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Table 21. Drug Interactions Between Antiretrovirals and Other Drugs: Pls. NNRTIs. and NRTIs

|   | Drug Interactions Requiring Dose Modifications or Cautious Use   |   |  |  |  |  |
|---|--|---|--|--|--|--|
| Drugs Affected                              | Indinavir (IDV)  | Ritonavir* (RTV)  | Saquinavir <sup>†</sup> (SQV)  |  |  |  |
| ANTIFUNGALS                                 |  |   | <u> </u>   |  |  |  |
| Ketoconazole                                | Levels: IDV ↑ 68%.<br>Dose: IDV 600 mg tid.  | Levels: ketoconazole $\uparrow$ 3X.  Dose: Use with caution; do not exceed 200 mg ketoconazole daily.   | Levels: SQV ↑ 3X.  Dose: If ketoconazole dose is >200 mg/day, monitor for excessive diarrhea, nausea, abdominal discomfort and adjust doses accordingly.   |  |  |  |
| Voriconazole                                | Levels: No significant changes in AUC of azole or IDV (healthy subjects).  Dose: Standard  | No data, but potential for bi-directional inhibition between voriconazole and PIs, monitor for toxicities   | No data, but potential for bi-directional inhibition between voriconazole and PIs, monitor for toxicities  |  |  |  |
| ANTI-MYCOB                                  | ACTERIALS  |   |  |  |  |  |
| Rifampin                                    | Levels: IDV (unboosted) ♥ 89%; IDV (boosted) ♥ 87%; Contraindicated.   | Levels: RTV   | Levels: SQV ♥ 84%. Contraindicated, unless using RTV+SQV. Dose: SQV/RTV 400/400 mg BID rifampin 600 mg qd or 3x/week.  |  |  |  |
| Rifabutin                                   | Levels: IDV  | Levels: Rifabutin ↑ 4X.  Dose: ▼ rifabutin to 150 mg qd or 3x/week.   RTV: Maintain current dose if sole PI or part of a boosted regimen.   | Levels: SQV  |  |  |  |
| Clarithromycin                              | Levels: Clarithromycin ↑ 53%.<br>No dose adjustment.   | Levels: Clarithromycin ↑ 77%.  Dose: Adjust clarithromycin dose for moderate and severe renal impairment.   | Levels: Clarithromycin ↑ 45%.<br>SQV ↑ 177%.<br>No dose adjustment.  |  |  |  |
| ORAL<br>CONTRACEPTIVES                      | Levels: Norethindrone ↑ 26%.<br>Ethinylestradiol ↑ 24%.<br>No dose adjustment.   | Levels: Ethinyl estradiol <b>♦</b> 40%.<br>Use alternative or additional method.  | No data.   |  |  |  |
| LIPID-LOWER                                 | RING AGENTS  |   |  |  |  |  |
| Simvastatin<br>Lovastatin                   | Levels: Potential for large increase in statin levels. Avoid concomitant use.  | Levels: Potential for large increase in statin levels.<br>Avoid concomitant use.  | Levels: Potential for large increase in statin levels. Avoid concomitant use.  |  |  |  |
| Atorvastatin                                | Levels: potential for increase in AUC Use lowest possible starting dose of atorvastatin with careful monitoring.   | Levels: 450% \( \bar{\} \) when administered with SQV/RTV combination. Use lowest possible starting dose of atorvastatin with careful monitoring.   | Levels: 450% \( \bar{\chi}\) when administered with SQV/RTV combination. Use lowest possible starting dose of atorvastatin with careful monitoring.  |  |  |  |
| Pravastatin                                 | No Data  | Levels: 50% • when administered with SQV/RTV combination. No dose adjustment needed.  | Levels: 50% • when administered with SQV/RTV combination. No dose adjustment needed.   |  |  |  |
| ANTICONVUL                                  | SANTS  |   |  |  |  |  |
| Carbamazepine<br>Phenobarbitol<br>Phenytoin | Carbamazepine markedly <b>♥</b> IDV AUC.<br>Consider alternative agent.  | Carbamazepine: ↑ serum levels when co-administered with RTV. Use with caution. Monitor anticonvulsant levels.   | Unknown, but may markedly ♥ SQV levels.  Monitor anticonvulsant levels.  |  |  |  |
| METHADONE                                   | No change in methadone levels.   | Methadone ♥ 37%. Monitor and titrate dose if needed.  May require ↑ methadone dose.   | Methadone AUC  |  |  |  |
| ERECTILE DY                                 | SFUNCTION AGENTS   |   |  |  |  |  |
| Sildenafil                                  | Sildenafil AUC ↑ 3 fold. Use cautiously. Start with reduced dose of 25 mg every 48 hours and monitor for adverse effects.  | Sildenafil AUC ↑ 11 fold. Use cautiously. Start with reduced dose of 25 mg every 48 hours and monitor for adverse effects.  | Sildenafil AUC ↑ 2 fold. Use a 25 mg starting dose of sildenafil.  |  |  |  |
| Vardenafil                                  | Vardenafil AUC ↑ 16 fold.  IDV (unboosted) AUC ↓ 30%  Dose: Consider Sildenafil instead of vardenafil if IDV unboosted.  Do not exceed vardenafil 2.5 mg in 72 hours if administered with RTV.   | Vardenafil AUC ↑ 49 fold.  RTV AUC ▶ 20%  Dose: Vardenafil: Start with a 2.5 mg dose, and do not exceed a single 2.5 mg dose in 72 hours.  RTV: Maintain current dose.                        | No data, but vardenafil AUC may be substantially increased.  Start with a 2.5 mg dose and do not exceed a single 2.5 mg dose in 24 hours. Do not exceed a single 2.5 mg dose in 72 hours if administered with RTV. |  |  |  |
| <b>Tadalafil</b>                            | Concomitant administration will result in substantial increase in tadalafil AUC and half-life (normal = 17.5h). Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.   | Tadalafil AUC ↑ 124%. Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.  | Concomitant administration will result in substantial increase in tadalafil AUC and half-life (normal = 17.5h). Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.                   |  |  |  |
| IISCELLANEOUS                               | Grapefruit juice ♥ IDV levels by 26%.  Vitamin C >/= 1 gram/day ♥ IDV AUC by 14% and Cmin by 32%  Itraconazole: Reduce IDV (unboosted) dose to 600 mg TID; do not exceed 200 mg Itraconazole twice daily.  RTV boosted regimen: See RTV. | Many possible interactions Desipramine ↑ 145%, reduce dose  Trazadone AUC ↑ 60%. Use lowest dose and monitor for CNS and CV adverse effects.  Theophylline ▶ 47%, monitor theophylline levels | Grapefruit juice ↑ SQV levels. Dexamethasone ↓ SQV levels. RTV boosted regimen: See RTV.   |  |  |  |

Drugs for which plasma concentrations may be decreased by coadministration with ritonavir: anticoagulants (warfarin), anticonvulsants (phenytoin, divaproex, lamotrigine), antiparasitics (atovaquone).

Some drug interaction studies were conducted with Invirase<sup>®</sup>. May not necessarily apply to use with Fortovase. Rifabutin 3x/week is recommended if CD4 cell count is <100/mm<sup>3</sup>

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Table 21. Drug Interactions Between Antiretrovirals and Other Drugs: Pls, NNRTIs, and NRTIs

|   | <b>Drug Interactions Requiring</b>  | g Dose Modifications or Cautio   | ous Use  |
|---|---|--|--|
| <b>Drugs Affected</b>                       | Nelfinavir (NFV)  | Amprenavir (APV)   | Fosamprenavir (fos-APV)  |
| ANTIFUNGALS                                 |   |  |  |
| Ketoconazole                                | No dose adjustment necessary.   | Levels: APV ↑ 31%<br>Keto ↑ 44%.<br>Dose: Standard   | Presumably similar interactions (an increase in both APV and Keto levels) and recommendation as APV. Consider keto dose reduction if dose is > 400 mg/day If fos-APV/r: Use with caution; do not exceed 200 mg ketoconazole daily. |
| Voriconazole                                | No data, but potential for bi-directional inhibition between voriconazole and PIs exists, monitor for toxicities.   | No data, but potential for bi-directional inhibition between voriconazole and PIs exists, monitor for toxicities.  | Presumably similar interaction and recommendation as APV.  |
| ANTI-MYCOBAC                                | TERIALS   |  |  |
| $\mathbf{Rifampin}^{\Sigma}$                | Levels: NFV ♥ 82%.<br>Should not be coadministered.   | Levels: APV AUC \$\subset\$ 82%  No change in rifampin AUC.  Should not be coadministered.   | Presumably similar interaction and recommendation as APV.  |
| Rifabutin                                   | Levels: NFV ◆32%. Rifabutin ↑ 2X. Dose: ♦ rifabutin to 150 mg qd or 300 mg 3x/week. ↑ NFV dose to 1000 mg tid.  | Levels: APV AUC № 15%.  Rifabutin ↑ 193%.  Dose: No change in APV dose; decrease rifabutin to 150 mg qd or 300 mg 3x/week <sup>¢</sup> . If RTV boosted, use rifabutindosing recommendations for co-administration with RTV; continue current dose of boosted APV. | Similar interaction and recommendation as APV if fos-APV unboosted.  If RTV boosted fos-APV, dose reduce rifabtin to 150 mg QOD or 3x/week.  |
| Clarithromycin                              | No data.  | Levels: APV AUC 18%. No change in clarithromycin AUC. No dose adjustment.  | Presumably similar interaction and recommendation as APV.  |
| ORAL<br>CONTRACEPTIVES                      | Levels: Norethindrone <b>▶</b> 18%. Ethinyl estradiol <b>▶</b> 47%. Use alternative or additional method.   | Levels: ↑ Ethinyl estradiol and norethindrone levels; APV levels ↓ 20%.  Do not co-administer; alternative methods of contraception are recommended.   | Presumably similar interaction as APV.  Do not co-administer; alternative methods of contraception are recommended.  |
| LIPID-LOWERIN                               | G AGENTS  |  |  |
| Simvastatin<br>Lovastatin                   | Avoid concomitant use. Simvistatin AUC ↑ 505%—not recommended. Potential for large increase in Lovastatin   | Levels: Potential for large increase in statin levels. Avoid concomitant use.  | Presumably similar interaction and recommendation as APV.  |
| Atorvastatin (ATO)                          | AUC—not recommended.  ATO AUC ↑ 74%—use lowest possible starting dose of atorvastatin with careful monitoring.  | ATO levels have potential for large increase. Use lowest possible starting dose of atorvastatin with careful monitoring  | ATO AUC ↑ 150%. Maximum ATO dose of 20 mg/day; use with careful monitoring consider alternative agent.   |
| Pravastatin                                 | No data.  | No data.   | No data.   |
| ANTICONVULSA                                | NTS   |  |  |
| Carbamazepine<br>Phenobarbitol<br>Phenytoin | Unknown, but may decrease NFV levels substantially. Monitor anticonvulsant levels and virologic response. Consider obtaining NFV levels.  | Unknown, but may decrease APV levels substantially. Monitor anticonvulsant levels and virologic response. Consider obtaining APV levels.   | Presumably similar interaction and recommendation as APV.  |
| METHADONE                                   | NFV may decrease methadone levels, but minimal effect on maintenance dose. Monitor and titrate dose if needed. May require ↑ methadone dose.  | Methadone levels ♥ 13%.  APV Cmin ♥ 25%.  Monitor and titrate methadone if needed.   | Presumably similar interaction and recommendation as APV.  |
| ERECTILE DYSF                               | UNCTION AGENTS  |  |  |
| Sildenafil                                  | Sildenafil AUC ↑ 2-11 fold. Use cautiously.  Start with reduced dose of 25 mg every 48 hours and monitor for adverse effects.   | Sildenafil AUC ↑ 2-11 fold. Use cautiously. Start with reduced dose of 25 mg every 48 hours and monitor for adverse effects.   | Similar interaction and recommendations as APV.  |
| Vardenafil                                  | No data, but vardenafil AUC may be substantially increased. Start with a 2.5 mg dose and do not exceed a single 2.5 mg dose in 24 hours. Do not exceed 2.5 mg in 72 hours if administered with RTV. | No data, but vardenafil AUC may be substantially increased. Start with a 2.5 mg dose and do not exceed a single 2.5 mg dose in 24 hours. Do not exceed 2.5 mg in 72 hours if administered with RTV.  | Similar interaction and recommendations as APV.  |
| Tadalafil                                   | Concomitant administration will result in substantial increase in tadalafil AUC and half-life (normal=17.5h). Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.      | Tadalafil half-life = 17.5 hours. Concomitant administration will result in substantial increase in tadalafil AUC and half-life (normal=17.5h). Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.                                   | Similar interaction and recommendations as APV.  |

Rifabutin 3x/week is recommended if CD4 cell count is <100/mm<sup>3</sup>

There are limited data on RTV-SQV and LPV-RTV demonstrating that RTV compensates, to a degree, for rifampin induction. In one small study, higher doses of ritonavir (up to 400 mg per dose) or an increased dose of LPV/RTV 800/200 mg were needed to offset rifampin-inducing activity of LPV; the standard dose of rifampin was used in these studies. Of note, 28% of subjects discontinued due to increases in LFTs. The safety of this combination is not established. If coadministered, close monitoring is recommended, as is measuring LPV concentrations.

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Table 21. Drug Interactions Between Antiretrovirals and Other Drugs: Pls, NNRTIs, and NRTIs

| Drug Interactions Requiring Dose Modifications or Cautious Use |  |  |  |  |
|--|--|--|--|--|
| <b>Drugs Affected</b>  | Atazanavir (ATV)   | Lopinavir (LPV)  |  |  |
| ANTIFUNGALS  |  |  |  |  |
| Ketoconazole   | No dosage adjustment necessary.  | Levels: LPV AUC 		◆ 13%. Keto 		↑ 3-fold.  Dose: Use with caution; do not exceed 200 mg ketoconazole daily.  |  |  |
| Voriconazole   | No data, but potential for bi-directional inhibition between voriconazole and PIs exists; monitor for toxicities.  | No data, but potential for bi-directional inhibition between voriconazole and PIs exists, monitor for toxicities.  |  |  |
| ANTI-MYCOBA  | CTERIALS   |  |  |  |
| Rifampin $^{\Sigma}$   | Should not be coadministered.  | Levels: LPV AUC ♥ 75%. Should not be coadministered. A safe and effective dose of LPV/r that can be given with rifampin has not been established. <sup>2</sup>   |  |  |
| Rifabutin  | Levels: Rifabutin AUC ↑ 2.5-fold  Dose:   rifabutin dose to 150 mg qod or 3x/week <sup>s</sup> ATV dose standard.  | Levels: Rifabutin AUC ↑ 3-fold. 25-O-desacetyl metabolite ↑ 47.5-fold Dose: Decrease rifabutin dose to 150 mg QOD or 3x/week; LPV/r: Standard.   |  |  |
| Clarithromycin   | Levels: clarithromycin AUC ↑ 94% and may cause QTc prolongation.  Clarithromycin active metabolite concentrations are significantly reduced  Dose:   clarithromycin dose by 50%. Consider alternative therapy.   | Levels: ↑ Clarithromycin AUC 77%. Dose: Adjust clarithromycin dose for moderate and severe renal impairment.   |  |  |
| ORAL<br>CONTRACEPTIVES   | Levels: Ethinyl estradiol AUC  \$\dagger\$ 48%, norethindrone AUC \$\dagger\$ 110%  Dose: use lowest effective dose or alternative methods.  | Levels: ethinyl estradiol <b>♦</b> 42%.<br>Use alternative or additional method.   |  |  |
| LIPID-LOWERI   | NG AGENTS  |  |  |  |
| Simvastatin<br>Lovastatin                                      | Levels: Potential for large increase in statin levels. Avoid concomitant use.  | Levels: Potential for large increase in statin levels. Avoid concomitant use.  |  |  |
| Atorvastatin (ATO)   | Atorvastatin levels have potential for large increase. Use lowest possible starting dose of atorvastatin with careful monitoring.  | Atorvastatin AUC ↑ 5.88-fold. Use lowest possible starting dose of atorvastatin with careful monitoring.   |  |  |
| Pravastatin  | No data.   | Pravastatin AUC ↑ 33%; no dosage adjustment necessary.   |  |  |
| ANTICONVULSA   | ANTS   |  |  |  |
| Carbamazepine<br>Phenobarbitol<br>Phenytoin                    | Unknown, but may decrease ATV levels substantially.  Monitor anticonvulsant levels.  | Many possible interactions: carbamazepine: ↑ levels when coadministered with RTV. Use with caution. Monitor anticonvulsant levels. Phenytoin: ↓ levels of LPV, RTV, and ↓ levels of phenytoin when administered together. Avoid concomitant use. |  |  |
| METHADONE  | No data.   | Methadone AUC ♥ 53%.  Monitor and titrate dose if needed.  May require ↑ methadone dose.   |  |  |
| ERECTILE DYS   | FUNCTION AGENTS  |  |  |  |
| Sildenafil   | Sildenafil levels have potential for increase. Start with reduced dose of 25 mg every 48 hours and monitor for adverse effects.  | Sildenafil AUC 11-fold in combination with RTV. Use cautiously. Start with reduced dose of 25 mg every 48 hours and monitor for advers effects.  |  |  |
| Vardenafil   | No data, but vardenafil AUC may be substantially increased.<br>Start with a 2.5 mg dose and do not exceed a single 2.5 mg dose in 24 hours. Do not exceed 2.5 mg in 72 hours if administered with RTV.   | No data, but vardenafil AUC may be substantially increased.<br>Start with a 2.5 mg dose and do not exceed a single 2.5 mg dose in 72 hours.  |  |  |
| <b>Tadalafil</b>   | Concomitant administration will result in substantial increase in tadalafil AUC and half-life (normal=17.5h). Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.   | Tadalafil AUC ↑ 124% when co-administered with RTV. Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours.   |  |  |
| MISCELLANEOUS  | Diltiazem AUC ↑ 125%, ↓ diltiazem dose by 50%; ECG monitoring is recommended.  Calcium channel blockers: caution is warranted; dose titration should be considered; ECG monitoring is recommended.  ATV inhibits UGT and may interfere with irinotecan metabolism; avoid concomitant use.  H₂-receptor antagonists: reduced ATV concentrations are expected with simultaneous administration; separate dosing by 12 hours  Antacids and buffered medications: reduced ATV concentrations are expected with simultaneous administration; give ATV 2 hr before or 1 hr after these medications:  RTV boosted regimen: See RTV. | See Also: Miscellaneous RTV recommendations.   |  |  |

Enter a re limited data on RTV-SQV and LPV-RTV demonstrating that RTV compensates, to a degree, for rifampin induction. In one small study, higher doses of ritonavir (up to 400 mg per dose) or an increased dose of LPV/RTV 800/200 mg were needed to offset rifampin-inducing activity of LPV; the standard dose of rifampin was used in these studies. Of note, 28% of subjects discontinued due to increases in LFTs. The safety of this combination is not established. If co-administered, close monitoring is recommended, as is measuring LPV concentrations.

Rifabutin 3x/week is recommended if CD4 cell count is <100/mm<sup>3</sup>

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Table 21. Drug Interactions Between Antiretrovirals and Other Drugs: Pls, NNRTIs, and NRTIs

| Drug Interactions Requiring Dose Modifications or Cautious Use |   |   |  |
|--|---|---|--|
| Drugs Affected   | Nevirapine (NVP)  | Delavirdine (DLV)   | Efavirenz (EFV)  |
| ANTIFUNGALS  |   |   | ,  |
| Ketoconazole   | Levels: Keto. ♥ 63%.  NVP ↑ 15-30%.  Dose: Not recommended.   | No data.  | No data.   |
| Voriconazole   | No data, but potential for bi-directional interaction between voriconazole and NNRTIs exists; monitor for toxicities and voriconazole effectiveness.  | No data, but potential for bi-directional inhibition between voriconazole and delavirdine exists; monitor for toxicities.   | No data, but potential for bi-directional interaction between voriconazole and NNRTIs exists; monitor for toxicities and voriconazole effectiveness. |
| ANTI-MYCOBAC   | ΓERIALS   |   |  |
| Rifampin   | Levels: NVP ♥ 20%-58%. Virologic consequences are uncertain; the potential for additive hepatotoxicity exists. Use of this combination is not recommended; however, if used, coadministration should be done with careful monitoring. | Levels: DLV ♥ 96%.<br>Contraindicated.  | Levels: EFV  |
| Rifabutin  | Levels: NVP ♥ 16%.<br>No dose adjustment.*  | Levels: DLV ♥ 80%. Rifabutin ↑ 100%. Not recommended.   | Levels: EFV unchanged; Rifabutin ♥ 35%  Dose: ↑ rifabutin dose to 450-600 mg qd or 600 mg 3x/week.* EFV: Standard                                    |
| Clarithromycin   | Levels: NVP ↑26%. Clarithromycin  | Levels: Clarithromycin <b>↑</b> 100%, DLV <b>↑</b> 44%. Dose adjust for renal failure.  | Levels: Clarithromycin   |
| ORAL<br>CONTRACEPTIVES   | Levels: ethinyl estradiol ♥ approx 20%. Use alternative or additional methods.  | No data.  | Levels: Ethinyl estradiol <b>↑</b> 37%. No data on other component. Use alternative or additional methods.   |
| LIPID-LOWERING   | G AGENTS  |   |  |
| Simvastatin<br>Lovastatin                                      | No data.  | Levels: Potential for large increase in statin levels. Avoid concomitant use.   | No data.   |
| Pravastatin  | No data.  | No data.  | No data.   |
| ANTICONVULSANTS  |   | L   |  |
| Carbamazepine<br>Phenobarbitol<br>Phenytoin                    | Unknown. Use with caution. Monitor anticonvulsant levels.   | Unknown, but may decrease DLV levels substantially. Monitor anticonvulsant levels.  | Use with caution. Monitor anticonvulsant levels.   |
| METHADONE  | Levels: NVP unchanged.  Methadone   | No data.  | Levels: methadone ♥ significantly.  Titrate methadone dose to effect.  |
| MISCELLANEOUS  | No data.  | May increase levels of dapsone, warfarin, and quinidine. Sildenafil: potential for increased concentrations and adverse effects. Use cautiously. Start with reduced dose of 25 mg every 48 hours and monitor for adverse effects. Vardenafil: No data, but vardenafil AUC may be substantially increased. Start with a 2.5 mg dose and do not exceed a single 2.5 mg dose in 24 hours. Tadalafil: No data, but concomitant administration will likely result in substantial increase in tadalafil AUC and half-life (normal=17.5h). Start with a 5 mg dose, and do not exceed a single dose of 10 mg every 72 hours. Atorvastatin levels have potential for large increase. Use lowest possible starting dose of atorvastatin with careful monitoring | Monitor warfarin when used concomitantly.  |

<sup>\*</sup> These recommendations apply to regimens that do not include PIs, which can substantially increase rifabutin levels.

Table 21. Drug Interactions Between Antiretrovirals and Other Drugs: Pls, NNRTIs, and NRTIs

| Drug Interactions Requiring Dose Modifications or Cautious Use |   |  |  |   |
|--|---|--|--|---|
| <b>Drugs Affected</b>  | Zidovudine (ZDV)  | Stavudine (d4T)  | Didanosine (ddI)   | Tenofovir (TDF)   |
| METHADONE  | No data.  | Levels: d4T ♥ 27%,<br>methadone unchanged. No<br>dose adjustment.  | Levels: EC ddI unchanged. Buffered ddI AUC ♥ 63%, methadone unchanged. Dose: No change EC ddI. May consider buffered ddI dose increase or maintain standard. | No data.  |
| MISCELLANEOUS  |   |  |  |   |
| Ribavirin  | Ribavirin inhibits<br>phosphorylation of ZDV;<br>this combination should be<br>avoided if possible or<br>closely monitor virologic<br>response. | No data.   | Coadministration not recommended. Ribavirin increases the intracellular levels of the active metabolite of ddI and may cause serious toxicities.             | No data.  |
| Didanosine   | No data.  | Peripheral neuropathy,<br>lactic acidosis, and<br>pancreatitis seen with this<br>combination; use with<br>caution and only if<br>potential benefit outweighs<br>potential risks. | No data.   | Levels: ddI AUC ↑ by 44%,<br>Cmax ↑ by 28%<br>Monitor for ddI-associated<br>toxicities<br>For patients > 60 kg, 250 mg/day of<br>ddI EC is recommended.   |
| Atazanavir (ATV)   | No data.  | No data.   | Buffered ddI + ATV simultaneously: Levels:   | ATV 400 + TDF 300 Levels: ATV AUC ♥ 25% and Cmin ♥ by 40%. TDF AUC was ♠ by 24%. Avoid concomitant use. ATV + RTV 300/100 mg qd + TDF 300 mg qd Levels: ATV AUC was ♥ by 25% and Cmin by 23%; ATV Cmin was higher with RTV than ATV without RTV; Consider ATV + RTV (300/100 mg qd) for coadministration with TDF (300 mg qd); however, pharmacokinetic, safety and virologic data are limited. |
| Indinavir (IDV)  | No data.  | No data.   | Buffered ddI and IDV simultaneously: Levels:   AUC of IDV; take IDV 1 hr before or after buffered ddI.   | No data.  |
| Lopinavir/ritonavir  | No data.  | No data.   | No data.   | LPV/r 400/100 AUC <b>↓</b> 15%; TDF AUC <b>↑</b> 34%; clinical significance of interaction is unknown.  |
| Lamivudine plus<br>(Abacavir or<br>Didanosine)                 | No data.  | No data.   | No data.   | High rate of early virologic non-<br>response with 3TC and ABC plus<br>TDF: combination should be<br>avoided  |
| Cidofovir,<br>Ganciclovir,<br>Valganciclovir                   | No data.  | No data.   | ddI + oral ganciclovir (GCV): ddI AUC ↑ 111%; GCV AUC ↓ 21%; Appropriate doses for the combination of ddI and oral GCV have not been established             | Possibly competes for active tubular secretion with tenofovir, may increase serum concentration of these drugs and/or tenofovir.  Monitor for dose-related toxicities.  |