

Cancer Therapies Treatment Selector (1)

Charts revised December 2023. Full information available at www.hiv-druginteractions.org

	ATV/c	ATV/r	DRV/c	DRV/r	LPV/r	DOR	EFV	ETV	NVP	RPV oral	FTR	LEN	MVC	BIC/ F/TAF	CAB oral	CAB/ RPV	DTG	EVG/c/ F/TAF	EVG/c/ F/TDF	RAL	FTC/ TAF	FTC/ TDF
Anti-tumour Antibio	tics									orar				17174	orar	TGI V		17174	17101		1741	101
Bleomycin	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Daunorubicin	↔a	↔a	\leftrightarrow	\leftrightarrow	↔a	\leftrightarrow	↔a	\leftrightarrow	\leftrightarrow	↔ a	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↔a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Doxorubicin	↔a	↔a	\leftrightarrow	\leftrightarrow	↔ a	\leftrightarrow	↔a	\leftrightarrow	\leftrightarrow	↔ a	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↔a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Epirubicin	↔a	↓a	\leftrightarrow	↓	↓a	\leftrightarrow	↑a	\leftrightarrow	\leftrightarrow	↔ a	↔ a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↔a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Alkylating Agents															\leftrightarrow							
Carboplatin	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	< b,c	\leftrightarrow	\leftrightarrow	< b,c
Chlorambucil	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Cisplatin	1	1	1	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ ↑ d	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ 介 b,d	↑ ↑ b,d	\leftrightarrow	↑ ↑ b,d	↑ 介 b,c
Cyclophosphamide	↓e	↓e	↓e	↓e	↓e	\leftrightarrow	↓f	↓f	↓f	\leftrightarrow	\leftrightarrow	↓e	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↓e	↓e		\leftrightarrow	\leftrightarrow
Dacarbazine	\leftrightarrow	↓e	\leftrightarrow	↓e	↓e	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ î g		\leftrightarrow	↑ 1 g
Dactinomycin	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
lfosfamide	↑ h	↑h	↑ h	↑ h	↑ h	₩	↓f	↓f	↓f	↓	₩	↑h↓	₩	nn or ↓ i	\leftrightarrow	↓	\leftrightarrow	↑ b,h	↑ b,h	\leftrightarrow	< b b	↔ b
Oxaliplatin	↔ ♥	↔ ♥	\leftrightarrow	\leftrightarrow	↔ ♥	\leftrightarrow	↔ ♥	\leftrightarrow	\leftrightarrow	↔ ♥	↔ ♥	\leftrightarrow	\leftrightarrow	↔j	\leftrightarrow	↔ ♥	↔j	\leftrightarrow	↔ b	\leftrightarrow	\leftrightarrow	↔ b
Procarbazine	\leftrightarrow	↓e	\leftrightarrow	↓e	↓e	\leftrightarrow	↓e	\leftrightarrow	↓e	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Antimetabolite Ager	its						_							_								
Capecitabine	$\leftrightarrow \Psi$	↔ ♥	\leftrightarrow	\leftrightarrow	$\leftrightarrow $	\leftrightarrow	↔ ♥	\leftrightarrow	\leftrightarrow	$\leftrightarrow \Psi$	$\leftrightarrow \Psi$	\leftrightarrow	\leftrightarrow	↑?	\leftrightarrow	$\leftrightarrow \Psi$	\leftrightarrow	↑?	†?	\leftrightarrow	↑?	↑?
Cytarabine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Fluorouracil	↔ ♥	↔ ♥	\leftrightarrow	\leftrightarrow	↔ ♥	\leftrightarrow	↔ ♥	\leftrightarrow	\leftrightarrow	↔ ♥	$\leftrightarrow \Psi$	\leftrightarrow	\leftrightarrow	↑?	\leftrightarrow	↔ ♥	\leftrightarrow	†?	†?	\leftrightarrow	↑?	↑?
Gemcitabine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Mercaptopurine	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Methotrexate	↑ k	↑k	↑ k	↑ k	↑ k	↔ k	↔ k	↔ k	↔ k	↔ k	↑? k	↔k	↔k	↔ k	↑? k	↑? k	↔ k	↑ k	↑ b,k	↔k	\leftrightarrow k	↑ b,k

Interactions with CAB/RPV long acting injections

Pharmacokinetic interactions shown are mostly with RPV. QT interactions shown are with RPV.

Interactions with Lenacapavir

Residual LEN may affect exposure of sensitive CYP3A4 substrates initiated within 9 months after stopping subcutaneous LEN.

Interactions with Ibalizumab

Interactions with Abacavir (ABC), Lamivudine (3TC), Tenofovir-DF (TDF) or Zidovudine (ZDV)

- ABC: ABC may compete for the metabolic pathways of capecitabine and fluorouracil (clinical relevance unknown).
- 3TC: 3TC may compete for the metabolic pathways of capecitabine and fluorouracil (clinical relevance unknown).
- 3TC: Concentrations of cisplatin and 3TC could increase if coadministered. Furthermore, cisplatin may impair renal function. Closely monitor creatinine clearance.
- 3TC: Concentrations of oxaliplatin and 3TC could increase if coadministered. Monitor side effects.
- TDF: Carboplatin may impair renal function: monitor creatinine clearance and adjust TDF dosage accordingly.
- TDF: Potential additive nephrotoxicity with cisplatin, ifosfamide, and oxaliplatin, Closely monitor renal function,
- TDF: Dacarbazine and tenofovir concentrations may increase when coadministered. Closely monitor renal function. TDF: Potential additive nephrotoxicity with methotrexate. Closely monitor renal function. Use in HIV patients is
- contraindicated by some manufacturers.
- ZDV: Potential additive haematological toxicity with capecitabine, carboplatin, chlorambucil, cisplatin, cyclophosphamide, cytarabine, dacarbazine, dactinomycin, daunorubicin, docetaxel, doxorubicin, epirubicin, etoposide, fluorouracil, gemcitabine, ifosfamide, irinotecan, mercaptopurine, methotrexate, oxaliplatin, paclitaxel, procarbazine, vinblastine, vincristine.

1 Potential increased exposure of HIV drug

↓ Potential decreased exposure of HIV drug

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 a priori dosage adjustment is recommended.

Text Legend

- Potential increased exposure of the cancer drug
- Potential decreased exposure of the cancer drug
- → No significant effect
- One or both drugs may cause QT and/or PR prolongation.
 - ECG monitoring is advised if coadministered with atazanavir or lopinavir.
- Efavirenz has a potential risk of QT prolongation relating specifically to homozygous carriers of CYP2B6*6/*6. Rilpivirine and fostemsavir were shown to prolong the QT interval at supratherapeutic doses. Caution is advised with rilpivirine. ECG monitoring is advised with fostemsavir and drugs with a known QT prolongation risk.

Notes

- 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
- Potential additive nephrotoxicity
- Carboplatin may impair renal function: monitor creatinine clearance and adjust NRTI dosage accordingly (may require a change from a single tablet regimen).
- Coadministration may increase concentrations of cisplatin and FTC. Close monitoring of renal function is recommended.
- Concentrations of parent drug decreased but concentrations of the active metabolite increased.
- Concentrations of parent drug decreased but concentrations of the active metabolite and toxic metabolite increased. Concentrations of dacarbazine and tenofovir may increase. Close monitoring of renal function is recommended.
- Concentrations of parent drug increased but concentrations of the active metabolite decreased which may result in decreased efficacy
- Coadministration may affect bictegravir concentrations. In addition, ifosfamide and tenofovir alafenamide may show additive renal toxicity. The oxaliplatin effect may be potentially antagonised due to its reduced entry into the tumour cell arising from the inhibition of OCT2.
- Use in HIV patients is contraindicated by some manufacturers.

Abbreviations ATV atazanavir bTV darunavir LEN lenacapavir MVC maraviroc BIC bictegravir CAB cabotegravir DTG dolutegravir DTG dolutegravir bTG dolutegravir bT



↑ Potential increased exposure of HIV drug

↓ Potential decreased exposure of HIV drug

Cancer Therapies Treatment Selector (2)

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ATV/c ATV/r DRV/c DRV/r LPV/r DOR EFV ETV NVP RPV FTR LEN MVC BIC/ CAB CAB/ DTG EVG/c/ RAL FTC/ F																						
	ATV/c	ATV/r	DRV/c	DRV/r	LPV/r	DOR	EFV	ETV	NVP	RPV oral	FTR	LEN	MVC	BIC/ F/TAF	CAB oral	CAB/ RPV	DTG		EVG/c/ F/TDF	RAL	FTC/ TAF	FTC/ TDF
Plant Alkaloids																						
Docetaxel	1	1	1	1	1	\leftrightarrow	\downarrow	\downarrow	\downarrow	↑?	1	1	↑?	\leftrightarrow	\leftrightarrow	↑?	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Etoposide	1	1	1	1	1	\leftrightarrow	\downarrow	\downarrow	\downarrow	\leftrightarrow	\leftrightarrow	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Irinotecan	↑ a,b	↑ a,b	↑ a	↑ a	↑ a	\leftrightarrow	↓ c	↓ c	↓ c	\leftrightarrow	1	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ a	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow
Paclitaxel	1	1	1	1	1	₩	1	$\downarrow \downarrow \downarrow$	\leftrightarrow	⇒	1	↑₩	₩	↓ d		₩	⇒	1	1	⇒		\leftrightarrow
Vinblastine	1	1	1	1	1	₩	↓	↓ ₩	↓	₩	₩	1	\$	Џd	\leftrightarrow	₩	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Vincristine	1	1	1	1	1	\leftrightarrow	↓	↓	↓	\leftrightarrow	\leftrightarrow	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Tyrosine Kinase Inh	ibitors																					
Dasatinib	↑ ♥	↑ ♥	1	1	↑ ♥	\leftrightarrow	↓ ♥	\downarrow	\downarrow	क्षे	$\leftrightarrow \Psi$	1	1	\leftrightarrow	\leftrightarrow	îv	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Erlotinib	1	1	1	1	1	\leftrightarrow	\downarrow	\downarrow	\downarrow	\leftrightarrow	\leftrightarrow	↑ 🏗	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Gefitinib	1	1	1	1	1	\leftrightarrow	↓	\downarrow	\downarrow	\leftrightarrow	\leftrightarrow	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Imatinib	↑♥	↑♥	1	1	↑♥	î	↓îr▼	↓ ↑	↓ ↑	↑	↑♥	1	î	\leftrightarrow		îΨ	‡	1	1	‡		\leftrightarrow
Lapatinib	↑ ♥	↑♥	↑♡	↑♡	↑♥	\leftrightarrow	↓ ♥	\downarrow	\downarrow	↑	$\leftrightarrow \Psi$	↑♡	î	\leftrightarrow		îΨ	‡	↑♡	↑♡	‡		\leftrightarrow
Nilotinib	↑ ♥	↑ ♥	↑♡	↑♡	↑ ♥	1	↓îr▼	↓fì	↓ſî	îΨ	↔ ♥	↑↑	î	↓ d	\leftrightarrow	î₩	\leftrightarrow	↑♡	↑♡	\leftrightarrow		\leftrightarrow
Pazopanib	↑ ♥	↑ ♥	↑♡	↑♡	↑ ♥	\leftrightarrow	↓ ♥		1	îΨ	↔ ♥	↑♡ ↑	î	\leftrightarrow	\leftrightarrow	î₩	\leftrightarrow	↑♡	↑♡	\leftrightarrow	\leftrightarrow	\leftrightarrow
Sunitinib	↑ ♥	↑ ♥	↑♡	↑♡	↑ ♥	\leftrightarrow	↓ ♥	\downarrow	\downarrow	$\leftrightarrow $	$\leftrightarrow \Psi$	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	$\leftrightarrow $	\leftrightarrow	↑♡	↑♡			\leftrightarrow

Interactions with CAB/RPV long acting injections Pharmacokinetic interactions shown are mostly with RPV. QT interactions shown are with RPV.

Interactions with Lenacapavir

Residual LEN may affect exposure of sensitive CYP3A4 substrates initiated within 9 months after stopping subcutaneous LEN.

Interactions with Ibalizumab

None

Interactions with Abacavir (ABC), Lamivudine (3TC), Tenofovir-DF (TDF) or Zidovudine (ZDV)

- ABC: ABC may compete for the metabolic pathways of capecitabine and fluorouracil (clinical relevance unknown).
- 3TC: 3TC may compete for the metabolic pathways of capecitabine and fluorouracil (clinical relevance unknown). 3TC: Concentrations of cisplatin and 3TC could increase if coadministered. Furthermore, cisplatin may impair renal
- 3TC: Concentrations of oxaliplatin and 3TC could increase if coadministered. Monitor side effects.
- TDF: No clinically relevant interactions expected.

function. Closely monitor creatinine clearance.

ZDV: Potential additive haematological toxicity with capecitabine, carboplatin, chlorambucil, cisplatin, cyclophosphamide, cytarabine, dacarbazine, dactinomycin, daunorubicin, docetaxel, doxorubicin, epirubicin, etoposide, fluorouracil, gemcitabine, ifosfamide, irinotecan, mercaptopurine, methotrexate, oxaliplatin, paclitaxel, procarbazine, vinblastine, vincristine.

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 *a priori* dosage adjustment is recommended.

Text Legend

- Potential increased exposure of the cancer drug
- Potential decreased exposure of the cancer drug
- → No significant effect
- One or both drugs may cause QT and/or PR prolongation.

ECG monitoring is advised if coadministered with atazanavir or lopinavir.

Efavirenz has a potential risk of QT prolongation relating specifically to homozygous carriers of CYP2B6*6/*6.

Rilpivirine and fostemsavir were shown to prolong the QT interval at supratherapeutic doses. Caution is advised with rilpivirine. ECG monitoring is advised with fostemsavir and drugs with a known QT prolongation risk.

♡ Potential QT and/or PR prolongation due to the cytostatic agent. Use with caution; ECG monitoring recommended

Notes

- Concentrations of SN-38 (active metabolite) increased.
- b Coadministration is contraindicated in the atazanavir US product label, but the European product label recommends patients should be closely monitored for adverse reactions related to irinotecan.
- c Conversion of SN-38 to inactive metabolite increased.
- d Coadministration may decrease bictegravir concentrations, but no effect on emtricitabine or tenofovir alafenamide is expected.

Abbreviations ATV atazanavir bTV darunavir LEN lenacapavir MVC maraviroc BIC bictegravir CAB cabotegravir DTG dolutegravir DTG dolutegravir bTG dolutegravir bT



↑ Potential increased exposure of HIV drug

↓ Potential decreased exposure of HIV drug

Cancer Therapies Treatment Selector (3)

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	ATV/c	ATV/r	DRV/c	DRV/r	LPV/r	DOR	EFV	ETV	NVP	RPV oral	FTR	LEN	MVC	BIC/ F/TAF	CAB oral	CAB/ RPV	DTG	EVG/c/ F/TAF	EVG/c/ F/TDF	RAL	FTC/ TAF	FTC/ TDF
Others		_	_	_	_		=	_	_	=		=	-	_		_	-	_	-			
Abiraterone	$\leftrightarrow \Psi$	$\leftrightarrow \blacktriangledown$	\leftrightarrow	\leftrightarrow	$\leftrightarrow \blacktriangledown$	\leftrightarrow	↓ ♥	1	↓	\leftrightarrow												
Avelumab	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Bortezomib	↑ ♥	↑ ♥	1	1	↑♥	\leftrightarrow	↓ ♥	↓	\downarrow	↔ ♥	↔ ♥	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	↔ ♥	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Brentuximab vedotin	↑ a	↑ a	↑ a	↑a	↑ a	\leftrightarrow	↓b	↓b	↓b	\leftrightarrow	\leftrightarrow	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ a	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow
Cetuximab	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Enzalutamide	₩	₩	₩	⇒	↓	₩	↑♥	₩	₩	↓	₩	Ų c	U d	₩	↓	↓	↓ e	₩	₩	↓ f	\leftrightarrow	\leftrightarrow
Everolimus	1	1	1	1	1	\leftrightarrow	↓	1	↓	\leftrightarrow	\leftrightarrow	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Polatuzumab vedotin	↑ a	↑ a	↑ a	↑ a	↑ a	\leftrightarrow	↓b	↓b	↓b	\leftrightarrow	\leftrightarrow	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ a	↑ a	\leftrightarrow	\leftrightarrow	\leftrightarrow
Sorafenib	↔ g ♥	↔ g ♥	↔ g	↔ g		\leftrightarrow	↓ ♥	1	↓	↔ ♥	↔ ♥	1	\leftrightarrow	\leftrightarrow	\leftrightarrow	↔ ♥	\leftrightarrow	↔ g	↔ g,h	\leftrightarrow	\leftrightarrow	\leftrightarrow h
Tamoxifen	↑i♥	↑i♥	↑i	↑i	↑i♥	↓	↓ ♥	↓ U	↓	ŲΨ	↔ ♥	ϯi	₩	₩	\leftrightarrow	ŲΨ	\leftrightarrow	↑i	↑i	\leftrightarrow	\leftrightarrow	\leftrightarrow
Temsirolimus	1	1	1	1	1	\leftrightarrow	↓j	↓j	↓j	ı	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	î	\leftrightarrow	1	1	\leftrightarrow	\leftrightarrow	\leftrightarrow
Trastuzumab	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow
Trastuzumab emtansine	↑ k	↑ k	↑ k	↑ k	↑ k	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	ŢΙ	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	\leftrightarrow	↑ k	↑ k	\leftrightarrow	\leftrightarrow	\leftrightarrow

Interactions with CAB/RPV long acting injections

Pharmacokinetic interactions shown are mostly with RPV. QT interactions shown are with RPV.

Interactions with Lenacapavir

Residual LEN may affect exposure of sensitive CYP3A4 substrates initiated within 9 months after stopping subcutaneous LEN.

Interactions with Ibalizumab

None

Interactions with Abacavir (ABC), Lamivudine (3TC), Tenofovir-DF (TDF) or Zidovudine (ZDV) ABC: Enzalutamide may decrease ABC concentrations, although to a limited extent.

- ABC: Enzalutamide may decrease ABC concentrations, although to a limited extent. No a priori dose adjustment is required.
- 3TC: No clinically relevant interactions expected.
- TDF: Potential additive nephrotoxicity with sorafenib. Monitor renal function if coadministered or consider an alternate antiretroviral regimen if possible.
- ZDV: Potential additive haematological toxicity with bortezomib, imatinib, trastuzumab, trastuzumab emtansine.

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 *a priori* dosage adjustment is recommended.

Text Legend

- ↑ Potential increased exposure of the cancer drug
- Potential decreased exposure of the cancer drug
- → No significant effect
- One or both drugs may cause QT and/or PR prolongation. ECG monitoring is advised if coadministered with atazanavir or lopinavir. Efavirenz has a potential risk of QT prolongation relating specifically to homozygous carriers of CYP2B6*6/*6. Rilpivirine and fostemsavir were shown to prolong the QT interval at supratherapeutic doses. Caution is advised with rilpivirine. ECG monitoring is advised with fostemsavir and drugs with a known QT prolongation risk.

Notes

- a Brentuximab vedotin and polatuzumab vedotin are antibody-drug conjugates comprising a monoclonal antibody and monomethyl auristatin E (MMAE), a potent chemotherapeutic agent and a substrate of CYP3A4 and P-gp. Coadministration may increase concentrations of MMAE and the incidence of neutropenia. Patients should be closely monitored for toxicities.
- b Brentuximab vedotin and polatuzumab vedotin are antibody-drug conjugate comprising a monoclonal antibody and monomethyl auristatin E (MMAE), a potent chemotherapeutic agent and a substrate of CYP3A4 and P-gp. Coadministration may decrease concentrations of MMAE but no a priori dose adjustment is necessary as the contribution of free MMAE to efficacy is minimal.
- c Enzalutamide has a long half-life (5.8 days), therefore a minimum of 2 weeks (but preferably 4 weeks) cessation period is recommended prior to initiation of lenacapavir due to the persisting inducing effect upon discontinuation of a strong inducer.
- d Consider increasing maraviroc to 600 mg twice daily in presence of enzalutamide. Enzalutamide has a long half-life (5.8 days), therefore the maraviroc dose should be kept at 600 mg twice daily for a minimum of 2 weeks (but preferably 4 weeks) following cessation of enzalutamide due to the persisting inducing effect upon discontinuation of a strong inducer.
- e Dolutegravir should be administered at 50 mg twice daily in the absence of integrase class resistance. In the presence of integrase class resistance this combination should be avoided. Enzalutamide has a long half-life (5.8 days), therefore the dolutegravir dose should be kept at 50 mg twice daily for a minimum of 2 weeks (but preferably 4 weeks) following cessation of enzalutamide due to the persisting inducing effect upon discontinuation of a strong inducer.
- f Consider increasing raltegravir dose to 800 mg twice daily when coadministering with enzalutamide. Coadministration of once daily raltegravir is not recommended. Enzalutamide has a long half-life (5.8 days), therefore the raltegravir dose should be kept at 800 mg twice daily for a minimum of 2 weeks (but preferably 4 weeks) following cessation of enzalutamide due to the persisting inducing effect upon discontinuation of a strong inducer.
- g Poor tolerability has been observed in patients on ritonavir-containing regimens. (A similar effect may also occur with cobicistat-containing regimens.
- h Potential additive nephrotoxicity with sorafenib and tenofovir-DF. Monitor renal function if coadministered or consider an alternate antiretroviral regimen if possible.
- i Concentrations of parent drug increased but concentrations of the active metabolite decreased which may result in decreased efficacy.
- j Concentrations of parent drug decreased but concentrations of the active metabolite increased.
- k Coadministration not recommended due to the potential for an increase in exposure and toxicity of DM1 (an active component of emtansine).
- Potential increase in exposure and toxicity of DM1 (an active component of emtansine).

Abbreviations ATV atazanavir FTR fostemsavir LEN lenacapavir MVC maravirocu BIC bictegravir CAB cabbtegravir DTG dolutegravir CAB cabbtegravir DTG dolutegravir DTG dolutegravir BTG dolutegravir BTG delutegravir BTG delutegravir