Guidance on the use of Long-Acting Injectable Antipsychotics in the Emergency Department

- Patients with schizophrenia, schizoaffective disorder and bipolar disorder may be prescribed a long-acting injectable antipsychotic after they have demonstrated efficacy, tolerability and sustained follow up in the outpatient setting on an oral antipsychotic regimen.
- Patients presenting to the **ED close to or within their regularly scheduled time window**: dose can be administered in the ED, if we have their LAI on formulary.
- If the patient has been lost to follow up for an extended period of time, please consult psychiatry on feasibility of restarting their LAL in the FD.

LAI in the ED.	
Current LAIs available in US market (January 2023)	Long acting Injectables available at CMC for use in the ED
Paliperidone palmitate (Invega Sustenna)	Invega Sustenna
Paliperidone palmitate (Invega Trinza)	Abilify Maintena
Paliperidone palmitate (Invega Hafyera)	<u>Aristada</u>
Aripiprazole monohydrate (Abilify Maintena)	<u>Haloperidol Decanoate</u>
Aripiprazole lauroxil (Aristada)	Fluphenazine Decanoate
Haloperidol decanoate	Risperdal Consta
Fluphenazine decanoate	<u>Perseris</u>
Risperidone microspheres (Risperdal Consta)	
Aripiprazole lauroxil nanocrystal (Aristada Initio)	
Risperidone subcutaneous (Perseris)	
Risperidone subcutaneous (Uzedy)	
Olanzapine pamoate (Zyprexa Relprevv)	
	Missed Dose Guidance

Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time Since Last Injection		Ensure Follow up with Behavioral Health within:	Concomitant oral meds required when restarting therapy?
			Initiation Dose Miss	ed:		
			< 4 weeks since 1st	Give 2 nd initiation dose	5 weeks from 1st	
			inj	of 156 mg in deltoid	inj regardless of	
					2 nd inj date	
			4-7 weeks since 1st	Give 2 nd dose of 156 mg	1 week from	
			inj	in deltoid	dose given in ED	I
			> 7 weeks since 1st	Give 234 mg in deltoid	1 week from	
			inj		dose given in ED	
Invega Sustenna			Maintenance Dose I	Missed:		
(Paliperidone	\$2127.87	Every 4 weeks		Pts maintenance dose	1 month from	No
palmitate)	per dose		4-6 weeks	should be administered	dose given in ED	
				ASAP in deltoid	dose given in Lb	
			6 weeks-6 months	Administer pts	1 week from	
				maintenance dose in	dose given in ED	
			deltoid			
			*if prev dose was 234,			
			give 156 mg			
			> 6 months	Give 234 mg in deltoid	1 week from	
					dose given in ED	

Long-Acting Injectable Agent		Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?
lavosa Triass	\$3626.85 per dose	Every 3 months	3.5-4 months	Previous dose should be given ASAP, refer to BH ED if cannot get in to psych office	3 months	
Invega Trinza (Paliperidone palmitate)			4-9 months	Bridge back to Invega Trinza with Invega Sustenna per Figure 1	1 week from dose given in ED	No
			> 9 months	Reinitiate treatment with Invega Sustenna 246 mg x 1 in deltoid	156 mg Sustenna in deltoid in 1 week	
				Missed Dose G	Guidance	
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?
			> 6.75 mos – 8 mos	Reinitiate with Invega Sustenna per Figure 2	1 month	
Invega Hafyera (Paliperidone	\$3647.77 per dose	Every 6 months	8 mos – 11 months	Reinitiate with Invega Sustenna per Figure 3	1 week	No
palmitate)		·	>11 months	Reinitiate with Invega Sustenna 246 mg x 1 in deltoid	156 mg Sustenna in deltoid in 1 week	
	Cost			Missed Dose G	Guidance	

Long-Acting Injectable Agent		Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?
			If 2 nd or 3 rd dose is r	nissed:		
			>4 weeks – 5 weeks	Administer dose ASAP	4 weeks	No
Abilify Maintena \$1914.95		> 5 weeks	Restart previous oral dose of aripiprazole x 14 days with next administered injection	4 weeks	Yes	
(Aripiprazole	per dose	Every 4 weeks	If 4th or subsequent	•		
monohydrate)		> 4 weeks – 6 weeks	Administer dose ASAP	4 weeks	No	
			> 6 weeks	Restart previous oral dose of aripiprazole x 14 days with next administered injection	4 weeks	Yes
				Missed Dose G	uidance	
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?
Aristada (Aripiprazole lauroxil)	\$909.99 per dose	Dependent on dosage 1064 mg: 8 weeks 882 mg: 4-6 weeks 441-662 mg: every 4 weeks	Dependent on dosage	Reinitiate therapy based on Figure 4	Dependent on dosage	Dependent on dosage
	Cost			Missed Dose G		

Long-Acting Injectable Agent		Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?	
Aristada Initio (Aripiprazole lauroxil nanocrystal)	\$2100.63 per dose	Used to initiate Aristada LAI therapy	Dependent on dosage	Use to reinitiate therapy based on Figure 4	Dependent on dosage	No	
				Missed Dose G	uidance		
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?	
Haloperidol decanoate	\$87.07 per dose	Every 2 weeks	If 2 nd or 3 rd dose missed: If 4th or subsequent dose:	Administer if not later than 5 weeks from initial injection Administer if not later than 8 weeks from initial	- 2-4 weeks	No	
				injection			
				Missed Dose G	uidance		
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?	
			Received > 2 injection	ons as scheduled			
			>4 but < 8 weeks	Give next injection	4 weeks	No	
Fluphenazine	\$24.00	4 weeks	Received < 2 injections as scheduled				
decanoate	per dose		There is no specific guidance in package insert or the APA. Recommend consipsych before attempting to reinitiate therapy.				
		2-3 weeks	Psych should be consulted for any missed doses				

				Missed Dose G		
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time sin	ce last Injection	Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?
			Received > 4 injection	on (steady state achieved)		
			3-6 weeks	Give next injection ASAP	2 weeks	No
Risperdal Consta (Risperidone	\$559.02 per dose	Every 2 weeks	> 6 weeks	Give next injection ASAP w/ 21 days of oral antipsychotic	2 weeks	Yes
microspheres)	microspheres)		Received < 4 injection	on (steady state not achieved	d)	
				Give next injection ASAP w/ 21 days or oral antipsychotic	2 weeks	Yes
				Missed Dose G	uidance	
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?
Perseris (Risperidone subcutaneous)	\$1,795.50 per dose	4 weeks	Any duration	Administer ASAP. Dose is potentially effective until 6 weeks post injection.	4 weeks	No

				Missed Dose G	uidance	ance	
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?	
Uzedy (Risperidone Subcutaneous)	\$2464 per 100 mg	4 weeks or 8 weeks	Any duration	Administer ASAP.	4-8 weeks depending on dosage	No	
				Missed Dose G	idance		
Long-Acting Injectable Agent	Cost	Regular Dosing Interval	Time since last Injection		Ensure follow up with behavioral health within	Concomitant oral meds required when restarting therapy?	
Z Dalaman	6042.40		If < 3 months of therapy	Administer loading dose for 8 weeks	2.4		
Zyprexa Relprevv (Olanzapine pamoate)	\$842.40 per 300 mg	2 weeks or 4 weeks	> 3 months into therapy and < 2 months since missed dose	Administer ASAP	2-4 weeks depending on dosage	No	

References:

INVEGA SUSTENNA® (paliperidone palmitate) Missed Dose | HCP (invegasustennahcp.com)

INVEGA TRINZA® (paliperidone palmitate) Missed Doses | HCP (invegatrinzahcp.com)

Missed Dose Information | INVEGA HAFYERA™ (paliperidone palmitate) HCP (invegahafyerahcp.com)

Initiation and Dosing | ABILIFY MAINTENA® (aripiprazole) (abilifymaintenahcp.com)

Haldol (Haloperidol Decanoate) [package insert on the internet]. Titusville, NJ: Ortho-McNeil-Janssen Pharmaceuticals, Inc; c2005[revised: 2011 June; cited 2023 January 4]. Available from: https://www.accessdata.fda.gov/drugsatfda_docs/label/2011/018701s054lbl.pdf

Prolixin (Fluphenazine Decanoate) [package insert on the internet]. Weston, Fl: Apotex Corp; c2001 [revised: 2010 September; cited 2023 January 4]. Available from: https://www.accessdata.fda.gov/drugsatfda_docs/label/2010/071413s019lbl.pdf

American Psychiatric Association. (2021). The American Psychiatric Association Practice Guideline for the treatment of patients with schizophrenia. 3rd edition

Risperdal Consta (Risperidone) [package insert on the internet]. Titusville, NJ: Ortho-McNeil-Janssen Pharmaceuticals, Inc; c2007[revised: 2010 August; cited 2023 January 4]. Available from: https://www.accessdata.fda.gov/drugsatfda docs/label/2010/021346 s31 s35 s38 s39lbl.pdf

Aristada (aripiprazole lauroxil) [package insert on the internet]. Waltham, MA: Alkermes, Inc; c2015[revised:2015 October; cited 2023 January 4]. Available from: https://www.accessdata.fda.gov/drugsatfda docs/label/2015/207533s000lbl.pdf

PERSERIS® (risperidone) [package insert on the internet]. North Chesterfield, VA: Indivior Inc.; c1993[revised: 2022 December; cited 2023 July 24]. Available from: https://www.perserishcp.com/prescribing-information.pdf

UZEDY (risperidone) [package insert on the internet]. Parsippany, NJ: Teva Neurosciences, Inc.; c1993[revised: 2023 May; cited 2023 July 24]. Available from: https://www.uzedyhcp.com/globalassets/uzedy/prescribing-information.pdf

ZYPREXA RELPREVV (olanzapine) [package insert on the internet]. Indianapolis, IN: Eli Lilly and Company.; c1996[revised: 2021 February; cited 2023 July 24]. Available from: https://pi.lilly.com/us/zyprexa relprevv.pdf

ARITDA INITIO (aripiprazole lauroxil) [package insert on the internet]. Waltham, MA: Alkermes, Inc.; c2015[revised: 2021 March; cited 2023 July 24]. Available from: https://www.aristadahcp.com/downloads/ARISTADA-INITIO-PI.pdf

Reinitiation Regimen After Missing 4 Months to 9 Months of INVEGA TRINZA®

If the last dose of INVEGA TRINZA® was:	INVEGA SUSTENNA®		Then administer INVEGA TRINZA® (into deltoid or gluteal muscle)
	Day 1	Day 8	1 month after day 8
273 mg	78 mg	78 mg	273 mg
410 mg	117 mg	117 mg	410 mg
546 mg	156 mg	156 mg	546 mg
819 mg	156 mg	156 mg	819 mg

Arrows illustrate reinitiation regimen of INVEGA SUSTENNA® after missing 4 months to 9 months of INVEGA TRINZA®.

Figure 2.

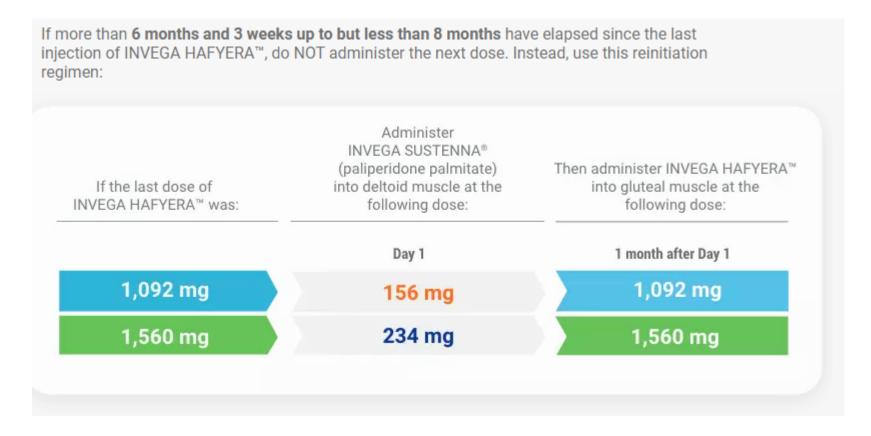


Figure 3.



Figure 4

REINITIATING ARISTADA TREATMENT AFTER MISSING A DOSE^{1,2}

	Length of time since last injection				
Dose of last ARISTADA injection	No supplementation required	We do not stock Aristada Initio at CMC. If your patie falls into these two categories below, you must supplement the Aristada injection with a 7 or 21 da course of patient's previous oral dose of aripiprazo			
		7 days of oral aripiprazole ^a	supplement with 21 days of oral aripiprazole ^a		
1064 mg every 2 months	≤10 weeks	>10 and ≤12 weeks	>12 weeks		
882 mg monthly & every 6 weeks	≤8 weeks	>8 and ≤12 weeks	>12 weeks		
662 mg monthly	≤8 weeks	>8 and ≤12 weeks	>12 weeks		
441 mg monthly	≤6 weeks	>6 and ≤7 weeks	>7 weeks		

[•] When any dose is missed, the next injection of ARISTADA needs to be administered as soon as possible¹

^aThe patient should supplement with the same dose of oral aripiprazole as when the patient began ARISTADA.¹