weighing at least 15 kg. Limitations of Use:

ausal relationship between protease inhibitor therapy and thes 5.13 Resistance/Cross-Resistance

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14.1 Adult Patients without Prior Antiretroviral Therapy

Sections or subsections omitted from the full prescribing information are not listed

14.2 Adult Patients with Prior Antiretroviral Therapy

14.3 Pediatric Patients 16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

concomitant transaminase increase occurs, evaluate for alternative etiologies. (5.8)

Consider discontinuation of atazanavir in patients with progressive renal disease. (5.5)

Hemophilia: Spontaneous bleeding may occur and additional factor VIII may be required. (5.12)

Nephrolithiasis and cholelithiasis have been reported. Consider temporary interruption or discontinuation. (5.6)

to therapy and during treatment. (2.8, 5.4, 8.8)

redistribution/accumulation of body fat (5.11).

must be considered prior to and during therapy. (4, 7, 12.3)

Lactation: Breastfeeding is not recommended. (8.2)

7.2 Potential For Other Drugs To Affect Atazanavir

8 USE IN SPECIFIC POPULATIONS

Pediatric Use

Geriatric Use

Impaired Renal Function

8.8 Impaired Hepatic Function

8.1 Pregnancy 8.2 Lactation

8.6 Age/Gender

OVERDOSAGE

DESCRIPTION

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.2 Pharmacodynamics

12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

12.4 Microbiology

14 CLINICAL STUDIES

8.4

7.2 Foreintan of other bidgs for Artect Atazanovir
 7.3 Established and Other Potentially Significant Drug Interactions
 7.4 Drugs With No Observed Interactions With Atazanovir

degree of hepatic impairment, (2.8, 8.8)

Hepatitis B or C co-infection: Monitor liver enzymes. (5.4, 6.1)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

rate. (8.1)

symptoms, dizziness, myalgia, diarrhea, depression, and fever. (6.1)

09/2020

09/2020

Hepatotoxicity: Patients with hepatitis B or C infection are at risk of increased transaminases or hepatic decompensation. Monitor hepatic laboratory tests prior

alternatives in patients at high risk for renal disease or with preexisting renal disease. Monitor renal laboratory tests prior to therapy and during treatment.

prescribing information prior to and during treatment for potential drug interactions. (5, 7, 7, 3) Patients receiving atazanavir may develop new onset or exacerbations of diabetes mellitus/hyperglycemia (5.9), immune reconstitution syndrome (5.10), and

· Chronic kidney disease has been reported during postmarketing surveillance in HIV-1 infection treated with atazanavir, with or without ritonavir. Consider

• The concomitant use of atazanavir with ritonavir and certain other medications may result in known or potentially significant drug interactions. Consult the full

-----ADVERSE REACTIONS----

Nost common adverse reactions (=2%) are nausea, jaundice/scleral icterus, rash, headache, abdominal pain, vomiting, insomnia, peripheral neurologic

-----DRUG INTERACTIONS------

······USE IN SPECIFIC POPULATIONS·····

To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

Coadministration of atazanavir can alter the concentration of other drugs and other drugs may alter the concentration of atazanavir. The potential drug-drug interactions

Pregnancy: Available human and animal data suggest that atazanavir does not increase the risk of major birth defects overall compared to the background

Renal impairment: Atazanavir is not recommended for use in treatment-experienced patients with end-stage renal disease managed with hemodialysis. (2.7, 8.7)

Henatic impairment: Atazanavir is not recommended in patients with severe henatic impairment. Atazanavir with ritonavir is not recommended in patients with any

Various depress of cross-resistance among protease inhibitors have been observed. Resistance to atazanavir may not preclude the subsequent use of other protease inhibitors [see Microbiology (12.4]].

There have been reports of increased bleeding, including spontaneous skin hematomas and hemarthrosis, in patients with hemophilia type A and B treated with protease inhibitors. In some patients additional factor VIII was given. In more than half of the reported cases, treatment with protease inhibitors was continued or reintroduced. A

LDL-Cholesterol 108 98 -10% 104 103 HDL-Cholesterol 39 -7% 39 41 187 Total Cholesterol 188 170 -8% 181 Triglycerides⁶ 215 161 -4% 196 224 Atazanavir 300 mg once daily with ritonavir and tenofovir DF, and 1 NRTI. treatment arm and 8% in the atazanavir with ritonavir arm. Lopinavir/ritonavir (400/100 mg), as a fixed dose regimen, BID with tenofovir DF and 1 NRTI. [®] Number of patients with LDL-cholesterol measured Adverse Reactions in Pediatric Subjects with HIV-1 Infection: Atazanavir Capsules the open-label, multicenter clinical trial PACTG 1020A. Adverse Reactions in Subjects with HIV-1 Infection, Co-Infected with Hepatitis B and/or Hepatitis C Virus developed in 10% (6/60) of the subjects administered at azanavir with ritonavir and none (0/50) of the subjects treated with lopinavir/ritonavir. daily (as fixed-dose product), were seropositive for hepatitis B and/or C at study entry. ALT levels > 5 times ULN developed in 25% (5/20) of the subjects adm ered atazanavir with ritonavir and 6% (1/18) of the subjects treated with lopinavir/ritonav . ALT levels > 5 times ULN de

Table 14: Grade 3 to 4 Laboratory Abnormalities Reported in \geq 2% of Adult Treatment-Experienced Subjects with HIV-1 Infection, Study Al424-045" 48 weeks^b 48 weeks^b rifabutin zanavir with rito 300/100 mg o(once daily) and 400/100 mg (twice daily) and tenofovir DF and NRTI tenofovir DF and NRTI Antineoplastic irinoteca (n=119) (n=118) Variable Limit irinotecan Chemistry <u>High</u> SGOT/AST \geq 5.1 x ULN 3% 3% SGPT/ALT \geq 5.1 x ULN 4% 3% Antipsychotics ↑ pimozide pimozide Total Bilirubin \geq 2.6 x ULN 49% <1% Lipase \geq 2.1 x ULN 5% 6% azanavir with rite Creatine Kinase \geq 5.1 x ULN 8% 8% Total Cholestero \geq 240 mg/dL 25% 26% t lurasidone Triglycerides \geq 751 mg/dL 8% 12% Glucose \geq 251 mg/dL 5% <1% Hematology Low lurasidone Platelets 3% < 50,000 cells/mr 2% < 750 cells/mm³ Neutrophils 7% * Based on regimen(s) containing atazanavir. Median time on therapy. quetiapine ^c ULN = upper limit of normal. As a fixed-dose product Change in Lipids from Baseline in Treatment-Experienced Subjects with HIV-1 Infection For Study Al424-045, changes from baseline in LDL-cholesterol, HDL-cholesterol, total cholesterol, and triglycerides are shown in Table 15. The observed magnitude of dyslipidemia was less with atazanavir with ritonavir than with lopinavir/ritonavir. However, the clinical impact of such findings has not been demonstrated
 Table 15:
 Lipid Values, Mean Change from Baseline, Study Al424-045
 Atazanavir with ritonavir* midazolam Week 48 Change^d Week 48 Week 48 Baseline Week 48 Baseline mg/dL midazolam (oral) triazolam mg/dL Change mg/dL mg/dL (n=111°) (n=75°) (n=74°) (n=108°) (n=76°) (n=73°) +1% +2% parenterally administered ↑ midazolam +6% + 30% ^b Values obtained after initiation of serum lipid-reducing agents were not included in these analyses. At baseline, serum lipid-reducing agents were used in 4% in the reatment arm and 4% in the atazanavir with ritonavir arm. Through Week 48, serum lipid-reducing agents were used in 19% in the lopin *ium channel blockers:* diltiaze ↑ diltiazem and esacetyl-diltiazem The change from baseline is the mean of within-subject changes from baseline for subjects with both baseline and Week 48 values and is not a simple difference of the baseline and Week 48 mean values. dipine, nifedipine, nicardipine, and verapamil calcium channel blocke , atazanavi dothelin receptor bosentan aonists: The safety and tolerability of atazanavir capsules with and without ritonavir have been established in pediatric subjects with HIV-1 infection, at least 6 years of age from The safety profile of atazanavir in pediatric subjects with HIV-1 infection (6 to less than 18 years of age) taking the cansule formulation was generally similar to that observed in clinical studies of atazanavir in adults. The most common Grade 2 to 4 adverse events (2=5%, regardless of causality) reported in pediatric subjects were cough (21%), fever (18%), jaundice/scleral icterus (15%), rash (14%),vomiting (12%), diarrhea (9%), headache (8%), peripheral edema (7%), extremity pain (6%), nasal congestion (6%), oropharyngeal pain (6%), wheezing (6%), and rhinorrhea (6%). Asymptomatic second-degree atrioventricular block was reported in <2% of subjects. The most common Grade 3 to 4 laboratory abnormalities occurring in pediatric subjects taking the capsule formulation were elevation of total bilirubin (≥3.2 mg/dL, 58%), neutropenia (9%), and hypoglycemia (4%). All other Grade 3 to 4 laboratory abnormalities occurred with a frequency of less than 3%. In Study AI424-138, 60 subjects administered atazanavir 300 mg with ritonavir 100 mg once daily, and 51 subjects treated with lopinavir/ritonavir 400 mg/100 mg (as fixed-dose product his de daily, each with fixed-dose encoders Difficult Dif Ergot derivatives: dihydroergotamine, ergotamine, ergot derivatives vine, methylergonovine In Study Al424-045, 20 subjects administered atazanavir 300 mg with ritonavir 100 mg once daily, and 18 subjects treated with lopinavir/ritonavir 400 mg/100 mg twice atazanavir with ritonavir and 6% (1/18) of the subjects treated with lopinavir/ritonavir-treated. AST levels >5 times ULN developed in 10% (2/20) of the subjects GI Motility Agents: cisapride

The percentages of adult treatment-experienced subjects with HIV-1 infection treated with combination therapy, including atazanavir with ritonavir having Grade 3 to 4 Coadministration of atazanavir with rifampin is contraindicated. Rifampin substantially decreases plasma concentrations of atazanavir, which may result in loss of therapeutic effect and development of resistance [see raindications (4)]. A rifabutin dose reduction of up to 75% (eg, 150 mg every other day or 3 times per week) is recommended. Increased monitoring for rifabutin-associated adverse reactions including neutropenia is warranted. Coadministration of atazanavir with irinotecan is contraindicated. Atazanavir inhibits UGT1A1 and may interfere with the metabolism of irinotecan, resulting in increased irinotecan toxicities *[see* Contraindications (4)]. arrhythmias /see Contraindications (4)] Atazanavir with ritonavir tening reactions [see Contraindications (4)]. Atazanavir without ritonavir If coadministration is necessary, reduce the lurasidone dose. Refer to the lurasidone prescribing information for concomitant use with moderat CYP3A4 inhibitors. nitiation of atazanavir with ritonavir in patients taking quetiapine: Consider alternative antiretroviral therapy to avoid increases in quetiapine exposures. If coadministration is necessary, reduce the quetiapine dose to 1/6 of the current dose and monitor for quetiapine associated adverse reactions. Refer to the quetiapine prescribing information for nendations on adverse reaction m Initiation of quetiapine in patients taking atazanavir with ritonavir Refer to the quetiapine prescribing information for initial dosing and titration of quetiapine. Coadministration of atazanavir with either orally administered midazolam or triazolam is contraindicated. Triazolam and orally administered midazolam are extensively metabolized by CYP3A4. Atazanavir may cause large increases in the concentration of these benzodiazepines that can lead to the potential for serious and/or life-threatening events such as prolonge or increased sedation or respiratory depression [see Contraindications (4)]. Concomitant use of parenteral midazolam with atazanavir may increase plasma concentrations of midazolam. Coadministration should be done in a setting which ensures close clinical monitoring and appropriate medical management in case of respiratory depression and/or prolonged sedation. Dosage reduction for midazolam should be considered, especially if more than a single dose of midazolam is administered. Caution is warranted. A dose reduction of diltiazem by 50% should be considered. ECG monitoring is recommended. Coadministration of diltiazem and atazanavir with ritonavir has not been studied. Caution is warranted. Dose titration of the calcium channel blocker should be considered. ECG monitoring is recommended. Plasma concentrations of atazanavir may be decreased when bosentan is administered with atazanavir without ritonavir. Coadministration of bosentan and atazanavir without ritonavir is not recommended. Coadministration of bosentan in adult patients on atazanavir with For patients who have been receiving atazanavir with ritonavir for at least 10 days, start bosentan at 62.5 mg once daily or every other day based on individual tolerability. Coadministration of atazanavir with ritonavir in adult patients o

Effect on Concentration of

azanavir or Concomita

Drug

atazanavir

nitant Drug Class

Specific Drugs

cterials: rifampii

These highlights do not include all the information needed to use ATAZANAVIR CAPSULES safely and effectively. See full prescribing information for ATAZANAVIR CAPSULES.

Atazanavir capsules are a protease inhibitor indicated for use in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults and in pediatric

• Pretreatment testing: Renal laboratory testing should be performed in all patients prior to initiation of atazanavir capsules and continued during treatment with

Pregnancy: Atazanavir capsules 300 mg with ritonavir 100 mg once daily with food, with dosing modifications for some concomitant medications. (2.6)

Atazanavir capsules are contraindicated in patients with previously demonstrated hypersensitivity (eg, Stevens-Johnson syndrome, erythema multiforme, or toxic

Coadministration with alfuzosin, amiodarone (if atazanavir capsule is coadministered with ritonavir), quinidine (if atazanavir capsule is coadministered with

Cardiac conduction abnormalities: PR interval prolongation may occur in some patients. ECG monitoring should be considered in patients with preexisting conduction system disease or when administered with other drugs that may prolong the PR interval. (5.1, 7.3, 12.2, 17)

• Hyperbilirubinemia: Most patients experience asymptomatic increases in indirect bilirubin, which is reversible upon discontinuation. Do not dose reduce. If a

ritonavir), trizaolam, orally administered midaolam, ergot derivatives, rifampin, rinotecan, lurasidone (if atzamir bepear oradministered with ritonavir), lovastatin, sinvastatin, lomitapide, indinavir, cisapride, pimozide, St. John's wort, nevirapine, elbasvir/grazoprevir, glecaprevir/pibrentasvir, and sildenafil when

atazanavir capsules. Hepatic testing should be performed in patients with underlying liver disease prior to initiation of atazanavir capsules and continued during

treatment with atazanavir. Hepatic testing should be performed in patients with underlying liver disease prior to initiation of atazanavir capsules and continued

-RECENT MAJOR CHANGES-

····INDICATIONS AND USAGE······

-----DOSAGE AND ADMINISTRATION------

Treatment-naive adults: Atazanavir capsules 300 mg with ritonavir 100 mg once daily with food or atazanavir 400 mg once daily with food. (2.3)

Treatment-experienced adults: Atazanavir capsules 300 mg with ritonavir 100 mg once daily with food. (2.3)

Pediatric patients: Atazanavir capsule dosage is based on body weight not to exceed the adult dose and must be taken with food. (2.4)

Dosing modifications: may be required for concomitant therapy (2.3, 2.4, 2.6), renal impairment (2.7), and hepatic impairment (2.8).

······DOSAGE FORMS AND STRENGTHS····

····WARNINGS AND PRECAUTIONS···

.....CONTRAINDICATIONS.....



Number of subjects with LDL-cholesterol measured

laboratory abnormalities, are presented in Table 14.

Laboratory Abnormalities in Treatment-Experienced Subjects with HIV-1 Infection

¹ Fasting.

FULL PRESCRIBING INFORMATION

7.1 Potential for Atazanavir to Affect Other Drugs

HIGHLIGHTS OF PRESCRIBING INFORMATION

ATAZANAVIR capsules, for oral use

Immune Reconstituted Syndrome (5.10)

patients 6 years and older weighing at least 15 kg. (1)

Capsules: 150 mg, 200 mg, 300 mg. (3, 16)

FULL PRESCRIBING INFORMATION: CONTENTS*

2.3 Dosage of Atazanavir Capsules in Adult Patients

2.7 Dosage in Patients with Renal Impairment

DOSAGE FORMS AND STRENGTHS

5.1 Cardiac Conduction Abnormalities

5.6 Nephrolithiasis and Cholelithiasis

5.9 Diabetes Mellitus/Hyperglycemi

5.12 Hemophilia 5.13 Resistance/Cross-Resistance

6.1 Clinical Trial Experience6.2 Postmarketing Experience

5.10 Immune Reconstitution Syndrome

WARNINGS AND PRECAUTIONS

5.2 Severe Skin Reactions

5.4 Hepatotoxicity5.5 Chronic Kidney Disease

5.8 Hyperbilirubinemia

5.11 Fat Redistribution

ADVERSE REACTIONS

7 DRUG INTERACTIONS

2.4 Dosage of Atazanavir Capsules in Pediatric Patients
 2.6 Dosage Adjustments in Pregnant Patients

2.8 Dosage Adjustments in Patients with Hepatic Impairmer

5.7 Risk of Serious Adverse Reactions Due to Drug Interactions

INDICATIONS AND USAGE DOSAGE AND ADMINISTRATION

Overview

CONTRAINDICATIONS

dosed as REVATIO[®], (4)

during treatment with atazanavir capsules. (2.2)

skin eruptions) to any of the components of this product. (4)

Severe Skin Reactions: Discontinue if severe rash develops. (5.2, 17)

Testing Prior to Initiation and During Treatment with Atazanavir Capsules

Initial U.S. Approval: 2003

Contraindications (4)

.

Warnings and Precautions

- INDICATIONS AND USAGE Atazanavir cansules are indicated in combination with other antiretroviral agents for the treatment of HIV-1 infection in adults and in pediatric patients 6 years and older
- Atazanavir are not recommended for use in pediatric patients below the age of 3 months due to the risk of kernicterus [see Use in Specific Populations (8.4)].
- - In Studies AI424-008 and AI424-034, 74 subjects treated with atazanavir 400 mg once daily, 58 who received efavirenz, and 12 who received nelfinavir were

osentan:

individual tolerability.

Discontinue bosentan at least 36 hours before starting atazanavir with

ritonavir. At least 10 days after starting atazanavir with ritonavir,

resume bosentan at 62.5 mg once daily or every other day based on

Coadministration of atazanavir with ergot derivatives is contraindicated.

This is due to the potential for serious and/or life-threatening events such as acute ergot toxicity characterized by peripheral vasospasm and ischemia o the extremities and other tissues *[see Contraindications (4]].*

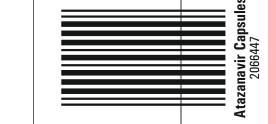
Coadministration of atazanavir with cisapride is contraindicated. This is

due to the potential for serious and/or life-threatening reactions such as

cardiac arrhythmias [see Contraindications (4)].

ninistration of atazanavir with pimozide is contraindicated. This is due to the potential for serious and/or life-threatening reactions such as cardiac Coadministration of lurasidone with atazanavir with ritonavir is contraindicated. This is due to the potential for serious and/or life-

Clinical Comment



ssued: 01/2022

- Use of atazanavir with ri patients should be guided by the number of baseline primary protease inhibitor resis [see Microbiology (12.4)].
- 2 DOSAGE AND ADMINISTRATION
- 2.1 Overview
- Atazanavir capsules must be taken with food.
- Do not open the capsules. Do not open the capsules. The recommended oral dosage of atazanavir capsules depends on the treatment history of the patient and the use of other coadmir coadministered with H₂ receptor antagonists or proton-pump inhibitors, dose separation may be required (see Dosage and Administration (2.3, 2.4, and 2.6) and
- Atazanavir capsules without ritonavir are not recommended for treatment-experienced adult or pediatric patients with prior virologic failure /see Clinical Studies
- Efficacy and safety of atazanavir capsules with ritonavir when ritonavir is administered in doses greater than 100 mg once daily have not been established. The use of higher ritonavir doses may alter the safety profile of atazanavir (cardiac effects, hyperbilirubinemia) and, therefore, is not recommended. Prescribers should The s consult the complete prescribing information for ritonavir when using ritonavir.

2.2 Testing Prior to Initiation and During Treatment with Atazanavir Capsules

Renal laboratory testing should be performed in all patients prior to initiation of atazanavir capsules and continued during treatment with atazanavir capsules. Renal laboratory testing should include serum creatinine, estimated creatinine clearance, and urinalysis with microscopic examination [see Warnings and Precautions (5.5, 5.6)]. Hepatic laboratory testing should be performed in patients with underlying liver disease prior to initiation of atazanavir capsules and continued during treatment with Table atazanavir capsules [see Warnings and Precautions (5.4)].

2.3 Dosage of Atazanavir Capsules in Adult Patients

Table 1 displays the recommended dosage of atazanavir capsules in treatment-naive and treatment-experienced adults. Table 1 also displays recommended dosage of tazanavir capsules and ritonavir when given concomitantly with other antiretroviral drugs and H2 receptor antagonists (H2RA). Ritonavir is required with several atazanavir capsule dosage regimens (see the ritonavir complete prescribing information about the safe and effective use of ritonavir). The use of atazanavir capsules in treatment-experienced adult patients without ritonavir is not recommended.

Table 1: Recommended Atazanavir Capsules and Ritonavir Dosage in Adults Atazanavir capsules Once Daily Ritonavir Once Daily Dosage Dosage Treatment-Naive Adult Patients 100 mg 300 mg unable to tolerate ritonavi N/A 400 mg in combination with efavire 100 mg 400 mg Treatment-Experienced Adult Patients 100 mg recommended regimen 300 mg 100 mg in combination with both H2RA and tenofovir DF 400 mg

See Drug Interactions (7) for instructions concerning coadministration of acid-reducing medications (eg, H2RA or proton pump inhibitors [PPIs]), and other antidrugs (eg, efavirenz, tenofovir DF, and didanosine).

2.4 Dosage of Atazanavir Capsules in Pediatric Patients

The recommended daily dosage of atazanavir capsules and ritonavir in pediatric patients (6 years of age to less than 18 years of age) is based on body weight (see Table 2). Table 2. F

Body weight	Atazanavir capsules Daily Dosage	Ritonavir Daily Dosage
Treatment-Naive and Treatment-Experienced		
Less than 15 kg	Capsules not recommended	N/A
At least 15 kg to less than 35 kg	200 mg	100 mg
At least 35 kg	300 mg	100 mg
Treatment-Naive, at least 13 years old and cannot tolerate ritonavir		
At least 40 kg	400 mg	N/A

Administer atazanavir capsules and ritonavir simultaneously with food ^b The same recommendations regarding the timing and maximum doses of concomitant PPIs and H2RAs in adults also apply to pediatric patients. See Drug Interactions (7) istration of acid-reducing medications (eg, H2RA or PPIs), and other antiretroviral drugs (eg, efavirenz, tenofovir DF, and didanosine). In treatment-experienced patients, atazanavir capsules must be administered with ritonav

When transitioning between formulations, a change in dose may be needed. Consult the dosing table for the specific formulation.

2.6 Dosage Adjustments in Pregnant Patients

Table 4 includes the recommended dosage of atazanavir capsules and ritonavir in treatment-naive and treatment-experienced pregnant patients. In these patients, tonavir. There are no dosage adjustments for postpartum patients (see Table 1 for the recomm atazanavir capsules must be administered with ritonavir. dosage in adults) *[see Use in Specific Populations (8.1)]*.

	Atazanavir Capsules Once Daily Dosage	Ritonavir Once Daily Dosage
Treatment-Naive and Treatment-Experienced		
Recommended Regimen	300 mg	100 mg
Treatment-Experienced During the Second or Th Tenofovir DF ^b	ird Trimester When Coadministered wit	h either H2RA or
In combination with <u>EITHER</u> 400 mg 100 mg H2RA <u>OR</u> tenofovir DF	400 mg	100 mg

* See Drug Interactions (7) for instructions concerning coadministration of acid-reducing medications (eg, H2RA or PPIs), and other antiretroviral drugs (eg, efavirenz, tenofovir DF, and didanosine). ^b Atazanavir capsules are not recommended for treatment-experienced pregnant patients during the second and third trimester taking atazanavir capsules with BOTH

tenofovir DF and H2RA.

2.7 Dosage in Patients with Renal Impairment

For patients with renal impairment, including those with severe renal impairment who are not managed with hemodialysis, no dose adjustment is required for atazanavir capsules. Treatment-naive patients with end-stage renal disease managed with hemodialysis should receive atazanavir capsules 300 mg with ritonavir 100 mg. Atazanavir capsules are not recommended in treatment-experienced patients with HIV-1 infection who have end-stage renal disease managed with hemodialysis/see Us in Specific Populations (8.7)].

2.8 Dosage Adjustments in Patients with Hepatic Impairment

Table 5 displays the recommended atazanavir capsule dosage in treatment-naive patients with hepatic impairment. The use of atazanavir capsules in patients with severe hepatic impairment (Child-Pugh Class C) is not recommended. The coadministration of atazanavir capsules with ritonavir in patients with any degree of hepatic ment is not recom

Table 5: Recommended Dosage of Atazanavir Capsules in Treatment-Naïve Adults with Hepatic Impairment

	Atazanavir capsules Once Daily Dosage
Mild hepatic impairment (Child-Pugh Class A)	400 mg
Moderate hepatic impairment (Child-Pugh Class B)	300 mg
Severe hepatic impairment (Child-Pugh Class C)	Atazanavir capsules with or without ritonavir is not recommended

3 DOSAGE FORMS AND STRENGTHS

- 150 mg capsule with off white to pale yellow colored granular powder filled in size 1 hard gelatin capsules with Green opague Cap imprinted with "H" in black color Labo and Light Green opaque Body imprinted with "A6" in black color.
- 200 mg capsule with off white to pale yellow colored granular powder filled in size 0 hard gelatin capsules with Green opaque Cap imprinted with "H" in black color and Light Green opaque Body imprinted with "A7" in black color
- 300 mg capsule with off white to pale yellow colored granular powder filled in size 00 hard gelatin capsules with Orange opaque Cap imprinted with "H" in black color and Green opaque Body imprinted with "A8" in black color.

4 CONTRAINDICATIONS tazanavir capsules are contraindicated:

- in patients with previously demonstrated clinically significant hypersensitivity (eg, Stevens- Johnson syndrome, erythema multiforme, or toxic skin eruptions) to any of the components of atazanavir capsules /see Warnings and Precautions (5.2)/.
- when coadministered with drugs that are highly dependent on CYP3A or UGT1A1 for clearance, and for which elevated plasma concentrations of the interacting drugs are associated with serious and/or life-threatening events (see Table 6). when coadministered with drugs that strongly induce CYP3A and may lead to lower exposure and loss of efficacy of atazanavir (see Table 6).
- Table 6 displays drugs that are contraindicated with atazanavir
- Table 6:
 Drugs Contraindicated with Atazanavir (Information in the table applies to Atazanavir with or without ritonavir, unless otherwise indic
 Drug Class Drug with in class that are contraindicated with Atazanavir capsules

	reactions are disc		er detail in other secti Varnings and Precautio					efavirer with ef	itive for hepatitis B and/or C at study enti nz, and 17% of the subjects treated with i avirenz, and 17% of the subjects treate n seropositive and seronegative subjects,	nelfinavir. d with ne	:./
hyperbichronic		arnings and Pr e Warnings an		ns (5.6)]				The foll is not al	Postmarketing Experience owing events have been identified during ways possible to reliably estimate their fr		
Clinical Trial se clinical trials	Experience are conducted und	ler widely vary	5	se reaction rates observe	ed in the clinical trials of a drug cann	ot be directly c	ompared to rates in	Cardiov Gastroi	s <i>a Whole:</i> edema <i>ascular System:</i> second-degree AV block, <i>intestinal System:</i> pancreatitis	, third-deg	gre
e Reactions in 1	Treatment-Naive A	Adult Subiects	-					'	System: hepatic function abnormalities		
fety profile of a	itazanavir in treati	ment-naive ad			ection in clinical trials. 536 patients	received ataza	navir 300 mg with	Metabo	biliary Disorders: cholelithiasis (see Warni Nic System and Nutrition Disorders: diabe	-	
ost common adv	verse reactions we	re nausea, jau	ndice/scleral icterus,	and rash.					oskeletal System: arthralgia		
				2% of treatment- naive p bles 7 and 8, respectively	atients receiving combination therap	y including ataz	anavir 300 mg with	Precaut	ystem: nephrolithiasis /see Warnings and tions (5.5)]		
	ed Adverse Reac Al424-138	tions' of Moc	lerate or Severe In	tensity Reported in \geq	2% of Adult Treatment-Naive S	Subjects with	HIV-1 Infection, ⁶	7 1	<i>d Appendages:</i> alopecia, maculopapular ra DRUG INTERACTIONS Potential for Atazanavir to Affect Oth		
			Atazanavir cap ritonavir 100 n tenofovir DI	veeks ^e sules 300 mg with ng (once daily) and /emtricitabine ^d =441)	96 weeks ^e lopinavir/ritonavir/ 400 mg/ 100 mg (twice da tenofovir DF/emtricital (n=437)	ily) and		Atazana concent Atazana narrow	avir is an inhibitor of CYP3A and UGT1A trations of the other drug that could increa avir is a weak inhibitor of CYP2C8. Use o therapeutic indices (eg, paclitaxel, repag	1. Coadmi ase or prol of atazana glinide). W	olo av Vh
	Digestive Sy	stem							expected <i>(see Clinical Pharmacology, Tabl</i>		
	Nausea			4%	8%				gnitude of CYP3A-mediated drug interact tion for ritonavir for information on drug i		
	Jaundice/sclei	ral icterus		5%					Potential for Other Drugs to Affect At		
	Diarrhea			2%	12%				avir is a CYP3A4 substrate; therefore, dru		
	Skin and App	pendages		08/	0%			Atazan	avir solubility decreases as pH increases.	Reduced	p ¹
	Rash			3%	2%			H ₂ -rece	ptor antagonists are administered with at	azanavir/	[s
des events of po	n containing ataza		nown relationship to t	reatment regimen.				Table 1	Established and Other Potentially Sig 6 provides dosing recommendations in ad cted interactions due to the expected mag	lults as a r	re
nistered as a fix								Table 1	6: Established and Other Potenti	ally Sin	ni
8: Selecte		tions [®] of Mo			2% of Adult Treatment-Naive S	Subjects with	HIV-1 Infection, ^b		Interaction Studies' or Predict indicated)		
			Study	AI424-034	Stud	ies A1424-00	7, -008				_
		Atazanavir (once	l weeks [°] capsules 400 mg daily) with	64 weeks [°] efavirenz 600 mg (once daily) with	120 weeks ^{c.d} Atazanavir capsules 400 mg (once daily) with	nelfina TID or	veeks ^{cd} vir 750 mg 1250 mg		<i>Concomitant Drug Class:</i> Specific Drugs		1
		lan	nivudine/	lamivudine/	stavudine and	BI	D with	UN A	ntiviral Aganta		1

		Zio	nivudine/ lovudine° n=404)	lamivudine/ zidovudine° (n=401)		tavudine and dine or didanosine (n=279)	stavudine	BID with and lamivudine or osine (n=191)	HIV AI
Body as a V	Vhole	,	11-404/	(11-401)		(1-270)	uluuli		Nucleo. didanos
Headache			6%	6%		1%		2%	capsule
Digestive S	system								
Nausea			14%	12%		6%		4%	
Jaundice/	scleral icterus		7%	*		7%		*	Nucleo
Vomiting			4%	7%		3%		3	tenofor
Abdomina	ıl pain		4%	4%		4%		2%	
Diarrhea			1%	2%		3%		16%	
Nervous Sy	rstem								
Insomnia			3%	3%		<1%		*	
Dizziness			2%	7%		<1%			
Peripheral	l neurologic symptoms		<1%	1%		4%		3%	
Skin and A	ppendages								Non-nu
Rash			7%	10%		5%		1%	Transcr
ncludes event ased on regin Median time o ncludes long-1 us a fixed-dos	l in this treatment arm. ts of possible, probable, nens containing atazana n therapy. term follow-up. e product: 150 mg lamiv ons in Treatment-Experi	wir. udine/300 mg	zidovudine twice	-					(NNRT)
	-			n HIV-1 infection is based on 1	10 cubicot	e with UIV 1 infection	in clinical tr	iale	nevirap
	nie of atazanavir in trea non adverse reactions ar				19 subject	s with HIV-1 Intection	in clinical tr	iais.	lievitap
lected clinica Table 9.	al adverse reactions of m	oderate or sev	rere intensity rep	orted in \geq 2% of treatment-ex				-	
	elected Adverse Rea nfection," Study Al42		oderate or Sev	ere Intensity Reported in	≥2% of	Adult Treatment-Exp	erienced S	ubjects with HIV-1	Proteas saquina
			riton	48 weeks ⁶ avir capsules with avir 300/100 mg nd tenofovir DF and NRTI (n=119)		48 weeks ⁶ inavir/ritonavir 400/ e dailyd) and tenofov NRTI (n=118)			
	Body as a W	hole		((indinav
	Fever			2%		*			
	Digestive S	/stem		270					
		cleral icterus		9%		*			ritonav
	Diarrhea			3%		11%			
	Nausea			3%		2%			
	Nervous Sys	stem		0,0		2,0			Others
	Depression			2%		<1%			
		letal System		2,0	1				
	Myalgia	iotai o jotain		4%		*			Hepati
ncludes event	l in this treatment arm. ts of possible, probable, regimen containing ataza		ı nown relationshi						elbasvi
Aedian time o Is a fixed-dos	e product.								glecapr
	ormalities in Treatment	-			a				
				ction treated with combination ormalities are presented in Tab			OU mg with	i ritonavir 100 mg or	voxilap
	-						² Otradia	1424 120	Other A
ble 10: G	rade 3 to 4 Laboratory	Abnormaliti	es reportea in :	≥ 2% of Adult Treatment-Na	iive Subje			A1424-138	Alpha i
				96 weeks ⁶ Atazanavir capsules 300 ritonavir 100 mg (once daily) and tenofovir DF/emtricita		96 we lopinavir/ı 400 mg/100 mg° (tenofovir DF/e	itonavir twice daily		Antacio
ſ	Variable		Limit	(n=441)		(n=4	37)		
ŀ	Chemistry		High	. ,					Antiarr
ľ	SGOT/AST	2	5.1 x ULN	3%		1%			Anudit
F	0007/017		F 4						

s	inhibitors <i>(see Microbiology (12.4)).</i> 6 ADVERSE REACTIONS The following adverse reactions are discussed in greating the follow	ater detail in other secti	ons of the labeling.			seropositive for hepatitis B and/or C at study entry. ALT I efavirenz, and 17% of the subjects treated with nelfinavi	levels > 5 times ULN developed in ir. AST levels > 5 times ULN deve	the daily, so who received eravirenz, and 12 who received nermany were 15% of the subjects treated with atazanavir, 14% of the subjects treated with loped in 9% of the subjects treated with atazanavir, 5% of the subjects treated ontrol regimens, no difference in frequency of bilirubin elevations was noted	Herbal Products: St. John's wort (Hypericum perforatum)	↓ atazanavir	cardiac arrhythmias <i>(see Contraindications (4)).</i> Coadministration of products containing St. John's wort with atazanavir is contraindicated. This may result in loss of therapeutic effect of atazanavir
	 cardiac conduction abnormalities /see rash /see Warnings and Precautions (5: hyperbilirubinemia /see Warnings and F 	e Warnings and Precautic 5.2)]				between seropositive and seronegative subjects <i>(see Warnings and Precautions (5.8))</i> . 6.2 Postmarketing Experience			Lipid-modifying agents	↑ lovastatin	and the development of resistance <i>[see Contraindications (4]].</i> Coadministration of atazanavir with lovastatin or simvastatin is contraindicated. This is due to the potential for serious reactions such as
n d	 chronic kidney disease (see Warnings a nephrolithiasis and cholelithiasis (see k 	and Precautions (5.5)]	ns (5.6)]			The following events have been identified during postmarketing use of atazanavir. Because these reactions are reported voluntarily from a population of unknown size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Body as a Whole: edema			HMG-CoA reductase inhibitors: lovastatin, simvastatin	↑ simvastatin	myopathy, including rhabdomyolysis [see Contraindications (4]].
6.1 Clinical Trial Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in s the clinical trials of another drug and may not reflect the rates observed in practice.					not be directly compared to rates in	<i>Gastrointestinal System:</i> pancreatitis			atorvastatin, rosuvastatin	↑ atorvastatin ↑ rosuvastatin	Titrate atorvastatin dose carefully and use the lowest necessary dose. Rosuvastatin dose should not exceed 10 mg/day. The risk of myopathy, including rhabdomyolysis, may be increased when HIV protease inhibitors,
e Adverse Reactions in Treatment-Naive Adult Subjects Id The safety profile of atazanavir in treatment-naive adults is based on 1625 subjects with HIV-1 infection in clinical trials. 536 patients received atazanavir 300 mg with ritonavir 100 mg and 1089 patients received atazanavir 400 mg or higher (without ritonavir).					ts received atazanavir 300 mg with	Hepatic System: hepatic function abnormalities Hepatobiliary Disorders: cholelithiasis <i>[see Warnings and Precautions (5.6]]</i> , cholecystitis, cholestasis Metabolic System and Nutrition Disorders: diabetes mellitus, hyperglycemia <i>(see Warnings and Precautions (5.9)</i>]		Other Lipid Modifying Agents: Iomitapide	↑ lomitapide	including atazanavir, are used in combination with these drugs. Coadministration of atazanavir with lomitapide is contraindicated. This is	
ıl	The most common adverse reactions were nausea, ja Selected clinical adverse reactions of moderate or seve	aundice/scleral icterus,	and rash.	ients receiving combination thera	py including atazanavir 300 mg with	Musculoskeletal System: arthralgia Renal System: nephrolithiasis (see Warnings and Precau Precautions (5.5))	tions (5.6)], interstitial nephritis,	granulomatous interstitial nephritis, chronic kidney disease /see Warnings and			due to the potential for risk of markedly increased transaminase levels and hepatotoxicity associated with increased plasma concentrations of lomitapide. The mechanism of interaction is CYP3A4 inhibition by
ł. h	ritonavir 100 mg and atazanavir 400 mg (without riton: Table 7: Selected Adverse Reactions' of Mo Study A1424-138	-		% of Adult Treatment-Naive	Subjects with HIV-1 Infection, ^b	Skin and Appendages: alopecia, maculopapular rash/see 7 DRUG INTERACTIONS	Contraindications (4) and Warning	s and Precautions (5.2)), pruritus, angioedema	H ₂ :Receptor antagonists	↓ atazanavir	atazanavir and/or ritonavir <i>[see Contraindications (4]].</i> Plasma concentrations of atazanavir were substantially decreased when atazanavir 400 mg once daily was administered simultaneously with
f	Stuuy A1424-130	Atazanavir cap	weeks ⁶ sules 300 mg with	96 weeks ^e lopinavir/ritonavir		7.1 Potential for Atazanavir to Affect Other Drug Atazanavir is an inhibitor of CYP3A and UGT1A1. Coadn concentrations of the other drug that could increase or pr	ninistration of atazanavir and dru	ış primarily metabolized by CYP3A or UGT1A1 may result in increased plasma offects.			famotidine 40 mg twice daily in adults, which may result in loss of therapeutic effect and development of resistance. In treatment-naive adult patients:
n n		tenofovir DF	ng (once daily) and F/emtricitabine ^d =441)	400 mg/ 100 mg (twice d tenofovir DF/emtricita (n=437)		Atazanavir is a weak inhibitor of CYP2C8. Use of atazar	navir without ritonavir is not reco When atazanavir with ritonavir is	mmended when coadministered with drugs highly dependent on CYP2C8 with coadministered with substrates of CYP2C8, clinically significant interactions			Atazanavir 300 mg with ritonavir 100 mg once daily with food should be administered simultaneously with, and/or at least 10 hours after, a dose of the H ₂ -receptor antagonist (H2RA). An H2RA dose comparable to
	Digestive System Nausea Jaundice/scleral icterus		4% 5%	8%		1 2 00	coadministered drug may change	when atazanavir is coadministered with ritonavir. See the complete prescribing			famotidine 20 mg once daily up to a dose comparable to famotidine 40 mg twice daily can be used with atazanavir 300 mg with ritonavir 100 mg in
	Diarrhea Skin and Appendages		2%	12%			induce CYP3A4 may decrease ata	zanavir plasma concentrations and reduce atazanavir therapeutic effect.			treatment-naive patients. OR For patients unable to tolerate ritonavir, atazanavir 400 mg once daily with
	Rash *None reported in this treatment arm.		3%	2%		Atazanavir solubility decreases as pH increases. Reducer H ₂ -receptor antagonists are administered with atazanavir 7.3 Established and Other Potentially Significant	r [see Dosage and Administration (avir are expected if proton-pump inhibitors, antacids, buffered medications, or 2.3, 2.4, and 2.6)].			food should be administered at least 2 hours before and at least 10 hours after a dose of the H2RA. No single dose of the H2RA should exceed a dose comparable to famotidine 20 mg, and the total daily dose should not exceed
	 ^a Includes events of possible, probable, certain, or unl ^b Based on the regimen containing atazanavir. ^c Median time on therapy. ^d Administered as a fixed-dose 	iknown relationship to t	reatment regimen.			Table 16 provides dosing recommendations in adults as a or predicted interactions due to the expected magnitude of		tazanavir. These recommendations are based on either drug interaction studies ous events or loss of efficacy.			a dose comparable to famotidine 40 mg. The use of atazanavir without ritonavir in pregnant women is not recommended. <i>In treatment-experienced adult patients:</i> Whenever an H2RA is given to
al	° As a fixed-dose product: 300 mg tenofovir DF, 200 m Table 8: Selected Adverse Reactions ^a of Ma	loderate or Severe In		% of Adult Treatment-Naive	Subjects with HIV-1 Infection, ^b			lteration in Dose or Regimen May Be Recommended Based on Drug ble applies to atazanavir with or without ritonavir, unless otherwise			a patient receiving atazanavir with ritonavir, the H2RA dose should not exceed a dose comparable to famotidine 20 mg twice daily, and the atazanavir and ritonavir doses should be administered simultaneously with,
L	Studies A1424-034, A1424-007, and		A1424-034 64 weeks ⁶	Stur 120 weeks ^{c.4}	dies A1424-007, -008 73 weeks ^{cd}		Effect on Concentration of				 and/or at least 10 hours after, the dose of the H2RA. Atazanavir 300 mg with ritonavir 100 mg once daily (all as a single dose with food) if taken with an H2RA.
	Atazanavi (onc la	rir capsules 400 mg ce daily) with amivudine/	efavirenz 600 mg A (once daily) with lamivudine/	Atazanavir capsules 400 mg (once daily) with stavudine and	nelfinavir 750 mg TID or 1250 mg BID with	Concomitant Drug Class: Specific Drugs HIV Antiviral Agents	Atazanavir or Concomitant Drug	Clinical Comment			 Atazanavir 400 mg with ritonavir 100 mg once daily (all as a single dose with food) if taken with both tenofovir DF and an H2RA. Atazanavir 400 mg with ritonavir 100 mg once daily (all as a single
		(n=404)	zidovudine° (n=401)	lamivudine or didanosine (n=279)	stavudine and lamivudine or didanosine (n=191)	Nucleoside Reverse Transcriptase Inhibitors (NRTIs): didanosine buffered formulations enteric-coated (EC)	↓ atazanavir ↓ didanosine	Coadministration of atazanavir with didanosine buffered tablets resulted in a marked decrease in atazanavir exposure. It is recommended that			dose with food) if taken with either tenofovir DF or an H2RA for pregnant patients during the second and third trimester. Atazanavir is not recommended for pregnant patients during the second and
	Headache Digestive System Nourse	6%	6% 	1%	2%	capsules		atazanavir be given (with food) 2 h before or 1 h after didanosine buffered formulations. Simultaneous administration of didanosine EC and atazanavir with food results in a decrease in didanosine exposure. Thus, atazanavir and	Hormonal contraceptives:	↓ ethinyl estradiol	third trimester taking atazanavir with both tenofovir DF and an H2RA.
	Nausea Jaundice/scleral icterus Vomiting	14% 7% 4%	*	7% 3%	*	Nucleotide Reverse Transcriptase Inhibitors: tenofovir disoproxil fumarate (DF)	↓atazanavir ↑tenofovir	didanosine EC should be administered at different times. Tenofovir DF may decrease the AUC and $C_{\rm min}$ of atazanavir. When coadministered with tenofovir DF in adults, it is recommended that	ethinyl estradiol and norgestimate or norethindrone	↑ norgestimate ^c	Use with caution if coadministration of oral contraceptives with atazanavir or atazanavir with ritonavir. If atazanavir with ritonavir is coadministered with an oral contraceptive, it
71	Abdominal pain Diarrhea	4% 1%	4% 2%	4% 3%	2% 16%			coominated with tendford of in addits, it is recommended that atazanavir 300 mg be given with ritonavir 100 mg and tenofovir DF 300 mg (all as a single daily dose with food). Atazanavir increases tenofovir concentrations. The mechanism of this interaction is unknown. Higher			is recommended that the oral contraceptive contain at least 35 mcg of ethinyl estradiol.
).	Nervous System Insomnia	3%	3%	< 1%	•			concentrations. The mechanism of this interaction is unknown, higher tenofovir concentrations could potentiate tenofovir-associated adverse reactions, including renal disorders. Patients receiving atazanavir and tenofovir DF should be monitored for tenofovir-associated adverse			If atazanavir is administered without ritonavir, the oral contraceptive should contain no more than 30 mcg of ethinyl estradiol.
8,	Dizziness Peripheral neurologic symptoms Skin and Appendages	2% <1%	7% 1%	<1% 4%	* 3%			reactions. For pregnant patients taking atazanavir with ritonavir and tenofovir DF, see <i>Dosage and Administration (2.6)</i> .		↑ ethinyl estradiol ↑ norethindrone ^d	Potential safety risks include substantial increases in progesterone exposure. The long-term effects of increases in concentration of the
S	Rash *None reported in this treatment arm.	7%	10%	5%	1%	Non-nucleoside Reverse Transcriptase Inhibitors (NNRTIs): efavirenz	↓atazanavir	Efavirenz decreases atazanavir exposure. <i>In treatment-naive adult patients:</i> If atazanavir is combined with efavirenz, atazanavir 400 mg (two 200 mg			progestational agent are unknown and could increase the risk of insulin resistance, dyslipidemia, and acne.
	 ^a Includes events of possible, probable, certain, or unl ^b Based on regimens containing atazanavir. ^c Median time on therapy. 	known relationship to t	reatment regimen.					capsules) should be administered with ritonavir 100 mg simultaneously once daily with food, and efavirenz 600 mg should be administered once daily on an empty stomach, preferably at bedtime.			Coadministration of atazanavir or atazanavir with ritonavir and other hormonal contraceptives (eg, contraceptive patch, contraceptive vaginal ring, or injectable contraceptives) or oral contraceptives containing
	⁴ Includes long-term follow-up. ⁵ As a fixed-dose product: 150 mg lamivudine/300 mg Adverse Reactions in Treatment-Experienced Adult S	, i						In treatment-experienced adult patients: Coadministration of atazanavir with efavirenz in treatment-experienced patients is not recommended due to decreased atazanavir exposure.			progestogens other than norethindrone or norgestimate, or less than 25 mcg of ethinyl estradiol, has not been studied; therefore, alternative methods of contraception are recommended.
	The safety profile of atazanavir in treatment-experienced Adult's The most common adverse reactions are jaundice/scl	ienced adults with HIV		9 subjects with HIV-1 infection	n in clinical trials.	nevirapine	↓ atazanavir ↑ nevirapine	Coadministration of atazanavir with nevirapine is contraindicated. This is due to substantial decreases in atazanavir exposure, which may result in	Immunosuppressants: cyclosporine, sirolimus, tacrolimus	↑ immunosuppressants	Therapeutic concentration monitoring is recommended for these immunosuppressants when coadministered with atazanavir.
	Selected clinical adverse reactions of moderate or se in Table 9.							loss of therapeutic effect and development of resistance. Potential risk for nevirapine-associated adverse reactions due to increased nevirapine exposures [see Contraindications (4]].	<i>Inhaled beta agonist:</i> Salmeterol	↑ salmeterol	Coadministration of salmeterol with atazanavir is not recommended. Concomitant use of salmeterol and atazanavir may result in increased risk of cardiovascular adverse reactions associated with salmeterol, including
z, <u>H</u>	Table 9: Selected Adverse Reactions' of M Infection, ¹ Study A1424-045	48 \	weeks	48 weeks ⁶		Protease Inhibitors: saquinavir (soft gelatin capsules)	↑ saquinavir	Appropriate dosing recommendations for this combination, with or without ritonavir, with respect to efficacy and safety have not been established. In a clinical study, saquinavir 1200 mg coadministered with atazanavir 400	Inhaled/nasal steroid: fluticasone	<i>Atazanavir</i> ↑ fluticasone	OT prolongation, palpitations, and sinus tachycardia. Concomitant use of fluticasone propionate and atazanavir (without ritonavir) may increase plasma concentrations of fluticasone propionate.
ir		ritonavir (once daily) and te	capsules with 300/100 mg nofovir DF and NRTI	lopinavir/ritonavir 400/ (twice dailyd) and tenofov NRTI				mg and tenofovir DF 300 mg (all given once daily), and nucleoside analogue reverse transcriptase inhibitors did not provide adequate efficacy <i>(see Clinical Studies (14.2))</i> .			Use with caution. Consider alternatives to fluticasone propionate, particularly for long-term use.
]. e	Body as a Whole Fever		= 119) 2%	(n=118)		indinavir		Coadministration of atazanavi with indinavir is contraindicated. Both atazanavir and indinavir are associated with indirect (unconjugated)		<i>Atazanavir with ritonavir</i> ↑ fluticasone	Concomitant use of fluticasone propionate and atazanavir with ritonavir may increase plasma concentrations of fluticasone propionate, resulting in significantly reduced serum cortisol concentrations. Systemic
е	Digestive System Jaundice/scleral icterus	1	9%	*		ritonavir	↑ atazanavir	hyperbilirubinemia <i>[see Contraindications (4]].</i> If atazanavir is coadministered with ritonavir, it is recommended that atazanavir 300 mg once daily be given with ritonavir 100 mg once daily			corticosteroid effects, including Cushing's syndrome and adrenal suppression, have been reported during postmarketing use in patients receiving ritonavir and inhaled or intranasally administered fluticasone
C	Diarrhea Nausea		3% 3%	11% 2%				with food in adults. See the complete prescribing information for ritonavir for information on drug interactions with ritonavir.			propionate. Coadministration of fluticasone propionate and atazanavir with ritonavir is not recommended unless the potential benefit to the patient outweighs the risk of systemic corticosteroid side effects <i>(see Warnings</i>
	Nervous System Depression		2%	<1%		Others	↑ other protease inhibitor	Although not studied, the coadministration of atazanavir with ritonavir and an additional protease inhibitor would be expected to increase exposure to the other protease inhibitor. Such coadministration is not recommended.	Macrolide antibiotics:	↑ clarithromycin	and Precautions (5.1)). Increased concentrations of clarithromycin may cause QTc prolongations;
	Musculoskeletal System Myalgia *None reported in this treatment arm.		4%	*		Hepatitis C Antiviral Agents elbasvir/grazoprevir	↑ grazoprevir	Coadministration of atazanavir with grazoprevir is contraindicated. The	clarithromycin	↓ 14·OH clarithromycin ↑ atazanavir	therefore, a dose reduction of clarithromycin by 50% should be considered when it is coadministered with atazanavir. In addition, concentrations of the active metabolite 14-OH clarithromycin are significantly reduced;
	 ^a Includes events of possible, probable, certain, or unl ^b Based on the regimen containing atazanavir. ^c Median time on therapy. 	known relationship to t	reatment regimen.			glecaprevir/pibrentasvir	↑ glecaprevir	resulting increase in grazoprevir plasma concentrations can lead to an increased risk of ALT elevations <i>(see Contraindications (4)).</i> Coadministration of atazanavir with glecaprevir/pibrentasvir is			consider alternative therapy for indications other than infections due to <i>Mycobacterium avium</i> complex. Coadministration of atazanavir with ritonavir and clarithromycin has not been studied.
ır	⁴ As a fixed-dose product. Laboratory Abnormalities in Treatment-Naive Subjec						↑ pibrentasvir	contraindicated. It may increase the risk of ALT elevations due to an increase in glecaprevir and pibrentasvir concentrations <i>[see Contraindications (4)]</i> .	<i>Opioids:</i> buprenorphine	↑ buprenorphine ↑ norbuprenorphine	Coadministration of buprenorphine and atazanavir with or without ritonavir increases the plasma concentration of buprenorphine and
	The nercentages of adult treatment-naive subjects										
ır	atazanavir 400 mg (without ritonavir) with Grade 3 to	o 4 laboratory abnorma	lities are presented in Tables	es 10 and 11, respectively.	300 mg with ritonavir 100 mg or tion." Study Al424-138	voxilaprevir/sofosbuvir/ velpatasvir Other Agents	↑ voxilaprevir	Coadministration with atazanavir is not recommended.			norbuprenorphine. Coadministration of atazanavir with ritonavir and buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buorenorphine may be considered.
r k		ties Reported in \geq 2%	lities are presented in Tables 6 of Adult Treatment-Naiv 96 weeks ⁶ azanavir capsules 300 mg	es 10 and 11, respectively. ve Subjects with HIV-1 Infecti 96 we ng with lopinavir/	tion," Study A1424-138 eeks ^{&} Iritonavir		↑ voxilaprevir	Coadministration with atazanavir is not recommended.			
ır k	atazanavir 400 mg (without ritonavir) with Grade 3 to	ties Reported in ≥ 2%	lities are presented in Tables 6 of Adult Treatment-Naiv 96 weeks ⁶	is 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with 400 mg/100 mg ⁺ tenofovir DF/e	ion," Study Al424-138 eeks [®] ritonavir (twice daily) and	Other Agents		Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4)). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir.	PDF5 inhibitors- sildonafil tadalafil vardenafil	↑sildenafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir with ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir and buprenorphine without ritonavir is not recommended.
r k o	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry	ties Reported in ≥ 2%	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁸ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabil (n=441)	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with lopinavir/ 400 mg/100 mg ⁺ tenofovir DF/e (n=4	tion," Study Al424-138 eeks [®] Iritonavir (twice daily) and amtricitabine [®]	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin	↑ alfuzosin	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/ <i>see Contraindications</i> (4)). Reduced plasma concentrations of atazanavir are expected if antacids,	PDE5 inhibitors: sildenafil, tadalafil, vardenafil	↑ sildenafil ↑ tadalafil ↑ vardenafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir with ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism.
or k g	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST ≥ SGPT/ALT ≥	ties Reported in ≥ 2% Limit ^e High ≥ 5.1 x ULN ≥ 5.1 x ULN	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁵ 12 navir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabii (n=441) 3% 3%	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with 400 mg/100 mg ⁺ tenofovir DF/e (n=4 1% 2%	tion," Study Al424-138 eeks ³ Iritonavir (twice daily) and amtricitabine ⁴ 137) <u>%</u>	Dther Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications	↑ alfuzosin	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/ <i>see Contraindications (4)</i>]. Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications.	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir with ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary atteriation (PAH): Coadministration of atazanavir with REVATIO [sildenafii] for the treatment of pulmonary hypertension (PAH) is contraindicated /see Contraindications (4)].
ır k g	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST 2 SGPT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2	ties Reported in $\geq 2\%$ Limit ^e High $\geq 5.1 \times ULN$ $\geq 2.6 \times ULN$ $\geq 2.5 \times ULN$ $\geq 2.5 \times ULN$	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁵ 12 navir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3%	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with lopinavir/ 400 mg/100 mg ⁺ tenofovir DF/e (n=4 1%	tion," Study Al424-138 eeks ^s Iritonavir (twice daily) and amtricitabine ⁴ 437) % %	Dther Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacritythmics: amiodarone, quinidine	↑ alfuzosin	Coadministration with atazanavir is not recommended.	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir with ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary aterial hypertension (PAH) : Coadministration of atazanavir with REVATIO (sidenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated <i>[see Contraindications (4]</i>). The following dose adjustments are recommended for the use of ADCIRCA [*] (tadalafi) with atazanavir.
ır k g	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry GGOT/AST 2 SGPT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology	ties Reported in ≥ 2% Limit* Ata 5.1 x ULN ≥ 2.5.1 x ULN ≥ 2.2.1 x ULN ≥ 2.1 x ULN ≥ 2.1 x ULN ≥ 2.1 x ULN ≥ 2.2 x ULN ≥ 2.4	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁶ azanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabir (n=441) 3% 3% 44% 2% 8% 11%	In the second se	tion," Study Al424-138 eeks ^b (ritonavir (twice daily) and matricitabine ^d 437) % % % % %	Dther Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications	↑ alfuzosin ↓ atazanavir ↑ amiodarone, bepridil,	Coadministration with atazanavir is not recommended.	<i>PDE5 inhibitors</i> : sildenafil, tadalafil, vardenafil	↑ tadalafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir with ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir with bue ritonavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary arterial hypertension (PAH): Coadministration of atazanavir with REVATIO" (sildenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated (see Contraindications (4)). The following dos adjustments are recommended for the use of ADCIRCA" (tadalafil) with atazanavir: Coadministration of ADCIRCA" in patients on atazanavir (with or without ritonavir): • For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA" at 20 mg once daily.
ır k g	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST 2 GGPT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology Neutrophils <7	ties Reported in ≥ 2% Limit* High ≥ 5.1 x ULN ≥ 2.6 x ULN ≥ 5.1 x ULN ≥ 5.1 x ULN ≥ 5.1 x ULN ≥ 5.1 x ULN ≥ 2.4 x ULN ≥ 2.4 x ULN	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁵ azanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 3% 44% 2% 8%	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with ag with ine ^c (n=4 (n=4 1% 2% 2% 2% 7%	tion," Study Al424-138 eeks ^b (ritonavir (twice daily) and matricitabine ^d 437) % % % % %	Dther Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacritythmics: amiodarone, quinidine	↑ alfuzosin ↓ atazanavir ↑ amiodarone, bepridil,	Coadministration with atazanavir is not recommended.	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atzanavir with intonavir is not expected to decrease atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir with buprenorphine without ritonavir is not recommended. Coadministration with atazanavir without ritonavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary atterial hypertension (PAH): Coadministration of atazanavir with REVATIO" (sildenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated/see Contraindications (4)). The following dose adjustments are recommended for the use of ADCIRCA" (tadalafil) with atazanavir. Coadministration of ADCIRCA" in patients on atazanavir (with or without ritonavir): • For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA" at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA" :
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST 2 SGPT/ALT 2 SGPT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology Neutrophils <7 * Based on the regimen containing atazanavir. * Median time on therapy. * Administered as affixed-dose product * A sa fixed-dose product	ties Reported in ≥ 2% Limit* High ≥ 5.1 x ULN ≥ 2.6 x ULN ≥ 2.1 x ULN ≥ 7.1 x ULN ≥ 7.1 x ULN ≥ 7.0 cells/mm ³	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ³ nzanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 3% 44% 2% 8% 11% 5%	In the second se	tion," Study Al424-138 eeks ^b (ritonavir (twice daily) and matricitabine ^d 437) % % % % %	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban,	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4)]. Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>(Isee Contraindications (4))</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Lution is warranted and therapeutic concentration monitoring of these drugs is recommended if they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening bedering and has not been studied. It is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atzanavir with ritonavir is not expected to decrease atzanavir ylasma concentrations. Coadministration of buprenorphine and atzanavir without ritonavir may decrease atzanavir plasma concentrations. The coadministration of atzanavir and buprenorphine without ritonavir is not recommended. Coadministration with atzanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary arterial hypotension (PAH): Coadministration of atzanavir with REVATIO "(sildenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated <i>(see Contraindications (AI)</i> . The following dose adjustments are recommended for the use of ADCIRCA" (tadalafil) with atzanavir: Coadministration of ADCIRCA" in patients on atzanavir (with or without ritonavir): • For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA" at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability. Coadministration of ADCIRCA" when starting atazanavir (with or without ritonavir). Stop ADCIRCA" when starting atazanavir (with or without ritonavir). Stop ADCIRCA" at a to use week after
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry GG07/AST SG07/AST SG07/ALT SG07/ALT SG07/ALT Creatine Kinase Creatine Kinase Total Bilirubin Lipase Creatine Kinase Total Cholesterol Hematology Neutrophils < 7 * Based on the regime containing atazanavir. * Median time on therapy. * Administered as affixed dose product	ties Reported in ≥ 2% Limit* Ata Limit* High ≥ 5.1 x ULN ≥ 1.5 x ULN ≥ 1.5 x ULN ≥ 1.5 x ULN ≥ 1.5 x ULN ≥ 1.4 ULN ≥ 1.4 ULN ≥ 2.0 mg/dL Low 750 cells/mm ³ mg emtricitabine once c alities Reported in ≥	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ³ izanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabil (n=441) 3% 3% 44% 2% 8% 11% 5% faily. 2% of Adult Treatment	t-Naive Subjects with HIV-1 Infection 10 and 11, respectively. 10 and 10 and	tion," Study AI424-138 eeks" Iritonavir (twice daily) and amtricitabine" 1377) 1370 136 1370 1370 1370 136 1370 1370 1370 1370 1370 1370 1370 1370	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antainterney Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amidoarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>l/see Contraindications (4/)</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended if they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. It is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DOAC that could lead to an increased risk of bleeding. Refer to the respective DOAC prescribing information regarding dosing instructions for coadministration with P-gp inhibitors.	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	 buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atzanavir with tritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atzanavir without ritonavir any decrease atazanavir plasma concentrations. The coadministration of atzanavir without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary arterial hypertension (PAH): Coadministration of atazanavir with REVATIO "sidlenafil for the treatment of pulmonary hypertension (PAH) is contraindicated /see Contraindications (AI). The following dose adjustments are recommended for the use of ADCIRCA" (tadalafil) with atazanavir: Coadministration of ADCIRCA" in patients on atazanavir (with or without ritonavir): For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA at 20 mg once daily. Increase to 400 mg once daily based on individual tolerability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA": Avoid the use of ADCIRCA at least 24 hours before starting atazanavir (with or without ritonavir), nesume ADCIRCA at 20 mg once daily. Increase to 400 mg once daily based on individual tolerability.
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry GG0T/AST Chemistry GG0T/AST Chemistry GG0T/ALT Chemistry Creatine Kinase Creatine Kinase Total Bilirubin Chemistry Hematology Hematology Neutrophils Creatine Kinase Total Cholesterol Hematology Neutrophils Creatine Kinase Creatine Kinase Creatine Kinase Total Cholesterol As a fixed-dose product As a fixed-dose product As a fixed-dose product Command Challetter Challetter Challetter Challetter Chemistry Creatine Kinase Creatine Kinase Creatine Kinase Creatine Kinase Creatine Kinase Creatine Kinase Chemistry Chemis	ties Reported in ≥ 2% Limit* Ata High ≥ 5.1 x ULN ≥ 1.5 x ULN ≥ 4.0 mg/dL Low 750 cells/mm ³ mg emtricitabine once of alities Reported in ≥ Study A 64 weeks ⁸ zanavir capsules	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ³ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabil (n=441) 3% 3% 3% 2% 8% 11% 5% laily. 2% of Adult Treatment 1424-034 64 weeks ³ efavirenz	t-Naive Subjects with HIV-1 studies Al42 120 weeks [*] , ⁴ tau subjects with HIV-1 Infecti 96 we 10pinavir/ 400 mg/100 mg ⁺ tenoforir DF/e (n=4 (n=4 (n=4 1% 2% 2% 1% 120 weeks [*] , ⁴ Atazanavir capsules	tion," Study Al424-138 eeks" Iritonavir (twice daily) and mrtricitabine" 137) % % % % % % % % Infection," Studies Al424-034, 24-007,-008 73 weeks" nelfinavir 750 mg TID or	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban,	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4)). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amidoarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias //see Contraindications (4)). Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended if they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. It is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DOAC prescribing information regarding dosing instructions for coadministration with P-gp inhibitors. Coadministration of atazanavir with ritonavir and rivaroxaban is not recommended. Concomitant treatment with agents that are combined Pglycoprotein (Pg) strong CYP3A4 inhibitors.	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	 buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atzanawir withotur ritonawir is not expected to decrease atazanawir plasma concentrations. Coadministration of buprenorphine and atzanawir without ritonawir may decrease atazanawir plasma concentrations. The coadministration of atzanawir without ritonawir is not recommended. Coadministration with atazanawir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary arterial hypotension (PAH): Coadministration of Atzanawir with REVATIO (sildenafil) for the treatment of pulmonary hypertension (PAH): contraindicated /see Contraindications (4)). The following dose adjustments are recommended for the use of ADCIRCA[*] (tadalafil) with atazanawir (with or without ritonawir): For patients receiving atazanawir (with or without ritonawir) for at least one week, start ADCIRCA[*] at 20 mg once daily. Increase to 400 mg once daily based on individual tolerability. Coadministration of atazanawir (with or without ritonawir) atazanawir (with or without ritonawir). Avoid the use of ADCIRCA[*] at least 24 hours before starting atazanawir (with or without ritonawir). Avoid the use of ADCIRCA[*] at least 20 me week after starting atazanawir (with or without ritonawir). Use OFPDES inhibitors for erectile dysfunction: Use OFPDES inhibitors for erectile dysfunction: Use VIAGRA[*] (sildenafil) with caution at reduced doses of 25 mg every 48 hours with increase to nonitoring for adverse events.
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST 2 SGPT/ALT 2 SGPT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology Neutrophils <7 * Administered as affixed dose product * ULN – upper limit of normal. Table 11: Grade 3 to 4 Laboratory Abnorma Al424-007, and Al424-008	ties Reported in ≥ 2% Limit" High ≥ 5.1 x ULN ≥ 1.5 x ULN ≥ 1.5 x ULN ≥ 1.5 x ULN ≥ 1.5 x ULN ≥ 2.6 x ULN ≥ 1.5 x ULN ≥ 2.0 x ULN ≥ 1.5 x ULN ≥ 2.0 x ULN ≥ 1.5 x ULN ⇒ 1.5	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁶ azanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 3% 44% 2% 8% 11% 5% 11% 5% laily. 2% of Adult Treatment- 1424-034 64 weeks ⁶	t-Naive Subjects with HIV-1 st Unders Alagories and the set of th	lion,* Study Al424-138 eeks* (ritonavir (twice daily) and emtricitabine* 337) % % % % % % % % % % % % % % % % % % %	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antainterney Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban	 ↑ alfuzosin ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir 	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4)). Reduced plasma concentrations of atazanavir are expected if antacids, including butfferd medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias //see Contraindications (4)). Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended if they are used concomitantly with atazanavir. Coadministration with atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DDAC prescribing information regarding dosing instructions for coadministration with P-gp inhibitors. Coadministration of atazanavir with ritonavir and rivaroxaban is not recommended. Coadministration of atazanavir with ritonavir and rivaroxaban is not recommended. Doromitant treatment with agents that are combined Pglycoprotein (P-gp) strong CYP3A4 inhibitors, such as ritonavir, increase exposure to rivaroxaban and may increase risk of bleeding.	<i>PDE5 inhibitors:</i> sildenafil, tadalafil, vardenafil	↑ tadalafil	 buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir withotur ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for pulmonary arterial hypertension (PAH): Coadministration of Atazanavir with REVATIO (sidlenafil) for the treatment of pulmonary hypertension (PAH): coadministration of ADCIRCA[*] in patients on atazanavir (with or without ritonavir). For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA[*] at 20 mg once daily. Increase to 4D org once daily based on individual loterability. Coadministration of atazanavir (with or without ritonavir) for at least one week to restart at least 24 hours before starting atazanavir (with or without ritonavir). Avoid the use of ADCIRCA[*] when starting atazanavir (with or without ritonavir). Avoid the use of ADCIRCA[*] when starting atazanavir (with or without ritonavir). Movid he use of ADCIRCA[*] at least 24 hours before starting atazanavir (with or without ritonavir), in patients on ADCIRCA[*] at 20 mg once daily. Increase to 40 mg once daily based on individual loterability. Use OIABAK (Sidlenafii) with caution at reduced doses of 25 mg every 48 hours with increased monitoring for adverse events. Use CIALIS[*] (tadalafil) with caution at reduced doses of 10 mg every 72 hours with increased monitoring for adverse events.
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SG07/AST 2 Total Bilrubin 2 Creatine Kinase 2 Total Bilrubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology Neutrophils <7 * Administered as affixed-dose product * As a fixed-dose product * As a fixed-dose product * ULN – upper limit of normal. Table 11: Grade 3 to 4 Laboratory Abnorma Al424-007, and Al424-008	ties Reported in ≥ 2% Limit* High ≥ 5.1 x ULN ≥ 1.1 x ULN ≥ 2.1 x ULN ≥ 2.1 x ULN ≥ 2.1 x ULN ≥ 2.1 x ULN ≥ 1.1 x	lities are presented in Tables 6 of Adult Treatment-Naiv 96 weeks ³ izanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 3% 44% 2% 8% 11% 5% 2% 5% 11% 5% 2% 64 weeks ³ efavirenz 600 mg once daily and lamvorenz 600 mg once daily and lamvorenz 600 mg once daily and lamvorenz 600 mg once daily	t-Naive Subjects with HIV-1 Infecti 9 with 10pinavir/ 400 mg/100 mg/10	lion," Study Al424-138 eeks" iritonavir (twice daily) and mutricitabine" 137) 136 136 136 136 136 136 136 136 136 136	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antainterney Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>(Isee Contraindications (4))</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended lif they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Laution is warranted and therapeutic concentration monitoring of these drugs is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/IP-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DDAC ther could lead to an increased risk of bleeding. Refer to the respective DDAC prescribing information regarding dosing instructions for coadministration with P-gp inhibitors. Coadministration of atazanavir with ritonavir and rivaroxaban is not recommended. Concomitant treatment with agents that are combined Pglycoprotein (P-gp) strong CYP3A4 inhibitors, such as ritonavir, increase exposure to rivaroxaban and may increase risk of bleeding.	PDE5 inhibitors: sildenafil, tadalafil, vardenafil	↑ tadalafil	 buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir withotur ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and ataznavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitor start is contraindicated <i>fsee Contraindications (PAH)</i>: Coadministration of fatzanavir with REVATIO (sidlenafi) for the treatment of pulmonary hypertension (PAH): Coadministration of ADCIRCA⁺ in patients on atazanavir (with or without ritonavir). For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA⁺ at 20 mg once daily. Increase to 40 mg once daily based on individual loterability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA⁺ at least one week, after starting atazanavir (with or without ritonavir). Avoid the use of ADCIRCA⁺ when starting atazanavir (with or without ritonavir). Lose of PDE5 inhibitors for execting Aysenctona: Use VIAGRA⁺ (sidlenafii) with caution at reduced doses of 25 mg every 48 hours with increased monitoring for adverse events. Use IALIS⁺ (tadalafii) with caution at reduced doses of 10 mg every 72 hours with increased monitoring for adverse events. 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	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST SGOT/AST SGOT/AST Lipase Creatine Kinase Total Bilrubin Chemistry Neutrophils Creatine Kinase Total Cholesterol Hematology Neutrophils Call Hematology Neutrophils Call Hematology Neutrophils Call Hematology As a fixed-dose product Call Hematology Call Hematol	ties Reported in ≥ 2% Limit* High ≥ 5.1 x ULN ≥ 1.1 x ULN ≥ 1.1 x ULN ≥ 2.1 x ULN ≥ 2.1 x ULN ≥ 2.4 x ULN ≥ 2.4 x ULN ≥ 1.1 x ULN ≥ 1.1 x ULN ≥ 1.1 x ULN ≥ 1.1 x ULN ≥ 4.0 mg/dL Low 750 cells/mm³ mg emtricitabine once d alities Reported in ≥ Study A 64 weeks ⁸ zanavir cepsules 10 mg once daily	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁶ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabir (n=441) 3% 3% 44% 2% 8% 11% 5% 8% 11% 5% 8% 44% 2% 6% 64 weeks ⁶ efavirenz 60 mg once daily and lamivudine/	t-Naive Subjects with HIV-1 Infecti 9 with 10 pinavir/ 400 mg/100 mg' 100 mg' 10	lion," Study Al424-138 eeks" (twice daily) and matricitabine" 137) 136 136 136 136 136 136 136 136 136 136	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antainterney Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban	 ↑ alfuzosin ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir 	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindications (4]]</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended fif they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. Laution is warranted and therapeutic concentration monitoring of these drugs is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/IP-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DDAC prescribing information regarding dosing instructions for coadministration with P-gp inhibitors. 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Use of PDE5 inhibitors for pulmonary arterial hypertension (PAH): Coadministration of Atazanavir with REVATIO (sildenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated /see Contraindications (4/). The following dose adjustments are recommended for the use of ADCIRCA[*] (tadalafil) with atazanavir: For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA[*] at 20 mg once daily. Increase to 4D mg once daily based on individual tolerability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA[*]: Avoid the use of ADCIRCA[*] when starting atazanavir (with or without ritonavir). Use of ADCIRCA[*] at least 24 hours before starting atazanavir (with or without ritonavir). Use OFAPE5 inhibitors for erectile dysfunction: Use VIAGRA[*] (sidenafil) with caution at reduced doses of 25 mg every 48 hours with increased monitoring for adverse events. Atazanavir is use vardenafil with caution at reduced doses of 10 mg every 72 hours with increased monitoring for adverse events. Razanavir with ritonavir use vardenafil with caution at reduced doses of no more than 2.5 mg every 72 hours with increased monitoring for adverse reactions.
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST 2 SGOT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology Neutrophils < 7 * Based on the regimen containing atazanavir. * Median time on therapy. * Administered as affixed-dose product * As a fixed-dose product : 300 mg tenofovir DF, 2001 * ULN – upper limit of normal. Table 11: Grade 3 to 4 Laboratory Abnorma Al424-007, and Al424-008 Variable Limit ⁴ Chemistry High SGOT/AST 2 5.1 x ULN SGPT/ALT 2 5.1 x ULN Total 2 2.6 x ULN	ties Reported in ≥ 2% Limit* Ata Limit* Ata 5.1 x ULN ≥ 2.6 x ULN ≥ 2.1 x ULN ≥ 2.0 x ULN ≥ 2.0 x ULN ≥ 2.0 x ULN ≥ 2.0 x ULN ≥ 2.1 x ULN ≥ 2.0 x ULN ≥ 2.0 x ULN ≥ 2.1 x ULN ≥ 2.0 x ULN ≥ 2.0 x ULN ≥ 2.1 x ULN ≥ 2.0 x ULN	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁶ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabir (n=441) 3% 3% 44% 2% 8% 11% 5% 5% faily. 2% of Adult Treatment 424-034 64 weeks ⁶ efavirenz 600 mg once daily and lamivudine/ zidovudine ⁶ (n=401)	t-Naive Subjects with HIV-1 struties At42 tazanavir capsules 400 mg/100 mg (tenofovir DF/e (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4)	lion," Study Al424-138 eeks" iritonavir (twice daily) and mitricitabine" 437) % % % % % % % % % % % % % % % % % % %	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ dabigatran ↑ dabigatran ↑ dababan Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ rivaroxaban	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindications (4/)</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended lif they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. It is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/IP-gp inhibitors, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DDAC prescribing information regarding dosing instructions for coadministration with P-gp inhibitors. Coadministration of atazanavir with ritonavir and rivaroxaban is not recommended. Concomitant treatment with agents that are combined Pglycoprotein (P-gp) strong CYP3A4 inhibitors, such as ritonavir, increase exposure to rivaroxaban and may		↑ tadalafil ↑ vardenafil	 buprenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of buprenorphine may be considered. Coadministration of buprenorphine and atazanavir without ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of buprenorphine and atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir without ritonavir may decrease atazanavir plasma concentrations. The coadministration of atazanavir and buprenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and priapism. Use of PDE5 inhibitors for plumonary arterial hypertension (PAH): Coadministration of atazanavir with REVATIO (sidlenafi) for the treatment of pulmonary hypertension (PAH) is contraindicated /see Contraindications (4//). The following dose adjustments are recommended for the use of ADCIRCA[*] (tadalafii) with atazanavir: For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA[*] at 20 mg once daily. Increase to 4D mg once daily based on individual tolerability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA[*]: Avoid the use of ADCIRCA[*] when starting atazanavir (with or without ritonavir). In patients on ADCIRCA[*]: Avoid the use of ADCIRCA[*] at least 24 hours before starting atazanavir (with or without ritonavir), resume ADCIRCA[*] at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability. Use OLARAF, Sidlenafii) with caution at reduced doses of 25 mg every 48 hours with increased monitoring for adverse events. Ruzanavir with ritonavir use vardenafii with caution at reduced doses of 10 mg every 72 hours with increased monitoring for adverse
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Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>(Isee Contraindications /4/)</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DOAC prescribing information regarding dosing instructions for coadministration with agents that are combined Pglycoprotein (P-gp) strong CYP3A4 inhibitors, such as ritonavir, increase exposure to rivaroxaban and may increase risk of bleeding. Close monitoring is recommended when atazanavir is coadministration with ritonavir, a strong CYP3A4/P-gp inhibitor, with apataban may reset risk of bleeding. Refer to trivaroxaban. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with apataban may increase risk of bleeding. 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Use of PDE5 inhibitors for pulmonary arterial hypertension (PAH): Coadministration of Atazanavir with REVATIO (sidlenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated /see Contraindications (A)// The following dose adjustments are recommended for the use of ADCIRCA[*] (tadafafil) with atazanavir: For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA[*] at 20 mg once daily. Increase to 4D mg once daily based on individual loterability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA[*]: Avoid the use of ADCIRCA[*] when starting atazanavir (with or without ritonavir). It patients on aDCIRCA[*]: Avoid the use of ADCIRCA[*] at least 24 hours before starting atazanavir (with or without ritonavir), resume ADCIRCA[*] at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability. 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	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SGOT/AST 2 SGOT/ALT 2 Total Bilirubin 2 Lipase 2 Creatine Kinase 2 Total Cholesterol 2 Hematology Neutrophils < 7 * Based on the regimen containing atazanavir. * Median time on therapy. * Administered as affixed-dose product * As a fixed-dose product: * Addina time on therapy. * Administered as affixed-dose product * As a fixed-dose product: * Addina time on therapy. * Table 11: Grade 3 to 4 Laboratory Abnorma At424-007, and At424-008 Variable Limit ⁴ Chemistry High SGOT/AST 2 5.1 x ULN SGPT/ALT 25.1 x ULN Total 22.6 x ULN Bilirubin	ties Reported in ≥ 2% Limit* Ata Limit* High ≥ 5.1 x ULN ≥ 5.1 x ULN ≥ 1.4 x ULN ≥ 1.4 x ULN ≥ 1.4 x ULN ≥ 2.6 x ULN ≥ 2.6 x ULN ≥ 2.6 x ULN ≥ 2.1 x ULN ≥ 5.1 x ULN ≥ 5.1 x ULN ≥ 5.1 x ULN ≥ 1.4 x ULN = 1.4 x	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ¹ zzanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabil (n=441) 3% 3% 44% 2% 8% 11% 5% 44% 2% 5% 44% 2% 6% 8% 11% 5% 44% 2% 8% 11% 1% 5% 44% 2% 3% 44% 2% 3% 44% 2% 3% 44% 2% 3% 44% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 2% 44% 44	te Naive Subjects with HIV-1 studies AI42 120 weeks ⁵ , ² Atzanavir capsules 400 mg once daily with stavudine and didanosine (n = 279) 7% 9% 407% 400 mg once daily 120 weeks ⁵ , ² 400 mg once daily 120 with stavudine 120 weeks ⁵ , ² 400 mg once daily 120 weeks ⁵ , ² 400 mg once daily	Infection,* Studies Al424-034, % % % % % % % % % % % % %	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban		Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>(Isee Contraindications (4))</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended if they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. It is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/IP-qp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DDAC that could lead to an increased risk of bleeding. Refer to the respective DDAC that could lead to an increased risk of bleeding. Concomitant treatment with agents that are combined Pglycoprotein (P-gp) strong CYP3A4 inhibitor, and rivaroxaban may result in increased increase exposure o rivaroxaban and may increase erisk of bleeding. 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Atazanavir With ritonavir: Use vardenafil with caution at reduced doses of 10 mg</td>	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including butfered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias //see Contraindications (4/). Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. 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	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SG0T/AST 2 SG0T/ALT 2 Uipase 2 Creatine Kinase Total Cholesterol 2 Hematology Neutrophils <7 * Based on the regimen containing atazanavir. * Median time on therapy. * Administered as affixed dose product * As a fixed-dose product * As a fixed-dose product * As a fixed-dose product * Administered as affixed dose product * As a fixed-dose product * As a fixed-dose product * Dulta 3 to 4 Laboratory Abnorma Al424-007, and Al424-008 Variable Limit ⁴ Chemistry High SG0T/AST 25.1 x ULN SGPT/ALT 25.1 x ULN SGPT/ALT 25.1 x ULN Total 2.2.6 x ULN Bilirubin Amylase 2.1 x ULN Creatine 2.1 x ULN Creat	a 4 laboratory abnorma ties Reported in ≥ 2% Limit"	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁶ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 3% 44% 2% 8% 11% 5% 11% 5% 44% 2% 8% 11% 5% 60 mg once daily and lamivudine/ zidovudine ⁶ (n=401) (n=401) 2% 3% <1% 5%	t-Naive Subjects with HIV-1 Studies AI42 120 weeks [*] , Atzanavir capsules 400 mg or di 1% 1% 1% 1% 1% 120 weeks [*] , Atazanavir capsules 400 mg once daily with stavudine and dianosine (n=279) 7% 9% 47% 14% 4% 19%	Liton,* Study AI424-138 eeks* (twice daily) and matricitabine* 1377) % % % % 10% % % 24-007, -008 73 weeks* nelfinavir 750 mg TID or 1250 mg BID with starvudine and didanosine (n=191) 5% 7% 3% 10% 5% 9% 48% 2%	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antaintrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants	<pre>↑ alfuzosin</pre>	Coadministration with atazanavir is not recommended. Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>(Isee Contraindications /4/)</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. 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Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (4). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindications (41)</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. 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Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/see Contraindications (41). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindications (41).</i> Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. 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Table 11: Grade 3 to 4 Laboratory Abnorma AI424-007, and AI424-008 Variable Limit ⁴ Chemistry High SGOT/AST ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN Creatine ≥ 5.1 x ULN Dirubin ≥ Amylase ≥ 2.1 x ULN Creatine ≥ 5.1 x ULN Kinase Total ≥ 240 mg/dL Cholesterol Triglycerides ≥ 751 mg/dL Hematology Low Hemoglobin <8.0 g/dL Neutrophils <750 cells/mm ³ * None regimen(s) containing atazanavir. * Median time on therapy. * Includes long-term follow-up. * ULN – upper limit of normal. * As a fixed-dose product: 150 mg lamivudine, 300 mg	ties Reported in ≥ 2% Limit* L	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁶ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabir (n=441) 3% 3% 44% 2% 8% 11% 5% 5% faily. 2% of Adult Treatment 424-034 64 weeks ⁶ efavirenz 600 mg once daily and lamivudine/ zidovudine ⁶ (n=401) 2% 3% < 1% 6% 1% 6% 24%	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with ine" 96 we lopinavir/ 400 mg/100 mg ' (tenofovir DF/e (n=4 (n=4 (n=4 1% 2% 2% t-Naive Subjects with HIV-1 Studies AI42 120 weeks",: Atazanavir capsules 400 mg once daily with stavudine and dianosine (n=279) 7% 9% 47% 14% 4% 11% 19% 4%	Liton,* Study AI424-138 eeks* iritonavir (twice daily) and amtricitabine* 337) 337) 337) 437) 5% 73 weeks* nelfinavir 750 mg TID or 1250 mg BID with stavudine and lamivudine or with stavudine and didanosine (n=191) 5% 7% 3% 10% 5% 9% 48% 48%	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antaintrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants trazodone	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir ↑ rivaroxaban Atazanavir ↑ apixaban ↑ tricyclic antidepressants ↑ trazodone ↑ atazanavir	Coadministration with atazanavir is not recommended. 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For patients receiving atazanavir (with or without ritonavir) for at least one week, start ADCIRCA[*] at 20 mg once daily. Increase to 40 mg once daily hased on individual loterability. Coadministration of atazanavir (with or without ritonavir) in patients on ADCIRCA[*]. Avoid the use of ADCIRCA[*] when starting atazanavir (with or without ritonavir). The top once daily hased on individual loterability. Use OFPDE5 inhibitors for erectile dysfunction: Use VIARK, Gildenafil) with caution at reduced doses of 10 mg every 24 hours with increased monitoring for adverse events. Use VIARK, Gildenafil) with caution at reduced doses of 10 mg every 24 hours with increased monitoring for adverse events. Mazanavir (with ritonavir). Sue vardenafil with caution at reduced doses of 10 mg every 24 hours with increased monitoring for adverse reaction
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Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypetension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>[Isse Contraindications (4/).</i> Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Caution is warranted and therapeutic concentration monitoring of these drugs is recommended if they are used concomitantly with atazanavir. Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. It is recommended tha International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased exposure of the respective DDAC tracersing information regarding dosing instructions for coadministration with Pg gi nhibitors. Coadministration of atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, ed exposure of aviaxaban resposure of reversposure to irvarxaban and may increase risk of bleeding. 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In the U.S. g	 burenorphine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of burenorphine may be considered. Coadministration of burenorphine and atazanavir without ritonavir is not expected to decrease atazanavir plasma concentrations. Coadministration of burenorphine without ritonavir is not recommended. Coadministration with atazanavir without ritonavir is not may decrease atazanavir plasma concentrations. The coadministration of atazanavir and burenorphine without ritonavir is not recommended. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor stor pulmonary hypertension (PAH): Coadministration of atazanavir with REVATIO (sidenafil) for the treatment of pulmonary hypertension (PAH) is contraindicated (see Contraindications (AH). 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Table 11: Grade 3 to 4 Laboratory Abnorma At424-007, and Al424-008 Variable Limit ⁴ Chemistry Higgh SGD7/AST ≥ 5.1 x ULN SGP7/ALT ≥ 5.1 x ULN SGP7/ALT ≥ 5.1 x ULN Total ≥ 2.6 x ULN Bilirubin Amylase ≥ 2.1 x ULN Lipase ≥ 2.1 x ULN Creatine ≥ 5.1 x ULN Creatine ≥ 751 mg/dL Hematology Low Hemoglobin < 8.0 g/dI Neutrophils <750 cells/mm ³ * None reported in this treatment arm. * Based on regimen(5) containing atazanavir. * Median time on therapy. * Includes long-term follow-up. * ULN - upper limit of normal. * As a fixed-dose product: 150 mg lamivudine, 300 mg Change in Lipids from Baseline in Teatment-Naire Su For Study Al424-138 and Study Al424-034, change 13, respectively.	a 4 laboratory abnorma ties Reported in ≥ 2% Limit* 4ta 25.1 × ULN ⇒ 5.1 × ULN ⇒ 2.6 × ULN ⇒ 2.6 × ULN ⇒ 2.1 × ULN	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ³ izanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 444% 2% 8% 11% 5% laily. 2% of Adult Treatment 1424-034 64 weeks ³ efavirenz 600 mg once daily and lamivudine/ zidovudine ⁵ (n=401) 2% 3% 44% 2% 3% 44% 3% 5% 44% 3% 5% 44% 3% 5% 5% 44% 44% 2% 5% 44% 2% 3% 5% 44% 44% 44% 2% 5% 44% 3% 5% 5% 44% 44% 3% 5% 5% 44% 44% 2% 5% 5% 44% 2% 5% 44% 3% 5% 5% 44% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 2% 5% 44% 5% 44% 2% 5% 44% 44% 2% 5% 44% 2% 64 weeks ³ 64 weeks ³ 64 weeks ³ 64 weeks ³ 600 mg once daily and lamivudine/ 2% 3% 5% 44% 44% 44% 44% 44% 44% 44%	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti gg with 96 weillopinavir/l 400 mg/100 mg* (l tenofovir DF/e ine* (n=4 (n=4 1% 2% 2% 1 2% 2 2% 2 2% 2 2% 2 2% 2 2% 2 2% 2 2% 2 2% 2 2% 120 weeks*, 420 mg once daily with stavudine and lamivudine or with stavudine and didanosine 7% 9% 47% 11% 14% 4% 11% 19% 4% 11%	iion,* Study Al424-138 eeks* iritonavir (twice daily) and amtricitabine* 137) % 10% 5% 9% 48% 2% 4% 7% 2% 4% 7% 2% 4% 7% 2% 4% <	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants trazodone Antiepileptics: carbamazepine	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir ↑ rivaroxaban Atazanavir ↑ apixaban ↑ tricyclic antidepressants ↑ trazodone ↑ atazanavir ↓ carbamazepine ↓ atazanavir	Coadministration with atazanavir is not recommended. 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Use VIAGA[*] (sidelanafil) with caution at reduced doses of 10 mg every 72 hours with increased
	atazanavir 400 mg (without ritonavir) with Grade 3 to Table 10: Grade 3 to 4 Laboratory Abnormalit Variable Chemistry SG0T/AST SGPT/ALT SG0T/AST SGPT/ALT Total Bilirubin Lipase Creatine Kinase Total Cholesterol Hematology Neutrophils Atain time on therapy. Administered as a ffixed-dose product As a fixed-dose product: 300 mg tenofovir DF, 200 r Median time on therapy. Administered as a ffixed-dose product As a fixed-dose product: 300 mg tenofovir DF, 200 r ULN – upper limit of normal. Table 11: Grade 3 to 4 Laboratory Abnorma At424-007, and Al424-008 Variable Limit ⁴ Chemistry High SG0T/AST SG0T/AST SG1/AST	a 4 laboratory abnorma ties Reported in ≥ 2% Limit* 4ta Elimit* 4ta 25.1 × ULN 2 2.6 × ULN 2 2.6 × ULN 2 2.1 × ULN	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ³ izanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 444% 2% 8% 11% 5% laily. 2% of Adult Treatment 1424-034 64 weeks ³ efavirenz 600 mg once daily and lamivudine/ zidovudine ⁵ (n=401) 2% 3% 44% 2% 3% 44% 3% 5% 44% 3% 5% 44% 3% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti gg with 96 we lopinavir// 400 mg/100 mg', tenofovir DF/e ine* (n=4 (n=4) (1) (2%) (2%) (10) (2%) (2%) (2%) (10) (2%) (10) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (120) (2%) (111%) (2%) <td< td=""><td>iion," Study Al424-138 eeks" iritonavir (twice daily) and mitricitabine" 1337) % 10% 5% 9% 48% 2% 4% 7% 2% 4% 7% 2% 4% 7% 2% 4%</td><td>Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants trazodone Antiepileptics: carbamazepine</td><td>↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ dabigatran ↑ dababan Atazanavir with ritonavir ↑ rivaroxaban Atazanavir ↑ rivaroxaban Atazanavir ↑ apixaban ↑ tricyclic antidepressants ↑ trizcodone ↑ trazodone ↓ atazanavir ↓ phenytoin</td><td>Coadministration with atazanavir is not recommended. 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Caadministration of atazanavir with affuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/See Contraindications (All). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavis hould be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for publications (All). Coadministration with atazanavir has the potential to produce serious and/or life-threatening actions such as cardiac arrhythmias [Isse Contraindications (All). Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. Caution is waranted and therapeutic concentratint wath atazanavir. Coadministration with atazanavir with ritonavir, a strong CYP3A4/P-gp inhibitor, with either betrixaban, dabigatran, or edoxaban may result in increased sposure of the respective DDAC that could lead to an increased risk of bleeding. Refer to the respective DDAC that could lead to an increase exposure to rivaroxaban. Coadministration of atazanavir, with ritonavir, and rivaroxaban may result in increased increase exposure to trivaroxaban and may increase deposure to rivaroxaban and may increase deposure to rivaroxaban and may result in increased exposure of apixabah, which could lead to an increased rice adprixibabe. Coadministration of atazanavir, with ritonavir, a strong CYP3A4/P-gp inhibitor, with apixaban may result in increased exposure of apixabah, which could lead to an increased risk of bleeding. Coadministration with atazanavir. Concomitant use of atazanavir, aCYP3A4 inhibitor, and apixaban may result in increased exposure to rivaroxaban and may increase deposure of trivaroxaban. Concomitant use of atazanavir with ritonavir, a strong CYP3A4 inhibitors in the apix	For magnitude of interactions see <i>Clinical Pharmacology</i> * For magnitude of interactions see <i>Clinical Pharmacology</i> * See <i>Contraindications (4), Table 6</i> for orally administered * In combination with atazanavir 300 mg and ritonavir 10 * In combination with atazanavir 300 mg and ritonavir 10 * In combination with atazanavir 300 mg and ritonavir 10 * In combination with atazanavir 400 mg once adult. 7.4 Drugs with No Observed Interactions with Ata No clinically significant drug interactions with Ata Nataranavir has been evaluated in a limited number of worm miscarriage in clinically recognized pregnancies is 2 to 49 the atazanavir exposures were 0.7 to 1.2 times of these administered torats during pregnancy and the Postpartum <i>I Dase Adjustments during Pregnancy and the Postpartum II Atazanavir muss</i> be administered with ritomavir ing <i>Atazanavir muss</i> be administered with ritomavir ing <i>For prepare tratemets, posage adjustment is reg or tenofovir DF</i> , atazanavir 400 mg with if	tadalafil ↑ vardenafil ↑ vardenafil ↓ atazanavir ↓ at	hyperenorphine warrants clinical monitoring for sedation and cognitive offects. A dose reduction of buprenorphine and atzaanavir with intronavir is not expected to decrease atzanavir plasma concentrations. Coadministration of buprenorphine and atzaanavir without ittonavir may decrease atzanavir plasma concentrations. The coadministration of atzaanavir and buprenorphine without intonavir is not recommended. Coadministration with atzaanavir has not been studied but may result in an increase in PDE5 inhibitor associated adverse reactions, including hypotension, syncope, visual disturbances, and priepism. Use of PDE5 inhibitors for pulmonary arterial hyportension (PAH): Coadministration of atzaanavir with REVATIO (sidenafii) for the treatment of pulmonary hypertension (PAH) is contraindicated <i>See Contraindications (41)</i> . The following does adjustments are recommended for the use of ADCIRCA [*] (tadalafii) with atzaanavir. Coadministration of ADCIRCA [*] in patients on atzanavir (with or without ritonavir): To a for patients receiving atzaanavir (with or without ritonavir) for at least one week, start ADCIRCA [*] at 20 mg once daily. Increase to 40 mg once daily based on individual tolerability. Coadministration of atzanavir (with or without ritonavir) in patients on ADCIRCA [*] . 2. Avoid the use of ADCIRCA [*] when starting atzanavir (with or without ritonavir). Stop ADCIRCA [*] at least 24 hours before starting atzanavir (with or without ritonavir), resume ADCIRCA [*] at 20 mg once daily. 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Coadministration of atazanavir with alfuzosin is contraindicated. The resulting increase in alfuzosin plasma concentrations can lead to hypotension/ace Contraindications (4)). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic exposure of either quinidine or amiodarone, which may result in serious of life-threatening reactions such as cardiac arrhythmias //see Contraindication (4/). Coadministration with atazanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. 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Mazanavir (With adverse) adverse even</td>	iion," Study Al424-138 eeks" iritonavir (twice daily) and mitricitabine" 1377 % 10% 5% 7% 3% 9% 48% 2% 44% 7% 44% 7% 10 410 7% 3357) (n=2917)	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antiepileptics: carbamazepine Antiepileptics: carbamazepine Iamotrigine	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir ↑ rivaroxaban Atazanavir ↑ apixaban ↑ tricyclic antidepressants ↑ trizzodone ↑ atazanavir ↓ atazanavir ↓ phenytoin ↓ phenobarbital	Coadministration with atazanavir is not recommended. 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Coadministration with atazanavir has the potential to produce serious and/or life-threatening bleeding and has not been studied. It is recommended that International Normalized Ratio (INR) be monitored. Concomitant use of atazanavir with ritonavir, a strong CYP3A4P-gp inhibitor, with either betrixaba, dabigatra, or prescribing information regarding dosing instructions for coadministration with P-gp inhibitors. Coadministration of atazanavir, a CYP3A4 inhibitor, and rivaroxaban may result in increase dincease exposure to rivaroxaban and may increase risk of bleeding. Close monitoring is recommended when atazanavir is coadministration with strong CYP3A4 inhibitor, and rivaroxaban may result in increased exposure of atazanavir, a CYP3A4 inhibitor, and riyaroxaban may result in increased exposure of atazanavir, a CYP3A4 inhibitor, and apixaban may result in increase diress of bleeding. Close monitoring is recommended when atazanavir is coadministered with atazanavir.	Proton-pump inhibitors: omeprazole * For magnitude of interactions see Clinical Pharmacology * See Contraindications (4), Table 6 for orally administered * In combination with atazanavir 300 mg and ritonavir 10 * In combination with atazanavir 300 mg and ritonavir 10 * In combination with atazanavir 400 mg once aduly. 7.4 Drugs with No Observed Interactions with Ata No clinically significant drug interactions were observed reverse transcriptase inhibitors lamivudine or zidovudine/ 8 USEIN SPECIFIC POPULATIONS 8.1 Pregnancy Pregnancy Exposure registry that monitors preregister patients by calling the Antiretroviral Pregnancy R Risk Summary A tazanavir has been evaluated in a limited number of worm miscarriage in clinically reognized pregnancies is 2 to 4% the atazanavir exposures were 0.7 to 1.2 times of these administered to rats during pregnancy and the Postpartum / the atazanavir exposures were 0.7 to 1.2 times of these administered to rats during Pregnancy and the Postpartum / in a tazanavir must be administered with ritonavir in 0 Orse Adjustments during Pregnancy and the Postpartum / in The pregnant wome or tenofovir DF, atazanavir 400 mg with if in the compared to the backgroun miscarriage and the adjustments during pregnancy and the Output Clinical Considerations Dose Adjustments during Pregnancy and the Postpartum / in 1 In Considerations Dase Adjustments during Pregnancy and the Postpartum / in with both an H, receptor antagonist and ten	† tadalafil † vardenafil † vardenafil † vardenafil ↓ atazanavir ↓ atazanavir ↓ atazanavir ↓ atazanavir ↓ atazanavir ↓ atazanavir was coadminis free Clinical Pharmacology, Tables ↓ atazanavir was coadminis free Clinical Pharmacology, Tables ↓ ata the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neonatal g ↓ at the human clinical dose (300 lactation, reversible neon	 bugrenorphine warrents clinical monitoring for selation and cognitive effects. 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Coadministration of atazanavir (with or without ritonavir), for at least one week, start ADCIRCA² at 2D mg once daily. Increase to 4D mg once daily based on individual tolerability. Coadministration of atazanavir (with or without ritonavir), resume ADCIRCA² at 2D mg once daily. Increase to 4D mg once daily based on individual tolerability. Use of ADE Sinhibitors for eractila dysfunction: Use vicharefil (with caution at reduced doses of 10 mg every 72 hours with increased monitoring for adverse events. Mazanavir (With or without ritonavir), resume ADCIRCA² at 2D mg once daily with caution at reduced doses of 10 mg every 72 hours with increased monitoring for adverse events. Mazanavir (With origin y ritonavir) and y may may be atazanavir with with atazanavir. Mazanavir (With origin y ritonavir) and y mainting with ritonavir 100 mg dose. Mazanavir
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Table 11: Grade 3 to 4 Laboratory Abnorma Al424-007, and Al424-008 Variable Limit ⁴ Chemistry High SGOT/AST ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN Creatine ≥ 5.1 x ULN Kinase Total ≥ 240 mg/dL Cholesterol Triglycerides ≥ 751 mg/dL Neutrophils < 750 cells/mm ³ * None reported in this treatment arm. * Based on regimen(s) containing atazanavir. * Median time on therapy. * ULN = upper limit of normal. * None reported in this treatment arm. * Based on regimen(s) containing atazanavir. * Median time on therapy. * ULN = upper limit of normal. * As a fixed-dose product: 150 mg lamivudine, 300 mg Change in Lipids from Baseline in Treatment-Naive Su Change in Lipids from Baseline in Treatment arm and 2% in the atazanavir * Atazanavir 300 mg with ritonavir 100 mg once daily * Values obtained after initiation of serum lipid-fedu treatment arm and 2% in the atazanavir with ritona	a 4 laboratory abnorma ties Reported in ≥ 2% Limit* 4 te High = 2 5.1 x ULN = 2 5.1 x ULN = 2 5.1 x ULN = 2 2.6 x ULN = 2 2.6 x ULN = 2 2.1 x ULN = 2 3.1 x ULN = 2 2.1 x ULN = 2 3.1 x ULN = 2 2.1 x ULN = 2 3.1 x ULN	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁵ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 444% 2% 8% 11% 5% laily. 2% of Adult Treatment 1424-034 64 weeks ⁵ efavienez 600 mg nec daily and lamivudine/ zidovudine ⁶ (n=401) 	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with 10pinavir/ 400 mg/tom tenofovir DF/e (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=2	iion,* Study Al424-138 eeks* iritonavir (twice daily) and matricitabine* 137) % 10% 10% 10% 10% 48% 2% 44% 2% 44% 7% 48 29% 48 210 42% 22% and	Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants trazodone Antiepileptics: carbamazepine phenytoin, phenobarbital lamotrigine Antifungals:	↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ apixaban ↑ tricyclic antidepressants ↑ trizodone ↑ trazodone ↑ atazanavir ↓ carbamazepine ↓ atazanavir ↓ phenytoin ↓ phenobarbital ↓ lamotrigine Atazanavir with ritonavir: ↑ ketoconazole Atazanavir with ritonavir in	Coadministration of atzanavir with alfuzsin is contraindicated. The resulting increase in affuzoin (44). Reduced plasma concentrations of atzanavir are expected if antacids, including buffred medications, are administered with atzanavir. Atzanavir should be administered 2 hours before or 1 hour after these medications. Concomitant use of atzanavir with ritonavir and either quinidine or amiodarone, which may result in serious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindication (4)]</i> . Condoministration with atzanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. Catuton is varranted and therapeutic concentration monitoring of these drugs is recommeded if they are used concomitantly with atzanavir. Coadministration with atzanavir has the potential to produce serious and/or life-threatening adverse events and has not been studied. At is recommeded that International Normalized Ratio (INR) be monitored. 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Cleae monitoring is recommended when atzanavir with treaten	Proton-pump inhibitors: omeprazole * For magnitude of interactions see <i>Clinical Pharmacology</i> * See <i>Contraindications (4), Table 6</i> for orally administere * See <i>Contraindications (4), Table 6</i> for orally administere * In combination with atazanavir 300 mg and ritonavir 10 * In combination with atazanavir 400 mg once daily. 7.4 Drugs with No Observed Interactions with Atr No clinically significant drug interactions were observed reverse transcriptase inhibitors lamivudine or zidovudine / 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy Pregnancy Exposure Registry There is a pregnancy exposure registry that monitors pre register patients by calling the Antiretroviral Pregnancy R Risk Summary Atazanavir has been evaluated in a limited number of wo major birth defects overall compared to the backgroun miscarriage in clinically recognized pregnancies is 2 to 49 the atazanavir exposures were 0.7 to 1.2 times of those administered torats during pregnancy and the Postpartum / Atazanavir must be administered with ritonavir in go - For treatment-experienced pregnant wome or tenofovir DF, atazanavir 400 mg with ri with botth a H, receptor atagoist and the - For treatment-experienced pregnant wome or tenofovir DF, atazanavir 400 mg with ri with botth a H, receptor atagoist and ter - No dosage adjustment is required for postpartum / be higher during the first 2 months after delivery /s Maternal Adverse Reactions Cases of Idcia caidois syndrome, sometimes fatal, and s analogues, which are associated with an increased risk of	† tadalafil ↑ vardenafil ↓ atazanavir ↓ vardenafil ↓ vardenafil ↓ atazanavir ↓ vardenafil ↓ vardenafil ↓ atazanavir ↓ vardenafil ↓ vardenafil ↓ vardenafil ↓ vardenafil ↓ tatazanavir ↓ vardenafil	 bugenophine warrants clinical monitoring for sedation and cognitive effects. A dose reduction of bugenophine may be considered. Coadministration of bugenophine without ritonavir with ritonavir is not expected to decrease atazanavir plasma concentrations. The coadministration of atazanavir and bugenophine without ritonavir is not teems studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and pripism. Coadministration with atazanavir has not been studied but may result in an increase in PDE5 inhibitor-associated adverse reactions, including hypotension, syncope, visual disturbances, and pripism. Coadministration of atazanavir with EVATIO (sidenafil) for the treatment of pulmonary hypertension (PAH): contraindicated desc Contraindications (A). The following dose adjustments are recommended for the use of ADCIRCA in patients on atazanavir (with or without ritonavir) for a tleast one week, start ADCIRCA at 20 mg once daily. 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Table 11: Grade 3 to 4 Laboratory Abnorma AI424-007, and AI424-008 Variable Lipase 2 SG07/AST ≥ 5.1 x ULN SG07/AST ≥ 5.1 x ULN SG07/AST ≥ 5.1 x ULN SG07/AST ≥ 5.1 x ULN SG07/AST ≥ 5.1 x ULN Total ≥ 2.40 ULN Bilirubin Amylase ≥ 2.1 x ULN Lipase ≥ 2.1 x ULN Creatine ≥ 5.1 x ULN Creatine ≥ 5.1 x ULN Kinase Total ≥ 240 mg/dL Hematology Hemoglobin <8.0 g/dL Neutrophils <750 cells/mm ³ * None reported in this treatment arm. * Based on regimen(s) containing atazanavir. * Median time on therapy. * Includes long-term follow-up. * ULN Variable I in grades 3 to 10 g lamivdine, 300 mg Change in Lipids from Baseline in Treatment-Naire Su For Study AI424-138 and Study AI424-034, change 3, respectively. Table 12: Lipid Values, Mean Change from Baseline Total Cholesterol Triglycerides 126 145 Total Cholesterol Triglycerides 126 145 Total Cholesterol As a fixed-dose product: 150 mg lamivdine, 300 mg * Values obtained after initiation of serum 1% in the ata treatment arm and 2% in the atazanavir. * As a fixed-dose product: 150 mg lamivdine, 300 mg * Values obtained after initiation of serum 1% in the ata * As a fixed-dose product: 150 mg lamivdine, 300 mg * Values obtained after initiation of serum 1% in the ata * Atazanavir 300 mg with ritonavir 100 mg once daily with * Values obtained after initiation of serum 1% in the ata * Atazanavir 300 mg with ritonavir arm. * Lapinavir/itonavir trement arm and 1% in the ata * Atazanavir 300 mg with ritonavir arm. * Lapinavir/itonavir day with ritonavir arm. * Lapinavir/itonavir day with ritonavir arm.	ties Reported in ≥ 2% Limit*	ities are presented in Tables 6 of Adult Treatment-Naiv 96 weeks ³ izanavir capsules 300 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 3% 44% 2% 8% 11%	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with 10pinavir/ 400 mg/toxin DF/e (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=4 (n=2 (iion,* Study Al424-138 eeks* iritonavir (twice daily) and matricitabine* 137) % 10% 10% 10% 10% 48% 2% 44% 7% 48% 2% 48% 2% 10% 10% 10 4% </td <td>Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants trazodone Antiepileptics: carbamazepine phenytoin, phenobarbital lamotrigine Antifungals:: ketoconazole, itraconazole</td> <td>↑ alfuzosin ↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ apixaban Atazanavir ↑ tricyclic antidepressants ↑ trazodone ↑ trazodone ↑ atazanavir ↓ carbamazepine ↓ atazanavir ↓ phenytoin ↓ phenobarbital ↓ lamotrigine Atazanavir with ritonavir: ↑ traconazole Atazanavir with ritonavir in ↓ lamotrigine ↓ atazanavir with ritonavir in ↓ uriconazole ↑ traconazole ↑ tracanavir with ritonavir in µphenobarbital</td> <td>Coadministration of atazanavir is not recommended. Coadministration of atazanavir with affuzosin is contraindicated. The resulting increase in affuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Conconitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic expessor of either quinidine or amiodarone, which may result inserious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindications (4/I)</i>. Coadministration with atazanavir has the potential to produce serious and/or life-threatening deverse events and has not been studied. 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Coadministration of atazanavir with affuzosin is contraindicated. The resulting increase in affuzosin plasma concentrations can lead to hypotension/see Contraindications (4/). Reduced plasma concentrations of atazanavir are expected if antacids, including buffered medications, are administered with atazanavir. Atazanavir should be administered 2 hours before or 1 hour after these medications. Conconitant use of atazanavir with ritonavir and either quinidine or amiodarone is contraindicated. This is due to the potential for substantial increase in systemic expessor of either quinidine or amiodarone, which may result inserious or life-threatening reactions such as cardiac arrhythmias <i>[Isee Contraindications (4/I)</i> . Coadministration with atazanavir has the potential to produce serious and/or life-threatening deverse events and has not been studied. 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Table 11: Grade 3 to 4 Laboratory Abnorma Al424-007, and Al424-008 Variable Limit ⁴ Chemistry High SG0T/AST ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN SGPT/ALT ≥ 5.1 x ULN Total ≥ 2.6 x ULN Bilirubin Amylase ≥ 2.1 x ULN Creatine ≥ 5.1 x ULN Kinase Total ≥ 240 mg/dL Cholesterol Total ≥ 240 mg/dL Hematology Low Hemoglobin < 8.0 g/dL Hematology Hematore and the solution a	ties Reported in ≥ 2% Limit" High = ≥ 1.4 ULN = ≥ 1.5 1 × ULN = ≥ 1.5 1 × ULN = ≥ 2.6 × ULN = ≥ 1.7 ULN = 2.6 × ULN =	lities are presented in Tables 5 of Adult Treatment-Naiv 96 weeks ⁵ izanavir capsules 300 mg ritonavir 100 mg (once daily) and tenofovir DF/emtricitabin (n=441) 3% 444% 2% 8% 11% 5% 11% 5% 1aily. 2% of Adult Treatment 1% 64 weeks ⁵ 64 weeks ⁶ 64 weeks ⁶ 64 weeks ⁶ 64 weeks ⁶ 63 mg once daily and lamivudine) zidovudine ⁶ (n=401) 	ss 10 and 11, respectively. ve Subjects with HIV-1 Infecti g with 96 we lopinavir/ 400 mg/toginavir/ 400 mg/toginavir/ 100 mg/toginavir/ 100 mg/toginavir/ 100 mg/toginavir/ 100 mg/toginavir/ 100 mg/toginavir/ 100 mg/toginavir/ 100 mg/toginavir/ 110 mg/toginavir/ 111 mg/togin	iion,* Study Al424-138 eeks* iritonavir (twice daily) and matricitabine* 137) % 10% 10% 10% 10% 48% 2% 44% 7% 48% 2% 48% 2% 10% 10% 10 4% </td <td>Other Agents Alpha 1-Adrenoreceptor Antagonist: alfuzosin Antacids and buffered medications Antacids and buffered medications Antiarrhythmics: amiodarone, quinidine amiodarone, bepridil, lidocaine (systemic), quinidine Anticoagulants: warfarin Direct-Acting Oral Anticoagulants: betrixaban, dabigatran, edoxaban rivaroxaban apixaban Antidepressants: tricyclic antidepressants trazodone Antiepileptics: carbamazepine phenytoin, phenobarbital lamotrigine Antifungals:: ketoconazole, itraconazole</td> <td>↑ alfuzosin ↑ alfuzosin ↓ atazanavir ↓ atazanavir ↑ amiodarone, bepridil, lidocaine (systemic), quinidine ↑ warfarin ↑ betrixaban ↑ dabigatran ↑ edoxaban Atazanavir with ritonavir ↑ rivaroxaban Atazanavir with ritonavir ↑ pixaban Atazanavir ↑ tricyclic antidepressants ↑ trazodone ↑ trazodone ↑ atazanavir ↓ carbamazepine ↓ atazanavir ↓ phenytoin ↓ phenobarbital ↓ lamotrigine Atazanavir with ritonavir: in subjects with a lae:: ↓ voriconazole Atazanavir with ritonavir in subjects with ritonavir in subjects</td> <td>Coadministration of atazanavir with affuzosin is contraindicated. 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Alpha T adrenoreceptor antagonist	Alfuzosin
Antiarrhythmics	Amiodarone (with ritonavir), quinidine (with ritonavir)
Antimycobacterials	Rifampin
Antineoplastics	Irinotecan
Antipsychotics	Lurasidone (with ritonavir), pimozide
Benzodiazepines	Triazolam, orally administered midazolam ^a
Ergot Derivatives	Dihydroergotamine, ergotamine, ergonovine, methylergonovine
GI Motility Agent	Cisapride
Hepatitis C Direct-Acting Antivirals	Elbasvir/grazoprevir; glecaprevir/pibrentasvir
Herbal Products	St. John's wort (Hypericum perforatum)
Lipid-Modifying Agents:	Lovastatin, simvastatin, lomitapide
Phosphodiesterase-5 (PDE-5) Inhibitor	Sildenafil [®] when dosed as REVATIO [®] for the treatment of pulmonary arterial hypertension
Protease Inhibitors	Indinavir
Non-nucleoside Reverse Transcriptase Inhibitors	Nevirapine

See Drug Interactions, Table 16 (7) for parenterally administered midazolan * See Drug Interactions, Table 16 (7) for sildenafil when dosed as VIAGRA[®] for erectile dysfunction

WARNINGS AND PRECAUTIONS

5.1 Cardiac Conduction Abnormalitie

Atazanavir has been shown to prolong the PR interval of the electrocardiogram in some subjects. In healthy subjects and in subjects with HIV-1 infection treated with atazanavir, abnormalities in atrioventricular (AV) conduction were asymptomatic and generally limited to first-degree AV block. There have been reports of second-degree AV block and other conduction abnormalities *(see Adverse Reactions (6.2) and Overdosage (10))*. In clinical trials that included electrocardiograms, asymptomatic firstdegree AV block was observed in 5.% of atazanavir treated subjects (n = 920), 5.2% of loginavir/treated subjects (n = 252), 10.4% of nelfinavir-treated subjects (n = 48), and 3.0% of efavirenz-treated subjects (n = 329). In Study Al424-045, asymptomatic first-degree AV block was observed in 5% (6/118) of atazanavir with ritonavir-treated subjects and 5% (6/116) of lopinavir/ritonavir-treated subjects who had on-study electrocardiogram measurements. Because of limited clinical experience in those with preexisting conduction system disease (eg, marked first-degree AV block or second- or third-degree AV block), ECG monitoring should be considered in these patients (see Clinical Pharmacology (12.2)).

5.2 Severe Skin Reactions

In controlled clinical trials, rash (all grades, regardless of causality) occurred in approximately 20% of subjects with HIV-1 infection treated with atazanavir. The median time to onset of rash in clinical studies was 7.3 weeks and the median duration of rash was 1.4 weeks. Rashes were generally mild-to-moderate maculopapular skin eruptions. Treatment emergent adverse reactions of moderate or severe rash (occurring at a rate of $\geq 2\%$) are presented for the individual clinical studies *(see Adverse* Reactions (6.1). Dosing with atazanavir was often continued without interruption in patients who developed rash. The discontinuation rate for rash in clinical trials was <1%. Cases of Stevens- Johnson syndrome, erythema multiforme, and toxic skin eruptions, including drug rash, eosinophilia, and systemic symptoms (DRESS) syndrome, have been reported in patients receiving atazanavir *(see Contraindications (4) and Adverse Reactions (6.1))*. Atazanavir should be discontinued if severe rash develops.

5.4 Hepatotoxicity

Patients with underlying hepatitis B or C viral infections or marked elevations in transaminases before treatment may be at increased risk for developing further transminase elevations or hepatic decompension. In these patients, hepatic laboratory testing should be conducted prior to initiating therapy with atazanavir and during treatment (see Dosage and Administration (2.2), Adverse Reactions (6.1), and Use in Specific Populations (8.8)).

5.5 Chronic Kidney Disease

Chronic kidney disease in patients with HIV-1 infection treated with atazanavir, with or without ritonavir, has been reported during postmarketing surveillance. Reports included biopsy-proven cases of granulomatous interstitial nephritis associated with the deposition of atazanavir drug crystals in the renal parenchyma. Consider alternatives to atazanavir in patients at high risk for renal disease or with receiving and disease. Renal locatory testing (including serum creatinine, estimated creatinine clearance, and urinalysis with microscopic examination) should be conducted in all patients prior to initiating therapy with atazanavir and continued during treatment with atazanavir. Expert consultation is advised for patients who have confirmed renal laboratory abnormalities while taking atazanavir. In patients with progressive kidney disease, discontinuation of atazanavir may be considered /see Dosage and Administration (2.2 and 2.7) and Adverse Reactions (6.2).

5.6 Nephrolithiasis and Cholelithiasis

Cases of nephrolithiasis and/or cholelithiasis have been reported during postmarketing surveillance in patients with HIV-1 infection receiving atazanavir therapy. Some patients required hospitalization for additional management and some had complications. Because these events were reported voluntarily during clinical practice, estimates of frequency cannot be made. If signs or symptoms of nephrolithiasis and/or cholelithiasis occur, temporary interruption or discontinuation of therapy may be idered /see Adverse Reactions (6.2)/.

5.7 Risk of Serious Adverse Reactions Due to Drug Interactions

nitiation of atazanavir with ritonavir, a CYP3A inhibitor, in patients receiving medications metabolized by CYP3A or initiation of medications metabolized by CYP3A in patients already receiving atazanavir with ritonavir, may increase plasma concentrations of medications metabolized by CYP3A. Initiation of medications that inhibit or induce CYP3A may increase or decrease concentrations of atazanavir with ritonavir respectively. These interactions may lead to:

clinically significant adverse reactions potentially leading to severe, life-threatening, or fatal events from greater exposures of concomitant medic clinically significant adverse reactions from greater exposures of atazanavir with ritonavir.

loss of therapeutic effect of atazanavir with ritonavir and possible development of resistance

See Table 16 for steps to prevent or manage these possible and known significant drug interactions, including dosing recommendations [see Drug Interactions (7)]. Consider the potential for drug interactions prior to and during therapy containing atazanavir with ritonavir; and monitor for the adverse reactions associated with the concomitant medications [see Contraindications (4) and Drug Interactions (7)].

5.8 Hyperbilirubinemia

Most patients taking atazanavir experience asymptomatic elevations in indirect (unconjugated) bilirubin related to inhibition of UDP-olucuronosyl transferase (UGT). This yperbilirubinemia is reversible upon discontinuation of atazanavir. Hepatic transaminase elevations that occur with hyperbilirubinemia should be evaluated for alternative etiologies. No long-term safety data are available for patients experiencing persistent elevations in total bilirubin > 5 times the upper limit of normal (ULN). Alternative antiretroviral therapy to atazanavir may be considered if jaundice or scleral icterus associated with bilirubin elevations presents cosmetic concerns for patients. Dose reduction of atazanavir is not recommended since long-term efficacy of reduced doses has not been established (see Adverse Reactions (6.1)).

5.9 Diabetes Mellitus/Hyperglycemia New-onset diabetes mellitus, exacerbation of preexisting diabetes mellitus, and hyperglycemia have been reported during postmarketing surveillance in HIV-1 infection receiving protease inhibitor therapy. Some patients required either initiation or dose adjustments of insulin or oral hypoglycemic agents for treatment of these events. In some cases, diabetic ketoacidosis has occurred. In those patients who discontinued protease inhibitor therapy, hyperglycemia persisted in some cases. Because these events have been reported voluntarily during clinical practice, estimates of frequency cannot be made and a causal relationship between protease inhibitor therapy and these events has not been established [see Adverse Reactions (6.2]].

5.10 Immune Reconstitution Syndrom

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Immune reconstitution syndrome has been reported in patients treated with combination antiretroviral therapy, including atazanavir. During the initial phase of combination antiretroviral treatment, patients whose immune system responds may develop an inflammatory response to indolent or residual opportunistic inflections (such as Mycobacterium avium infection, cytomegalovirus, Pneumocystis jiroveci pneumonia, or tuberculosis), which may necessitate further evaluation and treatment. Autoimmune disorders (such as Graves' disease, polymyositis, and Guillain-Barré syndrome, and autoimmune hepatitis) have also been reported to occur in the setting of nune reconstitution; however, the time to onset is more variable, and can occur many months after initiation of treatment

5.11 Fat Redistribution

Redistribution/accumulation of body fat including central obesity, dorsocervical fat enlargement (buffalo hump), peripheral wasting, facial wasting, breast enlargement, and "cushingoid appearance" have been observed in patients receiving antiretroviral therapy. The mechanism and long-term consequences of these events are currently unknown. A causal relationship has not been established.

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5.12 Hemophilia

Values obtained after initiation of serum lipid-reducing agents were not included in these analyses. At baseline, serum lipid-reducing agents were used in 0% in the efavirenz treatment arm and < 1% in the atazanavir arm. Through Week 48, serum lipid-reducing agents were used in 3% in the efavirenz treatment arm and 1% in the

atazanavir arm. ⁶ Efavirenz 600 mg once daily with the fixed-dose product: 150 mg lamivudine/300 mg zidovudine twice daily. The change from baseline is the mean of within-subject changes from baseline for patients with both baseline and Week 48 values and is not a simple difference of the baseline and Week 48 mean values

adjusted to 0.3 mg once every other day. eatment of familial Mediterranean fever (FMF): Maximum daily dose of 0.6 mg (may be given as 0.3 mg twice a day).

Based on prospective reports from the APR of approximately 1600 live births following exposure to atazanavir-containing regimens (including 1037 live births in infants exposed in the first trimester and 569 exposed in second/third trimesters), there was no difference between atazanavir and overall birth defects compared with the Animal Data

background birth defect rate. In the U.S. general population, the estimated background risk of major birth defects in clinically recognized pregnancies is 2 to 4%.

o pimozide o quinidine (when atazanavir is used with ritonavir)	
o rifampin o sildenafil, when used for the treatment	
of pulmonary arterial hypertension o simvastatin apsules o St. John's wort	
o triazolam 5, tell your healthcare provider about all of your medical	
ltitis B or C virus infection	
gnant. e taken with ritonavir during pregnancy. control, such as injections, vaginal rings or implants, ome birth control pills may not work during treatment with o your healthcare provider about forms of birth control that may atazanavir capsules.	
ury. I nere is a pregnancy exposure registry for people who take egnancy. The purpose of this registry is to collect information ur baby. Talk to your healthcare provider about how you can take	
your healthcare provider if your baby's skin or the white part of astfeed. Do not breastfeed if you are taking atazanavir	
ou have HIV-1 because of the risk of passing HIV-1 to your baby. Into your breast milk. er about the best way to feed your baby. t all the medicines you take, including prescription and over-	
erbal supplements. avir capsules. Keep a list of your medicines to show your t.	
vider or pharmacist for a list of medicines that interact with	
nedicine without telling your healthcare provider. Your tis safe to take atazanavir capsules with other medicines.	
les? !y as your healthcare provider tells you to. taking atazanavir capsules unless your healthcare provider tells	
:are provider during treatment with atazanavir capsules. with other HIV-1 medicines. sch day.	
d. ot open the capsules. vill prescribe the right dose of atazanavir based on your child's	
psules, take it as soon as you remember. Then take the next dose doses at the same time. psules, call your healthcare provider or go to the nearest hospital	
capsules starts to run low, get more from your healthcare ot to run out of atazanavir capsules. The amount of HIV-1 in your topped for even a short time. The virus may become resistant to	
r f atazanavir capsules? ous side effects, including: t beats (heart rhythm change). Tell your healthcare provider eaded. These could be symptoms of a heart problem. with atazanavir capsules but can sometimes be severe. Severe ptoms, stop taking atazanavir capsules and call your healthcare al emergency room right away: r "flu-like" symptoms o blisters o mouth sores o swelling of your face eve" (conjunctivitis) o blisters o painful, warm, or red lump under your skin oroblems, including hepatitis B or C infection, your liver problems zanavir capsules and during treatment. Tell your healthcare of the following symptoms: o nausea our eyes turns yellow o itching o stomach-area pain	

ATIENT INFORMAT azanavir (A-ta-ZAN-

Bel

Dimensions: 500 x 950 mm Book Fold: 39x39 mm, 28 GSM Bible Paper, Front & Back Color: Black



In animal reproduction studies, there was no evidence of mortality or teratogenicity in offspring born to animals at systemic drug exposure levels (AUC) 0.7 (in rabbits) to 1.2 (in rats) times those observed at the human clinical dose (300 mg/day atazanavir boosted with 100 mg/day ritonavir). In pre- and postnatal development studies in the rat, atazanavir caused neonatal growth retardation during lactation that reversed after weaning. Maternal drug exposure at this dose was 1.3 times the human exposure at the recommended clinical exposure. Minimal maternal toxicity occurred at this exposure level.

8.2 Lactation Risk Summary

The Centers for Disease Control and Prevention recommend that patients with HIV-1 infection, not breastfeed their infants to avoid risking postnatal transmission of HIVand was associated with neonatal growth retardation that reversed after weaning.

Because of both the potential for HIV-1 transmission and the potential for serious adverse reactions in breastfed infants, advise women not to breastfeed

8.4 Pediatric Use

Atazanavir is indicated in combination with other antiretroviral agents for the treatment of pediatric patients with HIV-1 infection, 6 years of age and older weighing at least 15 kg. Atazanavir is not recommended for use in pediatric patients below the age of 3 months due to the risk of kernicterus [see Indications and Usage (1)]. All tazanavir contraindications, warnings, and precautions apply to pediatric patients [see Contraindications (4) and Warnings and Precautions (5)].

The safety, pharmacokinetic profile, and virologic response of atazanavir in pediatric patients at least 6 years of age and older weighing at least 15 kg were established in an open-label, multicenter clinical trial: PACTG 1020A/see Clinical Pharmacology (12.3) and Clinical Studies (14.3)]. The safety profile in pediatric patients was generally similar to that observed in adults (see Adverse Reactions (6.1)). See Dosage and Administration (2.4) for dosing recommenda tions for the use of atazanavir ca

8.5 Geriatric Use

Clinical studies of atzanavir did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. Based on a comparison of mean single-dose pharmacokinetic values for C_{ana} and AUC, a dose adjustment based upon age is not recommended. In general, appropriate caution should be exercised in the administration and monitoring of atazanavir in elderly patients reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of concomitant disease or other drug therapy.

8.6 Age/Gender

A study of the pharmacokinetics of atazanavir was performed in young (n = 29; 18 to 40 years) and elderly (n = 30; \geq 65 years) healthy subjects. There were no clinically significant pharmacokinetic differences observed due to age or gender.

8.7 Impaired Renal Function

Atazanavir is not recommended for use in use in treatment-experienced patients with HIV-1 infection, who have end-stage renal disease managed with hemodialysis /see Dosage and Administration (2.7) and Clinical Pharmacology (12.3)].

8.8 Impaired Hepatic Function

Atazanavir is not recommended for use in patients with severe hepatic impairment. Atazanavir with ritonavir is not recommended in patients with any degree of hepatic impairment /see Dosage and Administration (2.8) and Clinical Pharmacology (12.3)].

10 OVERDOSAGE

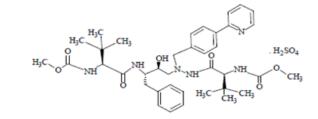
uman experience of acute overdose with atazanavir is limited. Single doses up to 1200 mg (three times the 400 mg maximum recommended dose) have been taken by healthy subjects without symptomatic untoward effects. A single self-administered overdose of 29.2 g of atazanavir in a patient with HIV-1 infection (73 times the ketoconazole 400-mg recommended dose) was associated with asymptomatic bifascicular block and PR interval prolongation. These events resolved spontaneously. At atazanavir doses resulting in high atazanavir exposures, jaundice due to indirect (unconjugated) hyperbilirubinemia (without associated liver function test changes) or PR interval prolongation may be observed *[see Warnings and Precautions (5.1, 5.8] and Clinical Pharmacology (12.2)].* nevirapine

Treatment of overdosage with atazanavir should consist of general supportive measures, including monitoring of vital signs and ECG, and observations of the patient's clinical status. If indicated, elimination of unabsorbed atzanavir should be achieved by emesis or gastric lavage. Administration of activated charcoal may also be used to aid removal of unabsorbed drug. There is no specific antidote for overdose with atazanavir. Since atazanavir is extensively metabolized by the liver and is highly protein bound, dialysis is unlikely to be beneficial in significant removal of this medicine.

11 DESCRIPTION

The active ingredient in atazanavir capsules is atazanavir sulfate, which is an HIV-1 protease inhibitor.

The chemical name for atazanavir sulfate is ((3S,8S,9S,12S)-3,12-Bis(1,1-dimethylethyl)-8-hydroxy-4,11-dioxo-9-(ohenylmethyl)-6-I/4-(2-pyridinyl)ohenyllmethyl The common name to accommon source to accommon source to the state of the state of



Atazanavir sulfate is an off white to pale yellow coloured crystalline powder. It is slightly soluble in water at acidic pH, freely soluble in methanol, soluble in

Atazanavir capsules are available for oral administration in strengths of 150 mg, 200 mg, or 300 mg of atazanavir, which are equivalent to 170.854 mg, 227.805 mg, or 341.708 mg of atazanavir sulfate, respectively. The capsules also contain the following inactive ingredients: crospovidone, lactose monohydrate, and magnesium stearate. The capsule shells contain the following inactive ingredients: gelation (FD&C Blue), iron oxide yellow, it innium dioxide, In addition 150 mg capsule shell contains iron oxide black, 200 mg and 300 mg contains FD&C Yellow 6, 300 mg also contains FD&C Red 3. The capsules are printed with black ink containing iron oxide black, potassium hydroxide, propylene glycol, shellac, strong ammonia s

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Atazanavir is an HIV-1 antiretroviral drug/see Microbiology (12.4)].

12.2 Pharmacodynamics

Concentration- and dose-dependent prolongation of the PR interval in the electrocardiogram has been observed in healthy subjects receiving atazanavir. In placebocontrolled Study Al424-076, the mean (±SD) maximum change in PR interval from the predose value was 24 (±15) msec following oral dosing with 400 mg of atazanavir n = 65) compared to 13 (± 11) msec following dosing with placebo (n = 67). The PR interval prolongations in this study were asymptomatic. There is limited in

l Drug	Coadministered Drug Dose/Schedule	Atazanavir Dose/Schedule	Ratio (90% Confidence Interval) of Atazanavir Pharmacokinetic Parameters with/without Coadministered Drug; No Effect = 1.00			
			C _{max}	AUC	C _{min}	
	20 mg BID, d 11–17 (n = 18)	300 mg QD with ritonavir 100 mg QD and tenofovir DF 300 mg QD, d 1–10 (am) (n=39), d 11–17 (am) (simultaneous administration with am famotidine) (n=18) ^{sa}	0.91 (0.84, 0.99)	0.90 (0.82, 0.98)	0.81 (0.69, 0.94)	
	40 mg QD (pm), d 18–24 (n = 20)	300 mg QD with ritonavir 100 mg QD and tenofovir DF 300 mg QD, d 1–10 (am) (n=39), d 18–24 (am) (12 h after pm famotidine) (n=20)°	0.89 (0.81, 0.97)	0.88 (0.80, 0.96)	0.77 (0.63, 0.93)	
	40 mg BID, d 18–24 (n = 18)	300 mg QD with ritonavir 100 mg QD and tenofovir DF 300 mg QD, d1 – 10 (am) (n – 39), d1 8 – 24 (am) (10 h after pm famotidine and 2 h before am famotidine) (n = 18) ^c	0.74 (0.66, 0.84)	0.79 (0.70, 0.88)	0.72 (0.63, 0.83)	
	40 mg BID, d 11–20 (n = 15)	300 mg QD with ritonavir 100 mg QD and d 1–10 (am) (n=46), then 400 mg QD with ritonavir 100 mg QD, d 11–20 (am) (n=15)	1.02 (0.87, 1.18)	1.03 (0.86, 1.22)	0.86 (0.68, 1.08)	
svir	grazoprevir 200 mg QD d 1 · 35 (n = 11)	300 mg QD with ritonavir 100 mg QD, d 1- 35 (n = 11)	1.12 (1.01, 1.24)	1.43 (1.30, 1.57)	1.23 (1.13, 1.34)	
	elbasvir 50 mg QD d 1 – 35 (n = 8)	300 mg QD with ritonavir 100mg QD, d 1 · 35 (n = 8)	1.02 (0.96, 1.08)	1.07 (0.98, 1.17)	1.15 (1.02, 1.29)	
	200 mg ΩD, d 7–13 (n=14)	400 mg QD, d 1–13 (n=14)	0.99 (0.77, 1.28)	1.10 (0.89, 1.37)	1.03 (0.53, 2.01)	
	200 mg BID, d 1–23 (n=23)	300 mg QD with ritonavir 100 mg QD, d 4–13, then 400 mg QD with ritonavir 100 mg QD, d 14–23 (n=23)h	0.72 (0.60, 0.86) 1.02	0.58 (0.48, 0.71) 0.81	0.28 (0.20, 0.40) 0.41	
	40 mg QD, d 7–12 (n=16) ⁱ	400 mg QD, d 1–6 (n=48), d 7–12 (n=16)	(0.85, 1.24) 0.04 (0.04, 0.05)	(0.65, 1.02) 0.06 (0.05, 0.07)	(0.27, 0.60) 0.05 (0.03, 0.07)	
	40 mg QD, d 11–20 (n = 15) ⁱ	300 mg QD with ritonavir 100 mg QD, d 1–20 (n=15)	0.28 (0.24, 0.32)	0.24 (0.21, 0.27)	0.22 (0.19, 0.26)	
	20 mg QD, d 17–23 (am) (n = 13)	300 mg QD with ritonavir 100 mg QD, d 7–16 (pm) (n=27), d 17–23 (pm) (n=13) ^{jk}	0.61 (0.46, 0.81)	0.58 (0.44, 0.75)	0.54 (0.41, 0.71)	
	20 mg QD, d 17–23 (am) (n = 14)	300 mg 0D with ritonavir 100 mg 0D, d 7–16 (am) (n=27), then 400 mg 0D with ritonavir 100 mg 0D, d 17–23 (am) (n=14) tm	0.69 (0.58, 0.83)	0.70 (0.57, 0.86)	0.69 (0.54, 0.88)	
	4 mg ΩD for 5 days	300 mg QD for 5 days	1.13 (0.96, 1.32)	1.06 (0.90, 1.26)	NA	
	150 mg QD, d 15–28 (n = 7)	400 mg QD, d 1–28 (n=7)	1.34 (1.14, 1.59)	1.15 (0.98, 1.34)	1.13 (0.68, 1.87)	
	600 mg QD, d 17–26 (n = 16)	300 mg QD with ritonavir 100 mg QD, d 7–16 (n=48), d 17–26 (n=16)	0.47 (0.41, 0.53)	0.28 (0.25, 0.32)	0.02 (0.02, 0.03)	
	100 mg QD, d 11–20 (n=28)	300 mg QD, d 1–20 (n=28)	1.86 (1.69, 2.05)	3.38 (3.13, 3.63)	11.89 (10.23, 13.82)	
	300 mg QD, d 9–16 (n = 34)	400 mg QD, d 2–16 (n=34)	0.79 (0.73, 0.86)	0.75 (0.70, 0.81)	0.60 (0.52, 0.68)	
	300 mg QD, d 15–42 (n = 10)	300 mg with ritonavir 100 mg 0D, d 1–42 (n=10)	0.72° (0.50, 1.05)	0.75° (0.58, 0.97)	0.77° (0.54, 1.10)	
	200 mg BID,	300 mg with ritonavir	0.87	0.88	0.80	

grazoprevir/ elbasy

omeprazole

pitavastatin rifabutin

rifampin

tenofovir DF°

voriconazole

300 mg.

All drugs were given under fasted conditions

nevirapine prior to study entry.

NA = not available

acetaminopher

clarithromyci

diltiazen

ethinyl estradiol

& norethindrone

ethinyl estradiol

& norgestimat

pibrentasvi

grazoprevir/ elbasvir

methadone

nevirapine

omeprazole

pitavastati

saquinavir[®] (soft gelati

velpatasvir/

atenolol

Coadr

separated by 12 hours from omeprazole.

C_{ma}, AUC, and Cmin by 18%, 103%, and 671%, respectively.

 Table 22:
 Drug Interactions: Pharmacokinetic Parameters for Coadm

AUC and C_{min} values that were 1.79and 4.46-fold higher relative to atazanavir 400 mg once daily alone.

Coadministration of atazanavir with ritonavir and tenofovir DF was administered after a light meal.

azanavir with ritonavir virologic failure isolates had baseline phenotypic atazanavir resistance and IAS-defined major PI resistance-associated substitutions at baseline. he ISOL substitution emerged on study in one of these failure isolates and was associated with a 17-fold decrease in atazanavir susceptibility from baseline and the other ailure isolate with baseline atazanavir resistance and PI substitutions (M46M/I and I84I/V) had additional IAS-defined major PI substitutions (V32I, M46I, and I84V) merge on atazanavir treatment associated with a 3-fold decrease in atazanavir susceptibility from baseline. Five of the treatment failure isolates in the atazanavir witl tonavir arm developed phenotypic emtricitabine resistance with the emergence of either the M184I (n=1) or the M184V (n=4) substitution on therapy and none Nonem and belong phenotype emotions reasonable with emotions of the second s 711, G73G/S, V82V/A, L89V, and L90M. Six lopinavir with ritonavir virologic failure isolates developed the M184V substitution and phenotypic emtricitabine res nd two developed phenotypic tenofovir disoproxil resistance.

tinical Studies of Treatment-Naive Subjects Receiving Atazanavir 400 mg without Ritonavir: Atazanavir-resistant clinical isolates from treatment-naive subjects who experienced virologic failure on atazanavir 400 mg treatment without ritonavir often developed an I50L substitution (after an average of 50 weeks of atazanavir therapy), often in combination with an A71V substitution, but also developed one or more other PI substitutions (eg. V321, L33F, G73S, V82A, I85V, or N88S) with or without the 50L substitution. In treatment-naive subjects, viral isolates that developed the I50L substitution, without other major PI substitutions, showed phenotypic resistance to tazanavir but retained in cell culture susceptibility to other PIs (amprenavir, indinavir, lopinavir, nelfinavir, ritonavir, and saquinavir); however, there are no clinical data ailable to demonstrate the effect of the ISOL substitution on the efficacy of subsequently administered PIs.

linical Studies of Treatment-Experienced Subjects: In studies of treatment-experienced subjects treated with atazanavir or atazanavir with ritonavir, most atazanavir esistant isolates from subjects who experienced virologic failure developed substitutions that were associated with resistance to multiple PIs and displayed decreased susceptibility to multiple PIs. The most common protease substitutions to develop in the viral sales of subjects who failed treatment with a tazanavir 300 mg once daily nd ritonavir 100 mg once daily (together with tenofovir DF and an NRTI) included V321, L33F/VI, E35D/G, M46I/L, I50L, F53L/V, I54V, A71V/TI, G73S/TI/C, 82A/T/I I85V and I 89V/0/M/T Other substitutions that developed on atazanavir with ritonavir treatment including E34K/A/D G48V I84V N88S/D/T and I 90M curred in less than 10% of subject isolates. Generally, if multiple PI resistance substitutions were present in the HIV-1 virus of the subject at baseline, atazanavir esistance developed through substitutions associated with resistance to other PIs and could include the development of the ISOL substitution. The ISOL substitution has een detected in treatment experienced subjects experiencing virologic failure after long-term treatment. Protease cleavage site changes also emerged on atazanavi eatment but their presence did not correlate with the level of atazanavir resistance

linical Studies of Pediatric Subjects in A1424-397 (PRINCE I) and A1424-451 (PRINCE II): Treatment-emergent atazanavir with ritonavir resistance-associated amino cid substitution M36I in the protease was detected in the virus of one subject among treatment failures in Al424-397. In addition, three known resistance-associated ubstitutions for other PIs arose in the viruses from one subject each (L19)(R, H69X(R, and 1721(V), Reduced susceptibility to atzanavir, ritonavir, or atzanavir with itonavir was not seen with these viruses. In AI424-451, atazanavir with ritonavir resistance-associated substitutions G16E, V82A)(T, 184V, and/or L90M arose in the inuses of two subjects. The virus nonulation harboring the M46M/V_V82V/I_184/IV and L901/M substitutions acquired phenotynic resistance to ritonavir (ritonavi henotypic fold-change of 3.5, with a ritonavir cutoff of 2.5-fold change). However, these substitutions did not result in phenotypic resistance to atazanavir (atazanav henotypic fold-change of < 1.8, with an atazanavir cutoff of 2.2-fold change). Secondary PI resistance-associated amino acid substitutions also arose in the viruses of ne subject each, including V11V/I, D30D/G, E35E/D, K45K/R, L63P/S, and 1721/T. Q61D and Q61E/G emerged in the viruses of two subjects who failed treatment with azanavir with ritonavir. Viruses from nine subjects in the two studies developed NRTI resistance-associa ed substitutions: K65K/R (n = 1), M184V (n = 7), and T21

ross-Resistance

oss-resistance among PIs has been observed. Baseline phenotypic and genotypic analyses of clinical isolates from atazanavir clinical trials of PI-experienced subjec Answerstance and only its has been used year. Baseline prenotypic and genotypic analyses of clinical isobards nonical adaptive clinical india of r-experienced subjects showed that isolates cross-resistant to multiple PIs were cross-resistant to atazanavir. Greater than 90% of the isolates with substitutions that included I&AV or GA8V were resistant to atazanavir. Greater than 60% of isolates containing L90M, G73S[T]/C, A71V[T, I54V, M46][L, or a change at V82 were resistant to atazanavir. foolates containing a D30N substitution in addition to other changes were resistant to atazanavir. Isolates resistant to atazanavir were also cross-resistant to other PIs with > 90% of the isolates resistant to indinavir, lopinavir, nelfinavir, ritonavir, and saquinavir, and 80% resistant to amprenavir. In treatment-experienced subjects, PIesistant viral isolates that developed the I5OL substitution in addition to other PI resistance-associated substitution were also cross-resistant to other PIs.

aseline Genotype/Phenotype and Virologic Outcome Analyses

enotypic and/or phenotypic analysis of baseline virus may aid in determining atazanavir susceptibility before initiation of atazanavir with ritonavir therapy. An association between virologic response at 48 weeks and the number and type of primary PI resistance-associated substitutions detected in baseline HIV-1 isolates from antiretroviral-experienced patients receiving atazanavir with ritonavir once daily or lopinavir/ritonavir (fixed-dose product) twice daily in Study Al424-045 is shown in

Dverall, both the number and type of baseline PI substitutions affected response rates in treatment-experienced subjects. In the atazanavir with ritonavir group, subjects ad lower response rates when 3 or more baseline PI substitutions, including a substitution at position 36, 71, 77, 82, or 90, were present compared to subjects with to 2 PI substitutions, including one of these substitu

Fable 24: HIV-1 RNA Response by Number and Type of Baseline PI Substitution, Antiretroviral-Experienced Subjects in Study AI424-045, As-Treated

	Virologic Response = HIV RNA $<$ 400 copies/mL ^b				
Number and Type of Baseline PI Substitutions [*]	atazanavir with ritonavir (n=110)	lopinavir/ritonavir (n=113)			
3 or more primary PI substitutions including ⁴ :					
D30N	75% (6/8)	50% (3/6)			
M36I/V	19% (3/16)	33% (6/18)			
M46I/L/T	24% (4/17)	23% (5/22)			
I54V/L/T/M/A	31% (5/16)	31% (5/16)			
A71V/T/I/G	34% (10/29)	39% (12/31)			
G73S/A/C/T	14% (1/7)	38% (3/8)			
V77I	47% (7/15)	44% (7/16)			
V82A/F/T/S/I	29% (6/21)	27% (7/26)			
184V/A	11% (1/9)	33% (2/6)			
N88D	63% (5/8)	67% (4/6)			
L90M	10% (2/21)	44% (11/25)			
Number of baseline primary PI substitutions*		•			
All patients, as-treated	58% (64/110)	59% (67/113)			
0–2 PI substitutions	75% (50/67)	75% (50/67)			
3-4 PI substitutions	41% (14/34)	43% (12/28)			
5 or more PI substitutions	0% (0/9)	28% (5/18)			

Primary substitutions include any change at D30, V32, M36, M46, I47, G48, I50, I54, A71, G73, V77, V82, I84, N88, and L90.

Cardiac Conduction Abnormalities

Inform patients that atazanavir may produce changes in the electrocardiogram (eg. PR prolongation). Tell patients to consult their healthcare provider if they are experiencing symptoms such as dizziness or lightheadedness /see Warnings and Precautions (5.1

Severe Skin Reaction

Inform patients that there have been reports of severe skin reactions (eg, Stevens-Johnson syndrome, erythema multiforme, and toxic skin eruptions) with atazanavir capsules use. Advise patients that if signs or symptoms of severe skin reactions or hypersensitivity reactions develop, they must discontinue at a anavir capsules and seek medical evaluation immediately (see Warnings and Precautions (5.2) and Adverse Reactions (6.1)).

Inform patients that asymptomatic elevations in indirect bilirubin have occurred in patients receiving atazanavir capsules. This may be accompanied by yellowing of the skin or whites of the eyes and alternative antiretroviral therapy may be considered if the patient has cosmetic concerns *[see Warnings and Precautions (5.8)*]. Chronic Kidney Disease

Inform patients that treatment with atazanavir cansules may lead to the development of chronic kidney disease, and to maintain adequate hydration while taking atazanavir capsules [see Warnings and Precautions (5.5/]. Nephrolithiasis and Cholelithia

Inform patients that kidney stones and/or gallstones have been reported with atazanavir capsules use. Some patients with kidney stones and/or gallstones required hospitalization for additional management and some had complications. Discontinuation of atazanavir capsules may be necessary as part of the medical management of these adverse events [see Warnings and Precautions (5.6)].

Atazanavir capsules may lead to significant interaction with some drugs; therefore, advise patients to report the use of any other prescription, nonprescription medication, or herbal products, particularly St. John's wort, to their healthcare provider prior to use [see Contraindications (4), Warnings and Precautions (5.7]]

Immune Reconstitution Syndrome

Advise patients to inform their healthcare provider immediately of any symptoms of infection, as in some patients with advanced HIV infection (AIDS), signs and nation from previous infections may occur soon after anti-HIV treatment is started *[see Warnings and Precautions (5.10]*] Fat Redistribution

Inform patients that redistribution or accumulation of body fat may occur in patients receiving antiretroviral therapy including protease inhibitors and that the cause and long-term health effects of these conditions are not known at this time (see Warnings and Precautions (5.11))

Dosing Instructions

Advise patients to take atazanavir capsules with food every day and take other concomitant antiretroviral therapy as prescribed. Atazanavir capsules must always be used in combination with other antiretroviral drugs. Advise patients that they should not alter the dose or discontinue therapy without consulting with their healthcare provider. Tell patients if a dose of atazanavir capsules are missed, they should take the dose as soon as possible and then return to their normal schedule; however, if a dose is skipped the patient should not double the next dose.

Inform pregnant patients that there is a pregnancy exposure registry that monitors pregnancy outcomes in pregnant patients exposed to atazanavir capsules during pregnancy. Heal ouraged to register patients by calling the Antiretroviral Pregnancy Registry [see Use in Specific Populations (8.1]].

Lactatio Instruct women with HIV-1 infection not to breastfeed because HIV-1 can be passed to the baby in the breast milk. A tazanavir can also be passed to the baby in breast milk and it is not known whether it could harm the baby [see Use in Specific Populations (8.2/].

CAMBER

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the potential for a pha action in humans between atazanavir and other drugs that prolong the Precautions (5.1)].

Electrocardiographic effects of atazanavir were determined in a clinical pharmacology study of 72 healthy subjects. Oral doses of 400 mg (maximum recom dosage) and 800 mg (twice the maximum recommended dosage) were compared with placeb; there was no concentration-dependent effect of atazanavir on the QTc interval (using Fridericia's correction). In 1793 subjects with HIV-1 infection, receiving antiretroviral regimens, QTc prolongation was comparable in the atazanavir and comparator regimens. No atazanavir-treated healthy subject or subject with HIV-1 infection in clinical trials had a QTc interval > 500 msec *[see Warnings and Prec. (5.1)]*.

12.3 Pharmacokinetic

The pharmacokinetics of atazanavir were evaluated in adult subjects who either were healthy, or with HIV infection, after administration of atazanavir 400 mg once daily Data provided are under fed conditions unless otherwise noted. and after administration of atazanavir 300 mg with ritonavir 100 mg once daily (see Table 17)

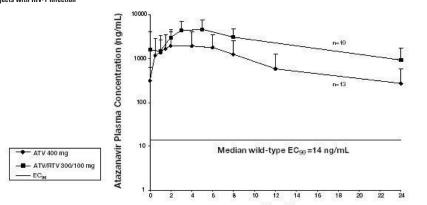
Table 17: Steady-State Pharmacokinetics of Atazanavir in Healthy Subjects or Subjects with HIV-1 Infection in the Fed State

	400 mg	once daily	300 mg with ritonavir 100 mg once daily		
	Healthy Subjects	Subjects with HIV-1 Infection	Healthy Subjects	Subjects with HIV-1 Infection	
Parameter	(n=14)	(n=13)	(n=28)	(n = 10)	
C _{max} (ng/mL)					
Geometric mean (CV%)	5199 (26)	2298 (71)	6129 (31)	4422 (58)	
Mean (SD)	5358 (1371)	3152 (2231)	6450 (2031)	5233 (3033)	
T _{max} (h)					
Median	2.5	2.0	2.7	3.0	
AUC (ng•h/mL)					
Geometric mean (CV%)	28132 (28)	14874 (91)	57039 (37)	46073 (66)	
Mean (SD)	29303 (8263)	22262 (20159)	61435 (22911)	53761 (35294)	
T-half (h)					
Mean (SD)	7.9 (2.9)	6.5 (2.6)	18.1 (6.2) *	8.6 (2.3)	
C _{min} (ng/mL)					
Geometric mean (CV%)	159 (88)	120 (109)	1227 (53)	636 (97)	
Mean (SD)	218 (191)	273 (298) ^b	1441 (757)	862 (838)	

^b n=12.

Figure 1 displays the mean plasma concentrations of atazanavir at steady state after atazanavir 400 mg once daily (as two 200-mg capsules) with a light meal and after atazanavir 300 mg (as two 150-mg capsules) with ritonavir 100 mg once daily with a light meal in adult subjects with HIV-1 infection

Figure 1: Mean (SD) Steady-State Plasma Concentrations of Atazanavir 400 mg (n=13) and 300 mg with Ritonavir (n=10) for HIV-Infected Adult ts with HIV-1 Infectio





Atazanavir is rapidly absorbed with a T... of approximately 2.5 hours. Atazanavir demonstrates nonlinear pharmacokinetics with greater than dose-proportional incr in AUC and Carry values over the dose range of 200 to 800 mg once daily. Steady state is achieved between Days 4 and 8, with an accumulation of approximately 2.3 fold. Food Effect

Administration of atazanavir with food enhances bioavailability and reduces pharmacokinetic variability. Administration of a single 400-mg dose of atazanavir with a light meal (357 kcal, 8.2 g fat, 10.6 g protein) resulted in a 70% increase in AUC and 57% increase in C_m relative to the fasting state. Administration of a single 400-mg dose of atazanavir with a high-fat meal (721 kcal, 37.3 g fat, 29.4 g protein) resulted in a mean increase in AUC of 35% with no change in C_m relative to the fasting state. Administration of atazanavir with either a light meal or high-fat meal decreased the coefficient of variation of AUC and C_, by approximately one-half compared to the

Coadministration of a single 300-mg dose of atazanavir and a 100-mg dose of ritonavir with a light meal (336 kcal, 5.1 g fat, 9.3 g protein) resulted in a 33% increase in the AUC and a 40% increase in both the C_{max} and the 24-hour concentration of atazanavir relative to the fasting state. Coadministration with a high-fat meal (951 kcal, 54.7 g fat, 35.9 g protein) did not affect the AUC of atazanavir relative to fasting conditions and the C_{max} was within 11% of fasting values. The 24-hour concentration following a high-fat meal was increased by approximately 33% due to delayed absorption; the median T_{max} increased from 2.0 to 5.0 hours. Coadministration of atazanavir with ritonavir with either a light or a high-fat meal decreased the coefficient of variation of AUC and C_{mv} by approximately 25% compared to the fasting state. Distribution

Atzanavir is 86% bound to human serum proteins and protein binding is independent of concentration. Atazanavir binds to both alpha-1-acid glycoprotein (AAG) and albumin to a similar extent (89% and 86%, respectively). In a multiple-dose study in subjects with HIV-1 infection dosed with atazanavir 400 mg once daily with a light meal for 12 weeks, atazanavir was detected in the cerebrospinal fluid and semen. The cerebrospinal fluid/plasma ratio for atazanavir (n=4) ranged between 0.0021 and 0.0226 and seminal fluid/plasma ratio (n = 5) ranged between 0.11 and 4.42.

Metaholism

Atazanavir is extensively metabolized in humans. The major biotransformation pathways of atazanavir in humans consisted of monooxygenation and dioxygenation. Other minor biotransformation pathways for atazanavir or its metabolites consisted of glucuronidation, N-dealkylation, hydrolysis, and oxygenation with dehydrogenation. Two minor metabolites of atazanavir in plasma have been characterized. Neither metabolite demonstrated *in vitro* antiviral activity. *In vitro* studies using human liver microsomes suggested that atazanavir is metabolized by CYP3A.

Following a single 400-mg dose of "C-atazanavir, 79% and 13% of the total radioactivity was recovered in the feces and urine, respectively. Unchanged drug accounted for approximately 20% and 7% of the administered dose in the feces and urine, respectively. The mean elimination half-life of atazanavir in healthy subjects (n = 214) and adult subjects with HIV-1 infection (n = 13) was approximately 7 hours at steady state following a dose of 400 mg daily with a light meal. Specific Populations

enal Impairment

In healthy subjects, the renal elimination of unchanged atazanavir was approximately 7% of the administered dose. Atazanavir has been studied in adult subjects with severe renal impairment (n = 20), including those on hemodialysis, at multiple doses of 400 mg once daily. The mean atazanavir C, was 9% lower, AUC was 10% higher, and C, was 9% higher in subjects with severe renal impairment not undergoing hemodialysis (n = 10), than in age, weight, and gender-matched subjects with normal renal function. In a 4-hour dialysis session, 2.1% of the administered dose was removed. When atazanavir was administered either prior to, or following hemodialysis (in = 10), the geometric means for C_{uv} , AUC, and C_{uv} were approximately 25% to 43% lower compared to subjects with normal renal function. The mechanism of this decrease is unknown. Atazanavir is not recommended for use in treatment-experienced patients with HIV-1 who have end-stage renal disease managed with hemodialysis [see Dosage and Administration (2.7)].

Hepatic Impairment

Atazanavir has been studied in adult subjects with moderate-to-severe hepatic impairment (14 Child-Pugh B and 2 Child-Pugh C subjects) after a single 400-mg dose. The mean AUC_n, was 42% greater in subjects with impaired hepatic function than in healthy subjects. The mean half-life of atazanavir in hepatically impaired subjects was 2.1. hours compared to 6.4 hours in healthy subjects. A dose reduction to 300 mg is recommended for patients with moderate hepatic impairment (Child-Pugh Class B) who have not experienced prior virologic failure as increased concentrations of atazanavir are expected. Atazanavir is not recommended for use in patients with severe hepatic impairment. The pharmacokinetics of atazanavir in combination with ritonavir has not been studied in subjects with hepatic impairment; thus, coadministration of tazanavir with ritonavir is not recommended for use in patients with any degree of hepatic impairment /see Dosage and Administration (2.8).

The pharmacokinetic parameters for atazanavir at steady state in in pediatric subjects taking the capsule formulation were predicted by a population pharmacokinetic marized in Table 19 by weight ranges that correspond to the recommended doses [see Dosage and Administration (2.4)].

Table 19: Predicted Steady-State Pharmacokinetics of Atazanavir (capsule formulation) with Ritonavir in Pediatric Subjects with HIV-1 Infection

Body Weight (range in kg)	atazanavir with ritonavir Dose (mg)	C _{max} ng/mL Geometric Mean (CV%)	AUC ng•h/mL Geometric Mean (CV%)	C _{min} ng/mL Geometric Mean (CV%)
	(n=14)	(n = 13)	(n=28)	(n = 1 0)
15 to < 35	200/100	3303 (86%)	37235 (84%)	538 (99%)
≥35	300/100	2980 (82%)	37643 (83%)	653 (89%)
Prognancy				

The pharmacokinetic data from infected pregnant women with HIV-1 infection receiving atazanavir capsules with ritonavir are presented in Table 20.

Table 20: Steady-State Pharmacokinetics of Atazanavir with Ritonavir in Pregnant Women with HIV-1 Infection in the Fed State

(Subjects with at least one functional CYP2C19 allele)	d 2-3, 22-30; 400 mg BID, d 1, 21 (n=20)	100 mg QD, d 11–30 (n=20)	(0.80, 0.96)	(0.82, 0.95)	(0.72, 0.90)
voriconazole (Subjects without a functional CYP2C19 allele)	50 mg BID, d 2-3, 22–30; 100 mg BID, d 1, 21 (n=8)	300 mg with ritonavir 100 mg QD, d 11–30 (n=8)	0.81 (0.66, 1.00)	0.80 (0.65, 0.97)	0.69 (0.54, 0.87)

avir 300 mg plus ritonavir 100 mg once daily coadministered with famotidine 40 mg twice daily resulted in atazanavir geometric mean C_{ma} that was similar and

Similar results were noted when famotidine 20 mg BID was administered 2 hours after and 10 hours before atazanavir 300 mg and ritonavir 100 mg and tempfovir DF

¹ Study was conducted in subjects with HIV-1 infection. ⁹ Compared with atzanavir 400 mg historical data without nevirapine (n = 13), the ratio of geometric means (90% confidence intervals) for C_{max}, AUC, and C_{max} were

1.42 (0.98, 2.05), 1.64 (1.11, 2.42), and 1.25 (0.66, 2.36), respectively, for atazanavir with ritonavir 300/100 mg; and 2.02 (1.42, 2.87), 2.28 (1.54,

3.38), and 1.30 (0.54, 3.45), respectively, for atazanavir and nevirapine, n = 22 for atazanavir 300 mg/ritonavir 100 mg without nevirapine. Subjects were treated with Parallel group design; n = 23 for atazanavir with ritonavir and nevirapine, n = 22 for atazanavir 300 mg/ritonavir 100 mg without nevirapine. Subjects were treated with

Omeprazie de Ming was administered on an empty stomach 2 hours before atazanavir. Omeprazie de Ming was administered 30 minutes prior to a light meal in the morning and atazanavir 300 mg with ritonavir 100 mg in the evening after a light meal,

tazanavir 300 mg and ritonavir 100 mg once daily separated by 12 hours from omeprazole 20 mg daily resulted in increases in atazanavir geometric mean AUC (10%)

Deeprazole 20 mg was given 30 minutes prior to a light meal to an group and tazanavir 400 mg with ritonavir 100 mg once daily after a light meal, 1 hour after omeprazole 20 mg was given 30 minutes prior to a light meal in the morning and atazanavir 400 mg with ritonavir 100 mg once daily after a light meal, 1 hour after omeprazole. Effects on atazanavir concentrations were similar when atazanavir 400 mg with ritonavir 100 mg was separated from omeprazole 20 mg by 12 hours. Atazanavir 400 mg with ritonavir 100 mg once daily administered with omeprazole 20 mg once daily resulted in increases in atazanavir geometric mean AUC (32%) and

Addition fooling information of the second second

Note that similar results were observed in studies where administration of tenofovir DF and atazanavir was separated by 12 hours. Ratio of atazanavir with ritonavir with tenofovir DF to atazanavir with ritonavir. Atazanavir 300 mg with ritonavir 100 mg results in higher atazanavir exposure than

atazanavir 400 mg (see footnoteo). The geometric mean values of atazanavir pharmacokinetic parameters when coadministered with ritonavir and tenofovir DF were:

300 mg QD with ritona

100 mg QD, d 11–20

(n = 10)

400 mg QD, d 1–11

(n = 19)

400 mg QD, d 1-10

(n=21)

400 mg QD

d 2-8 (n=34)

300 mg QD with ritonav

400 mg QD, d 1-11

(n = 28)

400 ma QD,

d 16-29 (n=19)

300 mg QD with ritonav

100 mg QD,

d 29-42 (n=14)

300 mg QD with ritonavi 100 mg QD (n = 12)

300 mg QD with ritonavir

100 mg QD (n = 12)

300 mg QD with ritonavi

00 mg QD with ritor

100 mg 0D d 1 · 35 (n=12)

00 mg QD d 1 · 35 (n = 10)

400 mg QD, d 2-15

(n = 16)

300 mg QD with

ritonavir 100 mg QD,

4-13, then 400 mg QD wit

ritonavir 100 mg QD, d 14–23 (n=23)

400 mg QD, d 1-12

(n = 16)

600 ma QD,I

d 11-20 (n=3)

300 ma QD with

itonavir 100 mg QD d 1–17 (n=7)

300 mg QD

for 5 day

400 ma QD,

d 2–7, then

300 mg QD with

itonavir 100 mg

0D, d 8–17 (n=14

300 mg QD with

400 mg QD, d 7-13

(n = 7)

300 mg with 100 mg

ritonavir single dose

(n = 15)

300 mg with 100 mg

ir 100 mg QD for 7 da

100 mg 0D, d 9–19 (n=31)

istered Drugs in the Pres

ice of Atazanay

(0.77, 0.99)

(1.26, 1.42)

(1.32, 1.71)

).28 (0.24, 0.33)

0 64

0.62

(0.52, 0.74)

1.98 (1.78, 2.19)

sacetyl∙diltiazer

2.72 (2.44, 3.03)

(0.99, 1.32)

(1.42, 1.96)

ethinyl estradiol

0.84 (0.74, 0.95)

17-deacetyl

norgestimate:' 1.68 (1.51, 1.88)

≥ 4.06[®] (3.15, 5.23)

≥ 1.29⁸ (1.15, 1.45)

6.24

(4.42, 8.81)

(3.46, 4.97)

(R)-methadone

0.91 (0.84, 1.0)

(1.09, 1.25)

(1.11, 1.32)

(1.04, 1.47)

1 18

(0.94, 1.48)

25-0-desacetyl

rifabutin

8.20

(5.90, 11.40)

2.49" (2.03, 3.06)

25-0-desacetyl

rifabutin: 7.77

(6.13, 9.83)

(1.39, 1.85)

1 08

0.97

(0.91, 1.04)

↑7-fold

(3.24, 5.95)

1 29

(1.09, 1.52)

GS-331007

1.05

(0.99, 1.12)

1.29

buvir metabo

(1.03, 1.13)

1 2 1

l estradiol: 1.15

thindrone: 1.6

(0.55, 0.74)

Ratio (90% Confidence Interval) of

with/without atazanavir; No Effect = 1.00

AUC

(0.91, 1.03)

(1.16, 1.34)

(1.75, 2.16)

0.30 (0.26, 0.34)

0.66

0.66

(0.59, 0.73)

acetyl-diltiazeı

thinyl estradiol:

1.48 (1.31, 1.68)

thinyl estradiol:

7-deacetyl

orgestimate: 1.85

(1.67, 2.05)

≥6.53°

(5.24, 8.14)

≥1.64 ⁹

10.58

(7.78, 14.39)

4.76 (4.07, 5.56)

(R)-methadone

0.85 (0.78, 0.93) 0.94 (0.87, 1.02) 1.02 (0.93, 1.12

(1.17, 1.34)

1 26

(1.17, 1.36)

1.45

(1.20, 1.76)

2 10

(1.57, 2.79)

25-0-desacetyl

rifabutin:

(15.97, 30.34)

25-0-desacety

rifabutin:

10.90

.14, 14.61)

(1.23, 1.39)

1.35

(1.26, 1.44)

0.83

(0.77, 0.89)

↑3-fold°

(4.04, 7.47)

140

(1.25, 1.57)

sofosbuvir

metabolite

GS-33100

1.25 (1.16, 1.36

1.93

1.03 (0.95, 1.10)

1.48, 1.82)

norethindrone:

(0.60, 0.74)

inetic Paran

(1.08, 1.46)

(0.88, 1.19)

2.60 (2.35, 2.88

0.38 (0.34, 0.42

(0.91, 1.41)

1.25

(0.92, 1.69)

esacetyl-diltiaze

ethinyl estradiol:

1.91 (1.57, 2.33)

ethinyl estradio

17-deacetyl

2.02 (1.77, 2.31)

(9.85, 20.7)

≥2.29^s

(1.95, 2.68)

11.64

(7.96, 17.02)

(5.51, 7.54)

(R)-methadone

1.11 (1.02, 1.20

(1.22, 1.43)

1.35

(1.25, 1.47)

NA

(1.98, 5.96)

25-0-desacetyl

rifabutin

75.6

(30.1, 190.0)

25-0-desacetyl rifabutin: 11.45

(8.15, 16.10)

NA

NA

(5.29, 8.91)

NA

1.48" (1.19, 1.84) 1.40" (1.05, 1.87)

norethindrone:

2.25 (2.09, 2.16) 2.42 (2.14, 2.73)

2.65 (2.45, 2.87) 2.21 (2.02, 2.42)

2.10 (1.68, 2.62) 3.62 (2.57, 5.09)

0.81 (0.75, 0.87) 0.63 (0.55, 0.71)

stered Drug Pharma

and C_{min} (2.4-fold), with a decrease in C_{max} (29%) relative to atazanavir 400 mg once daily in the absence of omeprazole (study days 1-6).

, = 3190 ng/mL, AUC = 34459 ngh/mL, and C_m = 491 ng/mL. Study was conducted in HIV-infected individuals.

tered Drug

Dose/Schedule

1 gm BID, d 1-20

(n = 10)

50 mg QD, d 7–1

(n = 19) and d 19-23

500 mg BID,

d 7–10 (n=21) and

d 18–21

400 mg d 1 (fasted) d 8 (fed) (n=34)

400 mg d 1 (fasted)

d 19 (fed) (n=31)

30 mg QD, d 7–11 (n=2

and d 19–23

Ortho-Novum

7/7/7 QD,

d 1–29

(n = 19)

Ortho Tri-Cyclen

QD, d 1-28 (n=18), then

Ortho Tri Cvclen

LO QD, d 29–42e

300 mg glecaprevi

(n = 12) 120 mg pibrentasvir

(n = 12)

grazoprevir 200 mg

 $QD d 1 \cdot 35 (n = 12)$

elbasvir 50 mg QC

d 1 · 35 (n = 10)

dose, d 1–15 (n=16)

200 mg BID,

d 1-23 (n=23)

40 mg single dose

d 7 and d 20 (n = 16

300 ma QD, d 1–10

then 150 mg QD, d 11–20 (n=3)

150 mg twice

weekly, d 1–15 (n=7)

4 mg QD

for 5 days

4 mg single dose, d 1, 7, 17 (n = 14)

single dose

200 mg QI

d 1–13 (n=7)

400 ma sofosbuv

single dose

(n = 15)

100 mg velpatasvir

Stable maintenanc

(n = 14)

Results should be interpreted with caution because the subgroups were sma Administered as a fixed-dose product There were insufficient data (n < 3) for PI substitutions V321, I47V, G48V, I50V, and F53L.

The response rates of antiretroviral-experienced subjects in Study AI424-045 were analyzed by baseline phenotype (shift in susceptibility in cell culture relative to reference, Table 25). The analyses are based on a select patient population with 62% of patients receiving an NNRTI-based regimen before study entry compared to 35% eiving a PI-based regimen. Additional data are needed to determine clinically relevant break points for atazanavi

Table 25: Baseline Phenotype by Outcome. Antiretroviral-Exnerienced Subjects in Study 24/24.045 Ac Treated Analysis

		Virologic Response = HIV RNA < 400 copies/mL ^b					
	Baseline Phenotype [*] atazanavir with ritonavir lopinavir/riton (n=111) (n=111)						
	0-2	71% (55/78)	70% (56/80)				
	> 2-5	53% (8/15)	44% (4/9)				
	>5-10	13% (1/8)	33% (3/9)				
	>10	10% (1/10)	23% (3/13)				
Fold change susceptibility in cell cu	Iture relative to the wild-type r	eference.	•				

Results should be interpreted with caution because the subgroups were small

⁶ Administered as a fixed-dose product. NONCLINICAL TOXICOLOGY 13

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term carcinogenicity studies in mice and rats were carried out with atazanavir for two years. In the mouse study, drug-related increases in hepatocellular adenoma: were found in females at 360 mg/kg/day. The systemic drug exposure (AUC) at the NOAEL (no observable adverse effect level) in females, (120 mg/kg/day) was 2.8 times and in males (80 mg/kg/day) was 2.9 times higher than those in humans at the clinical dose (300 mg/day atazanavir boosted with 100 mg/day ritonavir, non-pregnant patients). In the rat study, no drug-related increases in tumor incidence were observed at doses up to 1200 mg/kg/day, for which AUCs were 1.1 (males) or 3.9 (females) times those measured in humans at the clinical dose.

Atazanavir tested positive in an in vitro clastogenicity test using primary human lymphocytes, in the absence and presence of metabolic activation. Atazanavir tested negative in the in vitro Ames reverse-mutation assay, in vivo micronucleus and DNA repair tests in rats, and in vivo DNA damage test in rat duodenum (come Impairment of Fertility

At the systemic drug exposure levels (AUC) 0.9 (in male rats) or 2.3 (in female rats) times that of the human clinical dose, (300 mg/day atazanavir boosted with 100 mg/day ritonavir) significant effects on mating, fertility, or early embryonic development were not observed

14 CLINICAL STUDIES

14.1 Adult Subjects without Prior Antiretroviral Therapy

Study Al424-138: a 96-week study comparing the antivial efficacy and safety of either atazanavir or lopinavir/ritonavir, each in combination with fixed-dose tenofovir DF-emtricitabine in treatment-naive subjects with HIV-1 infection. Study Al424-138 (NCT00272779) was a 96-week, open-label, randomized, multicenter study, comparing atazanavir (300 mg once daily) with ritonavir (100 mg once daily) to lopinavir/ritonavir (400/100 mg twice daily as fixed-dose product), each in combination with the fixed-dose product, tenofovir DF/emtricitabine (300/200 mg once daily), in 878 antiretroviral treatment-naive subjects. Subjects had a mean age of 36 years (range: 19 to 72), 49% were Caucasian, 18% Black, 9% Asian, 23% Hispanic/Mestizo/mixed race, and 68% were male. The median baseline plasma CD4 + cell count was 2124 cells/min (range: 2 to 810 cells/min) and the mean baseline plasma HIV-1 RNA level was 4.94 log₁₀ copies/mL (range: 2.60 to 5.88 log₁₀ copies/mL). Treatmen response and outcomes through Week 96 are presented in Table 26.

Table 26: Outcomes of Treatment Through Week 96 in Treatment-Naive Adults (Study Al424-138)

Outcome	Atazanavir 300 mg with ritonavir 100 mg (once daily) and tenofovir DF/emtricitabine (once daily)" (n=441) 96 Weeks	lopinavir/ritonavir [*] 400 mg/100 mg (twice daily) with tenofovir DF/emtricitabine (once daily)* (n=437) 96 Weeks
Responder	75%	68%
Virologic failure ^t	17%	19%
Rebound	8%	10%
Never suppressed through Week 96	9%	9%
Death	1%	1%
Discontinued due to adverse event	3%	5%
Discontinued for other reasons [®]	4%	7%

s a fixed-dose product: 300 mg tenofovir DF/200 mg emtricitabine once daily. As a fixed-dose product: 400 mg lopinavir/100 mg ritonavir (twice daily).

As a nace use product, for ing topinatin rooming topinatin (where dair); Subjects achieved HU: I RNA < 50 copies/hu at Week 86. Acote Amplicon, v1.5 ultra-sensitive assay. ⁴ Pre-specified ITT analysis at Week 48 using as randomized cohort: atazanavir with ritonavir 78% and lopinavir/ritonavir 76% (difference estimate: 1.7% [95% interval: - 3.8%, 7,1%]

Pre-specified ITT analysis at Week 96 using as-randomized cohort: atazanavir with ritonavir 74% and lopinavir/ritonavir 68% (difference estimate: 6.1% [95% confidence interval: 0.3%, 12.0%]).

commence interval. U.S. A. (2000). Includes viral rebound and failure to achieve confirmed HIV-1 RNA < 50 copies/mL through Week 96. Includes lost to follow-up, patient's withdrawal, noncompliance, protocol violation, and other reasons.

Through 96 weeks of therapy, the proportion of responders among patients with high viral loads (ie, baseline HIV-1 RNA \geq 100,000 copies/mL) was comparable for the atazanavir with ritonavir (165 of 223 subjects, 74%) and lopinavir/ritonavir (148 of 222 subjects, 67%) arms. At 96 weeks, the median increase from baseline in CD4+ cell count was 261 cells/mm³ for the atazanavir with ritonavir arm and 273 cells/mm³ for the lopinavir/ritonavir arm.

Study Al424-034: Atazanavir once daily compared to efavirenz once daily, each in combination with fixed-dose lamivudine/zidovudine twice daily. Study Al424-034 (NCT00013897) was a randomized, double-blind, multicenter trial comparing atazanavir (400 mg once daily) to efavirenz (600 mg once daily), each in combination with the fixed-dose product of lamivudine (zidovudine (150 mg/300 mg) given twice daily, in 810 antiretroviral treatment-naive subjects. Subjects had a mean age of 34 years (range: 18 to 73), 36% were Hispanic, 33% were Caucasian, and 65% were male. The mean baseline CD4 + cell count was 321 cells/mm² (range: 64 to 1424 cells/mm²) and the mean baseline plasma HIV-1 RNA level was 4.8 log, copies/mL (range: 2.2 to 5.9 log, copies/mL). Treatment response and outcomes through Week 48 are presented in Table 27.

Table 27: Outcomes of Randomized Treatment Through Week 48 in Treatment-Naive Adults (Study Al424-034)

Outcome	Atazanavir 400 mg once daily and Iamivudine/zidovudine ⁴ (n=405)	efavirenz 600 mg once daily and lamivudine/zidovudine ^d (n=405)
Responder	67% (32%)	62% (37%)
Virologic failure ^b	20%	21%
Rebound	17%	16%
Never suppressed through Week 96	3%	5%
Death	-	<1%
Discontinued due to adverse event	5%	7%
Discontinued for other reasons ⁶	8%	10%

Subjects achieved and maintained confirmed HIV-1 RNA < 400 copies/mL (< 50 copies/mL) through Week 48. Roche Amplicor "HIV-1 Monitor[™] Assay, test version 1.0 or 1.5 as geographically appropriate.

ncludes viral rebound and failure to achieve confirmed HIV-1 RNA < 400 copies/mL through Week 48.

Includes lost to follow-up, patient's withdrawal, noncompliance, protocol violation, and other reasons.

⁴ As a fixed dose product: 150 mg lamivudine/300 mg zidovudine twice daily.

Through 48 weeks of the another the proportion of responders among subjects with high viral loads (ie. baseline HIV-1 RNA > 100.000 conjes/mL) was comparable for the r and efavirenz arms. The mean increase from baseline in CD4 + cell count was 176 cells/mm³ for the atazanavir arm and 160 cells/mm³ for the efavirenz arm.

Study AI424-008: Atazanavir 400 mg once daily compared to atazanavir 600 mg once daily, and compared to nelfinavir 1250 mg twice daily, each in combination with stavudine and lamivudine twice daily. Study Al424-008 (NCT identifier not available) was a 48-week, randomized, multicenter trial, blinded to dose of atazanavir, comparing atazanavir at two dose levels (400 mg and 600 mg once daily) to nelfinavir (1250 mg twice daily), each in combination with stavudine (40 mg) and lamivudine (150 mg) given twice daily, in 467 antiretroviral treatment-naive subjects. Subjects had a mean age of 35 years (range: 18 to 69), 55% were Caucasian, and 63% were nale. The mean baseline CD4 + cell count was 295 cells/mm³ (range: 4 to 1003 cells/mm³) and the mean baseline plasma HIV-1 RNA level was 4.7 log 🕫 copies/mL (range 1.8 to 5.9 log₁₀ copies/mL). Treatment response and outcomes through Week 48 are presented in Table 28.

Table 28: Outcomes of Randomized Treatment Through Week 48 in Treatment-Naive Adults (Study Al424-008)

Outcome	Atazanavir 400mg once daily with lamivudine and stavudine (n=181)	nelfinavir 1250mg twice daily with lamivudine and stavudine (n=91)	
Responder ^a	67% (33%)	59% (37%)	
Virologic failure ^b	24%	27%	
Rebound	14%	14%	
Never suppressed through Week 48	10%	13%	
Death	<1%		
Discontinued due to adverse event	1%	3%	
Discontinued for other reasons ⁶	7%	10%	

Subjects achieved and maintained confirmed HIV-1 RNA < 400 copies/mL (< 50 copies/mL) through Week 48. Roche Amplicor*HIV-1 Monitor* Assay, test version 1.0 or 1.5 as geographically appropriate.

ed HIV-1 RNA < 400 conies/mL through Week 48. d and failure to achie

Atazanavir 300 mg with ritonavir 100 mg							
Pharmacokinetic Parameter 2nd Trimester (n=5*) 3rd Trimester Postpartum* (n=20) (n=34)							
C _{max} ng/mL	3078.85	3291.46	5721.21				
Geometric mean (CV%)	(50)	(48)	(31)				
AUC ng•h/mL	27657.1	34251.5	61990.4				
Geometric mean (CV%)	(43)	(43)	(32)				
C _{min} ng/mL ^c	538.70	668.48	1462.59				
Geometric mean (CV%)	(46)	(50)	(45)				

^a Available data during the 2nd trimester are limited.

Atazanavir peak concentrations and AUCs were found to be approximately 28% to 43% higher during the postpartum period (4 to 12 weeks) than those observed historically in, non-pregnant patients with HIV-1 Infection. Atazanavir plasma trough concentrations were approximately 2.2-fold higher during the postpartum period torically in non-pregnant patients with HIV-1 infection

^c C_{min} is concentration 24 hours post-dose.

Drug Interaction Data

Atazanavir is a metabolism-dependent CYP3A inhibitor, with a K_{inet} value of 0.05 to 0.06 min¹ and K_ivalue of 0.84 to 1.0 μ M. Atazanavir is also a direct inhibitor for UGT1A1 (K_i = 1.9 μ M) and CYP2C8 (K_i = 2.1 μ M).

Atazanavir has been shown in vivo not to induce its own metabolism nor to increase the biotransformation of some drugs metabolized by CYP3A. In a multiple-dose study,

atazanavir decreased the urinary ratio of endogenous 6eta-OH cortisol to cortisol versus baseline, indicating that CYP3A production was not induced Clinically significant interactions are not expected between atazanavir and substrates of CYP2C19 CYP2C9 CYP2D6 CYP2A6 CYP2A6 CYP1A2 or CYP2F1

Clinically significant interactions are not expected between atazanavir when administered with ritonavir and substrates of CYP2C8. See the complete prescribing information for ritonavir for information on other potential drug interactions with ritonavir.

Based on known metabolic profiles, clinically significant drug interactions are not expected between atazanavir and dapsone, trimethop m/sulfamethoxazole, azithromycin, or romycin. Atazanavir does not interact with substrates of CYP2D6 (eg, nortriptyline, desipramine, metoprolol).

Drug interaction studies were performed with atazanavir and other drugs likely to be coadministered and some drugs commonly used as probes for pharmacokinetic interactions. The effects of coadministration of atazanavir on the AUC, C 📖 and C 📷 are summarized in Tables 21 and 22. Neither didanosine EC nor diltiazem had a significant effect on atazanavie exposures (see Table 22 for effect of atazanavier on didanosine EC or diltiazem exposures). Atazanavie did not have a significant effect on atazanavie exposures of didanosine (when administered as the buffered tablet), stavudine, or fluconazole. For information regarding clinical recommendations, see *Drug* Interactions (7)

Table 21: Drug Interactions: Pharmacokinetic Parameters for Atazanavir in the Presence of Coadministered Drugs

Coadministered Drug	Coadministered Drug Dose/Schedule	Atazanavir Dose/Schedule	Ratio (90% Confidence Interval) of Atazanavir Pharmacokinetic Parameters with/without Coadministered Drug; No Effect = 1.00			
			C _{max}	AUC	C _{min}	
atenolol	50 mg QD, d 7–11 (n=19) and d 19–23	400 mg QD, d 1–11 (n=19)	1.00 (0.89, 1.12)	0.93 (0.85, 1.01)	0.74 (0.65, 0.86)	
d 19–23 clarithromycin 500 mg BID, d 7–10 (n = 29) and d 18–21		400 mg 0D, d 1–10 (n=29)	1.06 (0.93, 1.20)	1.28 (1.16, 1.43)	1.91 (1.66, 2.21)	
didanosine (ddl) (buffered tablets) and stavudine (d4T) ^b	ddl: 200 mg x 1 dose, d4T: 40 mg x 1 dose (n=31)	400 mg x 1 dose simultaneously with ddl and d4T (n = 31)	0.11 (0.06, 0.18)	0.13 (0.08, 0.21)	0.16 (0.10, 0.27)	
	ddl: 200 mg x 1 dose, d4T: 40 mg x 1 dose (n=32)	400 mg x1 dose 1 h after dd1 + d4T (n=32)	1.12 (0.67, 1.18)	1.03 (0.64, 1.67)	1.03 (0.61, 1.73)	
efavirenz	600 mg QD, d 7–20 (n=27)	400 mg QD, d 1–20 (n=27)	0.41 (0.33, 0.51)	0.26 (0.22, 0.32)	0.07 (0.05, 0.10)	
	600 mg QD, d 7–20 (n = 13)	400 mg QD, d 1–6 (n = 23) then 300 mg with ritonavir 100 mg QD, 2 h before efavirenz d 7–20 (n = 13)	1.14 (0.83, 1.58)	1.39 (1.02, 1.88)	1.48 (1.24, 1.76)	
	600 mg QD, d 11–24 (pm) (n = 14)	300 mg QD with ritonavir 100 mg QD, d 1-10 (pm) (n=22), then 400 mg QD with ritonavir 100 mg QD, d 11-24 (pm), (simultaneously with efavirenz) (n=14)	1.17 (1.08, 1.27)	1.00 (0.91, 1.10)	0.58 (0.49, 0.69)	
famotidine	40 mg BID, d 7–12 (n = 15)	400 mg QD, d 1–6 (n=45), d 7–12 (simultaneous administration) (n=15)	0.53 (0.34, 0.82)	0.59 (0.40, 0.87)	0.58 (0.37, 0.89)	
	40 mg BID, d 7–12 (n = 14)	400 mg QD (pm), d 1–6 (n=14), d 7–12 (10 h after, 12 h before famotidine) (n=14)	1.08 (0.82, 1.41)	0.95 (0.74, 1.21)	0.79 (0.60, 1.04)	
	40 mg BID, d 11-20 (n=14) ^c	300 mg QD with ritonavir 100 mg QD, d 1–10 (n=46), d 11–20d (simultaneous administration) (n=14)	0.86 (0.79, 0.94)	0.82 (0.75, 0.89)	0.72 (0.64, 0.81)	

	d 1–12 (n=19)		zidovudine: 1.05 (0.88, 1.24) zidovudine glucuronide: 0.95 (0.88, 1.02)	zidovudine: 1.05 (0.96, 1.14) zidovudine glucuronide: 1.00 (0.97, 1.03)	zidovudine: 0.69 (0.57, 0.84) zidovudine glucuronide: 0.82 (0.62, 1.08)	Outcome HIV-1 RNA Change from Baseline	Atazanavir 300 mg with ritonavir 100 mg once daily and tenofovir DF and 1 NRTI (n=119) -1.58	lopinavir/ritonavir (400/100 mg) twice daily and tenofovir DF and 1 NRTI (n=118) - 1.70	Difference" (Atazanavir - lopinavir/ritonavir)" (Cl) +0.12° (-0.12, 0.41)
lamivudine and zidovudine	150 mg lamivudine and 300 mg zidovudine BID,	400 mg QD, d 7–12 (n = 19)	lamivudine: 1.04 (0.92, 1.16)	lamivudine: 1.03 (0.98, 1.08)	lamivudine: 1.12 (1.04, 1.21)	Table 25: Outcomes of Treatment I frou	gh Week 48 in Study Al424-045 (Subjects wi		
voriconazole (Subjects without a functional CYP2C19 allele)	50 mg BID, d 2–3, 22–30; 100 mg BID, d 1, 21 (n=8)	300 mg with ritonavir 100 mg QD, d 11–30 (n=8)	4.38 (3.55, 5.39)	5.61 (4.51, 6.99)	7.65 (5.71, 10.2)	lopinavir/ritonavir were similar for the prima not large enough to reach a definitive conc proportions below the HIV-1 RNA lower limit	ry efficacy outcome measure of time-averaged d lusion that atazanavir with ritonavir and lopinar of quantification <i>(see Microbiology, Tables 24 and</i>	ifference in change from baseline in HIV-1 vir/ritonavir are equivalent on the second 125 (12.4)).	RNA level. Study AI424-045 was
voriconazole (Subjects with at least one functional CYP2C19 allele)	200 mg BID, d 2–3, 22–30; 400 mg BID, d 1, 21 (n=20)	300 mg with ritonavir 100 mg QD, d 11–30 (n=20)	0.90 (0.78, 1.04)	0.67 (0.58, 0.78)	0.61 (0.51, 0.72)	139 weeks for PIs, 85 weeks for NNRTIs, ar baseline CD4 + cell count was 338 cells/mm copies/mL).	and 283 weeks for NRTIs. The mean age was 41 y "(range: 14 to 1543 cells/mm ³) and the mean base the atazanavir with ritonavir and lopinavir/ritonar	ears (range: 24 to 74); 60% were Caucasia line plasma HIV-1 RNA level was 4.4 log ₁₀ (an, and 78% were male. The mean copies/mL (range: 2.6 to 5.88 log ₁₀
	300 mg QD, d 1–7 (pm) (n=14) d 25–34 (pm) (n=12)	300 mg QD with ritonavir 100 mg QD, d 25–34 (am) (n= 12)r	1.34 (1.20, 1.51)	1.37 (1.30, 1.45)	1.29 (1.21, 1.36)	atazanavir (300 mg once daily) with ritonav lopinavir/ritonavir (400/100 mg twice daily	ination with tenofovir DF and one NRTI. Study A ir (100 mg once daily) to atazanavir (400 mg on r as fixed-dose product), each in combination w e antiretroviral therapy regimens containing Pls,	ce daily) with saquinavir soft gelatin caps ith tenofovir DF and one NRTI, in 347 (o	ules (1200 mg once daily), and to f 358 randomized) subjects who
tenofovir DFª	300 mg QD, d 9–16 (n=33) and d 24–30 (n=33)	400 mg QD, d 2–16 (n=33)	1.14 (1.08, 1.20)	1.24 (1.21, 1.28)	1.22 (1.15, 1.30)	14.2 Adult Subjects with Prior Antiret Study Al424-045: Atazanavir once daily wi	th ritonavir once daily compared to atazanavir of		
	100 mg voxilaprevir single dose (n = 15)	300 mg with 100 mg ritonavir single dose (n=15)	4.42 (3.65, 5.35)	4.31 (3.76, 4.93)	NA		wal, noncompliance, protocol violation, and othe crease from baseline in CD4+ cell count w		ng arm and 211 cells/mm³ for the
	single dose (n = 15)	ritonavir single dose (n=15)	(1.07, 1.56)	(1.58, 2.36)			e confirmed HIV-1 RNA $<$ 400 copies/mL through		

provided are under fed conditions unless otherwise noter 400 mg ddl EC and atazanavir were administered together with food on Days 8 and 19.

Upon further dose normalization of ethinyl estradiol 25 mcg with atazanavir relative to ethinyl estradiol 35 mcg without atazanavir the ratio of geometric means (90% intervals) for C_{ma}, AUC, and C_{min} were 0.82 (0.73, 0.92), 1.06 (0.95, 1.17), and 1.35 (1.11, 1.63), respectively. Upon further dose normalization of ethinyl estradiol 35 mcg with atazanavir with ritonavir relative to ethinyl estradiol 25 mcg without atazanavir with ritonavir, the ratio

of geometric means (90% confidence intervals) for C_{min}, AUC, and C_{min} were 1.17 (1.03, 1.34), 1.13 (1.05, 1.22), and 0.88 (0.77, 1.00), respectively. All subjects were on a 28-day lead-in period; one full cycle of Ortho Tri-Cyclen[®]. Ortho Tri-Cyclen[®] contains 35 mcg of ethinyl estradiol. Ortho Tri-Cyclen[®] LO contains 25 mcg of ethinyl estradiol. Results were dose normalized to an ethinyl estradiol dose of 35 mcg. 7-deacetyl norgestimate is the active component of norgestimate.

Effect of atazanavir with ritonavir on the first dose of glecaprevir and pibrentasvir is reported.

R)-methadone is the active isomer of methadone.

udy was conducted subjects with HIV-1 infection.

ubjects were treated with nevirapine prior to study entry neprazole was used as a metabolic probe for CYP2C19. Omeprazole was given 2 hours after a tazanavir on Day 7; and was given alone 2 hours after a light meal on Day

ot the recommended therapeutic dose of atazanavi

hen compared to rifabutin 150 mg QD alone d1–10 (n = 14). Total of rifabutin + 25-0-desacetyl-rifabutin: AUC 2.19 (1.78, 2.69).

osiglitazone used as a probe substrate for CYP2C8. ean ratio (with/without coadministered drug). ↑ indicates an increase in rosuv

the combination of atazanavir and saquinavir 1200 mg 0D produced daily saquinavir exposures similar to the values produced by the standard therapeutic dosing of aquinavir at 1200 mg TID. However, the C_{ma} is about 79% higher than that for the standard dosing of saquinavir (soft gelatin capsules) alone at 1200 mg TID. ote that similar results were observed in a study where administration of tenofovir DF and atazanavir was separated by 12 hours.

ministration of tenofovir DF and atazanavir was temporally separated by 12 hours NA = not available.

2.4 Microbiology

echanism of Action

azanavir (ATV) is an azapeptide HIV-1 protease inhibitor (PI). The compound selectively inhibits the virus-specific processing of viral Gag and Gag-Pol polyproteins in -1 infected cells, thus preventing for tiviral Activity in Cell Cultur

azanavir exhibits anti-HIV-1 activity with a mean 50% effective concentration (EC 🞣 in the absence of human serum of 2 to 5 nM against a variety of laboratory and

iical HIV-1 isolates grown in peripheral blood mononuclear cells, macrophages, CEM-SS cells, and MT-2 cells. Atazanavir has activity against HIV-1 Group M subtype uses A, B, C, D, AE, AG, F, G, and J isolates in cell culture. Atazanavir has variable activity against HIV-2 isolates (1.9-32 nM), with EC₄₀ values above the EC₄₀ values of lure isolates. Two-drug combination antiviral activity studies with atazanavir showed no antagonism in cell culture with PIs (amprenavir, indinavir, lopinavir, nelfinavir, navir, and saquinavir), NNRTIS (delavirdine, efavirenz, and nevirapine), NRTIS (abacavir, didanosine, emtricitabine, lamivudine, stavudine, tenofovir DF, and widine), the HIV-1 fusion inhibitor enfuvirtide, and two compounds used in the treatment of viral hepatitis, adefovir and ribavirin, without enhanced cytotoxicity.

Cell Culture: HIV-1 isolates with a decreased susceptibility to atazanavir have been selected in cell culture and obtained from patients treated with atazanavir or analysis in the provided with each of the second se tease cleavage sites following drug selection. Recombinant viruses containing the ISOL substitution without other major PI substitutions were growth impaired and played increased susceptibility in cell culture to other PIs (amprenavir, indinavir, lopinavir, nelfinavir, ritonavir, and saquinavir). The ISOL and ISOV substitutions yielded ective resistance to atazanavir and amprenavir, respectively, and did not appear to be cross-resistant.

linical Studies of Treatment-Naïve Subjects: Comparison of Ritonavir-Boosted Atazanavir vs Unboosted Atazanavir: Study A1424-089 compared atazanavir 300 mg once y with ritonavir 100 mg vs atazanavir 400 mg once daily when administered with lamivudine and extended-release stavudine in treatment-naive subjects with HIV-1 fection. A summary of the number of virologic failures and virologic failure isolates with atazanavir resistance in each arm is shown in Table 23.

ble 23: Summary of Virologic Failures' at Week 96 in Study Al424-089: Comparison of Ritonavir Boosted Atazanavir vs Unboosted Atazanavir:

	Atazanavir 300 mg with ritonavir 100 mg (n=95)	Atazanavir 400 mg (n=105)
Virologic Failure (\geq 50 copies/mL) at Week 96	15 (16%)	34 (32%)
Virologic Failure with Genotypes and Phenotpyes Data	5	17
Virologic Failure Isolates with atazanavir-resistance at Week 96	0/5 (0%) ^b	4/17 (24%) ^b
Virologic Failure Isolates with ISOL Emergence at Week 96°	0/5 (0%) ^b	2/17 (12%) ⁶
Virologic Failure Isolates with Lamivudine Resistance at Week 96	2/5 (40%) ^b	11/17 (65%) ^b

irologic failure includes subjects who were never suppressed through Week 96 and on study at Week 96, had virologic rebound or discontinued due to insufficient viral Bottles of 30 with child-resistant closure oad response. Percentage of Virologic Failure Isolates with genotypic and phenotypic data.

Aixture of I501/L emerged in 2 other ATV 400 mg-treated subjects. Neither isolate was phenotypically resistant to atazanavir

linical Studies of Treatment-Naive Subjects Receiving Atazanavir 300 mg with Ritonavir 100 mg; In Phase 3 Study Al424-138, an as-treated genotypic and phenotypic

unalysis was conducted on samples from subjects who experienced virologic failure (HIV-1 RNA ≥ 400 copies/mL) or discontinued before achieving suppression on atazanavir with ritonavir (n = 39; 9%) and lopinavir/ritonavir (n = 39; 9%) through 96 weeks of treatment. In the atazanavir with ritonavir arm, one of the virologic failure

17 PATIENT COUNSELING INFORMATION isolates had a 56-fold decrease in atazanavir susceptibility emerge on therapy with the development of PI resistance-associated substitutions L10F, V32I, K43T, M46I, A71I, G73S, I85I/V, and L90M. The NRTI resistance-associated substitution M184V also emerged on treatment in this isolate conferring emtricitabine resistance. Two

 Manuf. HET Jeedim India Issued:	Manufactured for: Camber Pharmaceuticals, In Piscataway, NJ 08854	What are the ingredients in a Active ingredient: atazanavi Inactive ingredients: crospo shells contain the following ir dioxide, In addition 150 mg cap Yellow 6, 300 mg also contai oxide black, potassium hydroxin oxide black, potassium hydroxin The brands listed are the traden Limited.	Keep atazanavir capsules an General information about th Medicines are sometimes pre- leaflet. Do not use atazanavir atazanavir capsules to other pe them. If you would like more pharmacist or healthcare provi professionals. For more information, call 1-86	Call your doctor for medics FDA-1088. How should I store atazan Atazanavir capsules: Store atazanavir capsu Keep capsules in a tight	 headache stomach-area pain vomiting trouble sleeping numbness, tingling, ort of hands or feet Tell your healthcare provider if These are not all the possible healthcare provider or pharmaci 	 Changes increased part of y cause an cause an Increase inhibitors The most cor 	Yellowing of your skin o may be a symptom of a ser in your blood (bilirubin is n the white part of your eyes New or worsening diab people who take protease start taking medicine to trr your healthcare provider if taking atazanavir capsules Changes in your immun start taking HIV-1 medicir that have been hidden in y	 Investigation in the second sec	 Chronic kidney disease healthcare provider will do capsules and during treatm Kidney stones have happ
JO 055,	at <u>http://camberpl</u> ,	in atazanavir capsules? avir sulfate g inactive ingredients: ge capsule shell contains iror ntains FD&C Red 3. The ca oxide, propylene glycol, sh ademarks of their respections ademarks of their respections	and all medii the safe and rescribed for rir capsules f people, even pre informati ovider for info sovider for info	dvice about side effe i r capsules? at room temperature, losed container.	orburning · if you have an ole side effects	rung atazanavir capsu an happen in people t in the upper back and). Loss of fat from th (). Loss of fat from th theffects of these con theffects of these con blems in people wit capsules. ts of atazanavir capsu	r the white part o lous problem. These ade by the liver). To turns yellow. etes and high blo inhibitor medicines inhibitor medicines at diabetes or have you notice an incre s system (Immune s. Your immune sy es. Your immune sy es. Your immune sy	Tell your healthcare le pain in your low b re happened in some ion. Tell your health hmay include: iddle upper stomach	I do blood and urine tests atment. Drink plenty of flu appened in some people v

Outcome	Atazanavir 300 mg with ritonavir 100 mg once daily and tenofovir DF and 1 NRTI (n=119)	lopinavir/ritonavir (400/100 mg) twice daily and tenofovir DF and 1 NRTI (n=118)	Difference" (Atazanavir - Iopinavir/ritonavir) [®] (CI)
HIV-1 RNA Change from Baseline (log ₁₀ copies/mL) ^c	- 1.58	-1.70	+0.12 ^c (-0.17, 0.41)
CD4 + Change from Baseline $(cells/mm^3)^e$	116	123	-7 (-67, 52)
Percent of Patients Responding®			
HIV-1 RNA $<$ 400 copies/mL $^{\circ}$	55%	57%	-2.2% (-14.8%, 10.5%)
HIV-1 RNA $<$ 50 copies/mL $^\circ$	38%	45%	-7.1%

* Time-averaged difference through Week 48 for HIV-1 RNA; Week 48 difference in HIV-1 RNA percentages and CD4 + mean changes, atazanavir with ritonavir vs lopinavir/ritonavir; CI = 97.5% confidence interval for change in HIV-1 RNA; 95% confidence interval otherwise. Administered as a fixed-dose product.

Roche Amplicor[®]HIV-1 Monitor[™] Assay, test version 1.5.

Protocol-defined primary efficacy outcome measure

Based on patients with baseline and Week 48 CD4 + cell count measurements (atazanavir with ritonavir, n = 85; lopinavir/ritonavir, n = 93). Subjects achieved and maintained confirmed HIV-1 RNA < 400 copies/mL (< 50 copies/mL) through Week 48.

No subjects in the atazanavir with ritonavir treatment arm and three subjects in the lopinavir/ritonavir treatment arm experienced a new-onset CDC Category C event during the study.

In Study AI424-045, the mean change from baseline in plasma HIV-1 RNA for atazanavir 400 mg with saquinavir (n = 115) was -1.55 log to copies/mL, and the timeaveraged difference in change in HIV-1 RNA levels versus lopinavir/ritonavir was 0.33. The corresponding mean increase in CD4+ cell count was 72 cells/mm³. Througl 48 weeks of treatment, the proportion of subjects in this treatment arm with plasma HIV-1 RNA < 400 (<50) copies/mL was 38% (26%). In this study, coadministration of atazanavir and saquinavir did not provide adequate efficacy (see Drug Interactions (7)).

Study AI424-045 also compared changes from baseline in lipid values. (See Adverse Reactions (6.1).)

Study AI424-043 (NCT00028301): Study AI424-043 was a randomized, open-label, multicenter trial comparing atazanavir (400 mg once daily) to lopinavir/ritonavir (400/100 mg twice daily as fixed-dose product), each in combination with two NRTIs, in 300 subjects who experienced virologic failure to only one prior PI-containing regimen. Through 48 weeks, the proportion of subjects with plasma HIV-1 RNA < 400 (< 50) copies/mL was 49% (35%) for subjects randomized to atazanvir (n = 144) and 69% (53%) for subjects randomized to lopinavir/ritonavir (n = 146). The mean change from baseline was - 1.59 log 10 grad copies/mL in the atazanvir treatment arm and -2.02 log₁₀ copies/mL in the lopinavir/ritonavir arm. Based on the results of this study, atazanvir without ritonavir was inferior to lopinavir/ritonavir in PI-experienced subjects with prior virologic failure and is not recommended for such patients.

14.3 Pediatric Subjects

Pediatric Trials with Atazanavir Capsules Study AI424-040; PACTG 1020A (NCT00006604): Assessment of the pharmacokinetics, safety, tolerability, and virologic response of atazanvir capsules was based on data from this open-label, multicenter clinical trial which included subjects from 6 years to 21 years of age. In this study, 105 subjects (43 antiretroviral-naive and 62 antiretroviral-experienced) received once daily atazanvir capsule formulation, with or without ritonavir, in combination with two NRTIs.

One-hundred five (105) subjects (6 to less than 18 years of age) treated with the atazanvir capsule formulation, with or without ritonavir, were evaluated. Using an intent-to-treat (ITT) analysis, the overall proportions of antiretroviral-naive and -experienced subjects with HIV-1 RNA < 400 copies/mL at Week 96 were 51% (22/43) and 34% (21/62), respectively. The overall proportions of antiretroviral-naive and -experienced subjects with HIV-1 RNA < 50 copies/mL at Week 96 were 47% (20/43) and 24% (15/62), respectively. The median increase from baseline in absolute CD4 count at 96 weeks of therapy was 335 cells/mm³ in antiretroviral-naive subjects and 220 cells/mm³ in antiretroviral-experienced subjects.

16 HOW SUPPLIED/STORAGE AND HANDLING

Atazanavir Capsules 150 mg are off white to pale yellow colored granular powder filled in size "1" hard gelatin capsules with green opaque cap imprinted with "H" in black color and light green opaque body imprinted with "A6" in black color. Bottles of 60 with child-resistant closure NDC 31722-653-60

Bottles of 1000 with child-resistant closure NDC 31722-653-10 Carton of 100 (10 × 10) unit-dose capsules NDC 31722-653-31 150 mg atazanavir equivalent to 170.854 mg atazanavir sulfate.

Atazanavir Capsules 200 mg are off white to pale yellow colored granular powder filled in size "O" hard gelatin capsules with green opaque cap imprinted with "H" in black color and light green opaque body imprinted with "A7" in black color.

Bottles of 60 with child-resistant closure NDC 31722-654-60 Bottles of 1000 with CT closure NDC 31722-654-10 Carton of 100 (10 × 10) unit-dose capsules NDC 31722-654-31 200 mg atazanavir equivalent to 227.805 mg atazanavir sulfate.

Atazanavir Capsules 300 mg are off white to pale yellow colored granular powder filled in size "00" hard gelatin capsules with orange opaque cap imprinted with "H" in black color and green opaque body imprinted with "A8" in black color.

NDC 31722-655-30 Bottles of 500 with child-resistant closu NDC 31722-655-05 NDC 31722-655-31 Carton of 100 (10 × 10) unit-dose capsules 300 mg atazanavir equivalent to 341.708 mg atazanavir sulfate.

Store atazanavir capsules at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

Advise the patient to read the FDA-approved patient labeling (Patient Information)

Atazanavir capsules are not a cure for HIV-1 infection. Advise patients to remain under the care of a healthcare provider while using atazanavir capsule

may affec o check yo is during tr no take at: ider right or low sto ple who ta e provider ffect how well your kidneys work. Your ‹ your kidneys before you start atazanavir ng treatment with atazanavir capsules. atazanavir capsules, and sometimes may ght away if you get symptoms of kidney ght away if you get symptoms of kidney stomach area, blood in your urine, or pain

ke atazanavir capsules, and sometimes right away if you get symptoms of a

eyes turns yellow es ymptoms may be due to increases in bilirubin levels ell your healthcare provider right away if your skin or slike atazanavir capsules. Some people have had to achanges to their dose of their diabetes medicine. Tell ase in thirst or if you start urinating more often while **Beconstitution Syndrome**) can happen when you ystem may get stronger and begin to fight infections time. Tell your healthcare provider if you start having ules. **Beconstitution Syndrome**) can happen when you ystem may get stronger and begin to fight infections time. Tell your healthcare provider if you start having ules. **Beconstitution Syndrome**) can happen when you yinclude taking HIV-1 medicines. These changes may include d neck ("buffalo hump"), breast, and around the main he legs, arms, and face may also happen. The exact nditions are not known. **th hemophilia** have happened when taking protease musclepain diarrhea depression • fever • fever seffect that bothers you or that does not go away. tazanavir capsules. For more information, ask your facts. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side effects to FDA at 1.800-fects. You may report side in a Patient Information dition for which it was not prescribed. Do not give tave the same symptoms that you have. It may harm with your healthcare provider. You can ask your about atazanavir capsules that is written for health o nausea and vomiting o your skin or the white part of your eyes turns yellow s is common with atazanavir capsules but s may be due to increases in bilirubin levels Ithcare provider right away if your skin or

y, and magnesium stearate. The capsule D&C Blue 1, iron oxide yellow, titanium plack, 200 mg and 300 mg contains FD&C are printed with black ink containing iron trong ammonia solution. ers and are not trademarks of Hetero Labs

1 Drug Adm uides istration.