

Anti-malarial Treatment Selector

Charts revised March 2021. Full information available at www.hiv-druginteractions.org

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| | ATV/c | ATV/r | DRV/c | DRV/r | LPV/r | DOR | EFV | ETV | NVP | RPV | MVC | BIC/ F/TAF | DTG | EVG/c/ F/TAF | EVG/c/ F/TDF | RAL | ABC | FTC or 3TC | F/TAF | TDF | ZDV |
|---|------------------|-------------------|----------------|----------------|-------------------|-----|-------------------|-------------------|-------------------|-----|-----|----------------|------|-----------------|-----------------|-----|-----|---------------|----------------|----------------|----------------|
| First line and Second line Drugs | | | | | | | | | | | | | | | | | | | | | |
| Amodiaquine | ↑ | ↑ | ↔ | ↑ | ↑ | ↔ | ↑ ^a | ↓? | ↓29% ^a | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ ^b |
| Artemisinin | ↑ | ↑ | ↑ | ↑ | ↑ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ ^c | ↔ | ↑ | ↑ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Atovaquone | ↔ | ↓10% | ↔ | ↓ ^d | ↓74% ^d | ↔ | ↓75% ^d | ↑55% ^d | ↓ ^d | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ ^b |
| Chloroquine | ↔ ^e ♥ | ↔ ^e ♥ | ↔ ^e | ↔ ^e | ↔ ^e ♥ | ↔ | ↔ ^f | ↔ ^g | ↔ ^g | ↔♥ | ↔ | ↔ | ↔ | ↔ ^e | ↔ ^e | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Clindamycin | ↑ | ↑ | ↑ | ↑ | ↑ | ↔ | ↓ | ↓ | ↓ | ↔ | ↔ | ↔ | ↔ | ↑ | ↑ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Doxycycline | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↓? | ↓? | ↓? | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Lumefantrine | ↑♥ | ↑♥ | ↑ | ↑175% | ↑382%♥ | ↔ | ↓~40% | ↓13% | ↓↓46% | ↔♥ | ↔ | ↔ | ↑10% | ↑ | ↑ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Mefloquine | ↑♥ | ↑♥ | ↑ | ↑ | ↓28%♥ ↓22% | ↔ | ↓ | ↓ | ↓ | ↔♥ | ↔ | ↔ | ↔ | ↑ | ↑ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Piperaquine | ↑♥ | ↑♥ | ↑ ^h | ↑ ^h | ↑♥ | ↑ | ↓ | ↓ | ↓ | ↑♥ | ↓ | ↓ ^c | ↔ | ↑ ^h | ↑ ^h | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Primaquine | ↔♥ | ↔♥ | ↔ | ↔ | ↔♥ | ↔ | ↔ ⁱ | ↔ ⁱ | ↔ ⁱ | ↔♥ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ ^b |
| Proguanil | ↔ | ↓41% ^d | ↔ | ↓ ^d | ↓38% ^d | ↔ | ↓44% ^d | ↓↑ ^d | ↓ ^d | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Pyrimethamine | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↑ ^j | ↔ | ↑ ^j | ↑ ^j | ↔ | ↔ | ↔ | ↑ ^k | ↑ ^j | ↔ ^b |
| Quinine | ↑ ^l ♥ | ↑ ^l ♥ | ↑ ^l | ↑ ^l | ↓56%♥ | ↔ | ↓ | ↓ | ↓ | ↔♥ | ↑ | ↔ | ↔ | ↑ ^l | ↑ ^l | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ |
| Sulfadoxine | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↑ ^m | ↔ | ↑ ^m | ↑ ^m | ↔ | ↔ | ↔ | ↑ ⁿ | ↑ ^m | ↔ ^b |

Colour Legend

| | |
|--|---|
| | No clinically significant interaction expected. |
| | These drugs should not be coadministered. |
| | Potential interaction which may require a dose adjustment or close monitoring. |
| | Potential interaction predicted to be of weak intensity. No <i>a priori</i> dosage adjustment is recommended. |

Text Legend

- ↑ Potential increased exposure of the anti-malarial drug
- ↓ Potential decreased exposure of the anti-malarial drug
- ↔ No significant effect
- ↑↑ Potential increased exposure of HIV drug
- ↓↓ Potential decreased exposure of HIV drug
- ♥ One or both drugs may cause QT and/or PR prolongation. ECG monitoring is advised if coadministered with atazanavir or lopinavir; caution is advised with rilpivirine as supratherapeutic doses of rilpivirine (75 and 300 mg once daily) were shown to prolong the QT interval.
- Numbers refer to increase or decrease in AUC as observed in drug-drug interaction studies.

Notes

- a Liver toxicity
- b Additive haematotoxicity
- c No effect on FTC or TAF is expected, but bicitegravir concentrations may decrease.
- d Take with a high fat meal. Consider dose increase.
- e Chloroquine may increase, but to a moderate extent due to the multiple elimination pathways. No dosage adjustment is recommended but monitor toxicity.
- f Chloroquine may increase (inhibition of CYP2C8) or decrease (induction of CYP3A4). No dosage adjustment is recommended but monitor toxicity and efficacy.
- g Chloroquine may decrease, but to a moderate extent due to the multiple elimination pathways. No dosage adjustment is recommended but monitor efficacy.
- h ECG monitoring should be considered.
- i Increase of haemotoxic metabolites
- j FTC exposure may increase; no *a priori* dosage adjustment is recommended in patients with normal renal function.
- k FTC or 3TC exposure may increase; no *a priori* dosage adjustment is recommended in patients with normal renal function.
- l An increase in exposure would be expected based on quinine metabolism, however, two interaction studies with LPV/r have shown a decrease in quinine exposure. It is recommended to monitor for side effects and also efficacy.
- m Sulfadoxine is rarely used alone, but is usually given in combination with pyrimethamine. Pyrimethamine may increase FTC exposure, but no *a priori* dosage adjustment is recommended in patients with normal renal function.
- n Sulfadoxine is rarely used alone, but is usually given in combination with pyrimethamine. Pyrimethamine may increase FTC or 3TC exposure, but no *a priori* dosage adjustment is recommended in patients with normal renal function.