POTASSIUM CHLORIDE EXTENDED-RELEASE- potassium chloride tablet, extended release American Health Packaging

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use POTASSIUM CHLORIDE EXTENDED-RELEASE TABLETS safely and effectively. See full prescribing information for POTASSIUM CHLORIDE EXTENDED-RELEASE TABLETS. POTASSIUM CHLORIDE extended-release tablets, for oral use Initial U.S. Approval: 1948 INDICATIONS AND USAGE
Potassium chloride extended-release tablets is a potassium salt indicated for the treatment and prophylaxis of hypokalemia with or without metabolic alkalosis in patients for whom dietary management with potassium-rich foods or diuretic dose reduction is insufficient. (1)
 Monitor serum potassium and adjust dosages accordingly. (2.1) If serum potassium concentration is less than 2.5 mEq/L, use intravenous potassium instead of oral supplementation (2.1) Take with meals and with a glass of water or other liquid. Swallow tablets whole. (2.1) Treatment of hypokalemia: Typical dose range is 40-100 mEq per day in divided doses. Limit doses to 20 mEq per dose. (2.2) Prevention of hypokalemia: Typical dose is 20 mEq per day (2.2)
 DOSAGE FORMS AND STRENGTHS 10 mEq (750 mg) oral tablets (3) 20 mEq (1500 mg) oral tablets (3)
Concomitant use with triamterene and amiloride (4, 7.1)
WARNINGS AND PRECAUTIONS Gastrointestinal Adverse Reactions: Can produce ulcerative and/or stenotic lesions of the gastrointestinal tract, particularly when in prolonged contact with the gastrointestinal mucosa. Take with meals. (5.1)
Most common adverse reactions are nausea, vomiting, flatulence, abdominal pain/discomfort, and diarrhea (6) To report SUSPECTED ADVERSE REACTIONS, contact Vitruvias at 1-844-451-5944 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. DRUG INTERACTIONS
 Renin-angiotensin-aldosterone system inhibitors: Monitor for hyperkalemia (7.2) Nonsteroidal anti-inflammatory drugs: Monitor for hyperkalemia (7.3)
 USE IN SPECIFIC POPULATIONS Cirrhosis: Initiate therapy at the low end of the dosing range (8.6) Renal Impairment: Initiate therapy at the low end of the dosing range (8.7)

Revised: 2/2021

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Potassium chloride extended-release tablets is indicated for the treatment and prophylaxis of hypokalemia with or without metabolic alkalosis, in patients for whom dietary management with potassium-rich foods or diuretic dose reduction is insufficient.

2 DOSAGE AND ADMINISTRATION

2.1 Monitoring and Administration

If serum potassium concentration is less than 2.5 mEg/L, use intravenous potassium

instead of oral supplementation.

Monitoring

Monitor serum potassium and adjust the dose based on serum potassium level. Monitor serum potassium periodically during maintenance therapy to ensure potassium remains in desired range.

The treatment of potassium depletion, particularly in the presence of cardiac disease, renal disease, or acidosis, requires careful attention to acid-base balance, volume status, electrolytes, including magnesium, sodium, chloride, phosphate, and calcium, electrocardiograms, and the clinical status of the patient. Correct volume status, acid-base balance, and electrolyte deficits as appropriate.

Administration

Take potassium chloride extended-release tablets with meals and with a glass of water or other liquid. Do not take on an empty stomach because of its potential for gastric irritation [see Warnings and Precautions (5.1)].

Swallow tablets whole without crushing, chewing or sucking.

2.2 Dosing

Dosage must be adjusted to the individual needs of each patient. Dosages greater than 20 mEq per day should be divided such that no more than 20 mEq is given in a single dose.

<u>Treatment of hypokalemia:</u> Typical dose range is 40-100 mEq per day.

<u>Prevention of hypokalemia:</u> Typical dose is 20 mEq per day.

3 DOSAGE FORMS AND STRENGTHS

- Potassium Chloride Extended-release Tablets, USP, 10 mEq (750 mg) are yellow film coated capsule shaped tablets; plain on one side and debossed with "P10" on the other side.
- Potassium Chloride Extended-release Tablets, USP, 20 mEq (1500 mg) are white to off-white film coated capsule shaped tablets; plain on one side and debossed with "P20" on the other side.

4 CONTRAINDICATIONS

Potassium chloride is contraindicated in patients on triamterene or amiloride.

5 WARNINGS AND PRECAUTIONS

5.1 Gastrointestinal Adverse Reactions

Solid oral dosage forms of potassium chloride can produce ulcerative and/or stenotic lesions of the gastrointestinal tract, particularly when the drug remains in contact with the gastrointestinal mucosa for a prolonged period of time. Consider the use of liquid potassium in patients with dysphagia, swallowing disorders, or severe gastrointestinal motility disorders.

If severe vomiting, abdominal pain, distention, or gastrointestinal bleeding occurs, discontinue potassium chloride extended-release tablets and consider possibility of ulceration, obstruction or perforation.

Potassium chloride extended-release tablets should not be taken on an empty stomach because of its potential for gastric irritation [see Dosage and Administration (2.1)].

6 ADVERSE REACTIONS

The following adverse reactions have been identified with use of oral potassium salts. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

The most common adverse reactions to oral potassium salts are nausea, vomiting, flatulence, abdominal pain/discomfort, and diarrhea.

There have been reports of hyperkalemia and of upper and lower gastrointestinal conditions including obstruction, bleeding, ulceration, perforation [see Warnings and Precautions (5.1) and Overdosage (10)].

Skin rash has been reported rarely.

7 DRUG INTERACTIONS

7.1 Triamterene and Amiloride

Use with triamterene or amiloride can produce severe hyperkalemia. Avoid concomitant use [see Contraindications (4)].

7.2 Renin-Angiotensin-Aldosterone System Inhibitors

Drugs that inhibit the renin-angiotensin-aldosterone system (RAAS) including angiotensin converting enzyme (ACE) inhibitors, angiotensin receptor blockers (ARBs), spironolactone, eplerenone, or aliskiren produce potassium retention by inhibiting aldosterone production. Closely monitor potassium in patients receiving concomitant RAAS therapy.

7.3 Nonsteroidal Anti-Inflammatory Drugs

Nonsteroidal anti-inflammatory drugs (NSAIDs) may produce potassium retention by reducing renal synthesis of prostaglandin E and impairing the renin-angiotensin system. Closely monitor potassium in patients receiving concomitant NSAID therapy.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no human data related to use of potassium chloride extended-release tablets during pregnancy, and animal reproduction studies have not been conducted. Potassium supplementation that does not lead to hyperkalemia is not expected to cause

fetal harm.

The background risk for major birth defects and miscarriage in the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

8.2 Lactation

Risk Summary

The normal potassium ion content of human milk is about 13 mEq per liter. Since potassium from oral supplements such as potassium chloride extended-release tablets becomes part of the body potassium pool, as long as body potassium is not excessive, the contribution of potassium chloride supplementation should have little or no effect on the level in human milk.

8.4 Pediatric Use

Safety and effectiveness of potassium chloride extended-release tablets in children have not been established.

8.5 Geriatric Use

Clinical studies of potassium chloride extended-release tablets did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

8.6 Cirrhotics

Doses of potassium in patients with cirrhosis produce a larger increase in potassium levels compared to the response in normal patients. Based on published literature, the baseline corrected serum concentrations of potassium measured over 3 hours after administration in cirrhotic subjects who received an oral potassium load rose to approximately twice that of normal subjects who received the same load. Patients with cirrhosis should usually be started at the low end of the dosing range, and the serum potassium level should be monitored frequently.

8.7 Renal Impairment

Patients with renal impairment have reduced urinary excretion of potassium and are at substantially increased risk of hyperkalemia. Patients with impaired renal function, particularly if the patient is on RAAS inhibitors or NSAIDs, should usually be started at the low end of the dosing range because of the potential for development of

hyperkalemia [see Drug Interactions (7.2, 7.3)]. The serum potassium level should be monitored frequently. Renal function should be assessed periodically.

10 OVERDOSAGE

10.1 Symptoms

The administration of oral potassium salts to persons with normal excretory mechanisms for potassium rarely causes serious hyperkalemia. However, if excretory mechanisms are impaired, potentially fatal hyperkalemia can result [see Contraindications (4) and Warnings and Precautions (5.1)].

Hyperkalemia is usually asymptomatic and may be manifested only by an increased serum potassium concentration (6.5-8.0 mEq/L) and characteristic electrocardiographic changes (peaking of T-waves, loss P-waves, depression of S-T segments, and prolongation of the QT intervals). Late manifestations include muscle paralysis and cardiovascular collapse from cardiac arrest (9-12 mEq/L).

10.2 Treatment

Treatment measures for hyperkalemia include the following:

- 1. Monitor closely for arrhythmias and electrolyte changes.
- 2. Eliminate foods and medications containing potassium and of any agents with potassium-sparing properties such as potassium-sparing diuretics, ARBs, ACE inhibitors, NSAIDs, certain nutritional supplements, and many others.
- 3. Administer intravenous calcium gluconate if the patient is at no risk or low risk of developing digitalis toxicity.
- 4. Administer intravenously 300 to 500 mL/hr of 10% dextrose solution containing 10 to 20 units of crystalline insulin per 1,000 mL.
- 5. Correct acidosis, if present, with intravenous sodium bicarbonate.
- 6. Use exchange resins, hemodialysis, or peritoneal dialysis.

In patients who have been stabilized on digitalis, too rapid a lowering of the serum potassium concentration can produce digitalis toxicity.

The extended release feature means that absorption and toxic effects may be delayed for hours. Consider standard measures to remove any unabsorbed drug.

11 DESCRIPTION

Potassium chloride extended-release tablets is a solid oral dosage form of potassium chloride containing 750 mg and 1500 mg of potassium chloride, USP, equivalent to 10 mEq and 20 mEq of potassium, respectively, in a film-coated (not enteric-coated), wax matrix tablet.

The chemical name is potassium chloride, and the structural formula is KCl. Potassium chloride, USP, occurs as a white, granular powder or as colorless crystals. It is odorless and has a saline taste. Its solutions are neutral to litmus. It is freely soluble in water and insoluble in alcohol.

The 10 mEq tablets also contain colloidal silicon dioxide, D&C Yellow No. 10 aluminum

Lake, ethylcellulose, FD&C Yellow No. 6, magnesium stearate, paraffin wax, polyethylene glycol, polyvinyl alcohol, talc, titanium dioxide and triethyl citrate.

The 20 mEq tablets also contain colloidal silicon dioxide, ethylcellulose, magnesium stearate, paraffin wax, polyethylene glycol, polyvinyl alcohol, talc, titanium dioxide and triethyl citrate.

USP Dissolution Test pending.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The potassium ion (K+) is the principal intracellular cation of most body tissues. Potassium ions participate in a number of essential physiological processes including the maintenance of intracellular tonicity; the transmission of nerve impulse; the contraction of cardiac, skeletal and smooth muscle; and the maintenance of normal renal function.

The intracellular concentration of potassium is approximately 150 to 160 mEq per liter. The normal adult plasma concentration is 3.5 to 5 mEq per liter. An active ion transport system maintains this gradient across the plasma membrane.

Potassium is a normal dietary constituent, and under steady state conditions, the amount of potassium absorbed from the gastrointestinal tract is equal to the amount excreted in the urine. The usual dietary intake of potassium is 50 to 100 mEq per day.

12.3 Pharmacokinetics

Specific Populations

Cirrhotics

Based on published literature, the baseline corrected serum concentrations of potassium measured over 3 hours after administration in cirrhotic subjects who received an oral potassium load rose to approximately twice that of normal subjects who received the same load [see Use in Specific Populations (8.6)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity, mutagenicity and fertility studies in animals have not been performed. Potassium is a normal dietary constituent.

16 HOW SUPPLIED/STORAGE AND HANDLING

Potassium chloride extended-release tablets, USP contain 750 mg of potassium chloride (equivalent to 10 mEq of potassium). Potassium chloride extended-release tablets is provided as extended-release film-coated tablets.

The 10 mEq (750 mg) tablets are yellow film coated capsule shaped tablets; plain on one side and debossed with "P10" on the other side. They are supplied in: Unit dose packages of 100 (10 \times 10) NDC 60687-697-01

Recommended Storage
Store at room temperature 20° - 25°C (68° - 77°F) [see USP Controlled Room Temperature].

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

17 PATIENT COUNSELING INFORMATION

- Inform patients to take each dose with meals and with a full glass of water or other liquid, and to not crush, chew, or suck the tablets.
- Advise patients to seek medical attention if tarry stools or other evidence of gastrointestinal bleeding is noticed.
- Inform patients that the wax tablet is not absorbed and may be excreted intact in the stool. If the patient observes this, it is not an indication of lack of effect.

PACKAGING INFORMATION

American Health Packaging unit dose blisters (see How Supplied section) contain drug product from Vitruvias Therapeutics as follows: (10 mEg (750 mg) / 100 UD) NDC 60687-697-01 packaged from NDC 69680-133

Distributed by: **American Health Packaging**Columbus, OH 43217

8469701/0622

Package/Label Display Panel - Carton - 10 mEq (750 mg)

NDC 60687-**697**-01

Potassium Chloride

Extended-Release Tablets, USP

10 mEq (750 mg)

100 Film-Coated Tablets (10 x 10) Rx Only



(01) 0 03 60687 697 01 7

NDC 60687-**697**-01

Potassium Chloride

Extended-Release Tablets, USP

10 mEq (750 mg)

100 Film-Coated Tablets (10 x 10) Rx Only

Each Tablet Contains:

750 mg potassium chloride (equivalent to 10 mEq).

Usual Dosage: See package insert for full prescribing information.

Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

Keep this and all drugs out of reach of children.

FOR YOUR PROTECTION: Do not use if blister is torn or broken.

The drug product contained in this package is from NDC # 69680-133, Vitruvias Therapeutics.

Distributed by: American Health Packaging Columbus, Ohio 43217

769701 0469701/0622

NDC 60687- 697-01

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Distributed by: American Health Packaging Columbus, Ohio 43217 769701

0469701/0622

Package/Label Display Panel - Blister - 10 mEq (750 mg)



Potassium Chloride Extended-Release Tablet, USP

10 mEq (750 mg)

POTASSIUM CHLORIDE EXTENDED-RELEASE

potassium chloride tablet, extended release

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:60687-697(NDC:69680- 133)	
Route of Administration	ORAL			

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
POTASSIUM CHLORIDE (UNII: 660YQ98I10) (POTASSIUM CATION - UNII:295053K152, CHLORIDE ION - UNII:Q32ZN48698)	POTASSIUM CHLORIDE	750 mg	

Inactive Ingredients	
Ingredient Name	Strength
SILICON DIOXIDE (UNII: ETJ7Z 6XBU4)	

D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)

ETHYLCELLULOSE, UNSPECIFIED (UNII: 7Z8S9VYZ4B)

FD&C YELLOW NO. 6 (UNII: H77VEI93A8)

MAGNESIUM STEARATE (UNII: 70097M6I30)

PARAFFIN (UNII: 1900E3H2ZE)

POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)

POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)

TALC (UNII: 7SEV7J4R1U)

TITANIUM DIOXIDE (UNII: 15FIX9V2JP)

TRIETHYL CITRATE (UNII: 8Z96QXD6UM)

Product Characteristics				
Color	yellow	Score	no score	
Shape	OVAL	Size	16mm	
Flavor		Imprint Code	P10	
Contains				

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:60687-697- 01	100 in 1 CARTON	12/20/2022	
1		1 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209688	12/20/2022	

Labeler - American Health Packaging (929561009)

Establishment				
Name	Address	ID/FEI	Business Operations	
American Health Packaging		929561009	repack(60687-697)	

Revised: 1/2023 American Health Packaging