

DOLUTEGRAVIR INTERACTIONS INFORMATION SHEET

POTENTIAL INTERACTIONS WITH DOLUTEGRAVIR (DTG)

Drug interactions can result in suboptimal drug concentrations which can cause

- an elevated viral load
- drug resistance, due to replicating virus in the presence of subtherapeutic drug concentrations

Interacting drug	Effect of co-administration	Recommendation
Rifampicin	↓ DTG	Double DTG dose to 50 mg 12-hourly. If on TLD FDC, add DTG 50 mg 12 hours after TLD dose. Continue double dose for two weeks after stopping rifampicin
Anticonvulsants: Carbamazepine Phenobarbital Phenytoin	↓ DTG	Avoid coadministration if possible. Alternative agents that do not interact with DTG include valproate, lamotrigine, levetiracetam, and topiramate. Remember that valproate is contra-indicated during pregnancy. Double DTG dose to 50 mg 12-hourly for carbamazepine, phenytoin, or phenobarbital if an alternative anticonvulsant cannot be used
Metformin	↑ Metformin	<i>Metformin initiation:</i> Initiate metformin at a low dose (500 mg or 1000 mg total daily dose), titrating up as needed. Do not exceed 2 g daily. <i>DTG initiation:</i> If patient stabilised on metformin dose ≤ 2 g daily, retain metformin dose and monitor for side effects. If patient stabilised on > 2 g daily, reduce dose of metformin to ≤ 2 g daily and monitor. <i>Patients with renal impairment:</i> Close monitoring of renal function required. Metformin should be avoided if eGFR <30mL/min.
Polyvalent cations (Mg ²⁺ , Fe ²⁺ , Ca ²⁺ , Al ³⁺ , Zn ²⁺) e.g. antacids, sucralfate, multivitamin and nutritional supplements		Many over the counter (OTC) medications contain polyvalent cations. Healthcare workers should regularly ask clients about OTC medication use and advise about possible interactions
Calcium	↓ DTG	Interaction occurs if taken together on empty stomach. To prevent this, take at the same time, with food. Without food, take the calcium supplement a minimum of 2 hours after or 6 hours before DTG. It is safe to dissolve the DTG dispersible tablets in breast milk
Iron	↓ DTG	Interaction occurs if taken together on empty stomach. To prevent this, take at the same time, with food. Without food, take the iron supplement a minimum of 2 hours after or 6 hours before DTG. Remember: Take calcium and iron at least 4 hours apart
Magnesium/ aluminium containing antacids	↓ DTG	We do not know if food intake eliminates this interaction. Antacids should be taken a minimum of 2 hours after or 6 hours before DTG
Sucralfate/Zinc	↓ DTG	We do not know if food intake eliminates this interaction. Sucralfate/zinc should be taken a minimum of 2 hours after or 6 hours before DTG



MEDICINES INFORMATION CENTRE

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NEED HELP?

Contact the TOLL-FREE National HIV & TB Health Care Worker Hotline

0800 212 506 / 021 406 6782

Alternatively "WhatsApp" or send an SMS or "Please Call Me" to 071 840 1572
www.mic.uct.ac.za

Download our free App: SA HIV/TB Hotline



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IF YOU TAKE DOLUTEGRAVIR (e.g. TLD) AND NEED TO TAKE CALCIUM AND IRON SUPPLEMENTATION (e.g. DURING PREGNANCY) DO IT LIKE THIS:



WITH FOOD



08:00 TLD + Calcium + FOOD



13:00 Iron supplement



20:00 Calcium

Antacid can be taken after 10h00 and before 02h00, but not at the same time as iron. Try to separate the dosing of iron and antacids as much as possible



WITHOUT FOOD



06:00 TLD

08:00 Calcium



13:00 Iron supplement



20:00 Calcium

Antacid can be taken after 8h00 and before 24h00, but not at the same time as iron. Try to separate the dosing of iron and antacids as much as possible