyline (Etrafon)

Mood stabilizers

Lithium

Thyroid hormone

Triiodothyronine (T3)

SUPPLEMENTARY TABLE 5. ICD-10-CM CODES FOR SUICIDAL IDEATION AND SELF-HARM BEHAVIOR

Condition	ICD-10
Suicidal ideation	R45.481
Suicide attempt	T14.91
Intentional self-harm by poisoning	T36.[0-9]X2*, T37.[0-9]X2*, T38.[0-7]X2*, T38.8[0-9]2*, T38.9[0-9]2*, T39.0[1-9]2*, T39.1X2*, T39.2X2*, T39.3[1-9]2*, T39.4X2*, T39.8X2, T39.92X*, T40.0[0-5]X2*, T40.6[0-9]2*, T40.7X2*, T40.8X2*, T40.902*, T40.992*, T41.0X2*, T41.1X2*, T41.2[0-9]2*, T41.3X2*, T41.42X*, T41.5X2*, T42.[0-6]X2*, T42.72X*, T42.8X2*, T43.0[1-2]2*, T43.1X2*, T43.2[0-9]2*, T43.[3-4]X2*, T43.5[0-9]2*, T43.6[0-9]2*, T43.8X2*, T43.92X*, T44.[0-8]X2*, T44.9[0-9]2*, T45.[0-4]X2*, T45.5[1-2]2*, T45.6[0-9]2*, T45.7X2*, T45.8X2*, T45.92X*, T46.[0-8]X2*, T46.9[0-9]2*, T47.[0-8]X2*, T47.92X*, T48.[0-1]X2*, T48.2[0-9]2*, T48.[3-6]X2*, T48.9[0-9]2*, T49.[0-8]X2*, T49.82X*, T50.[0-8]X2*, T50.9[0-9]2*, T50.A[1,2,9]2*, T50.B[1,9]2*, T50.Z[1,9]2*
Intentional self-harm by toxic effect	T51.[0-8]X2*, T51.92X*, T52.[0-8]X2*, T52.92X*, T53.[0-7]X2*, T53.92X*, T54.[0-3]X2*, T54.92X*, T55.[0-1]X2*, T56.[0-7]X2*, T56.8[1,9]2*, T56.92X*, T57.[0-8]X2*, T57.92X*, T58.[0,2]2X*, T58.2X2*, T58.8X2*, T58.92X*, T59.[0-7]X2*, T59.8[1,9]2*, T59.92X*, T60.[0-8]X2*, T60.92X*, T61.[0,1]2X*, T61.7[7,8]2*, T61.8X2*, T61.92X*, T62.[0-2,8]X2*, T62.92X*, T63.0[0-4,6-9]2*, T63.1[1,2,9]2*, T63.2X2*, T63.3[0-3,9]2*, T63.4[1-6,8]2*, T63.5[1,9]2*, T63.6[1-3,9]2*, T63.7[1,9]2*, T63.8[1-3,9]2*, T63.92X*, T64.[0,8]2X*, T65.0X2*, T65.1X2*, T65.2[1,2,9]2*, T65.[3-6]X2*, T65.8[1-3,9]2*, T65.92X*
Asphyxiation	T71.1[1-3,5,6,9]2*, T71.2[2,3]2*
Intentional self-harm by drowning	X71.[0-3,8,9]XX*,
Intentional self-harm by gun	X72.XXX*, X73.[0-2,8,9]XX*, X74.0[1,2,9]X*, X74.8XX*, X74.9XX*
Other intentional self-harm	X7[5-6].XXX*, X77.[0-3,8-9]XX*, X78.[0-2,8-9]XX*, X79.XXX*, X80.XXX*, X81.[0-1,8]XX*, X82.[0-2,8]XX*, X83.[0-2,8]XX*

**SUPPLEMENTARY TABLE 6. ICD-10-CM CODES FOR PSYCHIATRIC
COMORBIDITIES**

Condition	ICD-10
Anxiety disorders	F41.x
Adjustment disorders	F43.2x
Obsessive compulsive disorder	F42.x
Post-traumatic stress disorder	F43.1x
Sleep-wake disorders	G47.x
Alcohol, substance, addiction disorders	F10.x – F19.x