Table 4: Medications consideration for management of HMDs

Medication	Labeled Indications	Off-Label Use	Mechanism of	Major	Black box
Levodopa	Parkinson's disease	1. Dopamine	Action Exogenous	Neurologic Side effects - May	warning
Levodopa	T diskinson s disease	responsive dystonia 2. Parkinsonism	dopamine	exacerbate dyskinesia	
Tetrabenazine	1. Chorea associated with Huntington's Disease	1. Dystonia 2. Tourette syndrome	Reversible inhibitor of VMAT-2,	- Extrapyramidal reaction	Can increase the risk of depression and
	2. Tourette Syndrome	3. Tardive Dyskinesia	decreases uptake of monoamines	- Akathisia	suicidality in patients with
Deutetrabenazine	1. Chorea associated with Huntington Disease		(dopamine, serotonin, norepinephrine,	- Akathisia	Huntington Disease
Valbenazine Baclofen	2. Tardive dyskinesia Tardive Dyskinesia	Musslanus	histamine) Inhibits the	- Asthenia	Alamant
Dactoren	Spasticity Muscle spasm/Musculoskeletal	Myoclonus (intrathecal use)	transmission of both	- Asthema - Confusion - Drowsiness	Abrupt discontinuation of intrathecal
	pain 3. Hiccups		monosynaptic and polysynaptic reflexes at the		baclofen can result in withdrawal
			spinal cord level, possibly by hyperpolarization		
			of primary afferent fiber		
Carbamazepine	Bipolar disorder Seizure disorders		Limits influx of sodium ions	- Ataxia - Dizziness	1. Dermatologic
	3. Neuropathic pain		across the cell membrane leading to	- Drowsiness	reactions including toxic epidermal
			decreased synaptic transmission		necrolysis (TEN) and Stevens-
			transmission		Johnson syndrome
					2. Aplastic anemia and agranulocytosis
Methocarbamol	Muscle spasm		unknown	DizzinessDrowsinessConfusion	
Cyclobenzaprine	Fibromyalgia Muscle spasm and/or musculoskeletal		Centrally acting skeletal muscle relax and,	- Dizziness - Drowsiness - Confusion	
	pain 3. Temporomandibular		reduces tonic somatic motor	Comusion	
	disorder, acute		activity influencing both alpha and gamma		
Sodium Oxybate	Narcolepsy	Experimental use for	motor neurons Gamma- hydroxybutyrate	- Confusion - Dizziness	1. Obtundation and clinically
		myoclonus (specifically posthypoxic	(GHB) is a metabolite of GABA, and is	- Headache	significant respiratory depression
		myoclonus or Lance-Adams Syndrome)	hypothesized to be mediated by GABAb receptor		2. Abuse and misuse3. Restricted
			activity		access: because of the abuse risks, sodium
					oxybate is only available through a
					restricted program under
					a Risk Evaluation and Mitigation
Pramipexole	Parkinson disease	1. Tremors	nonergot	- Impulse	Strategy (REMS)
	2. Restless legs syndrome	2. Myoclonus	dopamine agonist with specificity for the	control disorders - Psychotic-	
Primidone	Essential tremors	1. Tremors	D2 receptor Decreases	like effects - Emotional	Serious or life-
	2. Seizure disorders	2. Myoclonus	neuronal excitability	disturbance - CNS depression	threatening psychiatric and behavioral
				(phenobarbital is one of primidone's	adverse reactions including
Domosta a 1	Caigning discret	Meso aller	Event	active metabolites)	suicidal ideation
Perampanel	Seizure disorders	Myoclonus	Exact mechanism unknown, it is a	- Dizziness - Vertigo - Aggression	Serious or life- threatening psychiatric and
			noncompetitive antagonist of the AMPA		behavioral adverse reactions
			glutamate receptor on postsynaptic		including suicidal ideation
Pimozide	Tourette syndrome Delusional infestation		Dopamine- receptor	- Sedation - Akathisia	
Fluphenazine	Tourette syndrome Psychotic disorders	Other tic disorders	antagonist Nonselectively blocks D2	- Neuroleptic malignant	Elderly patients with
			receptors	syndrome - Extrapyramidal	dementia- related psychosis
				symptoms	treated with antipsychotic drugs are at an
					increased risk of death