

# For the use of Gastroenterologist/Hepatologist only

# **MyHep DVIR®** Sofosbuvir and Daclatasvir Tablets IP 400 mg/60 mg

1. NAME OF THE MEDICINAL PRODUCT

Sofosbuvir and Daclatasvir Tablets IP 400 mg/60 mg 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains: Sofosbuvir IP

400 mg Daclatasvir Dihvdrochloride IP equivalent to Daclatasvir 60 mg For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Film-coated tablet.

Peach colored, modified capsule shaped, biconvex beveled edge film-coated tablet debossed with "M" on one side and "DTS" on the other side.

# 4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Daclatasvir/Sofosbuvir is indicated for the treatment of patient with Chronic Hepatitis C virus (HCV) genotype 3 infection Consideration should be given to official treatment guidelines for HCV infection (e.g. those of the WHO).

# 4.2 Posology and method of administration

Sofosbuvir and Daclatasvir Tablets IP 400 mg/60 mg should be initiated and monitored by a health care provider experienced in the management of chronic hepatitis C Posology

The recommended dose of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg is one tablet, taken orally, once daily with food (see section 5.2).

Table 1: Recommended regimens and treatment duration for Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg

HCV Genotype and Patient population	Treatment	Duration
Genotype 3 without cirrhosis	Daclatasvir + sofosbuvir	12 weeks
Genotype 3 with cirrhosis	Daclatasvir + sofosbuvir $\pm$ ribavirin	24 weeks
* Includes patients co-infected with human	immunodeficiency virus (HIV).	

## Dose modification

Dose modification of the fixed dose combination Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg to manage adverse reactions is not recommended.

**Ribavirin Dosing Guidelines** Table 2 provides guidelines for dose modifications and discontinuation based on the patient's haemoglobin concentration and cardiac status.

# Table 2: Ribavirin dose modification guideline for co-administration with sofosbuvir

Laboratory values	Reduce ribavirin dose to 600 mg/day if:	Discontinue ribavirin if:		
Haemoglobin in subjects with no cardiac disease	<10 g/dL	<8.5 g/dL		
Haemoglobin in subjects with history of stable cardiac disease	≥2 g/dL decrease in haemoglobin during any 4 week treatment period	<12 g/dL despite 4 weeks at reduced dose		

Once ribavirin has been withheld due to either a laboratory abnormality or clinical manifestation, an attempt may be made to restart ribavirin at 600 mg daily and further increase the dose to 800 mg daily. However, it is not recommended that ribavirin be increased to the original assigned dose (1,000 mg to 1,200 mg daily). Dose recommendation for concomitant medicines

Strong inhibitors of cytochrome P450 enzyme 3A4 (CYP3A4) Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg should not be used in combination with strong inhibitors of CYP3A4 since appropriate dose adjustments cannot be made.

Moderate inducers of CYP3A4

The dose of daclatasvir should be increased to 90 mg once daily when co-administered with moderate inducers of CYP3A4. This dose adjustment cannot be achieved with this product. Daclatasvir 30 mg tablets should be used. See section 4.5.

#### Missed doses

Patients should be instructed that, if they miss a dose of the Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg, the dose should be taken as soon as possible if remembered within 20 hours of the scheduled dose time. However, if the missed dose is remembered more than 20 hours after the scheduled dose, the dose should be skipped and the next dose taken at the appropriate time.

#### Special patient populations Elderly

No dose adjustment of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg is warranted for elderly patients (see section 5.2).

# Renal impairment

No dose adjustment of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg is required for patients with mild or moderate renal impairment. The safety and appropriate dose of Sofosbuvir have not been established in patients with severe renal impairment (estimated glomerular filtration rate [eGFR] <30 mL/min/1.73 m<sup>2</sup>) or end stage renal disease (ESRD) requiring haemodialysis (see section 5.2).

#### Hepatic impairment

No dose adjustment of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg is required for patients with mild, moderate or severe hepatic impairment (Child-Pugh-Turcotte [CPT] class A, B or C) (see section 5.2). The safety and efficacy of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg have not been established in patients with decompensated cirrho Paediatric population

The safety and efficacy of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg in children and adolescents aged below 18 years have not yet been established. No data are available. Patients awaiting liver transplantation

The duration of administration of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg in patients awaiting liver transplantation should be guided by an assessment of the potential benefits and risks for the individual patient (see section 5.1).

# Method of administration

The film-coated tablet is for oral use. Patients should be instructed to swallow the tablet whole. The film-coated tablet should not be chewed or crushed, due to the bitter taste of the active substance. The tablet should be taken with food (see section 5.2).

strong inducers of CYP3A4 and P-gp is contraindicated while dose adjustment of Daclatasvir is recommer co-administered with moderate inducers of CYP3A4 and P-gp (see Table 4). Strong inhibitors of CYP3A4 may the plasma levels of daclatasvir. Dose adjustment of Daclatasvir is recommended when co-administered wit inhibitors of CYP3A4 (see Table 4). Co-administration of medicines that inhibit P-gp or OCT1 activity is likely a limited effect on daclatasvir exposure. Daclatasvir is an inhibitor of P-gp, organic anion transporting polypeptide (OATP) 1B1, OCT1 and breas

resistance protein (BCRP). Administration of Daclatasvir may increase systemic exposure to medical protein are substrates of P-gp, OATP 1B1, OCT1 or BCRP, which could increase or prolong their therapeutic effect an reactions. Caution should be used if the medicinal product has a narrow therapeutic range (see Table 4). a limited effect, dose adjustment of concomitantly administered CYP3A4 substrates is not necessary.

Refer to the respective Summary of Product Characteristics for drug interaction information for other products in the regimen.

## Patients treated with vitamin K antagonists

As liver function may change during treatment with Daclatasvir, a close monitoring of International Normalia (INR) values is recommended.

Sofosbuvir Sofosbuvir is a nucleotide prodrug. After oral administration of Sofosbuvir, sofosbuvir is rapidly absorbed an to extensive first-pass hepatic and intestinal metabolism. Intracellular hydrolytic prodrug cleavage catal enzymes including carboxylesterase 1 and sequential phosphorylation steps catalysed by nucleotide kinasa in formation of the pharmacologically active unifien nucleoside analogue triphosphate. The predominant circulating metabolite GS-331007 that accounts for greater than 90% of drug-related material systemic exp formed through pathways sequential and parallel to formation of active metabolite. The parent sofosbuvir accc approximately 4% of drug-related material systemic exposure (see section 5.2). In clinical pharmacology stud sofosbuvir and GS-331007 were monitored for purposes of pharmacokinetic analyses.

Sofosbuvir is a substrate of drug transporter P-gp and breast cancer resistance protein (BCRP) while GS is not.

Medicinal products that are potent P-gp inducers in the intestine (rifampicin, rifabutin, St. John's wort, carban phenobarbital and phenytoin) may significantly decrease sofosbuvir plasma concentration leading to therapeutic effect of Sofosbuvir and thus are contraindicated with Sofosbuvir (see section 4.3). Medicinal that are moderate P-gp inducers in the intestine (e.g. oxcarbaze) ine and modelinily may decrease stosbuv concentration leading to reduced therapeutic effect of Sofosbuvir. Co-administration with such medicinal is not recommended with Sofosbuvir (see section 4.4). Co-administration of Sofosbuvir with medicinal that inhibit P-gp and/or BCRP may increase sofosbury plasma concentration without increasing GS-33100 concentration, thus Sofosbury may be co-administered with P-gp and/or BCRP inhibitors. Sofosbury and GS are not inhibitors of P-gp and BCRP and thus are not expected to increase exposures of medicinal products substrates of these transporters. The intracellular metabolic activation pathway of sofosbuvir is mediated by generally low affinity and high

hydrolase and nucleotide phosphorylation pathways that are unlikely to be affected by concomitant medicina (see section 5.2).

# Other interactions

Drug interaction information for Sofosbuvir & daclatasvir with potential concomitant medicinal products is sun in Table 3 below (where 90% confidence interval (CI) of the geometric least-squares mean (GLSM) ratio we " $\leftrightarrow$ ", extended above " $\uparrow$ ", or extended below " $\downarrow$ " the predetermined equivalence boundaries). The table is inclusive

#### Table 3: Interactions between Daclatasvir/Sofosbuvir and other medicinal products

Medicinal products by therapeutic areas	Effects on drug levels. Mean ratio (90% confidence interval) for AUC, $C_{max}$ , $C_{min}$ <sup>a,b</sup>	Recommendations concerning co-administration
Antivirals, HCV Nucleotide analogue polymerase inhi	hitor	
Nucleotide analogue polymerase inhit Sofosbuvir 400 mg once daily (daclatasvir 60 mg once daily) Study conducted in patients with chronic HCV infection	→ Daclatasvir*           AUC: 0.95 (0.82, 1.10)           C <sub>max</sub> : 0.88 (0.78, 0.99)           C <sub>max</sub> : 0.91 (0.71, 1.16)           ↔ GS-331007 (major metabolite of sofosbuvir)           AUC: 1.0 (0.95, 1.08)           C <sub>max</sub> : 0.8 (0.77, 0.90)           C <sub>max</sub> : 1.4 (1.35, 1.53)	No dose adjustment of Daclatasvir or sofosbuvir is required.
Other HCV antivirals Peginterferon alfa 180 µg once weekly and ribavirin 1000 mg or 1200 mg/day in two divided doses (daclatasvir 60 mg once daily) Study conducted in patients with chronic HCV infection		No dose adjustment of Daclatasvir, peginterferon alfa, or ribavirin is required
ANTIVIRALS, HIV or HBV	C <sub>min</sub> : 0.98 (0.82, 1.17)	
Protease inhibitors (PIs) Atazanavir 300 mg/ritonavir 100 mg once daily	↑ Daclatasvir AUC*: 2.10 (1.95, 2.26) C <sup>max</sup> : 1.35 (1.24, 1.47) C <sup>max</sup> : 3.65 (3.25, 4.11) CYP3A4 inhibition by ritonavir *results are dose-normalised to 60 mg dose.	The dose of daclatasvir should be reduced to 30 mg once daily when co-administered with atazanavir/fonavir, atazanavir/ cobicistat or other strong inhibitors of CYP3A4.
Atazanavir/cobicistat	Interaction not studied. Expected due to CYP3A4 inhibition by atazanavir/cobicistat: ↑ Daclatasvir	
Darunavir 800 mg/ritonavir 100 mg once daily (daclatasvir 30 mg once daily)	$  \begin{tabular}{lllllllllllllllllllllllllllllllllll$	The dose of daclatasvir should be reduced to 30 mg once daily when co-administered with darunavir/ ritonavir, darunavir/cobicistat or other strong inhibitors of CYP3A4. No dose adjustment of darunavir/ ritonavir or darunavir/cobicistat is
Darunavir/cobicistat	Interaction not studied. Expected: ↑ Daclatasvir	required.
Lopinavir 400 mg/ritonavir 100 mg twice daily (daclatasvir 30 mg once daily)		The dose of daclatasvir should be reduced to 30 mg once daily when co-administered with lopinavir/ ritonavir, or other strong inhibitors of CYP3A4.No dose adjustment of lopinavir/ritonavir is required.
Nucleoside/nucleotide reverse transci		No door adjustment of Dealstonia
Tenofovir disoproxil 245 mg once daily (daclatasvir 60 mg once daily)	↔ DaclatasvirAUC: 1.10 (1.01, 1.21)Cmat: 1.06 (0.98, 1.15)Cmat: 1.15 (1.02, 1.30)↔ TenofovirAUC: 1.10 (1.05, 1.15)Cmat: 0.95 (0.89, 1.02)Cmat: 1.17 (1.10, 1.24)	No dose adjustment of Daclatasvir or tenofovir disoproxil is required.
Lamivudine Zidovudine Emtricitabine Abacavir Didanosine Stavudine	Interaction not studied. Expected: ↔ Daclatasvir ↔ NRTI	No dose adjustment of Daclatasvir or the NRTI is required.
Non-nucleoside reverse transcriptase Efavirenz 600 mg once daily (daclatasvir 60 mg once daily/)	inhibitors (NNRTIs) ↓ Daclatasvir AUC*: 0.68 (0.60, 0.78) C <sub>max</sub> : 0.83 (0.76, 0.92) C <sub>min</sub> *: 0.41 (0.34, 0.50) Induction of CYP3A4 by efavirenz	The dose of daclatasvir should be increased to 90 mg once daily when co-administered with efavirenz.
Etravirine	*results are dose-normalised to 60 mg dose. Interaction not studied.	Due to the lack of data, co-
Nevirapine	Expected due to CYP3A4 induction by etravirine or nevirapine: ↓ Daclatasvir	administration of Daclatasvir and etravirine or nevirapine is not recommended.
Rilpivirine	Interaction not studied. Expected: ↔ Daclatasvir ↔ Rilpivirine	No dose adjustment of Daclatasvir or rilpivirine is required.
Integrase inhibitors Dolutegravir 50 mg once daily (daclatasvir 60 mg once daily)	↔ Daclatasvir AUC: 0.98 (0.83, 1.15) C <sub>max</sub> 1.03 (0.84, 1.25) C <sub>max</sub> 1.06 (0.88, 1.29) ↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C <sub>max</sub> 1.29 (1.07, 1.57) C <sub>max</sub> 1.29 (1.07, 1.57) C <sub>max</sub> 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir	No dose adjustment of Daclatasvir or dolutegravir is required.
Raltegravir	Interaction not studied. Expected: ↔ Daclatasvir ↔ Raltegravir	No dose adjustment of Daclatasvir or raltegravir is required.
Elvitegravir, cobicistat, emtricitabine, tenofovir disoproxil	Interaction not studied for this fixed dose combination tablet. Expected due to CYP3A4 inhibition by cobicistat:	The dose of daclatasvir should be reduced to 30 mg once daily when co-administered with cobicistat or other strong inhibitors of CYP3A4.
Fusion inhibitor Enfuvirtide	Interaction not studied. Expected: ↔ Daclatasvir ↔ Enfuvirtide	No dose adjustment of Daclatasvir or enfuvirtide is required.
ACID REDUCING AGENTS H2-receptor antagonists		
Famotidine 40 mg single dose (daclatasvir 60 mg single dose)	← Daclatasvir AUC: 0.82 (0.70, 0.96) $C_{max}^{-1}$ 0.56 (0.46, 0.67) $C_{max}^{-1}$ 0.89 (0.75, 1.06) Increase in gastric pH	No dose adjustment of Daclatasvir is required.
Proton pump inhibitors Omeprazole 40 mg once daily (daclatasvir 60 mg single dose)		No dose adjustment of daclatasvir is required.
	Interaction not studied.	The dose of daclatasvir should be reduced to 30 mg once daily when co-administered with
ANTIBACTERIALS Clarithromycin Telithromycin	Expected due to CYP3A4 inhibition by the antibacterial: ↑ Daclatasvir	clarithromycin, telithromycin or other strong inhibitors of CYP3A4
Clarithromycin	by the antibacterial:	clarithromycin, telithromycin or other strong inhibitors of CYP3A4 Administration of daclatasvir with erythromycin may result in increased concentrations of daclatasvir. Caution is advised.

Dabigatran etexilate	Interaction not studied. Expected due to inhibition of P-gp by daclatasvir:	Safety monitoring is advised when initiating treatment with Daclatasvir in patients receiving dabigatran etexilate or other intestinal P-gp substrates that have a narrow therapeutic range.	Vitamin K antagonists	Interaction not studied	Close monitoring of INR is recommended with all vitamin K antagonists. This is due to liver function changes during treatment with sofosbuvir.
Warfarin or other vitamin K	Interaction not studied.	therapeutic range. No dose adjustment of Daclatasvir	ANTICONVULSANTS Carbamazepine	Interaction not studied.	Sofosbuvir is contraindicated with
antagonists	Expected: ↔ Daclatasvir ↔ Warfarin	or warfarin is required. Close monitoring of INR values is recommended with all vitamin	Phenobarbital Phenytoin	Expected: ↓ Sofosbuvir	carbamazepine, phenobarbital and phenytoin, potent intestinal P-gp
ANTICONVULSANTS		K antagonists. This is due to liver function that may change during treatment with Daclatasvir.	Oxcarbazepine		inducers (see section 4.3). Co-administration of sofosbuvir with oxcarbazepine is expected to decrease the concentration of sofosbuvir, leading to a reduced
Carbamazepine Dxcarbazepine	Interaction not studied. Expected due to CYP3A4 induction	Co-administration of Daclatasvir with carbamazepine, oxcarbazepine,		↔ u3-331007	therapeutic effect of sofosbuvir. Such co-administration is not
Phenobarbital Phenytoin	by the anticonvulsant: ↓ Daclatasvir	phenobarbital, phenytoin or other strong inducers of CYP3A4 is contraindicated (see section 4.3).	ANTIMYCOBACTERIALS		recommended (see section 4.4).
ANTIDEPRESSANTS			Rifampicin <sup>r</sup> (600 mg single dose)	$ \begin{array}{c} \text{Sofosbuvir} \\ \downarrow \downarrow \text{C} \\ \downarrow \downarrow \text{AUC} \end{array} $	Sofosbuvir is contraindicated with rifampicin, a potent intestinal P-gp
<i>Selective serotonin reuptake inhibito</i> Escitalopram 10 mg once daily daclatasvir 60 mg once daily)	/s → Daclatasvir AUC: 1.12 (1.01, 1.26)	No dose adjustment of Daclatasvir or escitalopram is required.		↓↓ AUC C <sub>min</sub> (NA)	inducer (see section 4.3).
	$C_{max}$ : 1.14 (0.98, 1.32) $C_{min}$ : 1.23 (1.09, 1.38)	or contaioprant is required.		GS-331007 ↔ C <sub>max</sub>	
	↔Escitalopram			$ \begin{array}{c} \leftrightarrow A^{\text{ind}}C\\ C_{\min} (NA) \end{array} $	
ANTIFUNGALS	AUC: 1.05 (1.02, 1.08) C <sub>max</sub> : 1.00 (0.92, 1.08) C <sub>min</sub> : 1.10 (1.04, 1.16)		Rifabutin Rifapentine	Interaction not studied. Expected: ↓ Sofosbuvir ↔ GS-331007	Sofosbuvir is contraindicated with rifabutin, a potent intestinal P-gp inducer (see section 4.3). Co-administration of sofosbuvir w
Ketoconazole 400 mg once daily daclatasvir 10 mg single dose)	↑ Daclatasvir AUC: 3.00 (2.62, 3.44) C <sub>max</sub> : 1.57 (1.31, 1.88)	The dose of daclatasvir should be reduced to 30 mg once daily when co-administered with ketoconazole or other strong inhibitors of			rifapentine is expected to decrease the concentration of sofosbuvir, leading to a reduced therapeutic effect of sofosbuvir. Such co- administration is not accommended
raconazole	CYP3A4 inhibition by ketoconazole Interaction not studied.	CYP3A4.	HERBAL SUPPLEMENTS		administration is not recommende
Posaconazole /oriconazole	Expected due to CYP3A4 inhibition by the antifungal: ↑ Daclatasvir		St. John's wort (Hypericum perforatum)	Interaction not studied. Expected: ↓ Sofosbuvir	Sofosbuvir is contraindicated with St. John's wort, a potent intestinal P-gp inducer (see section 4.3).
Fluconazole	Interaction not studied. Expected due to CYP3A4 inhibition	Modest increases in concentrations of daclatasvir are	HBV ANTIVIRAL AGENTS	↔ GS-331007	
	by the antifungal: ↑ Daclatasvir ↔ Fluconazole	expected, but no dose adjustment of Daclatasvir or fluconazole is required.	Entecavir	Interaction not studied. Based on the metabolism and clearance a clinically significant	No dose adjustment of sofosbuvir or entecavir is required when thes agents are used concomitantly.
NTIMYCOBACTERIALS	↓ Daclatasvir	Co-administration of Daclatasvir	HCV ANITIVIRAL AGENTS: HCV PR	drug-drug interaction is unlikely.	
daclatasvir 60 mg single dose)	AUC: 0.21 (0.19, 0.23) C <sub>max</sub> : 0.44 (0.40, 0.48)	with rifampicin, rifabutin, rifapentine or other strong	Boceprevir (BOC)	Interaction not studied. Expected:	No drug-drug interaction data exis regarding the co-administration of
Difebutic	CYP3A4 induction by rifampicin	inducers of CYP3A4 is contraindicated (see section 4.3).		↔ Sofosbuvir (BOC) ↔ GS-331007 (BOC)	sofosbuvir with boceprevir.
Rifabutin Rifapentine	Interaction not studied. Expected due to CYP3A4 induction by the antimycobacterial:		Elbasvir/grazoprevir (50mg + 200mg)	Sofosbuvir ↑ AUC ↑ C	No dose adjustments of elbasvir/ grazoprevir or sofosbuvir are needed.
CARDIOVASCULAR AGENTS	↓ Daclatasvir			GS-331007 ↔ AUC	
ntiarrhythmics	A Disc 1:			↔ C <sub>max</sub> ↑ C <sub>trough</sub> Elbasvir/grazoprevir	
ligoxin 0.125 mg once daily daclatasvir 60 mg once daily)	↑ Digoxin AUC: 1.27 (1.20, 1.34) C <sub>max</sub> : 1.65 (1.52, 1.80)	Digoxin should be used with caution when co-administered with Daclatasvir.	Glecaprevir/pibrentasvir	Sofosbuvir	No dose adjustments of glecaprev
	C <sub>max</sub> : 1.05 (1.02, 1.00) C <sub>min</sub> : 1.18 (1.09, 1.28) P-gp inhibition by daclatasvir	The lowest dose of digoxin should be initially prescribed. The serum		↑ AUC ↑ C GS-331007	pibrentasvir or sofosbuvir are needed.
		digoxin concentrations should be monitored and used for titration of digoxin dose to obtain the desired		$\leftrightarrow$ AUC $\leftrightarrow$ C	
Amiodarone	Interaction not studied.	clinical effect.		↑ C <sub>trough</sub> Glecaprevir/pibrentasvir ↔ AUC	
		available. Close monitoring is recommended	NARCOTIC ANALGESICS	$\leftrightarrow C_{max}$	
		if this medicinal product is administered with Daclatasvir in combination with sofosbuvir	Methadone <sup>1</sup> (Methadone maintenance therapy	R-methadone $\leftrightarrow C_{max}$ 0.99 (0.85, 1.16)	No dose adjustment of sofosbuvir or methadone is required when
alcium channel blockers		(see sections 4.4 and 4.8).	[30 to 130 mg/daily])	↔ AÜČ 1.01 (0.85, 1.21) ↔ C <sub>min</sub> 0.94 (0.77, 1.14)	sofosbuvir and methadone are us concomitantly.
iltiazem ifedipine	Interaction not studied. Expected due to CYP3A4 inhibition	Caution is advised if Daclatasvir is co-administered with calcium		S-methadone $\leftrightarrow$ C 0.95 (0.79, 1.13) $\leftrightarrow$ AUC 0.95 (0.77, 1.17)	
mlodipine	by the calcium channel blocker: ↑ Daclatasvir	channel blockers.		$\leftrightarrow C_{min} 0.95 (0.74, 1.22)$ Sofosbuvir	
/erapamil	Interaction not studied. Expected due to CYP3A4 and P-gp	Caution is advised if Daclatasvir is co-administered with calcium		↓ C <sub>max</sub> 0.95 <sup>c</sup> (0.68, 1.33) ↑ AUC 1.30 <sup>c</sup> (1.00, 1.69) C <sub>min</sub> (NA)	
	inhibition by verapamil: ↑ Daclatasvir	channel blockers.		GS-331007 ↓ C 0.73° (0.65, 0.83)	
DRTICOSTEROIDS rstemic dexamethasone	Interaction not studied.	Co-administration of Daclatasvir		$\leftrightarrow \overset{\text{MUC}}{\text{AUC}} 1.04^{\circ} (0.89, 1.22)$ C <sub>min</sub> (NA)	
	Expected due to CYP3A4 induction by dexamethasone: ↓ Daclatasvir	with systemic dexamethasone or other strong inducers of CYP3A4 is contraindicated (see section 4.3).	IMMUNOSUPPRESSANTS Ciclosporin <sup>e</sup> (600 mg single dose)	Ciclosporin $\leftrightarrow$ C 1 06 (0 94 1 18)	No dose adjustment of sofosbuvir
RBAL SUPPLEMENTS . John's wort (Hypericum	Interaction not studied.	Co-administration of Daclatasvir	(600 mg single dose)	$\begin{array}{l} \leftrightarrow C_{max} 1.06 \ (0.94, 1.18) \\ \leftrightarrow AUC \ 0.98 \ (0.85, 1.14) \\ C_{min} \ (NA) \end{array}$	or ciclosporin is required when sofosbuvir and ciclosporin are use concomitantly.
t. John's wort (Hypericum erforatum)	Expected due to CYP3A4 induction by St. John's wort:	with St. John's wort or other strong inducers of CYP3A4 is		Sofosbuvir ↑ C <sub>max</sub> 2.54 (1.87, 3.45)	
ORMONAL CONTRACEPTIVES	↓ Daclatasvir	contraindicated (see section 4.3).		↑ AÜČ 4.53 (3.26, 6.30) C <sub>min</sub> (NA) GS-331007	
thinylestradiol 35 $\mu$ g once daily or 21 days + norgestimate	↔ Ethinylestradiol AUC: 1.01 (0.95, 1.07)	If an oral contraceptive is needed during treatment with Daclatasvir,		$\downarrow$ C <sub>max</sub> 0.60 (0.53, 0.69) ↔ AUC 1.04 (0.90, 1.20)	
.180/0.215/0.250 mg once daily or 7/7/7 days daclatasvir 60 mg once daily)	C <sub>max</sub> : 1.11 (1.02, 1.20) ↔ Norelgestromin AUC: 1.12 (1.06, 1.17)	it should contain ethinylestradiol $35 \ \mu$ g and norgestimate $0.180/0.215/0.250 \ mg.$	Tacrolimus <sup>e</sup>	C <sub>min</sub> (NA) Tacrolimus	No dose adjustment of sofosbuvir
	C <sub>max</sub> : 1.06 (0.99, 1.14) ↔ Norgestrel	Other oral contraceptives have not been studied.	(5 mg single dose)	↓ $C_{max}$ 0.73 (0.59, 0.90) ↔ AUC 1.09 (0.84, 1.40) $C_{min}$ (NA)	or tacrolimus is required when sofosbuvir and tacrolimus are use concomitantly.
MMUNOSUPPRESSANTS	AUC: 1.12 (1.02, 1.23) C <sub>max</sub> : 1.07 (0.99, 1.16)			Sofosbuvir ↓ C <sub>max</sub> 0.97 (0.65, 1.43) ↑ AUC 1.13 (0.81, 1.57)	
yclosporine 400 mg single dose daclatasvir 60 mg once daily)	↔ Daclatasvir AUC: 1.40 (1.29, 1.53)	No dose adjustment of either medicinal product is required when		C <sub>min</sub> (NA) GS-331007	
5 5 amil)	C <sub>max</sub> : 1.04 (0.94, 1.15) C <sub>min</sub> : 1.56 (1.41, 1.71)	Daclatasvir is co-administered with cyclosporine, tacrolimus, sirolimus or mycophenolate mofetil.		$\begin{array}{l} \leftrightarrow C_{max} \ 0.97 \ (0.83, \ 1.14) \\ \leftrightarrow AUC \ 1.00 \ (0.87, \ 1.13) \\ C_{min} \ (NA) \end{array}$	
	↔ Cyclosporine AUC: 1.03 (0.97, 1.09) C <sub>max</sub> : 0.96 (0.91, 1.02)	sitolinus or mycophenolate motetil.	HIV ANTIVIRAL AGENTS: REVERSE		No dopp adjustment of a first of
Facrolimus 5 mg single dose (daclatasvir 60 mg once daily)	Daclatasvir AUC: 1.05 (1.03, 1.07)		(600 mg once daily) <sup>d</sup>	↔ C <sub>max</sub> 0.95 (0.85, 1.06) ↔ AUC 0.96 (0.91, 1.03)	No dose adjustment of sofosbuvir or efavirenz is required when sofosbuvir and efavirenz are used
	C <sub>max</sub> : 1.07 (1.02, 1.12) C <sub>min</sub> : 1.10 (1.03, 1.19) ↔ Tacrolimus			$\leftrightarrow$ C <sub>min</sub> 0.96 (0.93, 0.98) Sofosbuvir ↓ C 0.81 (0.60, 1, 10)	concomitantly.
	AUC: 1.00 (0.88, 1.13) C <sub>max</sub> : 1.05 (0.90, 1.23)			↓ $C_{max}$ 0.81 (0.60, 1.10) ↔ AUC 0.94 (0.76, 1.16) $C_{min}$ (NA)	
Sirolimus Mycophenolate mofetil	Interaction not studied. Expected:			GS-331007 ↓ C <sub>max</sub> 0.77 (0.70, 0.84)	
	↔ Daclatasvir ↔ Immunosuppressant		Epsteinit-http://	$\leftrightarrow \ddot{AUC} 0.84 (0.76, 0.92)$ $C_{min} (NA)$ Experimentary	No doog attaction of the
IPID LOWERING AGENTS IMG-CoA reductase inhibitors			Emtricitabine <sup>1</sup> (200 mg once daily) <sup>d</sup>	Emtricitabine $\leftrightarrow C_{max} 0.97 (0.88, 1.07)$ $\leftrightarrow AUC 0.99 (0.94, 1.05)$	No dose adjustment of sofosbuvir or emtricitabine is required when sofosbuvir and emtricitabine are
tosuvastatin 10 mg single dose daclatasvir 60 mg once daily)	↑ Rosuvastatin AUC: 1.58 (1.44, 1.74) C: 2.04 (1.83, 2.26)	Caution should be used when Daclatasvir is co-administered with rosuvastatin or other substrates		$\leftrightarrow C_{min}$ 1.04 (0.98, 1.11) Sofosbuvir	used concomitantly.
	Inhibition of OATP 1B1 and BCRP	of OATP 1B1 or BCRP.		↓ $C_{max}$ 0.81 (0.60, 1.10) ↔ AUC 0.94 (0.76, 1.16) $C_{min}$ (NA)	
torvastatin	by daclatasvir Interaction not studied.			GS-331007 ↓ C 0.77 (0.70, 0.84) ↔ AUC 0.84 (0.76, 0.92)	
uvastatin imvastatin itavastatin	Expected due to inhibition of OATP 1B1 and/or BCRP by daclatasvir: ↑ Concentration of statin		Tenofovir disoproxil '	$\leftrightarrow \text{AUC 0.84 (0.76, 0.92)} \\ C_{\text{min}} (\text{NA}) \\ \hline \text{Tenofovir} \\ \hline$	No dose adjustment of sofosbuvir
Pravastatin Pravastatin NARCOTIC ANALGESICS			(245 mg once daily) <sup>d</sup>	↑ C <sub>max</sub> 1.25 (1.08, 1.45) ↔ AUC 0.98 (0.91, 1.05)	tenofovir disoproxil is required wh sofosbuvir and tenofovir disoproxi
ARCOTIC ANALGESICS Suprenorphine/naloxone, 8/2 mg to 4/6 mg once daily individualized	$\leftrightarrow$ Daclatasvir AUC: $\leftrightarrow^*$	No dose adjustment of Daclatasvir or buprenorphine may be required,		↔ C <sub>min</sub> 0.99 (0.91, 1.07) Sofosbuvir ↓ C <sub>max</sub> 0.81 (0.60, 1.10)	are used concomitantly.
ose* daclatasvir 60 mg once daily)	$ \begin{array}{c} C_{\max} : \leftrightarrow^* \\ C_{-} : \leftrightarrow^* \end{array} $	but it is recommended that patients should be monitored for		↓ $C_{max}$ 0.81 (0.60, 1.10) ↔ AUC 0.94 (0.76, 1.16) $C_{min}$ (NA) GS-331007	
Evaluated in opioid-dependent dults on stable buprenorphine/ aloxone maintenance therapy.	↑ <sup>mm</sup> AUC: 1.37 (1.24, 1.52) C <sub>mm</sub> : 1.30 (1.03, 1.64)	signs of opiate toxicity.		GS-331007 ↓ C 0.77 (0.70, 0.84) ↔ AUC 0.84 (0.76, 0.92)	
	C <sup>min</sup> . 1.17 (1.03, 1.32) ↑ Norbuprenorphine		Rilpivirine '	$\leftrightarrow \text{AUC 0.84 (0.76, 0.92)}$ $C_{\text{min}} (\text{NA})$ Rilpivirine	No dose adjustment of sofosbuvi
	AUC: 1.62 (1.30, 2.02) C <sub>max</sub> : 1.65 (1.38, 1.99) C <sub>mix</sub> : 1.46 (1.12, 1.89)		(25 mg once daily)	↔ C <sub>max</sub> 1.05 (0.97, 1.15) ↔ AUC 1.06 (1.02, 1.09)	or rilpivirine is required when sofosbuvir and rilpivirine are
Nethadone, 40-120 mg once daily	Compared to historical data. ↔ Daclatasvir	No dose adjustment of Daclatasvir		↔ C <sub>min</sub> 0.99 (0.94, 1.04) Sofosbuvir ↑ C <sub>min</sub> 1.21 (0.90, 1.62)	used concomitantly.
ndividualized dose* (daclatasvir 60 mg once daily)	$\begin{array}{c} AUC: \leftrightarrow^* \\ C_{max} & \leftrightarrow^* \end{array}$	or methadone is required.		$\leftrightarrow \overset{\text{Hub}}{\text{AUC}} 1.09 (0.94, 1.27) \\ C_{\text{min}} (\text{NA})$	
* Evaluated in opioid-dependent adults on stable methadone maintenance therapy.	C <sup>min</sup> : ↔* ↔ R-methadone AUC: 1.08 (0.94, 1.24)			GS-331007 ↔ $C_{max}$ 1.06 (0.99, 1.14) ↔ Autor 1.01 (0.97, 1.04)	
	$C_{max}$ : 1.07 (0.97, 1.18) $C_{min}$ : 1.08 (0.93, 1.26) *Compared to historical data.		HIV ANTIVIRAL AGENTS: HIV PROT	C <sub>min</sub> (NA)	
EDATIVES	j oompared to historical data.	1	Darunavir boosted with ritonavir <sup>1</sup> (800/100 mg once daily)	Darunavir	No dose adjustment of sofosbuvir or darunavir (ritonavir boosted)
Benzodiazepines Midazolam 5 mg single dose	$\leftrightarrow$ Midazolam	No dose adjustment of midazolam,		$ ↔ C_{max} 0.97 (0.94, 1.01)  ↔ AUC 0.97 (0.94, 1.00)  ↔ C_{min} 0.86 (0.78, 0.96)  Cataobusin$	is required when sofosbuvir and darunavir are used concomitantly
(daclatasvir 60 mg once daily)	AUC: 0.87 (0.83, 0.92) C <sub>max</sub> : 0.95 (0.88, 1.04)	other benzodiazepines or other CYP3A4 substrates is required when co-administered with		Sofosbuvir ↑ C <sub>max</sub> 1.45 (1.10, 1.92) ↑ AUC 1.34 (1.12, 1.59)	Co-administration with darunavir boosted with cobicistat has
Triazolam Alprazolam	Interaction not studied. Expected: ↔ Triazolam	Daclatasvir.		C <sub>min</sub> (NA) GS-331007	not been studied but based on metabolism and clearance a
Interactions between sofosbuvir an	$\leftrightarrow$ Alprazolam			↔ C <sub>max</sub> 0.97 (0.90, 1.05) ↔ AUC 1.24 (1.18, 1.30) C <sub>min</sub> (NA)	clinically significant interaction is unlikely. Sofosbuvir is a prodrug a formation of its active metabolite
ANALEPTICS		Co. administration of orfering the	HIV ANTIVIRAL AGENTS: INTEGRA		unlikely to be affected by cobicist
Modafinil	Interaction not studied. Expected: ↓ Sofosbuvir	Co-administration of sofosbuvir with modafinil is expected to decrease the concentration of sofosbuvir,	Raltegravir <sup>1</sup> (400 mg twice daily)	Raltegravir $\downarrow C_{my}$ 0.57 (0.44, 0.75)	No dose adjustment of sofosbuvir or raltegravir is required when
	↔ GS-331007 (Induction of P-gp)	leading to reduced therapeutic effect of sofosbuvir. Such co-administra-		↓ $AUC 0.73 (0.59, 0.91)$ ↔ $C_{min} 0.95 (0.81, 1.12)$	sofosbuvir and raltegravir are used concomitantly.
INTIARRHYTHMICS	I	tion is not recommended.		Sofosbuvir $\leftrightarrow C_{max} 0.87 (0.71, 1.08)$ $\leftrightarrow AUC 0.95 (0.82, 1.09)$	
miodarone	Interaction not studied.	Use only if no other alternative is available.		C <sub>min</sub> (NA)	
		Close monitoring is recommended if this medicinal product is		$\begin{array}{l} \text{GS-331007} \\ \leftrightarrow \text{C}_{\max} \ 1.09 \ (0.99, \ 1.20) \\ \leftrightarrow \text{AUC} \ 1.03 \ (0.97, \ 1.08) \end{array}$	
		administered with sofosbuvir and		∠ AUC 1 02 /0 07 1 000	

ANTICOAGULANTS			ANTICOAGULANTS		
Dabigatran etexilate	Interaction not studied. Expected due to inhibition of P-gp by daclatasvir:	Safety monitoring is advised when initiating treatment with Daclatasvir in patients receiving dabigatran etexilate or other intestinal P-gp substrates that have a narrow	Vitamin K antagonists	Interaction not studied	Close monitoring of INR is recommended with all vitamin K antagonists. This is due to liver function changes during treatment with sofosbuvir.
Warfarin or other vitamin K antagonists	Interaction not studied. Expected:	therapeutic range. No dose adjustment of Daclatasvir or warfarin is required.	ANTICONVULSANTS Carbamazepine	Interaction not studied.	Sofosbuvir is contraindicated with
anagonisis	↔ Daclatasvir ↔ Warfarin	Close monitoring of INR values is recommended with all vitamin	Phenobarbital Phenytoin	Expected: ↓ Sofosbuvir ↔ GS-331007	carbamazepine, phenobarbital and phenytoin, potent intestinal P-gp inducers (see section 4.3).
		K antagonists. This is due to liver function that may change during treatment with Daclatasvir.	Oxcarbazepine	Interaction not studied. Expected:	Co-administration of sofosbuvir
ICONVULSANTS				↓ Sofosbuvir ↔ GS-331007	with oxcarbazepine is expected to decrease the concentration of sofosbuvir, leading to a reduced
bamazepine carbazepine poparbital	Interaction not studied. Expected due to CYP3A4 induction by the anticonvulsant	Co-administration of Daclatasvir with carbamazepine, oxcarbazepine, phenobarbital operation or other			therapeutic effect of sofosbuvir. Such co-administration is not
nenobarbital nenytoin	by the anticonvulsant: ↓ Daclatasvir	phenobarbital, phenytoin or other strong inducers of CYP3A4 is contraindicated (see section 4.3).	ANTIMYCOBACTERIALS		recommended (see section 4.4).
NTIDEPRESSANTS elective serotonin reuptake inhibitors	2	· · · · · ·	Rifampicin <sup>1</sup> (600 mg single dose)	Sofosbuvir ↓↓ C ↓↓ Auc	Sofosbuvir is contraindicated with rifampicin, a potent intestinal P-gp
citalopram 10 mg once daily aclatasvir 60 mg once daily)	↔ Daclatasvir AUC: 1.12 (1.01, 1.26)	No dose adjustment of Daclatasvir or escitalopram is required.		C <sub>min</sub> (NA)	inducer (see section 4.3).
с <i>у</i> ,	C <sub>max</sub> : 1.14 (0.98, 1.32) C <sub>min</sub> : 1.23 (1.09, 1.38)			$\begin{array}{c} \text{GS-331007} \\ \leftrightarrow \text{C}_{\text{max}} \\ \leftrightarrow \text{AUC} \end{array}$	
	↔Escitalopram AUC: 1.05 (1.02, 1.08)		Rifabutin	C <sub>min</sub> (NA)	Sofosbuvir is contraindicated with
	C <sub>max</sub> : 1.00 (0.92, 1.08) C <sub>min</sub> : 1.10 (1.04, 1.16)		Rifapentine	Expected: ↓ Sofosbuvir	rifabutin, a potent intestinal P-gp inducer (see section 4.3).
ITIFUNGALS toconazole 400 mg once daily	↑ Daclatasvir	The dose of daclatasvir should be		↔ GS-331007	Co-administration of sofosbuvir w rifapentine is expected to decreas the concentration of sofosbuvir.
laclatasvir 10 mg single dose)	AUC: 3.00 (2.62, 3.44) C <sub>max</sub> : 1.57 (1.31, 1.88)	reduced to 30 mg once daily when co-administered with ketoconazole or other strong inhibitors of			leading to a reduced therapeutic effect of sofosbuvir. Such co-
raconazole	CYP3A4 inhibition by ketoconazole Interaction not studied.	CYP3A4.	HERBAL SUPPLEMENTS		administration is not recommende
osaconazole oriconazole	Expected due to CYP3A4 inhibition by the antifungal:		St. John's wort (Hypericum perforatum)	Interaction not studied. Expected: ↓ Sofosbuvir	Sofosbuvir is contraindicated with St. John's wort, a potent intestina P-gp inducer (see section 4.3).
uconazole	↑ Daclatasvir Interaction not studied. Expected due to CYP3A4 inhibition	Modest increases in concentrations of daclatasvir are	HBV ANTIVIRAL AGENTS	↔ GS-331007	·
	by the antifungal: ↑ Daclatasvir	expected, but no dose adjustment of Daclatasvir or fluconazole is	Entecavir	Interaction not studied. Based on the metabolism and	No dose adjustment of sofosbuvir or entecavir is required when thes
NTIMYCOBACTERIALS	$\leftrightarrow$ Fluconazole	required.		clearance a clinically significant drug-drug interaction is unlikely.	agents are used concomitantly.
ifampicin 600 mg once daily daclatasvir 60 mg single dose)	↓ Daclatasvir AUC: 0.21 (0.19, 0.23)	Co-administration of Daclatasvir with rifampicin, rifabutin, rifapentine	HCV ANITIVIRAL AGENTS: HCV PR Boceprevir (BOC)	DTEASE INHIBITORS	No drug-drug interaction data exis
, i i i i i i i i i i i i i i i i i i i	C <sub>max</sub> : 0.44 (0.40, 0.48)	or other strong inducers of CYP3A4 is contraindicated (see section 4.3).		Expected: ↔ Sofosbuvir (BOC)	regarding the co-administration of sofosbuvir with boceprevir.
lifabutin lifapentine	CYP3A4 induction by rifampicin Interaction not studied. Expected due to CYP3A4 induction		Elbasvir/grazoprevir		No dose adjustments of elbasvir/
	by the antimycobacterial: ↓ Daclatasvir		(50mg + 200mg)	↑ AUC ↑ C GS-331007	grazoprevir or sofosbuvir are needed.
ARDIOVASCULAR AGENTS ntiarrhythmics				$\leftrightarrow AUC$ $\leftrightarrow C_{}$	
igoxin 0.125 mg once daily daclatasvir 60 mg once daily)	↑ Digoxin AUC: 1.27 (1.20, 1.34)	Digoxin should be used with caution when co-administered with	Glecaprevir/pibrentasvir	↑ C <sub>trough</sub> Elbasvir/grazoprevir	No dose adjustments of glecaprev
· ·····,/	C <sub>max</sub> : 1.65 (1.52, 1.80) C <sub>min</sub> : 1.18 (1.09, 1.28)	Daclatasvir. The lowest dose of digoxin should		↑ AUC ↑ C	pibrentasvir or sofosbuvir are needed.
	P-gp inhibition by daclatasvir	be initially prescribed. The serum digoxin concentrations should be monitored and used for titration of		$ \begin{array}{c} \text{GS-331007} \\ \leftrightarrow \text{AUC} \\ \leftrightarrow \text{C}_{\text{max}} \end{array} $	
		digoxin dose to obtain the desired clinical effect.		↑ C <sub>trough</sub> Glecaprevir/pibrentasvir	
miodarone	Interaction not studied.	Use only if no other alternative is available. Close monitoring is recommended		$  \begin{array}{c} \leftrightarrow AUC \\ \leftrightarrow C_{\max} \end{array} $	
		if this medicinal product is administered with Daclatasvir in	NARCOTIC ANALGESICS	R-methadone	No dose adjustment of sofosbuvi
		combination with sofosbuvir (see sections 4.4 and 4.8).	(Methadone maintenance therapy [30 to 130 mg/daily])	$\begin{array}{l} \leftrightarrow C_{max} \ 0.99 \ (0.85, \ 1.16) \\ \leftrightarrow AUC \ 1.01 \ (0.85, \ 1.21) \\ \leftrightarrow C_{min} \ 0.94 \ (0.77, \ 1.14) \end{array}$	or methadone is required when sofosbuvir and methadone are us concomitantly.
Calcium channel blockers	Interaction not studied.	Caution is advised if Daclatasvir		S-methadone $\leftrightarrow C_{max} 0.95 (0.79, 1.13)$ $\leftrightarrow AUC 0.95 (0.77, 1.17)$	
ifedipine mlodipine	Expected due to CYP3A4 inhibition by the calcium channel blocker: ↑ Daclatasvir	is co-administered with calcium channel blockers.		$\leftrightarrow AUC(0.93)(0.77, 1.17)$ $\leftrightarrow C_{\min}(0.95)(0.74, 1.22)$ Sofosbuvir	
erapamil	Interaction not studied. Expected due to CYP3A4 and P-gp	Caution is advised if Daclatasvir is co-administered with calcium		↓ $C_{\text{max}} 0.95^{\circ} (0.68, 1.33)$ ↑ AUC 1.30° (1.00, 1.69)	
	inhibition by verapamil: ↑ Daclatasvir	channel blockers.		C <sub>min</sub> (NA) GS-331007 ↓ C <sub>max</sub> 0.73 <sup>c</sup> (0.65, 0.83)	
ORTICOSTEROIDS vstemic dexamethasone	Interaction not studied.	Co-administration of Daclatasvir		$ ↔ \frac{0.13}{\text{AUC } 1.04^{\circ}} (0.89, 0.03)  ↔ \frac{1.04^{\circ}}{\text{C}_{min}} (\text{NA}) $	
	Expected due to CYP3A4 induction by dexamethasone: ↓ Daclatasvir	with systemic dexamethasone or other strong inducers of CYP3A4 is contraindicated (see section 4.3).	IMMUNOSUPPRESSANTS Ciclosporine	Ciclosporin	No dose adjustment of sofosbuvi
ERBAL SUPPLEMENTS t. John's wort (Hypericum	Interaction not studied.	Co-administration of Daclatasvir	(600 mg single dose)		or ciclosporin is required when sofosbuvir and ciclosporin are us concomitantly.
rforatum)	Expected due to CYP3A4 induction by St. John's wort:	with St. John's wort or other strong inducers of CYP3A4 is		Sofosbuvir ↑ C <sub>max</sub> 2.54 (1.87, 3.45)	conconnancy.
ORMONAL CONTRACEPTIVES	↓ Daclatasvir	contraindicated (see section 4.3).		↑ AÜC 4.53 (3.26, 6.30) C <sub>min</sub> (NA)	
thinylestradiol 35 $\mu$ g once daily or 21 days + norgestimate	↔ Ethinylestradiol AUC: 1.01 (0.95, 1.07)	If an oral contraceptive is needed during treatment with Daclatasvir,		GS-331007 ↓ C <sub>max</sub> 0.60 (0.53, 0.69) ↔ AUC 1.04 (0.90, 1.20)	
1.180/0.215/0.250 mg once daily or 7/7/7 days daclatasvir 60 mg once daily)	C <sub>max</sub> : 1.11 (1.02, 1.20) ↔ Norelgestromin AUC: 1.12 (1.06, 1.17)	it should contain ethinylestradiol $35 \ \mu$ g and norgestimate $0.180/0.215/0.250 \ mg.$	Tacrolimus <sup>e</sup>	C <sub>min</sub> (NA) Tacrolimus	No dose adjustment of sofosbuvir
	C <sub>max</sub> : 1.06 (0.99, 1.14) ↔ Norgestrel	Other oral contraceptives have not been studied.	(5 mg single dose)	$\begin{array}{c} \downarrow C_{max} \ 0.73 \ (0.59, \ 0.90) \\ \leftrightarrow \ AUC \ 1.09 \ (0.84, \ 1.40) \\ C_{min} \ (NA) \end{array}$	or tacrolimus is required when sofosbuvir and tacrolimus are use concomitantly.
MMUNOCUDDDCSSANTS	AUC: 1.12 (1.02, 1.23) C <sub>max</sub> : 1.07 (0.99, 1.16)			Sofosbuvir ↓ C <sub>max</sub> 0.97 (0.65, 1.43) ↑ AUC 1.13 (0.81, 1.57)	
MMUNOSUPPRESSANTS Cyclosporine 400 mg single dose daclatasvir 60 mg once daily)	↔ Daclatasvir AUC: 1.40 (1.29, 1.53)	No dose adjustment of either medicinal product is required when		C <sub>min</sub> (NA) GS-331007	
on or daily)	C <sub>max</sub> : 1.04 (0.94, 1.15) C <sub>min</sub> : 1.56 (1.41, 1.71)	Daclatasvir is co-administered with cyclosporine, tacrolimus,		↔ C <sub>max</sub> 0.97 (0.83, 1.14) ↔ AUC 1.00 (0.87, 1.13) C <sub>min</sub> (NA)	
	↔ Cyclosporine AUC: 1.03 (0.97, 1.09) $C_{max}^{-}$ 0.96 (0.91, 1.02)	sirolimus or mycophenolate mofetil.	HIV ANTIVIRAL AGENTS: REVERSE	TRANSCRIPTASE INHIBITORS	No doog adjustance i a
Tacrolimus 5 mg single dose (daclatasvir 60 mg once daily)	Daclatasvir AUC: 1.05 (1.03, 1.07)	]	Efavirenz <sup>t</sup> (600 mg once daily) <sup>d</sup>	Efavirenz $\leftrightarrow C_{max} 0.95 (0.85, 1.06)$ $\leftrightarrow AUC 0.96 (0.91, 1.03)$	No dose adjustment of sofosbuvin or efavirenz is required when sofosbuvir and efavirenz are used
	$C_{max}$ : 1.07 (1.02, 1.12) $C_{min}$ : 1.10 (1.03, 1.19) ↔ Tacrolimus			$\leftrightarrow C_{min} 0.96 (0.93, 0.98)$ Sofosbuvir	concomitantly.
	AUC: 1.00 (0.88, 1.13) C <sub>max</sub> : 1.05 (0.90, 1.23)			↓ $C_{max}$ 0.81 (0.60, 1.10) ↔ AUC 0.94 (0.76, 1.16) $C_{min}$ (NA)	
Sirolimus Aycophenolate mofetil	Interaction not studied. Expected:			GS-331007 ↓ C <sub>max</sub> 0.77 (0.70, 0.84)	
	↔ Daclatasvir ↔ Immunosuppressant		Emtricitables (	$\leftrightarrow \ddot{\text{AUC}} 0.84 \ (0.76, \ 0.92)$ $C_{\min} \ (\text{NA})$ Emtricitable	No doop adjustment of or fact
IPID LOWERING AGENTS IMG-CoA reductase inhibitors			Emtricitabine <sup>1</sup> (200 mg once daily) <sup>d</sup>	Emtricitabine $\leftrightarrow C_{max} 0.97 (0.88, 1.07)$ $\leftrightarrow AUC 0.99 (0.94, 1.05)$	No dose adjustment of sofosbuvi or emtricitabine is required when sofosbuvir and emtricitabine are
Rosuvastatin 10 mg single dose daclatasvir 60 mg once daily)	↑ Rosuvastatin AUC: 1.58 (1.44, 1.74) C: 2.04 (1.83, 2.26)	Caution should be used when Daclatasvir is co-administered with rosuvastatin or other substrates		↔ $C_{min}$ 1.04 (0.98, 1.11) Sofosbuvir ↓ $C_{max}$ 0.81 (0.60, 1.10)	used concomitantly.
	Inhibition of OATP 1B1 and BCRP	of OATP 1B1 or BCRP.		$\leftrightarrow \overset{\text{AUC}}{\text{AUC}} 0.94 (0.76, 1.16) \\ C_{\text{min}} (\text{NA})$	
Atorvastatin	by daclatasvir Interaction not studied.			GS <sup></sup> 331007 ↓ C <sub>max</sub> 0.77 (0.70, 0.84) ↔ AUC 0.84 (0.76, 0.92)	
luvastatin Simvastatin Pitavastatin	Expected due to inhibition of OATP 1B1 and/or BCRP by daclatasvir: ↑ Concentration of statin		Tenofovir disoproxil '	$\begin{array}{c} \leftrightarrow \text{AUC 0.84 (0.76, 0.92)} \\ \text{C}_{\text{min}} (\text{NA}) \end{array}$ Tenofovir	No dose adjustment of sofosbuvi
Pravastatin Pravastatin NARCOTIC ANALGESICS			(245 mg once daily) <sup>d</sup>	↑ C <sub>max</sub> 1.25 (1.08, 1.45) ↔ AUC 0.98 (0.91, 1.05)	tenofovir disoproxil is required wh sofosbuvir and tenofovir disoprox
NARCUTIC ANALGESICS Buprenorphine/naloxone, 8/2 mg to 24/6 mg once daily individualized	$\leftrightarrow$ Daclatasvir AUC: $\leftrightarrow^*$	No dose adjustment of Daclatasvir or buprenorphine may be required,		↔ $C_{min}$ 0.99 (0.91, 1.07) Sofosbuvir ↓ $C_{max}$ 0.81 (0.60, 1.10)	are used concomitantly.
dose* (daclatasvir 60 mg once daily)	$\begin{array}{c} C_{\max} : \leftrightarrow^{\star} \\ C_{-} : \leftrightarrow^{\star} \end{array}$	but it is recommended that patients should be monitored for		$\leftrightarrow \overset{\text{AUC}}{\text{AUC}} 0.94 (0.76, 1.16)$ C <sub>min</sub> (NA)	
* Evaluated in opioid-dependent adults on stable buprenorphine/ naloxone maintenance therapy.	↑ <sup>mm</sup> Buprenorphine AUC: 1.37 (1.24, 1.52) C <sub>mm</sub> : 1.30 (1.03, 1.64)	signs of opiate toxicity.		GS <sup></sup> 331007 ↓ C <sub>max</sub> 0.77 (0.70, 0.84) ↔ AUC 0.84 (0.76, 0.92)	
	C <sub>min</sub> : 1.17 (1.03, 1.32) ↑ Norbuprenorphine		Rilpivirine '	C <sub>min</sub> (NA) Rilpivirine	No dose adjustment of sofosbuvi
	AUC: 1.62 (1.30, 2.02) C <sub>max</sub> : 1.65 (1.38, 1.99) C <sub>min</sub> : 1.46 (1.12, 1.89)		(25 mg once daily)		or rilpivirine is required when sofosbuvir and rilpivirine are
Methadone, 40-120 mg once daily	*Compared to historical data. ↔ Daclatasvir	No dose adjustment of Daclatasvir		$↔ C_{min} 0.99 (0.94, 1.04)$ Sofosbuvir ↑ C <sub>max</sub> 1.21 (0.90, 1.62)	used concomitantly.
individualized dose* (daclatasvir 60 mg once daily) * Evaluated in opioid-dependent	$\begin{array}{l} AUC: \leftrightarrow^{\star} \\ C_{\max} & \leftrightarrow^{\star} \\ C_{\min} & \leftrightarrow^{\star} \end{array}$	or methadone is required.		↔ ÄÜC 1.09 (0.94, 1.27) C <sub>min</sub> (NA)	
	$G_{min}$ :			$ \begin{array}{l} \text{GS-331007} \\ \leftrightarrow \text{C}_{\text{max}} \ 1.06 \ (0.99, \ 1.14) \\ \leftrightarrow \text{AUC} \ 1.01 \ (0.97, \ 1.04) \end{array} $	
			HIV ANTIVIRAL AGENTS: HIV PROT	C <sub>min</sub> (NA)	
	$C_{min}$ : 1.08 (0.93, 1.26) *Compared to historical data.		Darunavir boosted with ritonavir <sup>1</sup> (800/100 mg once daily)	Darunavir $\leftrightarrow C_{max}$ 0.97 (0.94, 1.01)	No dose adjustment of sofosbuvi or darunavir (ritonavir boosted)
naintenance therapy. SEDATIVES	C <sub>min</sub> : 1.08 (0.93, 1.26)	· 			is required when sofosbuvir and darunavir are used concomitantly
adults on stable methadone maintenance therapy. SEDATIVES Benzodiazepines Midazolam 5 mg single dose (daclatasvir 60 mg once daily)	C <sub>min</sub> : 1.08 (0.93, 1.26)	No dose adjustment of midazolam, other benzodiazepines or other		Sofosbuvir	Co-administration with darunavir
naintenance therapy. SEDATIVES Benzodiazepines Midazolam 5 mg single dose daclatasvir 60 mg once daily)	C <sub>min</sub> : 1.08 (0.93, 1.26) *Compared to historical data. ↔ Midazolam	other benzodiazepines or other CYP3A4 substrates is required when co-administered with		↑ C <sub>max</sub> 1.45 (1.10, 1.92) ↑ AUC 1.34 (1.12, 1.59)	boosted with cobicistat has
naintenance therapy. SEDATIVES Benzodiazepines Midazolam 5 mg single dose daclatasvir 60 mg once daily) Triazolam		other benzodiazepines or other CYP3A4 substrates is required		$ \begin{array}{c} \uparrow \ C_{max} \ 1.45 \ (1.10, \ 1.92) \\ \uparrow \ AUC \ 1.34 \ (1.12, \ 1.59) \\ C_{mo} \ (NA) \\ GS \ 331007 \\ \leftrightarrow \ C_{mo} \ 0.97 \ (0.90, \ 1.05) \end{array} $	not been studied but based on metabolism and clearance a clinically significant interaction is
maintenance therapy. SEDATIVES Benzodiazepines Midazolam 5 mg single dose (daclatasvir 60 mg once daily) Triazolam Alprazolam Interactions between sofosbuvir and	$      C_{mc}^{-}: 1.08 (0.93, 1.26)        * Compared to historical data.        ↔ Midazolam        AUC: 0.87 (0.83, 0.92)        Cmac: 0.95 (0.88, 1.04)        Interaction not studied.        Expected:              ↔ Triazolam              ↔ Alprazolam              ↔ Alprazol$	other benzodiazepines or other CYP3A4 substrates is required when co-administered with		↑ C <sub>max</sub> 1.45 (1.10, 1.92) ↑ AUC 1.34 (1.12, 1.59) C <sub>min</sub> (NA)	not been studied but based on metabolism and clearance a clinically significant interaction is unlikely. Sofosbuvir is a prodrug a formation of its active metabolite
naintenance therapy. SEDATIVES Benzodiazepines Aidazolam 5 mg single dose daclatasvir 60 mg once daily) Iriazolam Alprazolam	$C_{max}^{-}$ : 1.08 (0.93, 1.26) *Compared to historical data. ↔ Midazolam AUC: 0.87 (0.83, 0.92) $C_{max}^{-}$ : 0.95 (0.88, 1.04) Interaction not studied. Expected: ↔ Triazolam ↔ Alprazolam other medicinal products Interaction not studied.	other benzodiazepines or other CYP3A4 substrates is required when co-administered with Daclatasvir.	HIV ANTIVIRAL AGENTS: INTEGRA	$ \begin{array}{c} \uparrow C_{max} 1.45 \ (1.10, 1.92) \\ \uparrow AUC \ 1.34 \ (1.12, 1.59) \\ C_{max} (NA) \\ \Theta S^{-} 331007 \\ \leftrightarrow AUC \ 1.24 \ (1.18, 1.30) \\ C_{max} (NA) \\ \end{array} $	not been studied but based on metabolism and clearance a clinically significant interaction is unlikely. Sofosbuvir is a prodrug a formation of its active metabolite unlikely to be affected by cobicist
aintenance therapy. EDATIVES enzodiazepines idazolam 5 mg single dose aclatasvir 60 mg once daily) iazolam prazolam teractions between sofosbuvir and VALEPTICS	$C_{mc}^{-}$ : 1.08 (0.93, 1.26) *Compared to historical data. ↔ Midazolam AUC: 0.87 (0.83, 0.92) $C_{mac}^{-}$ : 0.95 (0.88, 1.04) Interaction not studied. Expected: ↔ Triazolam ↔ Alprazolam other medicinal products Interaction not studied. Expected: ↓ Sofosbuvir	other benzodiazepines or other CYP3A4 substrates is required when co-administered with Daclatasvir.	HIV ANTIVIRAL AGENTS: INTEGRA Raitegravir <sup>1</sup> (400 mg twice daily)	$ \begin{array}{c} \uparrow C_{me} \ 1.45 \ (1.10, 1.92) \\ \uparrow \ AUC \ 1.34 \ (1.12, 1.59) \\ C_{me} \ (NA) \\ GS-331007 \\ \leftrightarrow \ C_{me} \ (0.97 \ (0.90, 1.05) \\ \leftrightarrow \ AUC \ 1.24 \ (1.18, 1.30) \\ C_{min} \ (NA) \\ \hline \end{array} $	not been studied but based on metabolism and clearance a clinically significant interaction is unlikely. Sofosbuvir is a prodrug a formation of its active metabolite unlikely to be affected by cobicist
aintenance therapy. EDATIVES enzodiazepines idazolam 5 mg single dose aclatasvir 60 mg once daily) iazolam prazolam teractions between sofosbuvir and VALEPTICS	$C_{min}^{-}$ 1.08 (0.93, 1.26) *Compared to historical data. ↔ Midazolam AUC: 0.87 (0.83, 0.92) $C_{mai}^{-}$ 0.95 (0.88, 1.04) Interaction not studied. Expected: ↔ Alprazolam other medicinal products Interaction not studied. Expected:	other benzodiazepines or other CYP3A4 substrates is required when co-administered with Daclatasvir.	Raltegravir <sup>1</sup>	$ \begin{array}{c} \uparrow C_{me} 1.45 \ (1.10, 1.92) \\ \uparrow AUC \ 1.34 \ (1.12, 1.59) \\ C_{me} (NA) \\ GS-331007 \\ \leftrightarrow \delta T (1.24 \ (1.18, 1.30) \\ C_{me} (0.97 \ (0.90, 1.05) \\ \leftrightarrow AUC \ (1.24 \ (1.18, 1.30) \\ C_{min} (NA) \\ \end{array} $	not been studied but based on metabolism and clearance a clinically significant interaction is unlikely. Sofosbuvir is a prodrug a formation of its active metabolite unlikely to be affected by cobicist
Intenance therapy. DATIVES nzodiazepines dazolam 5 mg single dose clatasvir 60 mg once daily) azolam rrazolam eractions between solosbuvir and IALEPTICS ddafinil ITIARRHYTHMICS	$C_{min}^{-}$ : 1.08 (0.93, 1.26) *Compared to historical data. ↔ Midazolam AUC: 0.87 (0.83, 0.92) $C_{max}^{-}$ 0.95 (0.88, 1.04) Interaction not studied. Expected: ↔ Alprazolam other medicinal products Interaction not studied. Expected: ↓ Sofosbuvir ↓ Sofosbuvir ↔ GS-331007	other benzodiazepines or other CYP3A4 substrates is required when co-administered with Daclatasvir.	Raltegravir <sup>1</sup>	$ \begin{array}{c} \uparrow C_{max} 1.45 \ (1.10, 1.92) \\ \uparrow AUC \ 1.34 \ (1.12, 1.59) \\ C_{max} (NA) \\ GS-331007 \\ \leftrightarrow AUC \ 1.24 \ (1.18, 1.30) \\ C_{max} (NA) \\ \hline \end{array} \\ \begin{array}{c} \\ \\ \\ \hline \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \hline \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \hline \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	not been studied but based on metabolism and clearance a clinically significant interaction is unlikely. Sofosbuvir is a prodrug i formation of its active metabolite unlikely to be affected by cobicist No dose adjustment of sofosbuvi or raltegravir is required when sofosbuvir and raltegravir are use
aintenance therapy. EDATIVES enzodiazepines idazolam 5 mg single dose aclatasvir 60 mg once daily) iazolam prazolam teractions between sofosbuvir and NALEPTICS	C main 1.08 (0.93, 1.26) *Compared to historical data. ↔ Midazolam AUC: 0.87 (0.83, 0.92) C main 2.095 (0.88, 1.04) Interaction not studied. Expected: ↔ Alprazolam other medicinal products Interaction not studied. Expected: ↓ Sofosbuvir ↔ GS-331007 (Induction of P-gp)	other benzodiazepines or other CYP3A4 substrates is required when co-administered with Daclatasvir.	Raltegravir <sup>1</sup>	$ \begin{array}{c} \uparrow C_{ma} \ 1.45 \ (1.10, \ 1.92) \\ \uparrow \ AUC \ 1.34 \ (1.12, \ 1.59) \\ C_{ma} \ (NA) \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	not been studied but based on metabolism and clearance a clinically significant interaction is unlikely. Sofosbuwir is a prodrug a formation of its active metabolite unlikely to be affected by cobicist No dose adjustment of sofosbuwi or raltegravir is required when sofosbuwir and raltegravir are use

Patients should be instructed that if vomiting occurs within 2 hours of dosing an additional tablet should be taken. If vomiting occurs more than 2 hours after dosing, no further dose is needed. These recommendations are based on the absorption kinetics of sofosbuvir and its predominant inactive metabolite GS-331007 suggesting that the majority of the dose is absorbed within 2 hours after dosing 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

# Use with potent P-gp inducers

Daclatasvir

Daclatasvir should not be co-administered with medicinal products that strongly induce cytochrome P450 3A4 (CYP3A4) and/or P-glycoprotein transporter (P-gp) as these substances may lead to lower exposure and loss of efficacy of Daclatasvir. These active substances include but are not limited to phenytoin, carbamazepine, oxcarbazepine, phenobarbital, rifampicin, rifabutin, rifapentine, systemic dexamethasone, and the herbal product St

# John's wort (Hypericum perforatum).

Sofosbuvir Medicinal products that are potent P-glycoprotein (P-gp) inducers in the intestine (rifampicin, rifabutin, St. John's wort

Hypericum perforatum), carbamazepine, phenobarbital and phenytoin). Co-administration will significantly decrease Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg plasma concentration and could result in loss of efficacy of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg (see section 4.5)

# 4.4 Special warnings and precautions for use

WARNING: RISK OF HEPATITIS B VIRUS REACTIVATION IN PATIENTS COINFECTED WITH HCV AND HBV Test all patients for evidence of current or prior hepatitis B virus (HBV) infection before initiating treatment with Daclatasvir HBV reactivation has been reported in HCV /HBV coinfected patients who were undergoing or had completed treatment with HCV direct acting antivirals and were not receiving HBV antiviral therapy. Some cases have resulted in fulminant hepatitis, hepatic failure, and death. Monitor HCV /HBV coinfected patients for hepatitis flare or HBV reactivation during HCV treatment and post-treatment follow-up. Initiate appropriate management for HBV infection as clinically indicated.

#### General

As a fixed combination, Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg should not be administered concomitantly with other medicinal products containing the same active components, Daclatasvir or Sofost

### Severe bradvcardia and heart block

Cases of sevwere bradycardia and heart block have been observed when daclatasvir is used in combination with sofosbuvir and concomitant amiodarone with or without other drugs that lower heart rate. The mechanism is not established.

The concomitant use of amiodarone was limited through the clinical development of sofosbuvir plus direct acting antivirals (ORAAs). Cases are potentially life threatening, therefore amiodarone should only be used in patients on daclatasvir and sofosbuvir when other alternative antiarrhythmic treatments are not tolerated or are contraindicated. Should concomitant use of amiodarone be considered necessary it is recommended that patients are closely monitored when initiating daclatasvir in consistent with sofosbury. Patients who are identified as being at high risk of bradyarrhythmia should be continuously monitored for 48 hours in an appropriate clinical setting.

Due to the long half-life of amiodarone, appropriate monitoring should also be carried out for patients who have discontinued amiodarone within the past few months and are to be initiated on daclatasvir in combination with sofosbuvir.

All patients receiving daclatasvir and sofosbuvir in combination with amiodarone with or without other drugs that lower heart rate should also be warned of the symptoms of bradycardia and heart block and should be advised to seek medical advice urgently should they experience them.

# HCV/HBV (hepatitis B virus) co-infection

Cases of hepatitis B virus (HBV) reactivation, some of them fatal, have been reported during or after treatment with direct-acting antiviral agents. HBV screening should be performed in all patients before initiation of treatment. HBV/ HCV co-infected patients are at risk of HBV reactivation, and should therefore be monitored and managed according to current clinical guidelines.

## Retreatment with Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg

The efficacy of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg as part of a retreatment regimen in patients with prior exposure to a NS5A inhibitor has not been established.

# Pregnancy and contraception requirements

Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg should not be used during pregnancy or in women of childbearing potential not using contraception. Use of highly effective contraception should be continued for 5 weeks after completion of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg therapy (see section 4.6).

# Interactions with medicinal products

Co-administration of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg can alter the concentration of other medicinal products and other medicinal products may alter the concentration of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg. Refer to section 4.3 for a listing of medicinal products that are contraindicated for use with Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg due to potential loss of therapeutic effect. Refer to section 4.5 for established and other potentially significant drug-drug interactions.

## Use with moderate P-gp inducers

Medicinal products that are moderate P-op inducers in the intestine (e.g. oxcarbazepine and modafinil) may decrease Sofosbuvir 400 mg tablets plasma concentration leading to reduced therapeutic effect of Sofosbuvir. Co-administration of such medicinal products is not recommended with Daclatasvir/Sofosbuvir 60 mg/400 mg tablet (see section 4.5). Renal impairment

The safety of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg has not been assessed in subjects with severe renal impairment (eGFR <30 mL/min/1.73 m2) or ESRD requiring haemodialysis. Furthermore, the appropriate dose has not been established

## Use in diabetic patients

Diabetics may experience improved glucose control, potentially resulting in symptomatic hypoglycaemia, after initiating HCV DAA treatment. Glucose levels of diabetic patients initiating DAA therapy should be closely monitored, particularly within the first 3 months, and their diabetic medication modified when necessary. The health care provider in charge of the diabetic care of the patient should be informed when DAA therapy is initiated.

# Paediatric population

The safety and efficacy of Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg in children and adolescents aged <18 years have not yet been established. No data are available.

Important information about some of the ingredients in Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg contains lactose. Patients with rare hereditary problems of

# galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine. 4.5 Interaction with other medicinal products and other forms of interaction

As Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg contains Daclatasvir and sofosbuvir, any interactions that have been identified with these active substances individually may occur with Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg.

# Daclatasvir

Contraindications of concomitant use (see section 4.3)

Daclatasvir is contraindicated in combination with medicinal products that strongly induce CYP3A4 and P-gp, e.g. phenytoin, carbamazepine, oxcarbazepine, phenobarbital, rifampicin, rifabutin, rifapentine, systemic dexameth and the herbal product St John's wort (Hypericum perforatum), and thus may lead to lower exposure and loss of efficacy of Daclatasvir.

# Potential for interaction with other medicinal products

Daclatasvir is a substrate of CYP3A4, P-gp and organic cation transporter (OCT) 1. Strong or moderate inducers of CYP3A4 and P-gp may decrease the plasma levels and therapeutic effect of daclatasvir. Co-administration with

# [ Page - 1 of 2 ]

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# ORAL CONTRACEPTIVES

Norgestimate/ethinyl estradiol	$\begin{array}{l} \text{Norgestromin} \\ \leftrightarrow C_{m_1} \ 1.06 \ (0.93, 1.22) \\ \leftrightarrow \text{AUC} \ 1.05 \ (0.92, 1.20) \\ C_{min} \ (NA) \end{array}$ $\begin{array}{l} \text{Norgestrel} \\ \leftrightarrow C_{m_2} \ 1.18 \ (0.99, 1.41) \\ \leftrightarrow \text{AUC} \ 1.19 \ (0.98, 1.44) \\ C_{min} \ (NA) \end{array}$	No dose adjustment of norgestimate/ethinyl estradiol is required when sofosbuvir and norgestimate/ethinyl estradiol are used concomitantly.
	$\begin{array}{l} \mbox{Ethinyl estradiol} \\ \leftrightarrow C_{max} 1.14 \ (0.96, 1.36) \\ \leftrightarrow AUC \ 1.08 \ (0.93, 1.25) \\ C_{min} \ (NA) \end{array}$	

NA = not available

Mean ratio (90% CI) of co-administered drug pharmacokinetics with/without sofosbuvir and mean ratio of sofosbuvir and GS-331007 with/without co-administered drug. No effect = 1.00

- All interaction studies conducted in healthy volunteers Comparison based on historical control
- Administered as fixed dose combination of tenofovir disoproxil, emtricitabine and efavirenz .
- Bioequivalence boundary 80%-125%
- Equivalence boundary 70%-143%

No clinically relevant effects on the pharmacokinetics of either medicinal product are expected when daclatasvir is co-No clinically reveal effects on the pharmaconitatus of enter inedicinal product are expected when dachasty is co-administered with any of the following: PDE-5 inhibitors, medicinal products in the ACE inhibitor class (e.g. enlapril), medicinal products in the angiotensin II receptor antagonist class (e.g. losartan, irbesartan, olmesartan, candesartan, valsartan), disopyramide, propafenone, flecainide, mexilitine, quinidine or antacids.

Paediatric population nteraction studies have only been performed in adults.

# 4.6 Fertility, pregnancy and lactation

# Women of childbearing potential / contraception in males and females

When sofosbuvir is used in combination with ribavirin or peginterferon alfa/ribavirin, extreme care must be taken to avoid pregnancy in fermale patients and in fermale partners of male patients. Significant teratogenic and/or embryocidal effects have been demonstrated in all animal species exposed to ribavirin (see section 4.4). Women of childbearing potential or their male partners must use an effective form of contraception during treatment and for a period of time after the treatment has concluded. Refer to the summary of product characteristics for ribavirin for additional

Pregnancy should be avoided in women treated with daclatasvir. Use of highly effective contraception should be continued for 5 weeks after completion of therapy with Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg (see section 4.5)

#### Pregnancy Daclatasvir

There are no data from the use of daclatasvir in pregnant women.

Studies of daclatasvir in animals have shown embryotoxic and teratogenic effects (see section 5.3). The potential risk for humans is unknown.

Daclatasvir should not be used during pregnancy or in women of childbearing potential not using contraception (see section 4.4). Use of highly effective contraception should be continued for 5 weeks after completion of daclatasvir therapy (see section 4 5)

Since daclatasvir is used in combination with other agents, the contraindications and warnings for those medicinal products are applicable

For detailed recommendations regarding pregnancy and contraception, refer to the Summary of Product Characteristics for ribavirin.

#### Sofosbuvir

There are no or limited amount of data (less than 300 pregnancy outcomes) from the use of sofosbuvir in pregnant

Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity. No effects on foetal development have been observed in rats and rabbits at the highest doses tested. However, it has not been possible to fully estimate exposure margins achieved for sofosbuvir in the rat relative to the exposure in humans at the recommended clinical dose (see section 5.3).

As a precautionary measure, it is preferable to avoid the use of Sofosbuvir during pregnancy. However, if ribavirin is co-administered with sofosbuvir, the contraindications regarding use of ribavirin during

pregnancy apply (see also the Summary of Product Characteristics for ribavirin).

Breast-feeding

It is unknown whether daclatasvir /sofosbuvir and its metabolites are excreted in human milk

Available pharmacokinetic data in animals has shown excretion of metabolites in milk (for details see section 5.3) A risk to newborns/infants cannot be excluded. Therefore, daclatasvir /sofosbuvir should not be used during breastfeeding

## Fertility

No human data on the effect of daclatasvir /sofosbuvir on fertility are available. Animal studies do not indicate harmful effects on fertility.

## 4.7 Effects on ability to drive and use machines

Dizziness has been reported during treatment with Daclatasvir in combination with sofosbuvir, and dizziness, disturbance in attention, blurred vision and reduced visual acuity have been reported during treatment with Daclatasvir in combination with peginterferon alfa and ribavirin.

#### 4.8 Undesirable effects

# Summary of the safety profile

The overall safety profile of daclatasvir is based on data from 476 patients with chronic HCV infection who received daclatasvir once daily in combination with sofosbuvir. The most frequently reported adverse reactions were fatigue, headache, and nausea. Grade 3 adverse reactions were

reported in less than 1% of patients and no patients had a Grade 4 adverse reaction. Four patients discontinued the clatasvir regimen for adverse events, only one of which was considered related to study therapy. Tabulated list of adverse reactions

Adverse reactions are listed in Table 5 by regimen, system organ class and frequency: very common (≥1/10), or common ( $\geq 1/100$  to <1/10). Within each frequency grouping, adverse reactions are presented in order of decreasing

System Organ Class	Adverse Reactions
Psychiatric disorders	
Common	insomnia
Nervous system disorders	
Very common	Headache
Common	dizziness, migraine

#### Sofosbuvir/daclatasvir in HCV infected adults without cirrhosis:

In a combined analysis of treatment-naïve and treatment-experienced persons treated with sofosbuvir/daclatasvir, the pooled SVR rates exceeded 92% for infection with genotypes 1, 2, 3 and 4. Data from an observational study (MSE demonstration project) provided information on the less commonly reported genotypes 5 and 6. A total of eight persons with genotype 5 and 123 persons with genotype 6 infection were treated with sofos latasvir for 12 weeks. SVR rates were 88% and 94% for genotypes 5 and 6 respectively.

# Sofosbuvir/daclatasvir in HCV infected adults with compensated cirrhosis:

In a combined analysis of treatment-naive and treatment-experienced persons with compensated cirrhosis (Child Pugh A or B) treated with sofosbuvi/daclatasvir for 12 weeks, the pooled SVR rates exceeded 93% for infection with genotypes 1 and 2. SVR rates for infection with genotype 3 were low, ranging from 79% to 82%. However, after 24 weeks of treatment, SVR rates increased to 90%. Data from an observational study (MSF demonstration project) provided information on genotypes 5 and 6, and real-world data from Egypt provided information on genotype 4. One rhotic person with genotype 5 infection treated with sofosbuvir/daclatasvir for 12 weeks reached SVR. Among 185 cirrhotic persons with genotype 6 infection

treated with sofosbuvir/dataswir for 12 weeks, 92% reached SVR. Cirrhotic persons with genotype 4 infection had SVR rates that exceeded 98% after 12 weeks of treatment.

# Sofosbuvir/daclatasvir in HCV infected adults with decompensated cirrhosis.

There are currently insufficient data to provide definitive treatment guidelines for HCV infected adults with decompensated cirrhosis (Child Pugh C). It is recommended that such individuals are treated with sofosbuvir/ daclatasvir for 24 weeks using the same regimen as used for individuals with compensated cirrhosis. HCV/HIV co-infection

# HCV treatment outcomes with daclatasvir/sofosbuvir are comparable in persons with HIV/HCV coinfection to those

with HCV monifection. Because DAAs are safe and effective for people with HIV/HCV, there is no longer any need to consider them as a special or difficult-to-treat population. However, there are important DDIs (drug-drug interactions) with pangenotypic HCV regimens and antiretroviral therapies for HIV. Therefore, checking for DDIs between HCV and HIV medications should be emphasized. The dose of daclatasvir may need to be increased or decreased when used concomitantly with cytochrome P450 3A/4 inducers and inhibitors, respectively. See Section 4-5. Safety of sofosbuvir/daclatasvir

Treatment discontinuation due to adverse events was very low in persons without and with cirrhosis (<1%). Similar results were observed in treatment-naive and treatment-experienced persons

Long term efficacy data In a follow-up study of 258 patients who achieved SVR12 with daclatasvir and sofosbuvir with a median duration of post-SVR12 follow-up of 38 months, no relapses occurred (with relapses defined as confirmed or last available HCV  $RNA \ge LLOQ)$ 

#### Impact of baseline NS5A RAVs on cure rates

Baseline NS5A resistance-associated variants (RAVs) had no major impact on cure rates in patients treated with sofosbuvir + daclatasvir, with the exception of the Y93H RAV in genotype 3 infection (seen in 16/192 [8%] of patients). The SVR12 rate in genotype-3 infected patients with this RAV is reduced (in practice as relapse after end of treatment response), especially in patients with cirrhosis. The overall cure rate for genotype-3 infected patients who were treated for 12 weeks with sofosbuvir + daclatasvir in the presence and absence of the Y93H RAV was 7/13 (54%) and 134/145 (92%), respectively, Paediatric population

No data are available on the safety and efficacy of daclatasvir in children and adolescents aged below 18 years (see section 4.2) 5.2 Pharmacokinetic propertie

## Daclatasvir

The absorption characteristics of daclatasvir have been determined after administration of one daclatasvir (as dihydrochloride) 60 mg tablet in healthy volunteers in the fasting state as follows:

Pharmacokinetic variable	Mean value* (±standard deviation)
	Daclatasvir
Maximum concentration (C <sub>max</sub> )	$2.003 \pm 0.492 \mu$ g/mL
Area under the curve $(AUC_{0-\infty)}$ a measure of the extent of absorption	21.786 ± 6.287 µg.h/mL
Time to attain maximum concentration (T <sub>max</sub> )	1.28 ± 0.54 h
*arithmetic mean	

Pharmacokinetics of daclatasvi

		Dacla	itasvir	
General				
	The pharmacokinetic p subjects and in patient			ed in healthy adult
Absorption				
Absolute bioavailability	The absolute bioavaila	bility of the tablet	formulation is 67%.	
Oral bioavailability	At least 67%.			
Food effect		AUC <sub>(0-∞)</sub>	C <sub>max</sub>	T <sub>max</sub>
	With high-fat meal	23%↓	28%↓	NA*
	With light meal	No change	No change	NA*
Distribution	1			
Volume of distribution (mean)	Approximately 47 L.			

Plasma protein binding	Approximately 99% (independent of dose between 1 mg to 100 mg)
Tissue distribution	Active and passive transport into hepatocytes.
Metabolism	
	Substrate of CYP3A with CYP3A4 being the major isoform responsible for metabolism.
Active metabolite(s)	None.
Elimination	
General note	Daclatasvir is mainly cleared by the liver.
Elimination half life	12 to 15 h
Mean systemic clearance (Cl/F)	4.24 L/h
% of dose excreted in urine	6.6% (primarily as unchanged drug)
% of dose excreted in faeces	88% (53% as unchanged drug)
Pharmacokinetic linearity	Daclatasvir C <sub>max</sub> , AUC and C <sub>min</sub> increase in a near dose-proportional manner
Drug interactions (in vitro)	NA*
Transporters	In vitro and in vivo studies showed that daclatasvir is a substrate of P-gp.

# In vitro and in vivo studies showed that daclatasvir is a substrate of P-op.

higher when sofosbuvir was dosed 1 hour before haemodialysis compared with 60% higher when sofosbuvir was dosed 1 hour after haemodialysis. The AUC<sub>but</sub> of GS-331007 in subjects with ESRD could not be reliably determined. However, data indicate at least 10-fold and 20-fold higher exposure to GS-331007 in ESRD compared to normal subjects when Sofosbuvir 400 mg film-coated tablets was administered 1 hour before or 1 hour after haemodialysis respectively.

Haemodialysis can efficiently remove (53% extraction ratio) the predominant circulating metabolite GS-331007. A 4-hour haemodialysis session removed approximately 18% of administered dose. No dose adjustment is required for patients with mild or moderate renal impairment. The safety of Sofosbuvir 400 mg film-coated tablets has not been assessed in patients with severe renal impairment or ESRD (see section 4.4). Hepatic impairment

### Daclatasvir

The pharmacokinetics of daclatasvir following a single 30 mg oral dose were studied in non-HCV infected subjects with mild (Child-Pugh A), moderate (Child-Pugh B), and severe (Child-Pugh C) hepatic impairment compared with unimpaired subjects. The  $C_{max}$  and AUC of total daclatasvir (free and protein-bound drug) were lower in subjects with hepatic impairment; however, hepatic imp concentrations of daclatasvir (see section 4.2). impairment did not have a clinically significant effect on the free drug

#### Sofosbuvir

The pharmacokinetics of sofosbuvir were studied following 7-day dosing of 400 mg sofosbuvir in HCV infected subjects with moderate and severe hepatic impairment (CPT class B and C). Relative to subjects with normal hepatic function, the sofosbuvir AUC<sub>par</sub> was 126% and 143% higher in moderate and severe hepatic impairment, while the SG-331007 AUC<sub>bar</sub> was 18% and 9% higher, respectively. Population pharmacokinetics analysis in HCV infected subjects indicated that cirrhosis had no clinically relevant effect on the exposure to sofosbuvir and GS-331007. No dose adjustment of sofosbuvir is recommended for patients with mild, moderate and severe hepatic impairment (see section 4.2) section 4.2). Paediatric populat

### Daclatasvir

The pharmacokinetics of daclatasvir in paediatric patients have not been evaluated.

Sofosbuvir

Sofosbuvir and GS-331007 exposures in adolescents aged 12 to <18 years were similar to those in adults from Phase 2/3 studies following administration of sofosbuvir (400 mg). The pharmacokinetics of sofosbuvir and GS-331007 have not been established in paediatric patients < 12 years of age. Pharmacokinetic/pharmacodynamic relationship(s)

Efficacy, in terms of rapid virologic response, has been shown to correlate with exposure to sofosbuvir as well as GS 331007. However, neither of these entities has been evidenced to be a general surrogate marker for efficacy (SVR12) at the therapeutic 400 mg dose.

# Bioequivalence study

Single-Dose Fasting Bioequivalence Study of Daclatasyir and Sofosbuvir Film-Coated Tablets (60 mo/400 mo: Mylan) versus DAKLINZA<sup>™</sup> Tablets (60 mg; Bristol-Myers Squibb) and SOVALDI<sup>®</sup> Tablets (400 mg; Gilead) in Healthy Adult Volunteers

# Pharmacokinetic Results

		Daclatasvir $n = 58$		
Parameter	Arithmetic Mean (%CV) A = Mylan	Arithmetic Mean (%CV) B = DAKLINZA™	LSMEANS Ratio (A/B)*	90% Confidence Interval**
AUCL (ng•hr/mL)	13541 (37.66)	13209 (40.16)	1.03	99.35% - 106.85%
AUCINF (ng•hr/mL)	14125 (38.64)	13771 (40.59)	1.03	99.46% - 106.69%
CPEAK (ng/mL)	1326 (35.53)	1312 (37.79)	1.02	97.02% - 106.42%
KEL (hr-1)	0.0701 (20.79)	0.0707 (20.02)		
HALFLIFE (hr)	10.37 (25.60)	10.22 (21.58)		
TPEAK (hr)	1.707 (63.59)	1.566 (67.52)		

r Ratio (A/B) = e <sup>[LSMEAN of (LNA - LNB)]</sup>
r\*Lised Natural Log Transformed Parameter

0360	ivaturai	LUY	nanoionneu

#### Sofosbuvi n = 58 Arithmetic Mean Arithmetic Mean LSMEANS 90% Confidence Parameter (%CV) (%CV) Ratio (A/B)\* Interval\*\* A = MylanB = SOVÁLDI AUCL (na • hr/mL) 1179 (47.57) 1221 (43.39) 0.95 89.75% - 100.06% AUCINF (ng • hr/mL) 1196 (47.15)° 1237 (42.88) 0.95° 90.30% - 100.52% 85.74% - 106.53% CPEAK (ng/mL) 1228 (46.29) 1269 (44.00) 0.96 1.532 (25.47)° KEL (hr-1) 1.609 (22.66) HALFLIFE (hr) 0.488 (32.82)° 0.455 (25.22)

0.835 (66.97)

°n=57		
* Ratio (A/B)	= e [LSMEAN of (LNA - LNB)]	

\*\*Used Natural Log Transformed Parameter

0.866 (78.35)

# 5.3 Preclinical safety data

#### Sofosbuvir

TPEAK (hr)

In repeat dose toxicology studies in rat and dog, high doses of the 1:1 diastereomeric mixture caused adverse liver (dog) and heart (rat) effects and gastrointestinal reactions (dog). Exposure to sofosbuvir in rodent studies could not be detected likely due to high esterase activity; however, exposure to the major metabolite GS-331007 at the adverse dose was 29 times (rat) and 123 times (dog) higher than the clinical exposure at 400 mg sofosbuvir. No liver or heart findings were observed in chronic toxicity studies at exposures 9 times (rat) and 27 times (dog) higher than the clinical exposure

Sofosbuvir was not genotoxic in a battery of in vitro or in vivo assays, including bacterial mutagenicity, chromosome aberration using human peripheral blood lymphocytes and in vivo mouse micronucleus assays

Carcinogenicity studies in mice and rats do not indicate any carcinogenicity potential of sofosbuvir administered at does up to 600 mg/kg/day in mouse and 750 mg/kg/day in rat. Exposure to 6S-331007 in these studies was up to 30 times (mouse) and 15 times (rat) higher than the clinical exposure at 400 mg sofosbuvir.

Sofosbuvir had no effects on embryo-foetal viability or on fertility in rat and was not teratogenic in rat and rabbit Solosbuvin lad no enects on enorgy-local viability of on returning in rat and was not enaugement in rat and rabbit development studies. No adverse effects on behaviour, reproduction or development of offspring in rat were reported. In rabbit studies exposure to sofosbuvir was 9 times the expected clinical exposure. In the rat studies, exposure sofosbuvir could not be determined but exposure margins based on the major human metabolite ranged from 8 to 28 times higher than the clinical exposure at 400 mg sofosbuvir.

Sofosbuvir-derived material was transferred through the placenta in pregnant rats and into the milk of lactating rats. Daclatasvir: -

# Patient Counselling Information MyHep DVIR® (Sofosbuvir and Daclatasvir Tablets IP 400 mg/60 mg)

### Read all of this leaflet carefully before you start taking this medicine because it contains important information

MyHep DVIR is used to treat adults with Chronic hepatitis C virus (HCV) genotype 3 infection. Hepatitis C infection

MyHep DVIR contains daclatasvir and sofosbuvir. Both substances work together to lower the amount of hepatitis C

Are allergic to daclatasvir, sofosbuvir, or any of the other ingredients of this medicine (see Section 6: Contents of

medicines containing St. John's wort (Hypericum perforatum, a herbal preparation used to treat depression)

These medicines lower the effect of MyHep DVIR and may result in your treatment not working. If you take any of these

you currently take, or have taken in the last few months, the medicine amiodarone to treat irregular heartbeats

you have a current or previous infection with the hepatitis B virus, since your health care provider may want to

• you have liver problems other than hepatitis C, e.g. if you are awaiting a liver transplantation or if your liver is

• you have kidney problems. Talk to your health care provider if you have severe kidney problems or if you are on

you have diabetes. You may need closer monitoring of your blood glucose levels and/or adjustment of your diabetes medication after starting MyHep DVIR. Some diabetic patients have experienced low sugar levels in the

Tell your health care provider immediately if you are taking any medicines for heart problems and during treatment

Tell your health care provider if you are taking, have recently taken or might take any other medicines. This is because Wylep DVIR may affect the way some medicines work. In addition, some medicines may affect the way Mylep DVIR works. Your health care provider may need to adjust the dose of your medicine or you may not be able to take Mylep

warfarin and other similar medicines called vitamin K antagonists, used to thin the blood. Your health care provider

rosuvastatin, atorvastatin, fluvastatin, simvastatin, pitavastatin or pravastatin, used to lower blood cholesterol

MyHep DVIR is not recommended for patients below 18 years of age. This medicine has not yet been studied in

Tell your health care provider if you or your partner become pregnant, think you may be pregnant or are planning to

If you can become pregnant, use effective contraception during and for 5 weeks after your treatment with MyHep DVIR.

It is not known whether the active substances in MyHep DVIR pass into human breast milk. You should not breastfeed

Some patients have reported dizziness, difficulty concentrating, and vision problems while taking this medicine for their

Always take MyHep DVIR exactly as your health care provider has told you. Check with your health care provider if

Swallow the tablet whole. Do not chew, crush or split the tablet as it have a very unpleasant taste. Tell your health care

and you notice within 18 hours of the time you usually take MyHep DVIR, you must take the tablet as soon as

and you notice 18 hours or more after the time you usually take MyHep DVIR, wait and take the next dose at your

If you accidentally take more than the recommended dose you should contact your health care provider or nearest

emergency department immediately for advice. Keep the tablet container with you so that you can easily describe

The duration of your treatment with MyHep DVIR will be either 12 or 24 weeks. The duration of your treatment will

Do not stop taking this medicine unless your health care provider tells you to. It is very important that you complete the full course of treatment to give the medicines the best chance to treat your hepatitis C virus infection.

Like all medicines, this medicine can cause side effects, although not everybody gets them. The following side effects

When MyHep DVIR is taken with amiodarone (a medicine used to treat heart problems) or if you have taken amiodarone

If you get any side effects, talk to your health care provider. This includes unwanted effects not listed in this leaflet. If available, you can also report side effects directly through the national reporting system. By reporting side effects you can help improve understanding about the safety of this medicine.

 atazanavir/ritonavir, atazanavir/cobicistat, elviteoravir/cobicistat/emtricitabine/tenofovir disoproxil combination tablet, etravirine, nevirapine or efavirenz, used to treat HIV infection

may need to increase the frequency of your blood tests to check how well your blood can clot.

Your health care provider will test your blood before, during and after your treatment with MyHep DVIR.

Decide what other medicines you should take with MyHep DVIR and for how long

If you become pregnant, stop taking MyHep DVIR and tell your health care provider immediately

hepatitis C infection. If you have any of these side effects, do not drive or use any tools or machines.

provider if you have problems swallowing tablet. The tablet should be taken with a meal.

Make sure you take MyHep DVIR for as long as your health care provider has told you to take it.

If you have any further questions on the use of this medicine, ask your health care provider.

within the previous six months, you may get one or more of the following side effects:

Shortness of breath or worsening of any shortness of breath that you already have

The active ingredients are daclatasvir (as dihydrochloride) 60 mg and sofosbuvir 400 mg.

Tell your health care provider if you notice any of the above side effects during treatment with MyHep DVIR.

mportant information about some of the ingredients of MyHep DVIR

It is important not to miss a dose of this medicine. If you do miss a dose

sual time. Do not take a double dose (two doses close together

ible. Then take the next dose at your usual time

Confirm that your treatment has worked, and you are free of the hepatitis C virus.

ketoconazole, itraconazole, posaconazole or voriconazole, used to treat fungal infections

phenytoin, carbamazepine, oxcarbazepine or phenobarbital, used to treat epileptic

(your health care provider may consider alternative treatments if you have taken this medicine

for you Keen this leaflet. You may need to read it again

- If you have questions about the medicine, ask your health care provider.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs
- of illness seem to be the same as yours. If you are concerned about any side effects, talk to your health care provider. This includes
- unwanted effects not listed in this leaflet. See section 4.
- What is in this leaflet
- What MvHep DVIR is and what it is used for
- What you need to know before you take MyHep DVIR How to take MyHep DVIR
- Possible side effects
- How to store MvHep DVIR

Do not take MyHep DVIR if you

seizures

Warnings and precautions

kidney dialysis.

Shortness of breath

Palpitations

DVIR with certain medicines.

oral contraceptives

Children and adolescents

hildren and adolescents.

become pregnant.

Breast-feeding

Pregnancy and contraception

during treatment with MyHep DVIR

Hen DVIR contains lactose. If your healt

If you take more MyHep DVIR than you should

Very common (may affect more than 1 in 10 people):

nausea (feeling sick), diarrhoea, abdominal pain

Slow or irregular heartbeat or heart rhythm problems

joint pain, aching or tender muscles, not caused by exercise

Store protected from moisture at a temperature not exceeding 30°C.

Common (may affect up to 1 in 10 people):

contact your health care provider before taking MyHep DVIR

The recommended dose of MyHep DVIR is one tablet per day.

Driving and using machines

3. How to take MyHep DVIR

If you forget to take MyHep DVIR

you are not sure.

Recommended dose

what you have taken

4. Possible side effects

ave been reported:

headache, fatigue

difficulty sleeping

Reporting of side effects

5. How to store MyHep DVIR

What MyHep DVIR contains

F-4 & F-12, MIDC, Malegaon, Sinnar,

Nashik - 422 113, Maharashtra, INDIA

6. Contents of the pack and other information

dizziness

migraine

How long to take MyHep DVIR

depend on the condition of your liver.

This is so your health care provider can:

Blood tests

Fainting

Light-headedness

Other medicines and MyHep DVIR

you experience:

monitor you more closely

the pack and other information)

Are taking any of the following medicines:

medicines, tell your health care provider immediately

damaged and is not functioning properly

## Contents of the pack and other information 1. What MyHep DVIR is and what it is used for

affects the liver and is caused by the hepatitis C virus.

2. What you need to know before you take MyHep DVIR

virus in your body and remove the virus from your blood over a period of time.

rifampicin, rifabutin or rifapentine, used to treat tuberculosis

dexamethasone, used to treat allergic and inflammatory diseases

Talk to your health care provider before taking this medicine if any of the following apply:

blood (hypoglycaemia) after starting treatment with medicines like MyHep DVIR

Tell your health care provider if you take any of the following medicines:

clarithromycin, telithromycin or erythromycin, used to treat bacterial infection

verapamil, diltiazem, nifedipine or amlodipine, used to decrease blood pressure

amiodarone or digoxin, used to treat irregular heart beats

dabigatran etexilate, used to prevent blood clots

Gastrointestinal disorders			
Common	nausea, diarrhoea, abdominal pain	]	
Musculoskeletal and connective tissue disorders			
Very common	arthralgia, myalgia		
General disorders and administration site conditions			Metabolizing er
Very common	fatique		-

Laboratory abnormalities

Grade 3/4 increases in total bilirubin were observed in 5% of patients (all in patients with HIV coinfection who were receiving concomitant atazanavir, with Child-Pugh A, B, or C cirrhosis, or who were post-liver transplant). Description of selected adverse reactions

#### Cardiac arrhythmias

Cases of severe bradycardia and heart block have been observed when Daclatasvir is used in combination with sofosbuvir and concomitant amiodarone and/or other drugs that lower heart rate (see sections 4.4 and 4.5). Paediatric population

The safety and efficacy of Daclatasvir/Sofosbuvir in children and adolescents aged <18 years have not yet been established. No data are available.

# Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued suspected adverse reactions via the national reporting system.

## 4.9 Overdose

There is limited experience of accidental overdose of daclatasvir in clinical studies. In phase 1 clinical studies, healthy subjects who received up to 100 mg once daily for up to 14 days or single doses up to 200 mg had no unexpected adverse reactions.

There is no known antidote for overdose of daclatasvir. Treatment of overdose with daclatasvir should consist of general supportive measures, including monitoring of vital signs, and observation of the patient's clinical status. Because daclatasvir is highly protein bound (99%) and has a molecular weight >500, dialysis is unlikely to significantly reduce plasma concentrations of daclatasvi

#### Sofoshuvir

The highest documented dose of sofosbuvir was a single supratherapeutic dose of sofosbuvir 1,200 mg administered to 59 healthy subjects. In that study, there were no untoward effects observed at this dose level, and adverse reactions were similar in frequency and severity to those reported in the placebo and sofosbuvir 400 mg treatment groups. The effects of higher doses are unknown.

No specific antidote is available for overdose with Sofosbuvir. If overdose occurs the patient must be monitored for evidence of toxicity. Treatment of overdose with Sofosbuvir consists of general supportive measures including monitoring of vital signs as well as observation of the clinical status of the patient. Haemodialysis can efficiently remove (53% extraction ratio) the predominant circulating metabolite GS-331007. A 4-hour haemodialysis session removed 18% of the administered dose.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Daclatasvir

Pharmacotherapeutic group: Direct-acting antiviral, ATC code: J05AP07 Sofosbuvir

Pharmacotherapeutic group: Antivirals for systemic use, direct-acting antiviral; ATC code: J05AP08

### Mechanism of action Daclatasvir is an inhibitor of nonstructural protein 5A (NS5A), a multifunctional protein that is an essential component

of the HCV replication complex. Daclatasvir inhibits both viral RNA replication and virion assembly. Sofosbuvir is a pan-genotypic inhibitor of the HCV NS5B RNA-dependent RNA polymerase, which is essential for viral replication. Sofosbuvir is a nucleotide prodrug that undergoes intracellular metabolism to form the pharmacologically active unified analog triphosphate (GS-461203), which can be incorporated into HCV RNA by the NSSB polymerase and acts as a chain terminator. In a biochemical assay, GS-461203 inhibited the polymerase activity of the recombinant NSSB from HCV genotype 1b, 2a, 3a and 4a with a 50% inhibitory concentration ( $(C_{sy})$  value ranging from 0.7 to 2.6  $\mu$ M. GS-461203 (the active metabolite of sofosbuvir) is not an inhibitor of human DNA and RNA polymerases nor an

#### inhibitor of mitochondrial RNA polymerase. Antiviral activity

Sofosbuvir

#### <u>Resistance</u> In cell culture

Reduced susceptibility to sofosbuvir was associated with the primary NS5B substitution S282T in all replicon genotypes examined. Site-directed mutagenesis of the S282T substitution in replicons of 8 genotypes conferred 2- to 18-fold reduced susceptibility to sofosbuvir and reduced the replication viral capacity by 89% to 99% compared to the corresponding wild-type. In biochemical assays, recombinant NS5B polymerase from genotypes 10, 2a, 3a and 4a expressing the S282T substitution showed reduced susceptibility to GS-461203 compared to respective wild-types. In clinical studies

In a pooled analysis of 221 samples with post-baseline NS5B sequences and deep sequencing data (assay cutoff of 1%) the sofosbuvir-associated resistance substitution S282T was not detected by deep sequencing or population sequencing. The S282T substitution in NS5B was detected in a single subject receiving sofosbuvir monotherapy in a Phase 2 study. This subject harbourd <1% HCV S282T at baseline and developed S282T (<99%) at 4 weeks post-treatment which resulted in a 13.5-fold change in sofosbuvir EC50 and reduced viral replication capacity. The S282T substitution reverted to wild-type over the next 8 weeks and was no longer detectable by deep sequencing at 12 weeks post-treatment.

Two NS5B substitutions, L159F and V321A, were detected in post-treatment relapse samples from multiple genotype 3 HCV infected subjects in the Phase 3 clinical studies. No shift in the phenotypic susceptibility to sofosbuvir or ribavirin of subject isolates with these substitutions was detected. In addition, S282R and L320F substitutions were detected on treatment by deep sequencing in a pre-transplant subject with a partial treatment response. The clinical significance of these findings is unknown.

Effect of baseline HCV polymorphisms on treatment outcome Baseline NS5B sequences were obtained for 1,292 subjects from Phase 3 studies by population sequencing and the S282T substitution was not detected No statistically significant association was observed between the presence of any

HCV NS5B variant at baseline and treatment outcome Paediatric population

Baseline NS5B sequences were obtained for 47 patients in the Phase 2 study. Among these, one patient was found to have a NS5B RAV substitution (F289L). This patient achieved SVR12. Cross-resistance

HCV replicons expressing the sofosbuvir-associated resistance substitution S282T were fully susceptible to other classes of anti-HCV agents. Sofosbuvir retained activity against the NS5B substitutions L159F and L320F associated with resistance to other nucleoside inhibitors.

Sofosbuvir was fully active against substitutions associated with resistance to other direct-acting antivirals with different mechanisms of actions, such as NS5B non-nucleoside inhibitors, NS3 protease inhibitors and NS5A inhibitors.

# Clinical efficacy and safety

A WHO-commissioned systematic review identified 142 clinical studies that evaluated the safety and efficacy of various FDA- and EMA-approved DAA regimens, including sofosbuvir/daclatasvir.

	Daclatasvir is an inhibitor of P-gp, OATP 1B1 and BCRP.							
	Active transport into hepatocytes by OCT1 and other unidentified uptake transporters.							
	<i>In vitro</i> daclatasvir is an inhibitor of renal uptake transporters, OAT1 and 3, and OCT2, but is not expected to have a clinical effect on the pharmacokinetics of substrates of these transporters.							
nzymes	In vitro and in vivo studies demonstrate that daclatasvir is a substrate of CYP3A, with CYP3A4 being the major CYP isoform responsible for the metabolism. Da- clatasvir in vitro did not inhibit CYP enzymes 1A2, 2B6, 2C8, 2C9, 2C19, or 2D6.							

#### Sofosbuvi

\*Information not available

Sofosbuvir is a nucleotide prodrug that is extensively metabolised. The active metabolite is formed in hepatocytes and not observed in plasma. The predominant (>90%) metabolite, GS-331007, is inactive. It is formed through sequentia and parallel pathways to the formation of active metabolite.

Absorption The pharmacokinetic properties of sofosbuvir and the predominant circulating metabolite GS-331007 have been

evaluated in healthy adult subjects and in subjects with chronic hepatitis C. Based on population pharmacokinetic analysis in subjects with genotypes 1 to 6 HCV infection (n = 986), steady-state AUC0-24 for sofosbuvir and GS-331007 was 1,010 ng h/mL and 7,200 ng h/mL, respectively. Relative to healthy subjects (n = 284), the sofosbuvir and GS-331007 AUC0-24 was 57% higher and 39% lower, respectively in HCV

infected subjects. Following single dose of administration of Sofosbuvir Tablets, Film-coated 400 mg in healthy volunteers.

sofosbuvir  $C_{max}$  value was 1287 (± 572) ng/ml and the corresponding value for AUC <sub>b-t</sub> was 1503 (±415) ng-hour/ml. The mean sofosbuvir t value was  $1.53 \pm 0.67$  hours. Effects of food

Relative to fasting conditions, the administration of a single dose of sofosbuvir with a standardised high fat meal slowed the rate of absorption of sofosbuvir. The extent of absorption of sofosbuvir was increased approximately 1.8-fold, with little effect on peak concentration. The exposure to GS-331007 was not altered in the presence of a high-fat meal.

#### Distribution

Sofosbuvir is not a substrate for hepatic uptake transporters, organic anion-transporting polypeptide (OATP) 1B1 or 1B3, and organic cation transporter (OCT) 1. While subject to active tubular secretion, GS-331007 is not a substrate for renal transporters including organic anion transporter (OAT) 1 or 3, OCT2, MRP2, P-gp, BCRP or MATE1. Sofosbuvir and GS-331007 are not inhibitors of drug transporters P-gp, BCRP, MRP2, BSEP, OATP1B1, OATP1B3 and COT1.020 (2007) and (200 OCT1. GS-331007 is not an inhibitor of OAT1, OCT2, and MATE1.

Sofosbuvir is approximately 85% bound to human plasma proteins (ex vivo data) and the binding is independent of drug concentration over the range of 1  $\mu$ g/mL to 20  $\mu$ g/mL. Protein binding of GS-331007 was minimal in human plasma. After a single 400 mg dose of [14C]-sofosbuvir in healthy subjects, the blood to plasma ratio of 14C-radioactivity was ately 0.7.

#### Biotransformation

Sofosbuvir is extensively metabolised in the liver to form the pharmacologically active nucleoside analog triphosphate GS-461203. The metabolic activation pathway involves sequential hydrolysis of the carboxyl ester moiety catalysed by human cathepsin A (CatA) or carboxylesterase 1 (CES1) and phosphoramidate cleavage by histidine triad nucleotide-binding protein 1 (HINT1) followed by phosphorylation by the pyrimidine nucleotide biosynthesis pathway. Dephosphorylation results in the formation of nucleoside metabolite GS-331007 that cannot be efficiently horylated and lacks anti-HCV activity in vitro. Sofosbuvir and GS-331007 are not substrates or inhibitors of UGT1A1 or CVP3A4, CVP1A4, CVP2B6, CVP2C9, CVP2C9, CVP2C19, and CVP2C9 erzymes. After a single 400 mg oral dose of [<sup>14</sup>C]-sofosbuvir, sofosbuvir and GS-331007 accounted for approximately 4% and >90% of drug-related material (sum of molecular weight-adjusted AUC of sofosbuvir and its metabolites) systemic exposure, respectively Elimination

Following a single 400 mg oral dose of [14C]-sofosbuvir, mean total recovery of the dose was greater than 92%, consisting of approximately 80%, 14%, and 2.5% recovered in urine, faeces, and expired air, respectively. The majority of the sofosbuvir dose recovered in urine was GS-331007 (78%) while 3.5% was recovered as sofosbuvir. This data indicate that renal clearance is the major elimination pathway for GS-331007 with a large part actively secreted. The median terminal half-lives of sofosbuvir and GS-331007 were 0.4 and 27 hours respectively. Linearity/non-linearity

The dose linearity of sofosbuvir and its primary metabolite. GS-331007, was evaluated in fasted healthy subjects. Sofosbuvir and GS-331007 AUCs are near dose proportional over the dose range of 200 mg to 400 mg. Special populations

### Gender and race

#### Daclatasvir Gender

Population pharmacokinetic analysis identified gender as a statistically significant covariate on daclatasvir apparent oral clearance (CL/F) with female subjects having slightly lower CL/F, but the magnitude of the effect on daclatasvir

Race Population pharmacokinetic analysis of data from clinical studies identified race (categories "other" [patients who are not white, black or Asian] and "black") as a statistically significant covariate on daclatasvir apparent oral clearance (CL/F) and apparent volume of distribution (Vc/F) resulting in slightly higher exposures compared to white patients, but the magnitude of the effect on daclatasvir exposure is not clinically important

Sofosbuvi No clinically relevant pharmacokinetic differences due to gender or race have been identified for sofosbuvir and GS-331007

#### Elderly Daclatasvi

Population pharmacokinetic analysis of data from clinical studies indicated that age had no apparent effect on the pharmacokinetics of daclatasvi Sofosbuvir

Population pharmacokinetic analysis in HCV infected subjects showed that within the age range (19 to 75 years) analysed, age did not have a clinically relevant effect on the exposure to softsburin and GS-331007. Clinical studies of sofosburin included 65 subjects aged 65 and over. The response rates observed for subjects over 65 years of age were similar to that of younger subjects across treatment groups

#### Renal impairment Daclatasvir

The pharmacokinetics of daclatasvir following a single 60 mg oral dose were studied in non-HCV infected subjects with renal impairment. Daclatasvir unbound AUC was estimated to be 18%, 39% and 51% higher for subjects with creatinine clearance (CLcr) values of 60, 30 and 15 ml/min, respectively, relative to subjects with normal renal function. Subjects with end-stage renal disease requiring haemodialysis had a 27% increase in daclatasvir AUC and a 20% increase in unbound AUC compared to subjects with normal renal function

respectively. In subjects with FSRD, relative to subjects with normal renal function, sofosbuvir AUC, was 28%

Sofosbuvir The pharmacokinetics of sofosbuvir were studied in HCV negative subjects with mild (eGFR  $\geq$ 50 and <80 mL/ min/1.73 m<sup>2</sup>), moderate (eGFR  $\geq$  30 and <50 mL/min/1.73 m<sup>2</sup>), severe renal impairment (eGFR <30 mL/min/1.73 m<sup>2</sup>) and subjects with ESRD requiring haemodialysis following a single 400 mg dose of sofosbuvir. Relative to subjects with normal renal function (eGFR >80 mL/min/1.73 m<sup>2</sup>), the sofosbuvir AUC<sub>0-eff</sub> was 61%, 107% and 171% higher in mild, moderate and severe renal impairment, while the GS-331007 AUC<sub>0-eff</sub> was 55%, 88% and 451% higher, General toxicity

In repeat-dose toxicology studies in animals, hepatic effects (Kupffer-cell hypertrophy/ hyperplasia, mononuclear cell In repeat-cose toxicology studies in animals, nepatic effects (chapter-cen ryper upping in preprints), monoluceal cent infiltrates and bile duct hyperplasia) and adrenal gland effects (chapters in cytoplasmic vacuolation and adrenal cortical hypertrophy/hyperplasia) were observed at exposures similar or slightly higher than the clinical AUC exposure. In dogs, bone marrow hypocellularity with correlating clinical pathology changes were observed at exposures 9-fold the clinical AUC exposure. None of these effects have been observed in humans.

#### Mutagenicity/ Carcinogenicity

Daclatasvir was not carcinogenic in mice or in rats at exposures 8-fold or 4-fold, respectively, the clinical AUC exposure. No evidence of mutagenic or clastogenic activity was observed in in vitro mutagenesis (Ames) tests, nmalian mutation assays in Chinese hamster ovary cells, or in an *in vivo* oral micronucleus study in rats. Reproductive toxicity

Daclatasvir is embryotoxic and teratogenic in rats and rabbits at exposures at or above 4-fold (rat) and 16-fold (rabbit) the clinical AUC exposure. Developmental toxicity consisted of increased embryofoetal lethality, reduced foetal body weights and increased incidence of ofetal malformations and variations. In rats, malformations mainly affected the brain, skull, eyes, ears, nose, lip, palate or limbs and in rabbits, the ribs and cardiovascular area. Maternal toxicity including mortality, abortions, adverse clinical signs, decreases in body weight and food consumption was noted in both species at exposures 25-fold (rat) and 72-fold (rabbit) the clinical AUC exposure.

In a study of pre- and postnatal development in rats, there was neither maternal nor developmental toxicity at doses up to 50 mg/kg/day, associated with AUC values 2-fold the clinical AUC exposure. At the highest dose (100 mg/kg/ day), maternal toxicity included mortality and dystocia; developmental toxicity included slight reductions in offspring viability in the peri- and neonatal periods; and reductions in birth weight that persisted into adulthood. The AUC value associated with this dose is 4-fold the clinical AUC exposure.

Daclatasvir had no effects on fertility in female rats at any dose tested. The highest AUC value in unaffected females was 18-fold the clinical AUC exposure. In male rats, effects on reproductive endpoints were limited to reduced prostate. seminal vesicle weights, and minimally increased dysmorphic sperm at 200 mg/kg/day; however, neither finding adversely affected fertility nor the number of viable conceptuses sired. The AUC associated with this dose in males is 19-fold the clinical AUC exposure. Daclatasvir was excreted into the milk of lactating rats with concentrations 1.7- to 2-fold maternal plasma levels.

## 6. PHARMACEUTICAL PARTICULARS 6.1 List of excipients

Colours: Titanium dioxide, Yellow oxide of Iron, Red oxide of Iron, Black oxide of Iron

6.2 Incompatibilities Not applicable.

6.3 Shelf life

Refer to Carton

6.4 Special precautions for storage Do not store above 30°C, Store in the original container.

6.5 Nature and contents of container

### Sofosbuvir and Daclatasvir Tablets 400 mg/60 mg are available in bottle pack of 28 tablets

6.6 Special precautions for disposal Any unused medicinal product or waste material should be disposed of in accordance with local requirements 7.0 Manufactured by:

# Mylan Laboratories Limited F-4 & F-12, MIDC, Malegaon, Sinnar,

Nashik - 422 113, Maharashtra, INDIA 8.0 Marketed by:

# Mylan Pharmaceuticals Pvt. Ltd.

Room No. 2, Minus 3rd Floor, Plot No. 564/A/22, Road No. 92, Jubilee Hills, Ameerpet, Hyderabad, Telangana - 500 096, INDIA.

### 9.0 For further information write to: Mylan Pharmaceuticals Private Limited

10th Floor, Prestige Platina, Block 3, Kadubeesanahalli Village, Varthur Hobli, Outer Ring Road, Bangalore East Taluk, Bangalore 560 087, India. Email: ProductSafety@viatris.com

# **10. DATE OF REVISION OF THE TEXT**

**Mylan** 

Laboratories Limited Packaging Development

] New Component

destroyed, if applicable.)

# November 2022

References Daclatasvir (as dihydrochloride) 60mg Tablets; WHOPAR Summary of Product Characteristics (HP016) part 4; Mylan Laboratories Limited; February 2020; Accessed on July 27<sup>a</sup>, 2020; Accessed from

https://extranet.who.int/pregual/sites/default/files/HP016part4v1 0.pdf Sofosbuvir Tablets, Film-coated Tablets 400 mg WHOPAR Summary of Product Characteristics (HP001) part 4; Mylan Laboratories Limited; April 2020; Accessed on September 10th, 2020; Accessed from

Artwork Implementation Schedule

Check (√) whichever is applicable

(Approval is not valid without following details

[ ] Immediately (Stock of superseded component to be

[ ] After consumption of existing (superseded) stock.

[ ] Other (Specify) .....

https://extranet.who.int/prequal/sites/default/files/HP001part4\_0.pdf

The other ingredients of MyHep DVIR are Titanium dioxide, Yellow oxide of Iron, Red oxide of Iron, Black oxide of Iron What MyHep DVIR looks like and contents of the pack Peach colored, modified capsule shaped, biconvex beveled edge film-coated tablet debossed with "M" on one side and "DTS" on the other side Daclatasvir/Sofosbuvir tablets are available in bottle pack of 28 tablets 7. Manufactured by: Mylan Laboratories Limited

8. Marketed by: Mylan Pharmaceuticals Pvt. Ltd Room No. 2, Minus 3rd Floor,

Plot No. 564/A/22, Road No. 92, Jubilee Hills, Ameerpet, Hyderabad, Telangana – 500 096, INDIA. 9. For further information write to:

Date of Issue

Date of Return

Material Code

Description

Component

Substrate

Reason for Is-

Mylan Pharmaceuticals Private Limited 10th Floor, Prestige Platina, Block 3, Kadubeesanahalli Village, Varthur Hobli, Outer Ring Road, Bangalore East Taluk, Bangalore 560 087, India. Email: "ProductSafety@viatris.com"

# 10. Date of implementation:

November 2022 REFERENCE:

Daclatasvir/sofosbuvir 60mg/400mg tablets; WHOPAR Patient Information Leaflet; HP025 part 3; Mylan Laboratories Limited; February 2021; Accessed on April 28th, 2021; Accessed from https://extranet.who.int/pgweb/sites/default/files/HP025part3v1.pdf

Issued By

LIT. MYHEP DVIR TABS 400 mg/60 mg IN V3

**Design & Style** | Supply Leaflet in Folded form as Proposed Size (with tape)

Change in Text, SAP description, Storage condition and

Supersedes 75080286 Market MYLAN-INDIA

Actual Size Flat- 400 x 560 mm; Folded- 35 x 51 mm

5094017

**III** Mylan

[ Page - 2 of 2 1

# Mfg. Lic. No.: NKD/89 Manufactured by:

Mylan Laboratories Limited

Visit us at: www.mylan.in

<sup>®</sup> Registered Trademark

75094017

Printed Literature

40 gsm ITC Tribeni Paper

F-4 & F-12, MIDC, Malegaon, Sinnar

Nashik - 422 113, Maharashtra, INDIA

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Remarks														
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