

# CA-ADAP Formulary Review: Long-Acting Injectable Antipsychotics

OCTOBER 2022

CARRIE HOLDEN, PHARMD

**MagellanRx**  
MANAGEMENT<sup>SM</sup>

# CA-ADAP Formulary Review: AGENDA

1 Disease State Overview

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2 Medications

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3 Denied claims data

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4 Other ADAP formularies

5 Recommendations

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6 Discussion

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# Therapeutic Class Review

LONG-ACTING INJECTABLE ANTIPSYCHOTIC AGENTS

# Features of Schizophrenia



- **Schizophrenia**: A chronic brain disorder where people interpret reality abnormally. It affects how a person thinks, feels, and behaves.
  - Positive symptoms:
    - Hallucinations
    - Delusions
    - Paranoia
    - Exaggerated or distorted perceptions, beliefs, and behaviors
  - Negative symptoms:
    - Flattened affect
    - Reduced ability to experience pleasure
    - Decreased desire to initiate plans
  - Disorganized symptoms:
    - Confused and disordered thinking and speech
    - Trouble with logical thinking
    - Bizarre behavior
    - Abnormal movements
  - Cognition can also be affected, leading to problems with attention, concentration and memory, and to declining educational performance

# Schizophrenia and Co-Morbid Conditions



- Other conditions, including HIV infection, are more frequent in people with serious mental illness
- Mortality is increased in individuals with schizophrenia, and the average life span is shortened by a decade or more (typically related to comorbid conditions)
- Mental health is a strong predictor of adherence to meds
  - Managing mental health can improve quality of life and psychological well-being, therefore increasing adherence to ARV therapy

# Treatment of Schizophrenia



- Schizophrenia requires lifelong treatment, even when symptoms have subsided
  - Goals of Treatment: symptom remission and restoring baseline function at the lowest possible dose
- General guidelines, particularly for patients with symptomatic HIV disease, include the following:
  - Using lower starting doses and slower titration
  - Providing the least complicated dosing schedules possible
  - Focusing on drug side effect profiles to avoid unnecessary adverse events
  - Maintaining awareness of drug metabolism/clearance pathways to minimize drug-drug interactions and possible end organ damage.
- Clinical guidelines suggest treatment with a single agent but do not recommend any agent over another
  - Treatment with more than one antipsychotic should be avoided

# Long-Acting Injectables (LAIs)



- **The American Psychiatric Association (APA) guidelines suggests LAI if:**
  - Patient preference
  - Non-Adherence history
- **LAIs may be preferred for:**
  - Difficulty swallowing pills
  - Ambivalence
  - Inconsistent in swallowing
  - Difficulty remembering
- **LAIs may be warranted when:**
  - Not responding to oral agent
  - Transitioning between settings
  - Early in schizophrenia treatment
  - Known substance abuse disorder

# Long-Acting Injectables (LAIs) cont'd



- **Benefits:**

- Decreased risk of mortality
- Reduced risk of hospitalization
- Decreased rates of discontinuation
- ADRs may be less problematic
- Sense of better control
- Better adherence
- Greater convenience

- **Harms:**

- ADRs may last longer Injection-related ADRs
- Longer time to steady-state



# Long-Acting Injectable – 1<sup>st</sup> Generation



- Mechanism of Action: Dopamine receptor antagonists
- Place in Therapy: **Not** recommended as initial therapy for most patients
- Side effects: High incidence of EPS, sedation, cardiac abnormalities, hyperprolactinemia, neuroleptic malignant syndrome (NMS)

AGENT	GENERIC	CT	TX	WA	STRENGTHS
Fluphenazine (PROLIXIN)	Y	-	-	-	•2.5mg, 5mg, 25mg
Haloperidol (HALDOL)	Y	-	-	-	•50mg, 100mg

# Long-Acting Injectable – 2<sup>nd</sup> Generation



- Mechanism of Action: Serotonin-dopamine antagonists
- Place in Therapy: Recommended as **initial therapy** for most patients
- Side effects: weight gain and related metabolic effects, hypotension, sedation, anticholinergic symptoms, hyperprolactinemia, EPS, cardiac effects, and sexual dysfunction

AGENT	GENERIC	CT	TX	WA	STRENGTHS
Aripiprazole (ABILIFY MAINTENA)	-	-	-	-	•300mg, 400mg
Aripiprazole lauroxil (ARISTADA)	-	-	-	-	•441mg, 662mg, 882mg, 1064mg, 675mg (Initio)
Olanzapine pamoate (ZYPREXA RELPREVV)	-	-	-	-	•210mg, 300mg, 405mg
Paliperidone (INVEGA SUSTENNA, INVEGA TRINZA, INVEGA HAFYERA)	-	-	-	-	•39mg, 78mg, 117mg, 156mg, 234mg, 273mg, 410mg, 546mg, 819mg
Risperidone (RISPERDAL CONSTA)	-	-	-	-	•12.5mg, 25mg, 37.5mg, 50mg

# Long-Acting Injectable Rejected Claims



<b>AGENT</b>	<b>REJECTIONS</b>
<b>Olanzapine pamoate (ZYPREXA RELPREVV)</b>	-
<b>Risperidone (RISPERDAL CONSTA)</b>	1.5%
<b>Fluphenazine (PROLIXIN)</b>	3%
<b>Haloperidol (HALDOL)</b>	8.5%
<b>Aripiprazole (ABILIFY MAINTENA)</b>	18%
<b>Aripiprazole lauroxil (ARISTADA)</b>	20%
<b>Paliperidone (INVEGA SUSTENNA, INVEGA TRINZA)</b>	49%



# Formulary Management Recommendations: Schizophrenia

Paliperidone (INVEGA)

Recommend addition to the ADAP formulary

Aripiprazole  
(ABILIFY MAINTENA)

Consider addition to the ADAP formulary

Aripiprazole Lauroxil  
(ARISTADA)

Consider addition to the ADAP formulary

# References



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