

Antiepileptic Treatment Selector

Charts revised March 2020.

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	DCV	ELB/GZR	G/P	LED/SOF	OBV/PTV/r	OBV/PTV/r +DSV	SMV	SOF	SOF/VEL	SOF/VEL/VOX
Carbamazepine	↓	↓	↓ ^a	↓	↓ ^b	↓ ^b	↓	↓	↓	↓
Clobazam	↔	↔	↔	↔	↑ ^c	↑ ^c	↑ ^c	↔	↔	↔
Clonazepam	↔	↔	↔	↔	↑	↑	↑	↔	↔	↔
Eslicarbazepine	↓	↓	↓	↔	↓	↓	↓	↔	↓	↓
Diazepam	↔	↔	↔	↔	↑↓ ^d	↑↓ ^d	↑ ^e	↔	↔	↔
Ethosuximide	↔	↔	↔	↔	↑	↑	↑	↔	↔	↔
Gabapentin	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Lacosamide	↔	↔	↔	↔	↑	↑	↑	↔	↔	↔
Lamotrigine	↔	↔	↔	↔	↓	↓	↔	↔	↔	↔
Levetiracetam	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Lorazepam	↔	↔	↔	↔	↑	↑	↔	↔	↔	↔
Midazolam (oral)	↔	↑	↔	↔	↑	↑	↑ ^f	↔	↔	↔
Midazolam (parental)	↔	↑	↔	↔	↑ ^g	↑ ^g	↔ ^h	↔	↔	↔
Oxcarbazepine	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Perampanel	↔ ⁱ	↔	↔	↔	↑	↑	↑	↔	↔	↔
Phenobarbital	↓	↓	↓	↓	↓↓	↓↓	↓	↓	↓	↓
Phenytoin	↓	↓	↓	↓	↓↓	↓↓	↓	↓	↓	↓
Pregabalin	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Primidone	↓	↓	↓	↓	↓↑	↓↑	↓	↓	↓	↓
Retigabine	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Rufinamide	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Sultiame	↔	↔	↔	↔	↑ ^c	↑ ^c	↑↑ ^j	↔	↔	↔
Tiagabine	↔	↔	↔	↔	↑ ^c	↑ ^c	↑ ^c	↔	↔	↔
Topiramate	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Valproate	↔	↔	↔	↔	↓ ^k	↓ ^k	↔	↔	↔	↔
Vigabatrin	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
Zonisamide	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔

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.

Text Legend

↑	Potential increased exposure of the anticonvulsant	↑	Potential increased exposure of HCV DAA
↓	Potential decreased exposure of the anticonvulsant	↓	Potential decreased exposure of HCV DAA
↔	No significant effect		

Numbers refer to increased or decreased AUC as observed in drug-drug interaction studies.

- a Glecaprevir AUC decreased by 66%; pibrentasvir AUC decreased by 51%.
- b Coadministration with ombitasvir/paritaprevir/ritonavir + dasabuvir decreased the AUCs of ombitasvir, paritaprevir and dasabuvir by 31%, 70% and 70%, respectively.
- c Close monitoring is recommended for signs and symptoms of increased antiepileptic concentration.
- d Coadministration with ombitasvir/paritaprevir/ritonavir + dasabuvir increased diazepam C_{max} by 18%, but decreased AUC by 22%; nordiazepam C_{max} increased by 10%, but AUC decreased by 40%. Monitor closely and adjust dose if indicated.
- e Use with caution and at the lowest possible dose.
- f Midazolam C_{max} and AUC increased by 31% and 25%.
- g Coadministration should take place under close clinical monitoring with medical management in case of respiratory depression. Dose reduction should be considered.
- h Midazolam C_{max} decreased by 22% and AUC increased by 10%.
- i In the absence of data, consider monitoring virological response.
- j Monitor the usual clinical parameters closely for increased side effects and concentrations.
- k The clinical significance of this is unclear. No a priori dose adjustment is required. Perform therapeutic drug monitoring and adjust dose if indicated.

Abbreviations: DCV Daclatasvir SMV Simeprevir ELB/GZR Elbasvir/Grazoprevir SOF Sofosbuvir G/P Glecaprevir/Pibrentasvir VEL Velpatasvir LED Ledipasvir VOX Voxilaprevir OBV/PTV/r +DSV Ombitasvir/Paritaprevir/Ritonavir +Dasabuvir

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