Atazanavir (Reyataz)

Table of Contents

- Atazanavir Reyataz Editor's Summary
- Drug Summary
- Key Clinical Trials
- Adverse Effects
- Resistance
- Key Drug Interactions

Drug Summary

Atazanavir is a protease inhibitor that, when given with a pharmacokinetic enhancer (ritonavir or cobicistat), is a potent, once-daily anchor agent for antiretroviral therapy. In the past, it was prescribed frequently for initial treatment, but in recent years several newer and better-tolerated anchor drugs have largely replaced atazanavir in clinical practice. Atazanavir causes indirect hyperbilirubinemia, which in some instances can lead to a benign but cosmetically bothersome icterus; it also can cause kidney stones or gallstones. In addition, concomitant use of certain acid-suppressive agents can significantly decrease absorption of atazanavir. If a patient is taking atazanavir as part of combination antiretroviral therapy and is tolerating it well with consistently suppressed HIV RNA levels, it is not necessary to change atazanavir to another agent, though most clinicians have a low threshold to switch the regimen if the patient has troublesome side effects. Atazanavir can be given either with or without a pharmacokinetic booster, though current guidelines recommend that it be combined with a pharmacokinetic enhancer and advise against use of unboosted atazanavir.

Key Clinical Trials

Atazanavir has primarily been studied in treatment-naïve individuals. A randomized clinical trial of initial antiretroviral therapy compared once-daily ritonavir-boosted atazanavir to twice-daily lopinavir-ritonavir, each with tenofovir disoproxil fumarate (DF)-emtricitabine, and found equivalent virologic efficacy [CASTLE]. Another randomized trial of treatment-naïve individuals compared ritonavir-boosted atazanavir, ritonavir-boosted darunavir, and raltegravir, each with tenofovir DF-emtricitabine; in this trial, the atazanavir regimen was inferior to both ritonavir-boosted darunavir and raltegravir; inferiority was primarily caused by a higher rate of adverse effects and treatment discontinuations in the atazanavir arm [ARDENT]. Investigators also compared initial therapy with ritonavir-boosted atazanavir plus tenofovir DF-emtricitabine to elvitegravir-cobicistat-tenofovir DF-emtricitabine and the two arms demonstrated equivalent virologic suppression rates [Study 103]. A study of initial therapy in women with HIV infection reported statistically inferior virologic responses with ritonavir-boosted atazanavir plus two nucleoside reverse transcriptase inhibitors (NRTIs) compared with dolutegravir-abacavir-lamivudine, primarily due to differences in tolerability and discontinuations [WAVES]. As part of initial therapy, cobicistat-boosted atazanavir was compared to ritonavir-boosted atazanavir and found to be equivalent [Study 114]. In treatment-experienced
individuals with prior treatment failure on protease-inhibitor based therapy, unboosted atazanavir plus two NRTIs demonstrated statistically lower rates of virologic suppression compared with lopinavir-ritonavir plus two NRTIs [Study 043], but ritonavir-boosted atazanavir had equivalent efficacy as lopinavir-ritonavir when each were combined with tenofovir DF and one additional NRTI [Study 045].

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**Adverse Effects**

Atazanavir competitively inhibits an enzyme responsible for the glucuronidation of bilirubin, which frequently causes a mild, asymptomatic indirect hyperbilirubinemia; occasionally this leads to overt icterus, which is not dangerous, but may be disturbing to patients. Jaundice, when it occurs, will resolve after discontinuation of atazanavir. Atazanavir can crystalize in the urinary or biliary tract and cause nephrolithiasis or cholelithiasis. It can also cause an increase in the PR interval of the electrocardiogram, mild-moderate gastrointestinal symptoms such as nausea and diarrhea. Rarely, patients taking atazanavir will develop rash or elevation of hepatic aminotransferase levels. Ritonavir-boosted atazanavir can worsen serum lipid parameters, though is better in this regard than earlier-generation protease inhibitors.

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**Resistance**

For a listing of the most common clinically significant mutations associated with atazanavir (ATV) resistance, see the PI Resistance Notes on the Stanford University HIV Drug Resistance Database.

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**Key Drug Interactions**

For complete information on atazanavir-related drug interactions, see the Drug Interactions section in the Atazanavir (Reyataz) Prescribing Information.

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