

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
Anticonvulsants: Carbamazepine Phenobarbital Phenytoin	↓ DTG	Avoid coadministration if possible. Alternative agents that do not interact with DTG include valproate, lamotrigine, levetiracetam, and topiramate. <u>Remember that valproate is contra-indicated during pregnancy.</u> Double DTG dose to 50 mg 12-hourly for carbamazepine, phenytoin, or phenobarbital if an alternative anticonvulsant cannot be used
Metformin	↑ Metformin	DTG increases metformin levels. Maximum metformin dose 500 mg 12-hourly*
Polyvalent cations (Mg²⁺, Fe²⁺, Ca²⁺, Al³⁺, Zn²⁺) 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

If your patient's blood sugar is not controlled on this dose contact the hotline (0800 212 506) for assistance



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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