

Cancer Therapies Treatment Selector

Charts reviewed July 2018. Full information available at www.hiv-druginteractions.org

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		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
Anti-tumour ABT	Bleomycin	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
	Daunorubicin	↔ ^a	↔	↔ ^a	↔	↔	↔	↔ ^a	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Doxorubicin	↔ ^a	↔	↔ ^a	↔	↔	↔	↔ ^a	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Epirubicin	↓ ^a	↓	↓ ^a	↑	↔	↔	↔ ^a	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
Alkylating Agents	Carboplatin	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^j	↔	↔ ^q	↔ ^b	↔	↔ ^q
	Chlorambucil	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Cisplatin	↑	↑	↑	↔	↔	↔	↔	↔	↔	↔	↔	↑ ^j	↑ ^j	↔ ^q	↔ ^b	↑ ^j	↔ ^q
	Cyclophosphamide	↓ ^d	↓ ^d	↓ ^d	↓ ^f	↓ ^f	↓ ^f	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↓ ^d	↓ ^d
	Dacarbazine	↓ ^d	↓ ^d	↓ ^d	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↔ ^b	↔	↔ ^c
	Dactinomycin	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Ifosfamide	↑ ^e	↑ ^e	↑ ^e	↓ ^f	↓ ^f	↓ ^f	↓	↓	↔	↔	↔	↔	↔	↔	↔ ^c	↑ ^{c,e}	↑ ^{c,e}
	Oxaliplatin	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^k	↔	↔	↔	↑	↔ ^c	↔ ^b	↔	↔ ^c
	Procarbazine	↓ ^d	↓ ^d	↓ ^d	↓ ^d	↔	↓ ^d	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
Antimetabolite Agents	Capecitabine	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ [?]	↑ [?]	↑ [?]	↔ ^b	↑ [?]	↑ [?]
	Cytarabine	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Fluorouracil	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑ [?]	↑ [?]	↑ [?]	↔ ^b	↑ [?]	↑ [?]
	Gemcitabine	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Mercaptopurine	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↔	↔
	Methotrexate	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↔ ^g	↑ ^{cg}	↔ ^{bg}	↔ ^g	↑ ^{cg}
Plant Alkaloids	Docetaxel	↑	↑	↑	↓	↓	↓	↑ [?]	↑ [?]	↔	↔	↔	↔	↔	↔	↔ ^b	↑	↑
	Etoposide	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↑	↑
	Irinotecan	↑ ^h	↑ ^h	↑ ^h	↓ ⁱ	↓ ⁱ	↓ ⁱ	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↑ ^h	↑ ^h
	Paclitaxel	↑	↑	↑	↑	↓	↓	↔	↓	↓	↓	↓	↔	↔	↔	↔ ^b	↑	↑
	Vinblastine	↑	↑	↑	↓	↓	↓	↓	↓	↓	↓	↓	↔	↔	↔	↔ ^b	↑	↑
	Vincristine	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↑	↑
Tyrosine Kinase Inhibitors	Dasatinib	↑ [*]	↑	↑ [*]	↓	↓	↓	↑ ⁺	↑	↔	↔	↔	↔	↔	↔	↔	↑	↑
	Erlotinib	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑
	Gefitinib	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑
	Imatinib	↑	↑	↑	↓	↓	↓	↑	↑	↔	↔	↔	↔	↔	↔	↔ ^b	↑	↑
	Lapatinib	↑ [*]	↑ ^a	↑ [*]	↓	↓	↓	↑ ⁺	↑	↔	↔	↔	↔	↔	↔	↔	↑ ^a	↑ ^a
	Nilotinib	↑ [*]	↑ ^a	↑ [*]	↓	↓	↓	↑ ⁺	↑	↔	↔	↔	↔	↔	↔	↔	↑ ^a	↑ ^a
	Pazopanib	↑ [*]	↑ ^a	↑ [*]	↓	↓	↓	↑ ⁺	↑	↔	↔	↔	↔	↔	↔	↔	↑ ^a	↑ ^a
	Sunitinib	↑ [*]	↑	↑ [*]	↓	↓	↓	↑ ⁺	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑
Others	Bortezomib	↑ ^a	↑	↑ ^a	↓	↓	↓	↔ ^a	↔	↔	↔	↔	↔	↔	↔	↔ ^b	↑	↑
	Everolimus	↑	↑	↑	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↔	↔	↑	↑
	Sorafenib	↑ [*]	↔	↑ [*]	↓	↓	↓	↔ ^a	↔	↔	↔	↔	↔	↔	↔	↔	↑	↔
	Tamoxifen	↑ ^e	↑ ^e	↑ ^e	↓	↓	↓	↓	↓	↔	↔	↔	↔	↔	↔	↔	↑ ^e	↑ ^e
	Temsirolimus	↑	↑	↑	↓ ^d	↓ ^d	↓ ^d	↑	↑	↔	↔	↔	↔	↔	↔	↔	↑	↑

Colour Legend

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

Text Legend

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

ABT = antibiotic

- a Cytostatic agent may induce cardiac toxicity including arrhythmias and/or non-specific ECG abnormalities; caution is warranted in presence of other drugs with potential effects on PR and QT intervals.
- * Both drugs can potentially prolong the QT interval. Coadministration with such drugs requires caution with ATV and LPV.
- + Rilpivirine's manufacturer recommends caution when coadministering with another drug susceptible to prolong QT interval as supratherapeutic doses of rilpivirine (75 and 300 mg once daily) were shown to prolong QT interval.
- b Potential additive hematological toxicity
- c Potential additive nephrotoxicity
- d Concentrations of parent drug decreased but concentrations of the active metabolite increased.
- e Concentrations of parent drug increased but concentrations of the active metabolite decreased which may result in decreased efficacy.
- f Concentrations of parent drug decreased but concentrations of the active metabolite and toxic metabolite increased.
- g Use in HIV patients is contraindicated by some manufacturers.
- h Concentrations of SN-38 (active metabolite) increased.
- i Conversion of SN-38 to inactive metabolite increased.
- j The cytostatic agent may impair renal function: monitor the creatinine clearance and adjust the NRTI dosage accordingly (this may require a change from a single tablet regimen).
- k The oxaliplatin effect may be potentially antagonised due to its reduced entry into the tumoral cell arising from the inhibition of OCT2.

Abbreviations ATV atazanavir DRV darunavir LPV lopinavir R/r rilpivirine E/FV efavirenz ETV etravirine NVP nevirapine RPV rilpivirine MVC maraviroc DTG dolutegravir RAL raltegravir ABC abacavir FTC emtricitabine 3TC lamivudine TDF tenofovir disoproxil fumarate ZDV zidovudine E/C/F/ Elvitegravir/Cobicistat/FTC TAF tenofovir alafenamide

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