Resource: ART Drug-Drug Interactions

April 2023

Table 22: Antiplatelet Drugs (also see drug package inserts)			
→ Adenosine phosphate receptor inhibitors, cilostazol, dipyridamole			
Class or Drug	Mechanism of Action	Clinical Comments	
 NRTIs Dolutegravir (DTG) Bictegravir (BIC) Cabotegravir (CAB) Raltegravir (RAL) Rilpivirine (RPV) Doravirine (DOR) 	No significant interactions are expected.	No dose adjustments are necessary.	
Elvitegravir (EVG), boosted	 Cilostazol may be metabolized by CYP3A; COBI-boosted EVG can increase concentrations of this drug. Ticagrelor: Strong CYP3A4 inhibitors may increase ticagrelor exposure. Clopidogrel: Boosted EVG significantly decreases production of clopidogrel's active metabolite. Prasugrel: Boosted EVG decreases prasugrel's active metabolite; however, adequate antiplatelet activity is maintained. Vorapaxar: Increased vorapaxar levels are expected. 	 Cilostazol: Monitor for antiplatelet effect. May be necessary to use alternative antiplatelet drug or alternative ARV. Ticagrelor: To avoid increased bleeding risk, do not use ticagrelor with strong CYP3A inhibitors, particularly COBI and RTV. Clopidogrel, vorapaxar: Do not coadminister. Prasugrel: No dose adjustments are necessary. 	
Boosted PIs	 Cilostazol is metabolized by CYP3A; boosted PIs will increase concentrations of this drug. Dipyridamole: RTV-boosted PIs may induce UGT enzymes, which are responsible for metabolism of dipyridamole (not seen with COBI). Ticagrelor: Strong CYP3A4 inhibitors may increase ticagrelor exposure. Clopidogrel: Boosted PIs may decrease production of clopidogrel's active metabolite. Prasugrel: Boosted PIs may decrease prasugrel's active metabolite; however, adequate antiplatelet activity is maintained. Vorapaxar: Increased vorapaxar levels are expected. 	 Cilostazol: Monitor for antiplatelet effect; may be necessary to use alternative antiplatelet drug or alternative ARV. Dipyridamole: Monitor for antiplatelet effect; use alternative ARV or boost with COBI if necessary. Ticagrelor: To avoid increased bleeding risk, do not use ticagrelor with strong CYP3A inhibitors, particularly COBI and RTV. Clopidogrel, vorapaxar: Do not coadminister. Prasugrel: No dose adjustments are necessary. 	



→ Adenosine phosphate receptor inhibitors, cilostazol, dipyridamole			
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Efavirenz (EFV)Etravirine (ETR)	 Cilostazol: EFV and ETR may reduce cilostazol concentrations. Dipyridamole: EFV and ETR may induce UGT enzymes, which are responsible for metabolism. Ticagrelor, clopidogrel: EFV and ETR reduce ticagrelor concentrations and conversion of clopidogrel to its active metabolite. Vorapaxar: When coadministered with ETR, vorapaxar levels expected to be reduced. 	 Cilostazol: Monitor for antiplatelet effect; may be necessary to use alternative antiplatelet drug or alternative ARV. Dipyridamole: Monitor for antiplatelet effect; use alternative ARV if necessary. Ticagrelor, clopidogrel: Use with EFV or ETR may reduce antiplatelet effect; monitor closely for efficacy and use alternative ARV if necessary. Prasugrel: When coadministered with ETR, no dose adjustments are necessary. Vorapaxar: No data available. 	

glucuronosyltransferase.