

Contraceptives & HRT Treatment Selector

Charts reviewed January 2017. Full information available at www.hiv-druginteractions.org

For personal use only. Not for distribution. For personal use only. Not for distribution. For personal use only. Not for distribution. For personal use only. Not for distribution.

	ATV/r	DRV/r	LPV/r	EFV	ETV	NVP	RPV	MVC	DTG	RAL	ABC	FTC	3TC	TDF	ZDV	E/C/F/TAF	E/C/F/TDF		
Estrogens	Ethinylestradiol	↓19% ^a	↓44% ^b	↓42% ^b	↔ ^c	↑22%	↓20% ^b	↑14%	↔	↑3%	↔	↔	↔	↔	↔	↔	↓25% ^d	↓25% ^d	
	Estradiol	↓ ^e	↓ ^e	↓ ^e	↓ ^e	↓ ^e	↓ ^e	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑	
Progestins	Desogestrel	↑ ^{f,g}	↑ ^{f,g}	↑ ^{f,g}	↓ ^h	↓ ^h	↓ ^h	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^{f,g}	↑ ^{f,g}	
	Drospirenone	↑ ^g	↑ ^g	↑ ^g	↓ ^h	↓ ^h	↓ ^h	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^g	↑ ^g	
	Dydrogesterone	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑	
	Etonogestrel	↑ ^g	↑ ^g	↑52% ^g	↓63% ⁱ	↓ ⁱ	↓ ⁱ	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^g	↑ ^g
	Gestodene	↑ ^g	↑ ^g	↑ ^g	↓ ^h	↓ ^h	↓ ^h	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^g	↑ ^g
	Levonorgestrel	↑ ^g	↑ ^g	↑ ^g	↓ ⁱ	↓ ⁱ	↓ ⁱ	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^g	↑ ^g
	Medroxy-progesterone (IM)	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
	Medroxy-progesterone (oral)	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑
	Norelgestromin	↑ ^j	↑ ^j	↑83% ^j	↓ ^h	↓ ^h	↓ ^h	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^j	↑ ^j
	Norethisterone (Norethidrone)	↓ ^{h,k}	↓14% ^h	↓17% ^h	↓ ^h	↓5%	↓19% ^h	↓11%	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^g	↑ ^g
	Norgestimate	↑85% ^g	↑ ^g	↑ ^g	↓ ^h	↓ ^h	↓ ^h	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑126% ^g	↑126% ^g
	Norgestrel	↑ ^g	↑ ^g	↑ ^g	↓ ^h	↓ ^h	↓ ^h	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^g	↑ ^g
Other	Levonorgestrel (EC)	↑	↑	↑	↓58% ^l	↓ ^l	↓ ^l	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑	
	Mifepristone	↑	↑	↑	↓	↓	↓	↑	↑	↔	↔	↔	↔	↔	↔	↔	↑	↑	
	Ulipristal	↑	↑	↑	↓ ^m	↓ ^m	↓ ^m	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑	

Colour Legend

- No clinically significant interaction expected.
- These drugs should not be coadministered.
- Potential interaction which may require a dosage adjustment or close monitoring.
- Potential interaction predicted to be of weak intensity (<2 fold ↑AUC or <50% ↓AUC). No *a priori* dosage adjustment is recommended.

Text Legend

- ↑ Potential increased exposure of the hormone
- ↓ Potential decreased exposure of the hormone
- ↔ No significant effect
- ↑↑ Potential increased exposure of HIV drug
- ↓↓ Potential decreased exposure of HIV drug

Numbers refer to decreased AUC of the hormone as observed in drug-drug interaction studies.

- a Unboosted ATV increased ethinylestradiol AUC by 48%.
Use no more than 30 µg of ethinylestradiol if coadministered with unboosted ATV and at least 35 µg of ethinylestradiol if coadministered with ATV/r.
- b Alternative or additional contraceptive measures are recommended or, if used for hormone replacement therapy, monitor for signs of estrogen deficiency.
- c No effect on ethinylestradiol exposure, however, levels of coadministered progestin were markedly decreased.
A reliable method of barrier contraception must be used in addition to oral contraception.
- d European SPC states a hormonal contraceptive should contain at least 30 µg ethinylestradiol.
- e Monitor for signs of estrogen deficiency.
- f Increased conversion to the active metabolite, etonogestrel.
- g When used in a combination pill the estrogen component is reduced. In the absence of clinical data on the contraceptive efficacy, caution is recommended and additional contraceptive measures should be used.
- h A reliable method of barrier contraception must be used in addition to oral contraception.
- i The use of implants or vaginal rings is not recommended in women on long-term treatment with hepatic enzyme-inducing drugs.
- j Norelgestromin is administered with ethinylestradiol as a transdermal patch. Ethinylestradiol exposure was reduced which may compromise contraceptive efficacy.
Caution is recommended and additional contraceptive measures should be used.
- k Unboosted ATV increased norethisterone AUC by 2.1-fold.
- l Use 3 mg as a single dose for emergency contraception.
Of note, the doubling of the standard dose is outside the product license and there is limited evidence in relation to efficacy.
- m May reduce the efficacy of the emergency contraceptive pill.

Notes

- Transdermal application avoids first-pass metabolism, however, hepatic metabolism still occurs and therefore there is a risk of drug-drug interactions.
- Intrauterine administration releases the hormone (i.e. levonorgestrel) directly to the target organ before it is absorbed into the systemic circulation and therefore is less likely to be affected by ARVs.