

**CARDIOVASCULAR DRUGS:
STATINS AND LIPID LOWERING AGENTS**

	INSTIs		NNRTIs		PIs
	<ul style="list-style-type: none"> • BICTEGRAVIR (<i>Biktarvy</i>) • DOLUTEGRAVIR (<i>Tivicay, Triumeq, Juluca, Dovato</i>) • RALTEGRAVIR (<i>Isentress</i>) 	<ul style="list-style-type: none"> • ELVITEGRAVIR/ COBICISTAT (<i>Stribild, Genvoya</i>) 	<ul style="list-style-type: none"> • DORAVIRINE (<i>Pifeltro, Delstrigo</i>) • RILPIVIRINE (<i>Edurant, Complera, Odefsey, Juluca</i>) 	<ul style="list-style-type: none"> • EFAVIRENZ (<i>Sustiva, Atripla</i>) • ETRAVIRINE (<i>Intelece</i>) • NEVIRAPINE (<i>Viramune</i>) 	Boosted with ritonavir (Norvir) or cobicistat <ul style="list-style-type: none"> • ATAZANAVIR (<i>Reyataz, Evotaz</i>) • DARUNAVIR (<i>Prezista, Prezcobix, Symtuza</i>) • LOPINAVIR (<i>Kaletra</i>)

STATINS

• Atorvastatin (<i>Lipitor</i>)		Potential for ↑ statin		Potential for ↓ statin	Potential for ↑ statin. Use lowest statin dose possible (maximum 20 mg atorvastatin daily).
• Rosuvastatin (<i>Crestor</i>)		Potential for ↑ statin			Potential for ↑ statin. Use lowest statin dose possible (maximum 10 mg rosuvastatin daily).
• Pitavastatin (<i>Livalo</i>)					
• Pravastatin (<i>Pravachol</i>)		Potential for ↑ statin			Potential for ↑ statin
• Lovastatin (<i>Mevacor</i>), simvastatin (<i>Zocor</i>)		Potential for ↑ statin and toxicity		Potential for ↓ statin	Potential for ↑ statin and toxicity

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FIBRATES

- Fenofibrate, bezafibrate, gemfibrozil

CHOLESTEROL ABSORPTION INHIBITOR

- Ezetimibe (*Ezetrol*)

GASTROINTESTINAL LIPASE INHIBITOR

- Orlistat (*Xenical*)

Potential for ↓ ARV absorption

BILE ACID SEQUESTRANTS

- Cholestyramine (*Olestyr*), colestipol (*Colestid*)

Potential for ↓ ARV absorption

Mechanism of Drug Interactions, Management and Monitoring

	Mechanism of Interaction	Main Interacting ARVs	Management	Monitoring
Hmg-Coa Reductase Inhibitors (Statins)				
Lovastatin, simvastatin	Inhibition of CYP3A4	Ritonavir and cobicistat-boosted protease inhibitors and elvitegravir	Contraindicated. Use alternate statin.	Statin toxicity: myalgia, rhabdomyolysis
Atorvastatin, rosuvastatin, pravastatin	Inhibition of CYP3A4, OATP1B1, BCRP	Ritonavir and cobicistat-boosted protease inhibitors and elvitegravir	Use lowest statin dose possible and titrate to effect	Statin toxicity: myalgia, rhabdomyolysis
Pitavastatin	Primarily cleared via UGT, OATP1B1	None	Most ARVs may be used	Statin toxicity: myalgia, rhabdomyolysis
Orlistat	Reduced absorption of ARVs by decreasing dietary fat absorption	All antiretrovirals, particularly lipophilic agents	Take ARVs at least 2 hours before/after orlistat	Antiretroviral efficacy
Bile acid sequestrants	Reduced absorption of ARVs	All antiretrovirals	Take ARVs either 1 hour before or 4-6 hours after bile acid sequestrants	Antiretroviral efficacy

Legend:



No dose adjustment required.



Use combination with caution. Adjustment in drug dose or frequency or additional/more frequent monitoring may be required. May wish to consult with a pharmacist knowledgeable in HIV drug interactions.



Contraindicated/avoid combination.