09-J2000-60

Original Effective Date: 06/15/16

Reviewed: 03/13/24

Revised: 04/15/24

# Subject: Aprepitant injectable therapy (Cinvanti®)

THIS MEDICAL COVERAGE GUIDELINE IS NOT AN AUTHORIZATION, CERTIFICATION, EXPLANATION OF BENEFITS, OR A GUARANTEE OF PAYMENT, NOR DOES IT SUBSTITUTE FOR OR CONSTITUTE MEDICAL ADVICE. ALL MEDICAL DECISIONS ARE SOLELY THE RESPONSIBILITY OF THE PATIENT AND PHYSICIAN. BENEFITS ARE DETERMINED BY THE GROUP CONTRACT, MEMBER BENEFIT BOOKLET, AND/OR INDIVIDUAL SUBSCRIBER CERTIFICATE IN EFFECT AT THE TIME SERVICES WERE RENDERED. THIS MEDICAL COVERAGE GUIDELINE APPLIES TO ALL LINES OF BUSINESS UNLESS OTHERWISE NOTED IN THE PROGRAM EXCEPTIONS SECTION.

Dosage/ Administration	Position Statement	Billing/Coding	Reimbursement	Program Exceptions	<u>Definitions</u>
Related Guidelines	<u>Other</u>	References	<u>Updates</u>		

#### **DESCRIPTION:**

Chemotherapy-induced nausea and vomiting (CINV) can significantly affect a patient's quality of life, leading to poor compliance with further chemotherapy. The severity and incidence of CINV are affected by factors such as the selected agent and dose of chemotherapy, schedule and route of administration, and patient specific factors (e.g., age, sex, prior chemotherapy, history of alcohol use).

Neurokinin-1(NK-1) receptor antagonists block the binding of substance P at the NK-1 receptor in the central nervous system to prevent emesis. Fosaprepitant (Emend) injection is a prodrug of aprepitant that was the first injectable NK-1 receptor antagonist approved by the U.S. Food and Drug Administration (FDA) in 2008. Fosaprepitant is indicated for the prevention of acute and delayed nausea and vomiting associated with initial and repeat courses of highly emetogenic chemotherapy. An injectable emulsion of aprepitant (Cinvanti) was FDA-approved in 2017 for the prevention of acute and delayed nausea and vomiting associated with initial and repeat courses of highly or moderate emetogenic chemotherapy. Aprepitant injectable emulsion demonstrated bioequivalence to fosaprepitant in healthy subjects in a cross-over study. National Comprehensive Cancer Network (NCCN) Guidelines for Antiemesis recommend NK1 receptor antagonist containing regimens (e.g., aprepitant, fosaprepitant, rolapitant PO, or netupitant) for acute and delayed emesis prevention in combination with dexamethasone and a serotonin antagonist with or without lorazepam, histamine-2 blockers, or proton pump inhibitors before intravenous antineoplastic therapy with high or moderate emetic risk. The use of NK1 receptor antagonist therapy is also recommended in combination with olanzapine, dexamethasone, and a serotonin antagonist for high risk antineoplastic therapy or if emesis occurred during a previous cycle of antineoplastic therapy with a 3-drug regimen. NCCN specifically states that use of NK1 receptor antagonists are for the prevention of CINV, not treatment of CINV.

### **POSITION STATEMENT:**

- I. Aprepitant injection (Cinvanti®) meets the definition of medical necessity when ALL of the following are met:
  - 1. Use is for prevention of acute or delayed chemotherapy-induced nausea and vomiting associated with initial or repeat courses of chemotherapy
  - 2. **ONE** of the following:
    - a. Chemotherapy has a moderate or high emetogenic potential (Table 1)
    - b. Chemotherapy has a low emetogenic potential (Table 1) and the member has an inadequate response or contraindication to use of a serotonin antagonist (i.e., ondansetron, granisetron, or palonosetron) to prevent chemotherapy-induced nausea and vomiting<sup>‡</sup>
  - 3. Use is in combination with a corticosteroid (i.e., dexamethasone) and a serotonin antagonist (i.e., ondansetron, granisetron, or palonosetron)\* **OR** the member has a contraindication to corticosteroids or serotonin antagonist therapy
  - 4. The member is not receiving an additional NK1 receptor antagonist<sup>†</sup> (e.g., fosaprepitant, rolapitant, oral aprepitant, fosnetupitant/palonosetron, or netupitant/palonosetron)
  - 5. The member had an inadequate response or intolerance to fosaprepitant<sup>‡</sup>
  - 6. The dose does not exceed 130 mg and is given prior to chemotherapy

Duration of approval: 1 year

\*Note: Given with or without olanzapine, lorazepam, histamine-2 receptor blocker or proton pump inhibitor

**†Note**: Exception when aprepitant 100 mg IV is prescribed on day 1, followed by oral aprepitant on Day 2 and 3.

‡Step therapy requirement does not apply if the member was previously approved by Florida Blue or a prior health plan

### **DOSAGE/ADMINISTRATION:**

THIS INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED AS A SOURCE FOR MAKING PRESCRIBING OR OTHER MEDICAL DETERMINATIONS. PROVIDERS SHOULD REFER TO THE MANUFACTURER'S FULL PRESCRIBING INFORMATION FOR DOSAGE GUIDELINES AND OTHER INFORMATION RELATED TO THIS MEDICATION BEFORE MAKING ANY CLINICAL DECISIONS REGARDING ITS USAGE.

# **FDA-approved**

### **Cinvanti**

Aprepitant injectable emulsion is indicated in adults, in combination with other antiemetic agents, for the prevention of acute and delayed nausea and vomiting associated with initial and repeat courses of highly emetogenic cancer chemotherapy including high-dose cisplatin. It is also indicated in adults for the prevention of delayed nausea and vomiting associated with initial and repeat courses of moderately emetogenic cancer chemotherapy. It has not been studied for the treatment of established nausea and vomiting.

The recommended dosing of aprepitant injectable emulsion is the following:

- Highly emetogenic chemotherapy and moderately emetogenic chemotherapy (single dose regimen): 130 mg intravenously either by injection over 2 minutes or as an infusion (mixed with 100 ml of 0.9% sodium chloride) over 30 minutes on Day 1, completing the injection or infusion approximately 30 minutes prior to chemotherapy in combination with dexamethasone and a 5HT3 antagonist.
- Moderately emetogenic chemotherapy 3 day regimen: 100 mg intravenously either by injection over 2 minutes or as an infusion (mixed with 100 ml of 0.9% sodium chloride) over 30 minutes on Day 1, completing the injection or infusion approximately 30 minutes prior to chemotherapy in combination with dexamethasone and a 5HT3 antagonist. Aprepitant capsules (80 mg) are given on day 2 and 3.

### **Dose Adjustments**

There were no studies conducted in patients with severe hepatic impairment (Child-Pugh score
greater than 9) thus additional monitoring for adverse reactions is recommended. No dose
adjustment is necessary in patients with mild to moderate hepatic impairment.

### **Drug Availability**

• 130 mg single dose vial. See product label for dilution instructions.

## **PRECAUTIONS:**

#### Cinvanti

#### **Contraindications**

- Should not be administered to patients with known hypersensitivity to any component of the product.
- Should not be administered concurrently with pimozide due to a drug interaction that may result in increased plasma concentrations of pimozide and potentially life-threatening reactions, including QT prolongation.

### **Precautions/Warnings**

Clinically Significant CYP3A4 Drug Interactions— Fosaprepitant, a prodrug of aprepitant, is a
weak inhibitor of CYP3A4, and aprepitant is a substrate, inhibitor, and inducer of CYP3A4. Use
with other drugs that are CYP3A4 substrates, may result in increased plasma concentration of
the concomitant drug. Use with strong or moderate CYP3A4 inhibitors (e.g., ketoconazole,
diltiazem) or strong CYP3A4 inducers (e.g., rifampin) may alter the plasma concentrations of
aprepitant.

- **Hypersensitivity Reactions** reactions including flushing, erythema, dyspnea, and anaphylaxis have been reported. Discontinue and do not reinitiate the infusion in patients who experience these symptoms.
- **Decrease in INR with Concomitant Warfarin** –Monitor the INR in patients on chronic warfarin therapy in the 2-week period, particularly at 7 to 10 days, following initiation of fosaprepitant injection with each chemotherapy cycle
- **Risk of Reduced Efficacy of Hormonal Contraceptives** –the efficacy of hormonal contraceptives may be altered.

### **BILLING/CODING INFORMATION:**

# **HCPCS Coding**

J0185	Injection, aprepitant, 1 mg

# **ICD-10 Diagnosis Codes That Support Medical Necessity**

R11.0	Nausea	
R11.10 - R11.12	Vomiting, unspecified	
R11.2	Nausea with vomiting, unspecified	
T45.1X5A	Adverse effect of antineoplastic and immunosuppressive drugs, initial encounter	
T45.1X5D	Adverse effect of antineoplastic and immunosuppressive drugs, subsequent	
	encounter	
T45.1X5S	Adverse effect of antineoplastic and immunosuppressive drugs, sequela	
T45.95XA	Adverse effect of unspecified primarily systemic and hematological agent, initial	
	encounter	
T50.905A	Adverse effect of unspecified drugs, medicaments and biological substances	
Z51.11	Encounter for antineoplastic chemotherapy	
Z51.12	Encounter for antineoplastic immunotherapy	

### **REIMBURSEMENT INFORMATION:**

Refer to section entitled **POSITION STATEMENT**.

#### PROGRAM EXCEPTIONS:

Federal Employee Program (FEP): Follow FEP guidelines.

**State Account Organization (SAO):** Follow SAO guidelines.

**Medicare Part D:** Florida Blue has delegated to Prime Therapeutics authority to make coverage determinations for the Medicare Part D services referenced in this guideline.

**Medicare Advantage:** No National Coverage Determination (NCD) and/or Local Coverage Determination (LCD) were found at the time of the guideline creation.

### **DEFINITIONS:**

**Acute chemotherapy-induced nausea and vomiting** – nausea and/or vomiting that occurs within a few minutes to several hours after drug administration and commonly resolves within the first 24 hours.

**Delayed chemotherapy-induced nausea and vomiting** – nausea and/or vomiting that occurs 24 hours after drug administration.

# **RELATED GUIDELINES:**

Fosnetupitant-palonosetron (Akynzeo), 09-J3000-01

Granisetron (Sustol), 09-J0000-97

### **OTHER:**

### Table 1

	netogenic Potential of Antineoplastic Agents		
High emetic risk	Moderate emetic risk		
(>90% frequency of emesis)	(30-90% frequency of emesis)		
V AC combination (doxorubicin or epirubici	,		
with cyclophosphamide)	Amifostine (>300 mg/m2)		
Carboplatin AUC ≥ 4	Bendamustine		
Carmustine (>250 mg/m2)	Busulfan		
Cisplatin	Carboplatin AUC < 4		
Cyclophosphamide (> 1500 mg/m2)	Carmustine (≤250 mg/m2)		
Dacarbazine	Clofarabine		
Doxorubicin (≥60 mg/m2)	Cyclophosphamide (≤1500 mg/m2)		
Epirubicin (>90 mg/ m2)	Cytarabine (>200 mg/m2)		
Fam-trastuzumab deruxtecan-nxki	Dactinomycin		
Ifosfamide (≥2 g/ m2)	Daunorubicin		
Mechlorethamine	Dinutuximab		
Melphalan (≥ 140 mg/m2)	Doxorubicin (<60 mg/m2)		
Sacituzumab govitecan-hziy	Dual-drug liposomal encapsulation of		
Streptozocin	cytarabine and daunorubicin		
	Epirubicin (≤90 mg/m2)		
	Idarubicin		
	Ifosfamide (< 2g/m2)		
	Irinotecan		
	Irinotecan (liposomal)		
	Lurbinectedin		
	Melphalan (< 140 mg/m2)		
	Methotrexate (≥250 mg/m2)		
	Mirvetuximab soravtansine-gynx		
	Naxitamab-gqgk		
	Oxaliplatin		

		Romidepsin		
		Temozolomide		
		Trabectedin		
IV	Low emetic risk (10 – 30% frequency of emesis			
	Ado-trastuzumab emtansine			
	Aldesleukin ≤12 million international units/m2			
	Amifostine ≤300 mg/m2			
	Amivantamab-vmjw			
	Arsenic trioxide			
	Axicabtagene ciloleucel			
	Azacitidine			
	Belinostat			
	Brexucabtagene autoleucel			
	Brentuximab vedotin			
	Cabazitaxel			
	Carfilzomib			
	Ciltacabtagene autoleucel			
	Copanlisib			
	Cytarabine (low dose) 100 – 200 mg/m2			
	Docetaxel			
	Doxorubicin (liposomal)			
	Enfortumab vedotin-ejfv			
	Eribulin			
	Etoposide			
	5-FU			
	Floxuridine			
	Gemcitabine			
	Gemtuzumab ozogamicin			
	Idecabtagene vicleucel			
	Inotuzumab ozogamicin			
	Isatuximab-irfc			
	Ixabepilone			
	Lisocabtagene maraleucel			
	Loncastuximab tesirine-lpyl			
	Methotrexate > 50 mg/m2 - <250 mg/m2			
	Mitomycin			
	Mitomycin pyelocalyceal solution			
	Mitoxantrone			
	Mogamulizumab-kpkc			
	Mosunetuzumab-axgb			
	Necitumumab			
	Omacetaxine			
	Paclitaxel			
	Paclitaxel-albumin			

Pemetrexed

Pentostatin

Polatuzumab vedotin-piig

Pralatrexate

Tafasitamab-cxix

Tagraxofusp-erzs

Talimogene laherparepvec

Tebentafusp-tebn

Thiotepa

Tisagenlecleucel

Tisotumab vedotin-tftv

**Topotecan** 

Ziv-aflibercept

### **REFERENCES:**

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### **COMMITTEE APPROVAL:**

This Medical Coverage Guideline (MCG) was approved by the Florida Blue Pharmacy Policy Committee on 03/13/24

### **GUIDELINE UPDATE INFORMATION:**

06/15/16 New Medical Coverage Guideline.

06/15/17	Review and revision to guideline consisting of updating position statement and
	references.
03/15/18	Review and revision to guideline consisting of updating position statement, description,
	dosing, coding and references.
04/01/18	Addition of HCPCS codes C9463 and C9464
05/15/18	Review and revision to guideline consisting of updating position statement and
	references.
01/01/19	Revision: HCPCS code updates. Added J0185 and J2797, and removed C9463, C9464,
	and J3490.
05/15/19	Review and revision to guideline consisting of updating Table 1 and references.
01/01/20	Revision to guideline; consisting of updating the position statement.
05/15/20	Review and revision to guideline; consisting of updating Table 1, dosing and references.
12/15/20	Review and revision to guideline; consisting of updating the position statement,
	description, dosing and references.
05/15/21	Review and revision to guideline; consisting of updating Table 1 and references.
07/01/21	Revision to guideline; consisting of removing Emend from the policy.
05/15/22	Review and revision to guideline; consisting of updating Table 1, description, and
	references.
04/15/23	Review and revision to guideline; consisting of updating Table 1 (Emetic potential of
	neoplastic agents) and references.
04/15/24	Review and revision to guideline; consisting of updating Table 1 (Emetic potential of
	neoplastic agents) and references.