ANNEX I DUCT OFFRACTERISTICS SNEX PROUCT OF RATE SUMMARY OF PRODUCT CHARA CTERISTICS

1

This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

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1. NAME OF THE MEDICINAL PRODUCT

Daklinza 30 mg film-coated tablets Daklinza 60 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Daklinza 30 mg film-coated tablets

Each film-coated tablet contains daclatasvir dihydrochloride equivalent to 30 mg daclatasvir

Daklinza 60 mg film-coated tablets

Each film-coated tablet contains daclatasvir dihydrochloride equivalent to 60 mg daclatasvir.

Excipient(s) with known effect

Each 30-mg film-coated tablet contains 58 mg of lactose (as an¹ ydr us) Each 60-mg film-coated tablet contains 116 mg of lactose (as anh ydrous).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet (tablet).

Daklinza 30 mg film-coated tablets

Green biconvex pentagonal of dimensions 7.2 mm x 7.0 mm, debossed tablet with "BMS" on one side and "213" on the other side.

Daklinza 60 mg film- oated tablets

Light green bit of very pentagonal of dimensions 9.1 mm x 8.9 mm, debossed tablet with "BMS" on one side and "215" in the other side.

CUINICAL PARTICULARS

Therapeutic indications

4.1

Daklinza is indicated in combination with other medicinal products for the treatment of chronic hepatitis C virus (HCV) infection in adults (see sections 4.2, 4.4 and 5.1).

For HCV genotype specific activity, see sections 4.4 and 5.1.

4.2 Posology and method of administration

Treatment with Daklinza should be initiated and monitored by a physician experienced in the management of chronic hepatitis C.

Posology

The recommended dose of Daklinza is 60 mg once daily, to be taken orally with or without meals.

Daklinza must be administered in combination with other medicinal products. The Summary of Product Characteristics for the other medicinal products in the regimen should also be consulted before initiation of therapy with Daklinza.

Patient population*	Regimen and duration +
• •	ICV GT 1 or 4
Patients without cirrhosis	Daklinza + sofosbuvir for 12 weeks
Patients with cirrhosis CP A or B	Daklinza + sofosbuvir + ribavirin for 12 weeks
	or Daklinza + sofosbuvir (without riba ii) for 24 weeks
CP C	Daklinza + sofosbuvir +/
	HCV GT 3
Patients without cirrhosis	Daklinza + Jolosbavir for 12 weeks
Patients with cirrhosis	Daklin_a + sofosbuvir +/- ribavirin for 24 weeks (secsection 5.1)
Recurrent HCV infectio	n post-liver transplant (GT 1, 3 or 4)
Patients without cirrhosis	Daklinza + sofosbuvir + ribavirin for 12 weeks(see section 5.1)
Patients with CP A or B cirrhosis	
GT 1 or 4 GT 3	Daklinza + sofosbuvir + ribavirin for 12 weeks Daklinza + sofosbuvir +/- ribavirin for 24 weeks
Patients with CP C c rrh sis	Daklinza + sofosbuvir +/- ribavirin for 24 weeks (see sections 4.4 and 5.1)

 Table 1: Recommended treatment for Daklinza interferon-free combination therapy

GT: Genotype; C) Child Pugh

Includes r atients co-infected with human immunodeficiency virus (HIV). For dosing recommendations with HIV antiviral agents, refer to section 4.5.

Laki nza + peginterferon alfa + ribavirin

This regimen is an alternative recommended regimen for patients with genotype 4 infection, without virtuosis or with compensated cirrhosis. Daklinza is given for 24 weeks, in combination with 24-48 weeks of peginterferon alfa and ribavirin:

- If HCV RNA is undetectable at both treatment weeks 4 and 12, all 3 components of the regimen should be continued for a total duration of 24 weeks.

- If undetectable HCV RNA is achieved, but not at both treatment weeks 4 and 12, Daklinza should be discontinued at 24 weeks and peginterferon alfa and ribavirin continued for a total duration of 48 weeks.

Ribavirin Dosing Guidelines

The dose of ribavirin, when combined with Daklinza, is weight-based (1,000 or 1,200 mg in patients <75 kg or ≥75 kg, respectively). Refer to the Summary of Product Characteristics of ribavirin.

For patients with Child-Pugh A, B, or C cirrhosis or recurrence of HCV infection after liver transplantation, the recommended initial dose of ribavirin is 600 mg daily with food. If the starting dose is well-tolerated, the dose can be titrated up to a maximum of 1,000-1,200 mg daily (breakpoint 75 kg). If the starting dose is not well-tolerated, the dose should be reduced as clinically indicated, based on haemoglobin and creatinine clearance measurements (see Table 2).

Table 2:Ribavirin dosing guidelines for coadministration with Daklinza regimen for
patients with cirrhosis or post-transplant

Laboratory Value/Clinical Criteria	Ribavirin Dosing Guideline
Haemoglobin	
>12 g/dL	600 mg daily
> 10 to ≤ 12 g/dL	400 mg'ly
> 8.5 to ≤ 10 g/dL	200 mg aliy
$\leq 8.5 \text{ g/dL}$	Dis 20, tu ue ribavirin
Creatinine Clearance	
>50 mL/min	Follow guidely les above for haemoglobin
>30 to ≤ 50 mL/min	200 mg every other day
≤30 mL/min or haemodialysis	Discontinue ribavirin

Dose modification, interruption and discontinuation

Dose modification of Daklinza to manage adverse reactions is not recommended. If treatment interruption of components in the regiment, necessary because of adverse reactions, Daklinza must not be given as monotherapy.

There are no virologic treatment stopping rules that apply to the combination of Daklinza with sofosbuvir.

Treatment discontinuation in patients with inadequate on-treatment virologic response during treatment with Daklinza, 1 eginte feron alfa and ribavirin

It is unlikely that patients with inadequate on-treatment virologic response will achieve a sustained virologic response (S R); therefore discontinuation of treatment is recommended in these patients. The HCV RNA to reshold that trigger discontinuation of treatment (i.e. treatment stopping rules) are presented in T to r_{3} .

Table 3: Treatment stopping rules in patients receiving Daklinza in combination with peginterferon alfa and ribavirin with inadequate on-treatment virologic response

	ЧСУ КЛА	Action
10	Ireatment week 4: >1000 IU/ml	Discontinue Daklinza, peginterferon alfa and ribavirin
2	Treatment week 12: ≥25 IU/ml	Discontinue Daklinza, peginterferon alfa and ribavirin
	Treatment week 24: ≥25 IU/ml	Discontinue peginterferon alfa and ribavirin (treatment with Daklinza is complete at week 24)

Dose recommendation for concomitant medicines <u>Strong inhibitors of cytochrome P450 enzyme 3A4 (CYP3A4)</u> The dose of Daklinza should be reduced to 30 mg once daily when coadministered with strong inhibitors of CYP3A4.

Moderate inducers of CYP3A4

The dose of Daklinza should be increased to 90 mg once daily when coadministered with moderate inducers of CYP3A4. See section 4.5.

Missed doses

Patients should be instructed that, if they miss a dose of Daklinza, 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 populations

Elderly

No dose adjustment of Daklinza is required for patients aged ≥ 65 years (see section 5.2)

Renal impairment

No dose adjustment of Daklinza is required for patients with any degree of renal in pairment (see section 5.2).

Hepatic impairment

No dose adjustment of Daklinza is required for patients with mild (Child-Pugh A, score 5-6), moderate (Child-Pugh B, score 7-9) or severe (Child-Pugh C, score ≥ 10) hep-the impairment (see sections 4.4 and 5.2).

Paediatric population

The safety and efficacy of Daklinza in children and raclescents aged below 18 years have not yet been established. No data are available.

Method of administration

Daklinza is to be taken orally with or without meals. Patients should be instructed to swallow the tablet whole. The film-coated tablet should rot be chewed or crushed due the unpleasant taste of the active substance.

4.3 Contraindications

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

Coadministratio, with h dicinal products that strongly induce cytochrome P450 3A4 (CYP3A4) and P-glycoprotein transporter (P-gp) and thus may lead to lower exposure and loss of efficacy of Daklinza. These a live substances include but are not limited to phenytoin, carbamazepine, oxcarbazepine, phenobarbital, rifampicin, rifabutin, rifapentine, systemic dexamethasone, and the herbal binde ct St John's wort *(Hypericum perforatum)*.

- 4 Special warnings and precautions for use

Daklinza must not be administered as monotherapy. Daklinza must be administered in combination with other medicinal products for the treatment of chronic HCV infection (see sections 4.1 and 4.2).

Severe bradycardia and heart block

Cases of severe bradycardia and heart block have been observed when Daklinza 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 (DAAs). Cases are potentially life threatening, therefore amiodarone should

only be used in patients on Daklinza 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 Daklinza in combination with sofosbuvir. 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 Daklinza in combination with sofosbuvir.

All patients receiving Daklinza 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.

Genotype-specific activity

Concerning recommended regimens with different HCV genotypes, see section 4.2 Concerning genotype-specific virological and clinical activity, see section 5.1. Data to support the treatment of genotype 2 infection with Daklinza and soft sbuvir are limited.

Data from study ALLY-3 (AI444218) support a 12-week treatment dura on of Daklinza + sofosbuvir for treatment-naïve and -experienced patients with genotype 3 infection vithout cirrhosis. Lower rates of SVR were observed for patients with cirrhosis (see section 5.1). Data from compassionate use programmes which included patients with genotype 3 infection and cirrhosis, support the use of Daklinza + sofosbuvir for 24 weeks in these patients. The relevance of adding ribavirin to that regimen is unclear (see section 5.1).

The clinical data to support the use of Daklinza and sof sbuvir in patients infected with HCV genotypes 4 and 6 are limited. There are no clinical data in patients with genotype 5 (see section 5.1).

Patients with Child-Pugh C liver disease

The safety and efficacy of Daklinza in the treatment of HCV infection in patients with Child-Pugh C liver disease have been established in the clirical study ALLY-1 (AI444215, Daklinza + sofosbuvir + ribavirin for 12 weeks); however SVR r tes were lower than in patients with Child-Pugh A and B. Therefore, a conservative treatman regimen of Daklinza + sofosbuvir +/- ribavirin for 24 weeks is proposed for patients with Child-Pugh C (see sections 4.2 and 5.1). Ribavirin may be added based on clinical assessment of an inc vid al patient.

HCV/HBV (hepatitis 3 v1 us) co-infection

Cases of hepatit. B virt (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 tent on managed according to current clinical guidelines.

Retreatment with daclatasvir

The thicacy of Daklinza as part of a retreatment regimen in patients with prior exposure to a NS5A inh 'bitor has not been established.

Pregnancy and contraception requirements

Daklinza 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 Daklinza therapy (see section 4.6).

When Daklinza is used in combination with ribavirin, the contraindications and warnings for that medicinal product are applicable. Significant teratogenic and/or embryocidal effects have been demonstrated in all animal species exposed to ribavirin; therefore, extreme care must be taken to avoid pregnancy in female patients and in female partners of male patients (see the Summary of Product Characteristics for ribavirin).

Interactions with medicinal products

Coadministration of Daklinza can alter the concentration of other medicinal products and other medicinal products may alter the concentration of daclatasvir. Refer to section 4.3 for a listing of medicinal products that are contraindicated for use with Daklinza due to potential loss of therapeutic effect. Refer to section 4.5 for established and other potentially significant drug-drug interactions.

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 physician in charge of the diabetic care of the patient should be informed when DAA therapy is initiated.

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Paediatric population

Daklinza is not recommended for use in children and adolescents aged below 18 years because the safety and efficacy have not been established in this population.

Important information about some of the ingredients in Daklinza

Daklinza contains lactose. Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

Patients on controlled sodium diet

Daklinza contains less than 1 mmol sodium (23 mg) per maximum dose of 90 mg, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

Contraindications of concomitant use (see section 4...)

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

Potential for interaction with othat medicinal products

Daclatasvir is a substrate of CVF3A, P-gp and organic cation transporter (OCT) 1. Strong or moderate inducers of CYP3. (4 a) P-gp may decrease the plasma levels and therapeutic effect of daclatasvir. Coadministration with strong inducers of CYP3A4 and P-gp is contraindicated while dose adjustment of Dakling a is recommended when coadministered with moderate inducers of CYP3A4 and P-gp (see Table 4). Corong inhibitors of CYP3A4 may increase the plasma levels of daclatasvir. Dose adjustment of Dakling a is recommended when coadministered with strong inhibitors of CYP3A4 (see Table 4). Coaliministration of medicines that inhibit P-gp or OCT1 activity is likely to have a limited effect on daclatasvir exposure.

Dach tasy ir is an inhibitor of P-gp, organic anion transporting polypeptide (OATP) 1B1, OCT1 and treat cancer resistance protein (BCRP). Administration of Daklinza may increase systemic exposure to 1 edicinal products that are substrates of P-gp, OATP 1B1, OCT1 or BCRP, which could increase or prolong their therapeutic effect and adverse reactions. Caution should be used if the medicinal product has a narrow therapeutic range (see Table 4).

Daclatasvir is a very weak inducer of CYP3A4 and caused a 13% decrease in midazolam exposure. However, as this is 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 medicinal products in the regimen.

Patients treated with vitamin K antagonists

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

Tabulated summary of interactions

Table 4 provides information from drug interaction studies with daclatasvir including clinical 1500 recommendations for established or potentially significant drug interactions. Clinically relevant increase in concentration is indicated as "↑", clinically relevant decrease as "↓", no clinically relevant change as "↔". If available, ratios of geometric means are shown, with 90% confidence intervals (CI) in parentheses. The studies presented in Table 4 were conducted in healthy adult subjects unless otherwise noted. The table is not all-inclusive.

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadmining tration
ANTIVIRALS, HCV		
Nucleotide analogue polymerase	inhibitor	0
Sofosbuvir 400 mg once daily (daclatasvir 60 mg once daily) Study conducted in patients with chronic HCV infection	$\leftrightarrow \text{Daclatasvir*}$ AUC: 0.95 (0.82, 1.10) C _{max} : 0.88 (0.78, 0.99) C _{min} : 0.91 (0.71, 1.16) $\leftrightarrow \text{GS-331007**}$ AUC: 1.0 (0.95, 1.08) C _{max} : 0.8 (0.77, 0.90) C _{min} : 1.4 (1.35, .53) *Comparison for daclatasvir was to a historic. 1 reference (data from 3 stud es et uaclatasvir 60 mg once daily wh b peginterferon alfa and ribavirin). *G s-331007 is the major circulating petabolite of the prodrug sofosbuvir.	No dose adjustment of Daklinza or sofosbuvir is required.
Protease inhibitors (PIs) Boceprevir	Interaction not studied. Expected due to CYP3A4 inhibition by boceprevir: ↑ Daclatasvir	The dose of Daklinza should be reduced to 30 mg once daily when coadministered with boceprevir or other strong inhibitors of CYP3A4.
Simepre /ir 150 mg once daily (daclatation: 60 mg once daily)	 ↑ Daclatasvir AUC: 1.96 (1.84, 2.10) C_{max}: 1.50 (1.39, 1.62) C_{min}: 2.68 (2.42, 2.98) ↑ Simeprevir AUC: 1.44 (1.32, 1.56) C_{max}: 1.39 (1.27, 1.52) C_{min}: 1.49 (1.33, 1.67) 	No dose adjustment of Daklinza or simeprevir is required.

Interactions and dose recommendations with other medicinal products Table 4:

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
Telaprevir 500 mg q12h	↑ Daclatasvir	The dose of Daklinza should be
(daclatasvir 20 mg once daily)	AUC: 2.32 (2.06, 2.62)	reduced to 30 mg once daily
	C _{max} : 1.46 (1.28, 1.66)	when coadministered with
		telaprevir or other strong
	↔ Telaprevir	inhibitors of CYP3A4.
	AUC: 0.94 (0.84, 1.04)	
	C _{max} : 1.01 (0.89, 1.14)	
Telaprevir 750 mg q8h	↑ Daclatasvir	
(daclatasvir 20 mg once daily)	AUC: 2.15 (1.87, 2.48)	
(C_{max} : 1.22 (1.04, 1.44)	
	↔ Telaprevir	
	AUC: 0.99 (0.95, 1.03)	
	C_{max} : 1.02 (0.95, 1.09)	
	CYP3A4 inhibition by telaprevir	
Other HCV antivirals	\sim	
Peginterferon alfa 180 µg once	↔ Daclatasvir	No dose adjustment of Daklinza
weekly and ribavirin 1000 mg	AUC: ↔*	peginterferon alfa, or ribavirin i
or 1200 mg/day in two divided	$C_{max}: \leftrightarrow^*$	required.
doses	C_{\min} : \leftrightarrow *	
(daclatasvir 60 mg once daily)		
	↔ Peginterferon alfa	
Study conducted in patients	C_{\min} : \leftrightarrow *	
with chronic HCV infection	X	
	$\leftrightarrow P_{1D}av_{1}$	
	AUC: 0 94 (0.80, 1.11)	
	C _{max} , 0.94 (0.79, 1.11)	
C C	C _{min} : 0.98 (0.82, 1.17)	
	*PK parameters for daclatasvir when	
	administered with peginterferon alfa	
	and ribavirin in this study were similar	
\mathbf{X}	to those observed in a study of HCV-	
	infected subjects administered	
	daclatasvir monotherapy for 14 days.	
	PK trough levels for peginterferon alfa	
	in patients who received peginterferon	
	alfa, ribavirin, and daclatasvir were	
sicinal Q	similar to those in patients who	
	received peginterferon alfa, ribavirin,	
	and placebo.	

Table 4: Interactions and dose recommendations with other medicinal products

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
ANTIVIRALS, HIV or HBV	1	1
Protease inhibitors (PIs)		
Atazanavir 300 mg/ritonavir 100 mg once daily (daclatasvir 20 mg once daily)	 ↑ Daclatasvir AUC*: 2.10 (1.95, 2.26) C_{max}*: 1.35 (1.24, 1.47) C_{min}*: 3.65 (3.25, 4.11) CYP3A4 inhibition by ritonavir *results are dose-normalised to 60 mg 	The dose of Daklinza should be reduced to 30 mg once daily when coadministered with atazanavir/ritonavir, atazanavir/cobicistat or other strong inhibitors of TYP3A4.
Atazanavir/cobicistat	dose. Interaction not studied. Expected due to CYP3A4 inhibition by atazanavir/cobicistat: ↑ Daclatasvir	an
Darunavir 800 mg/ritonavir 100 mg once daily (daclatasvir 30 mg once daily)		No dose adjustment of Daklinza 60 mg once daily, darunavir/ritonavir (800/100 mg once daily or 600/100 mg twice daily) or darunavir/cobicistat is required.
Darunavir/cobicistat	$C_{\min}: 0.98 (0.67 \ 1.4 \)$ Interaction 1 of tunied. $Expected:$ $\leftrightarrow Dach tasvir$	
Lopinavir 400 mg/ritonavir 100 mg twice daily (daclatasvir 30 mg once daily)	↔ I ack tasvir AUC: 1.15 (1.07, 1.24) ↔ Lopinavir* AUC: 1.15 (0.77, 1.72) Cmax: 1.22 (1.06, 1.41) Cmin: 1.54 (0.46, 5.07)	No dose adjustment of Daklinza 60 mg once daily or lopinavir/ritonavir is required.
Nucleoria. /nucleotide reverse tra	* the effect of 60 mg daclatasvir on lopinavir may be higher. nscriptase inhibitors (NRTIs)	
Tet ofo ir disoproxil fumarate 30. mg once daily (d.clatasvir 60 mg once daily)	$\begin{array}{l} \leftrightarrow \text{Daclatasvir} \\ \text{AUC: } 1.10 \ (1.01, 1.21) \\ \text{C}_{\text{max}} \text{: } 1.06 \ (0.98, 1.15) \\ \text{C}_{\text{min}} \text{: } 1.15 \ (1.02, 1.30) \\ \leftrightarrow \text{Tenofovir} \\ \text{AUC: } 1.10 \ (1.05, 1.15) \end{array}$	No dose adjustment of Daklinza or tenofovir is required.

 Table 4:
 Interactions and dose recommendations with other medicinal products

	Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
	Lamivudine	Interaction not studied.	No dose adjustment of Daklinza
	Zidovudine	Expected:	or the NRTI is required.
	Emtricitabine	\leftrightarrow Daclatasvir	1
	Abacavir	↔ NRTI	
	Didanosine		
	Stavudine		
	Non-nucleoside reverse transcrip	tase inhibitors (NNRTIs)	
	Efavirenz 600 mg once daily	↓ Daclatasvir	The dose of Dakling a should be
	(daclatasvir 60 mg once	AUC*: 0.68 (0.60, 0.78)	increased to 90 mg once daily
	daily/120 mg once daily)	C _{max} *: 0.83 (0.76, 0.92)	when coadh inistered with
		C _{min} *: 0.41 (0.34, 0.50)	efavirenz.
		Induction of CYP3A4 by efavirenz	an.
		*results are dose-normalised to 60 mg dose.	
	Etravirine	Interaction not studied.	Due to the lack of data,
		<i>Expected due to CYP3A4 induc ion</i> 'v	coadministration of Daklinza
	Nevirapine		
		etravirine or nevirapine:	and etravirine or nevirapine is
		↓ Daclatasvir	not recommended.
	Rilpivirine	Interaction not studie d.	No dose adjustment of Daklinza
		Expected:	or rilpivirine is required.
		↔ Daclatasvir	
		↔ Rilpivirir.	
	Integrase inhibitors		1
	Dolutegravir 50 mg once daily	↔ Daciatasvir	No dose adjustment of Daklinza
	(daclatasvir 60 mg once daily)	AUC: 0.92 (0.83, 1.15)	or dolutegravir is required.
		$C_{n.x}$. 1/3 (0.84, 1.25)	
		$\sum_{\min} 1.06 (0.88, 1.29)$	
		Dolutegravir	
		Dolutegravir	
		Dolutegravir AUC: 1.33 (1.11, 1.59)	
	Nor	Dolutegravir AUC: 1.33 (1.11, 1.59) C _{max} : 1.29 (1.07, 1.57)	
		Dolutegravir AUC: 1.33 (1.11, 1.59)	
	prof	Dolutegravir AUC: 1.33 (1.11, 1.59) C _{max} : 1.29 (1.07, 1.57) C _{min} : 1.45 (1.25, 1.68)	
	alprof	Dolutegravir AUC: 1.33 (1.11, 1.59) C _{max} : 1.29 (1.07, 1.57) C _{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by	
	Ralteravir	Dolutegravir AUC: 1.33 (1.11, 1.59) C _{max} : 1.29 (1.07, 1.57) C _{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir	No dose adjustment of Daklinza
	Raltegra zir	Dolutegravir AUC: 1.33 (1.11, 1.59) C _{max} : 1.29 (1.07, 1.57) C _{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied.	No dose adjustment of Daklinza
	Raltégra zir	Dolutegravir AUC: 1.33 (1.11, 1.59) C _{max} : 1.29 (1.07, 1.57) C _{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> :	No dose adjustment of Daklinza or raltegravir is required.
	Raltegra vir	↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir	5
		↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir \leftrightarrow Raltegravir	or raltegravir is required.
	Elvitegravir, cobicistat,	↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed	or raltegravir is required. The dose of Daklinza should be
	Elvitegravir, cobicistat, emtricitabine, tenofovir	Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet.	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily
Ne	Elvitegravir, cobicistat,	↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily when coadministered with
Ne	Elvitegravir, cobicistat, emtricitabine, tenofovir	Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet.	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily
76	Elvitegravir, cobicistat, emtricitabine, tenofovir	Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected:</i> \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet. <i>Expected due to CYP3A4 inhibition by</i>	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily when coadministered with
Ne	Elvitegravir, cobicistat, emtricitabine, tenofovir	Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected:</i> \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet. <i>Expected due to CYP3A4 inhibition by</i> <i>cobicistat:</i>	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily when coadministered with cobicistat or other strong
Ne	E)vitegravir, cobicistat, emtricitabine, tenofovir disoproxil fumarate	Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected:</i> \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet. <i>Expected due to CYP3A4 inhibition by</i> <i>cobicistat:</i>	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily when coadministered with cobicistat or other strong
Ne	Elvitegravir, cobicistat, emtricitabine, tenofovir disoproxil fumarate Fusion inhibitor	↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected</i> : \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet. <i>Expected due to CYP3A4 inhibition by</i> <i>cobicistat</i> : ↑ Daclatasvir Interaction not studied.	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily when coadministered with cobicistat or other strong inhibitors of CYP3A4. No dose adjustment of Daklinza
Ne	Elvitegravir, cobicistat, emtricitabine, tenofovir disoproxil fumarate Fusion inhibitor	↑ Dolutegravir AUC: 1.33 (1.11, 1.59) C_{max} : 1.29 (1.07, 1.57) C_{min} : 1.45 (1.25, 1.68) Inhibition of P-gp and BCRP by daclatasvir Interaction not studied. <i>Expected:</i> \leftrightarrow Daclatasvir \leftrightarrow Raltegravir Interaction not studied for this fixed dose combination tablet. <i>Expected due to CYP3A4 inhibition by</i> <i>cobicistat:</i> \uparrow Daclatasvir	or raltegravir is required. The dose of Daklinza should be reduced to 30 mg once daily when coadministered with cobicistat or other strong inhibitors of CYP3A4.

 Table 4:
 Interactions and dose recommendations with other medicinal products

Table 4: Interactions and dose recommendations with other medicinal planets	roducts
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Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
CCR5 receptor antagonist		
Maraviroc	Interaction not studied. <i>Expected:</i> ↔ Daclatasvir ↔ Maraviroc	No dose adjustment of Daklinza, or maraviroc is required.
ACID REDUCING AGENTS		
<i>H</i> ₂ -receptor antagonists		
Famotidine 40 mg single dose (daclatasvir 60 mg single dose)	← Daclatasvir AUC: $0.82 (0.70, 0.96)$ C_{max} : $0.56 (0.46, 0.67)$ C_{min} : $0.89 (0.75, 1.06)$	No dose adjustment of Daklinza is required
Proton pump inhibitors	Increase in gastric pH	
Omeprazole 40 mg once daily (daclatasvir 60 mg single dose)	 ↔ Daclatasvir AUC: 0.84 (0.73, 0.96) C_{max}: 0.64 (0.54, 0.77) C_{min}: 0.92 (0.80, 1.05) Increase in gastric pЧ 	No dose adjustment of Daklinza is required.
ANTIBACTERIALS		I
Clarithromycin Telithromycin	Interaction not : tud. :d. Expected du c → CYP3A4 inhibition by the antibacterial: ↑ Dack asvir	The dose of Daklinza should be reduced to 30 mg once daily when coadministered with clarithromycin, telithromycin or other strong inhibitors of CYP3A4.
Erythromycin	A the action not studied. <i>Expected due to CYP3A4 inhibition by</i> <i>the antibacterial:</i> ↑ Daclatasvir	Administration of Daklinza with erythromycin may result in increased concentrations of daclatasvir. Caution is advised.
Azithromycin Ciprofloxacin	Interaction not studied. <i>Expected:</i> ↔ Daclatasvir ↔ Azithromycin or Ciprofloxacin	No dose adjustment of Daklinza or azithromycin or ciprofloxacin is required.
ANTICO AGULANTS	Interaction not studied.	Cofety manitoring is advised
Dabigatran etexilate	Expected due to inhibition of P-gp by daclatasvir: ↑ Dabigatran etexilate	Safety monitoring is advised when initiating treatment with Daklinza in patients receiving dabigatran etexilate or other intestinal P-gp substrates that have a narrow therapeutic range.
Warfarin or other vitamin K antagonists	Interaction not studied. <i>Expected:</i> ↔ Daclatasvir ↔ Warfarin	No dose adjustment of Daklinza or warfarin is required. Close monitoring of INR values is recommended with all vitamin K antagonists. This is due to liver function that may change during treatment with Daklinza.

 Table 4:
 Interactions and dose recommendations with other medicinal products

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
ANTICONVULSANTS		
Carbamazepine Oxcarbazepine Phenobarbital Phenytoin	Interaction not studied. Expected due to CYP3A4 induction by the anticonvulsant: ↓ Daclatasvir	Coadministration of Daklinza with carbamazepine, oxcarbazepine, phenobarbita ¹ , phenytoin or other strong inducers of CYP3A4 is contraindicated (see section 4.3).
ANTIDEPRESSANTS		
Selective serotonin reuptake inhib	bitors	
Escitalopram 10 mg once daily (daclatasvir 60 mg once daily)	$ \begin{array}{l} \leftrightarrow \text{Daclatasvir} \\ \text{AUC: } 1.12 \ (1.01, \ 1.26) \\ \text{C}_{\text{max}} \text{: } 1.14 \ (0.98, \ 1.32) \\ \text{C}_{\text{min}} \text{: } 1.23 \ (1.09, \ 1.38) \end{array} $	No dose a 'ius'ment of Daklinza or escital prain is required.
	$ \begin{array}{c} \leftrightarrow Escitalopram \\ AUC: 1.05 (1.02, 1.08) \\ C_{max}: 1.00 (0.92, 1.08) \\ C_{min}: 1.10 (1.04, 1.16) \end{array} $	
ANTIFUNGALS		
Ketoconazole 400 mg once daily (daclatasvir 10 mg single dose) Itraconazole	↑ Daclatasvir AUC: 3.00 (2.62, 3.44) C _{max} : 1.57 (1.31 (1.68) CYP3A4 in ibition by ketoconazole Interac. on not studied.	The dose of Daklinza should be reduced to 30 mg once daily when coadministered with ketoconazole or other strong inhibitors of CYP3A4.
Posaconazole Voriconazole	Exp cted due to CYP3A4 inhibition by the antigungal: De clatasvir	
Fluconazole	Interaction not studied. Expected due to CYP3A4 inhibition by the antifungal: ↑ Daclatasvir ↔ Fluconazole	Modest increases in concentrations of daclatasvir are expected, but no dose adjustment of Daklinza or fluconazole is required.
ANTIMYCOBACTEN'ALS	Dealatagyin	Conduction of D-1-1
Rifampicin 50 J :g once daily (daclatas: ir 50 mg single dose)	↓ Daclatasvir AUC: 0.21 (0.19, 0.23) C _{max} : 0.44 (0.40, 0.48) CYP3A4 induction by rifampicin	Coadministration of Daklinza with rifampicin, rifabutin, rifapentine or other strong inducers of CYP3A4 is contraindicated (see section 4.3).
R. ^c aoutin Rifapentine	Interaction not studied. Expected due to CYP3A4 induction by the antimycobacterial: ↓ Daclatasvir	

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
CARDIOVASCULAR AGENT	rs	
Antiarrhythmics		
Digoxin 0.125 mg once daily (daclatasvir 60 mg once daily)	 ↑ Digoxin AUC: 1.27 (1.20, 1.34) C_{max}: 1.65 (1.52, 1.80) C_{min}: 1.18 (1.09, 1.28) P-gp inhibition by daclatasvir 	Digoxin should be used with caution when coadministere 1 with Daklinza. The lowest do.~ of digoxin should be initially prescribed. The seruen digoxin concentrations should be monitored and used for titration
Amiodarone	Interaction not studied.	of digoxin a setu obtain the desired clinical effect. Use only i no other alternative is av l'able. Close monitoring is recommended if this medicinal product is administered with Daklinza in combination with
Calcium channel blockers		sofosbuvir (see sections 4.4 and 4.8).
Diltiazem Nifedipine Amlodipine	Interaction not studied. Expected due to CYP3. 4 inhibition by the calcium char ine ¹ blocker: ↑ Daclatasvir	Administration of Daklinza with any of these calcium channel blockers may result in increased concentrations of daclatasvir. Caution is advised.
Verapamil	Interaction no. studied. Expected the to CYP3A4 and P-gp inhi, itio 1 by verapamil: D. clatasvir	Administration of Daklinza with verapamil may result in increased concentrations of daclatasvir. Caution is advised.
CORTICOSTEROIDS		·
Systemic dexamethasone	Interaction not studied. <i>Expected due to CYP3A4 induction by</i> <i>dexamethasone:</i> ↓ Daclatasvir	Coadministration of Daklinza with systemic dexamethasone or other strong inducers of CYP3A4 is contraindicated (see section 4.3).
HERBAL SUPPLEMENTS		
St. John's work (Hypericum perforation.)	Interaction not studied. <i>Expected due to CYP3A4 induction by</i> <i>St. John's wort:</i> ↓ Daclatasvir	Coadministration of Daklinza with St. John's wort or other strong inducers of CYP3A4 is contraindicated (see section 4.3)

 Table 4:
 Interactions and dose recommendations with other medicinal products

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
HORMONAL CONTRACEPT	IVES	
Ethinylestradiol 35 μg once daily for 21 days +	↔ Ethinylestradiol AUC: 1.01 (0.95, 1.07)	An oral contraceptive containing ethinylestradiol 35 µg and
norgestimate 0.180/0.215/0.250 mg once	C _{max} : 1.11 (1.02, 1.20)	norgestimate 0.180/0.215/0.250 mg is
daily for 7/7/7 days (daclatasvir 60 mg once daily)	$\leftrightarrow \text{Norelgestromin}$ AUC: 1.12 (1.06, 1.17)	recommended with Dak in 20 Other oral contracep aver have
	C_{max} : 1.06 (0.99, 1.14)	not been studied
IMMUNOSUPPRESSANTS	Cmax. 1.07 (0.39, 1.10)	
Cyclosporine 400 mg single dose	↔ Daclatasvir AUC: 1.40 (1.29, 1.53)	No ¹ cse adjustment of either medicinal product is required
(daclatasvir 60 mg once daily)	$\begin{array}{c} C_{\text{max}}: 1.04 \ (0.94, 1.15) \\ C_{\text{min}}: 1.56 \ (1.41, 1.71) \end{array}$	when Daklinza is coadministered with cyclosporine, tacrolimus,
	↔ Cyclosporine AUC: 1.03 (0.97, 1.09) C_{max} : 0.96 (0.91, 1.02)	sirolimus or mycophenolate mofetil.
Tacrolimus 5 mg single dose (daclatasvir 60 mg once daily)	$\leftrightarrow \text{Daclatasvir} \\ \text{AUC: } 1.05 (1.0; , 1.)7) \\ \text{C}_{\text{max}} : 1.07 (1.02; 1.12) \\ \text{C}_{\text{min}} : 1.10 (1.33, 1.19) \\ \end{cases}$	
	↔ T acrelimus AUC. 1.00 (0.88, 1.13) C 1.05 (0.90, 1.23)	
Sirolimus Mycophenolate mofetil	nteraction not studied. <i>Expected:</i> ↔ Daclatasvir	
LIPID LOWERING A'SENTS	↔ Immunosuppressant	
HMG-CoA re h cu se inhibitors		
Rosuvast tin 10 mg single	↑ Rosuvastatin	Caution should be used when
dose (daclatas vir 60 mg once daily)	AUC: 1.58 (1.44, 1.74) C_{max} : 2.04 (1.83, 2.26)	Daklinza is coadministered with rosuvastatin or other substrates of OATP 1B1 or BCRP.
210	Inhibition of OATP 1B1 and BCRP by daclatasvir	of OATT THE OF DECKL.
Atorvastatin	Interaction not studied.	
Fluvastatin Simvastatin	<i>Expected due to inhibition of</i> <i>OATP 1B1 and/or BCRP by</i>	
Pitavastatin Pravastatin	daclatasvir: \uparrow Concentration of statin	

 Table 4:
 Interactions and dose recommendations with other medicinal products

Medicinal products by therapeutic areas	Interaction	Recommendations concerning coadministration
NARCOTIC ANALGESICS		
Buprenorphine/naloxone,	↔ Daclatasvir	No dose adjustment of Daklinza
8/2 mg to 24/6 mg once daily	AUC: $\leftrightarrow *$	or buprenorphine may be
individualized dose*	$C_{max}: \leftrightarrow^*$	required, but it is recommen lea
(daclatasvir 60 mg once daily)	C_{\min} : \leftrightarrow *	that patients should be monitored for signs of opiat
* Evaluated in opioid-dependent	↑ Buprenorphine	toxicity.
adults on stable	AUC: 1.37 (1.24, 1.52)	
buprenorphine/naloxone	C _{max} : 1.30 (1.03, 1.64)	
maintenance therapy.	C _{min} : 1.17 (1.03, 1.32)	
	↑ Norbuprenorphine	
	AUC: 1.62 (1.30, 2.02)	
	C_{max} : 1.65 (1.38, 1.99)	
	C _{min} : 1.46 (1.12, 1.89)	
	*Compared to historical data.	1
Methadone, 40-120 mg once	↔ Daclatasvir	No dose adjustment of Daklinza
daily individualized dose*	AUC: ↔*	or methadone is required.
(daclatasvir 60 mg once daily)	$C_{max}: \leftrightarrow^*$	
	$C_{\min}: \leftrightarrow^*$	
* Evaluated in opioid-dependent		
adults on stable methadone	↔ R-methadon	
maintenance therapy.	AUC: 1.08 (0.51, 1.24)	
	C _{max} : 1.07 (0.97, 1.18)	
	C_{\min} : 1.6° (0.93, 1.26)	
	*Compared to historical data.	
SEDATIVES		
Benzodiazepines		1
Midazolam 5 mg single do.~	↔ Midazolam	No dose adjustment of
(daclatasvir 60 mg or ce da'ly)	AUC: 0.87 (0.83, 0.92)	midazolam, other
	C _{max} : 0.95 (0.88, 1.04)	benzodiazepines or other
Triazolam	Interaction not studied.	CYP3A4 substrates is required
Alprazolam	Expected:	when coadministered with
	↔ Triazolam	Daklinza.
	↔ Alprazolam	

Table 4: Interactions and dose recommendations with other medicinal products

No choically relevant effects on the pharmacokinetics of either medicinal product are expected when da latasvir is coadministered with any of the following: PDE-5 inhibitors, medicinal products in the NCE inhibitor class (e.g. enalapril), 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

Interaction studies have only been performed in adults.

4.6 Fertility, pregnancy and lactation

Pregnancy

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.

Daklinza 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 Daklinza therapy (see section 4.5).

Since Daklinza is used in combination with other agents, the contraindications and warnings for these medicinal products are applicable.

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

Breast-feeding

It is not known whether daclatasvir is excreted in human milk. Available pharmacokine.ic and toxicological data in animals have shown excretion of daclatasvir and metabolites in h^{ilk} (see section 5.3). A risk to the newborn/infant cannot be excluded. Mothers should be instructed not to breastfeed if they are taking Daklinza.

Fertility

No human data on the effect of daclatasvir on fertility are available. In rats, no effect on mating or fertility was seen (see section 5.3)

4.7 Effects on ability to drive and use machines

Dizziness has been reported during treatment with Daklinza in combination with sofosbuvir, and dizziness, disturbance in attention, blurred vision and recuced visual acuity have been reported during treatment with Daklinza in combination with per interferon alfa and ribavirin.

4.8 Undesirable effects

Summary of the safety profile

The overall safety profile of daclate vh. is based on data from 2215 patients with chronic HCV infection who received Dakling a once daily either in combination with sofosbuvir with or without ribavirin (n=679, pooled dat) or in combination with peginterferon alfa and ribavirin (n=1536, pooled data) from a total of 14 ch vical studies.

Daklinza 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 Daklinza regimen for adverse events, only one of which was considered related to study therapy.

Pak.'inza in combination with peginterferon alfa and ribavirin

The most frequently reported adverse reactions were fatigue, headache, pruritus, anaemia, influenzalike illness, nausea, insomnia, neutropenia, asthenia, rash, decreased appetite, dry skin, alopecia, pyrexia, myalgia, irritability, cough, diarrhoea, dyspnoea and arthralgia. The most frequently reported adverse reactions of at least Grade 3 severity (frequency of 1% or greater) were neutropenia, anaemia, lymphopenia and thrombocytopenia. The safety profile of daclatasvir in combination with peginterferon alfa and ribavirin was similar to that seen with peginterferon alfa and ribavirin alone, including among patients with cirrhosis.

Tabulated list of adverse reactions

Adverse reactions are listed in Table 5 by regimen, system organ class and frequency: very common ($\geq 1/10$), common ($\geq 1/100$ to < 1/10), uncommon ($\geq 1/1,000$ to < 1/100), rare ($\geq 1/10,000$ to < 1/1,000)

and very rare (<1/10,000). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

System Organ Class	Adverse	Reactions
Frequency	Daklinza +sofosbuvir +	Daklinza +sofosbuvir
	ribavirin	_
	N=203	N=476
Blood and lymphatic system disorders		•
very common	anaemia	٠.
Metabolism and nutrition disorders		
common	decreased appetite	
Psychiatric disorders		
common	insomnia, irritability	insomnia
Nervous system disorders		
very common	headache	headache
common	dizziness, migraine	dizzir es migraine
Vascular disorders		0
common	hot flush	
Respiratory, thoracic and mediastinal dis	orders	
common	dyspnoea, dyspnoea	
	exertional, cough, nas al	
	congestion	
Gastrointestinal disorders		
very common	nausea	
common	diarrhoea, von iting,	nausea, diarrhoea,
	abdor iina pain,	abdominal pain
	geou voesophageal reflux	
	dis ease, constipation, dry	
	mouth, flatulence	
Skin and subcutaneous tissue disord(rs		
common	rash, alopecia, pruritus,	
	dry skin	
Musculoskeletal and connective to sue dis		
common	arthralgia, myalgia	arthralgia, myalgia
General disorders and dministration site		
very common	fatigue	fatigue

Table 5:Adverse reactions in clinical studies

Laboratory abnormalities

In clinical studies f Daklinza in combination with sofosbuvir with or without ribavirin, 2% of patients had Grade 3 record globin decreases; all of these patients received Daklinza + sofosbuvir + ribavirin. Grade 3.4 r creases in total bilirubin were observed in 5% of patients (all in patients with HIV co-infection who were receiving concomitant atazanavir, with Child-Pugh A, B, or C cirrhosis, or who ver post-liver transplant).

Description of selected adverse reactions

Cardiac arrhythmias

Cases of severe bradycardia and heart block have been observed when Daklinza 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 Daklinza 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 monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in <u>Appendix V</u>.

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 move use weight >500, dialysis is unlikely to significantly reduce plasma concentrations of daclatasvir.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Direct-acting antiviral, ATC code: J05. Po7

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. Dack tasvir inhibits both viral RNA replication and virion assembly.

Antiviral activity in cell culture

Daclatasvir is an inhibitor of HCV genotypes 1a and 1b replication in cell-based replicon assays with effective concentration (50% reduction, EC_{50} , values of 0.003-0.050 and 0.001-0.009 nM, respectively, depending on the assay method. The daclatasvir EC_{50} values in the replicon system were 0.003-1.25 nM for genotypes 3a, 4a, 5a and 6a, and 0.034-19 nM for genotype 2a as well as 0.020 nM for infectious genotype 2a (JFH-1) virus.

Daclatasvir showed additive to s, ne gistic interactions with interferon alfa, HCV nonstructural protein 3 (NS3) PIs, HCV nonstructural protein 5B (NS5B) non-nucleoside inhibitors, and HCV NS5B nucleoside analogues in combination studies using the cell-based HCV replicon system. No antagonism of antivir 1 ac ivity was observed.

No clinically relevant an iviral activity was observed against a variety of RNA and DNA viruses, including HIV confirming that daclatasvir, which inhibits a HCV-specific target, is highly selective for HCV.

Resistance n cell culture

Substitutions conferring daclatasvir resistance in genotypes 1-4 were observed in the N-terminal 100 a mu o acid region of NS5A in a cell-based replicon system. L31V and Y93H were frequently observed resistance substitutions in genotype 1b, while M28T, L31V/M, Q30E/H/R, and Y93C/H/N were frequently observed resistance substitutions in genotype 1a. These substitutions conferred low level resistance ($EC_{50} < 1$ nM) for genotype 1b, and higher levels of resistance for genotype 1a (EC_{50} up to 350 nM). The most resistant variants with single amino acid substitution in genotype 2a and genotype 3a were F28S ($EC_{50} > 300$ nM) and Y93H ($EC_{50} > 1,000$ nM), respectively. In genotype 4, amino acid substitutions at 30 and 93 ($EC_{50} < 16$ nM) were frequently selected.

Cross-resistance

HCV replicons expressing daclatasvir-associated resistance substitutions remained fully sensitive to interferon alfa and other anti-HCV agents with different mechanisms of action, such as NS3 protease and NS5B polymerase (nucleoside and non-nucleoside) inhibitors.

Clinical efficacy and safety

In the majority of clinical studies of daclatasvir in combination with sofosbuvir or with peginterferon alfa and ribavirin, plasma HCV RNA values were measured using the COBAS TaqMan HCV test (version 2.0), for use with the High Pure System, with a lower limit of quantification (LLOQ) of 25 IU/ ml. HCV RNA values in the ALLY-3C (AI444379) study were measured using the Roche COBAS® AmpliPrep/COBAS® TaqMan® HCV Test (version 2.0), with an LLOQ of 15 IU/mL. SVR was the primary endpoint to determine the HCV cure rate, which was defined as HCV RNA less than LLOQ at 12 weeks after the end of treatment (SVR12) for studies AI444040, ALLY-1 (AI444215), ALLY-2 (AI444216), ALLY-3 (AI444218), ALLY-3C (AI444379), AI444042 and AI444043 and as HCV RNA undetectable at 24 weeks after the end of treatment (SVR24) for study AI444010.

Daclatasvir in combination with sofosbuvir

The efficacy and safety of daclatasvir 60 mg once daily in combination with sofosbuvir $4^{(1)}$ mg once daily in the treatment of patients with chronic HCV infection were evaluated in five open-lacel studies (AI444040, ALLY-1, ALLY-2, ALLY-3, and ALLY-3C).

In study AI444040, 211 adults with HCV genotype 1, 2, or 3 infection and withou c rhosis received daclatasvir and sofosbuvir, with or without ribavirin. Among the 167 patients with HCV genotype 1 infection, 126 were treatment-naïve and 41 had failed prior therapy with \therefore PL egimen (boceprevir or telaprevir). All 44 patients with HCV genotype 2 (n=26) or 3 (n=18) int. tic n were treatment-naïve. Treatment duration was 12 weeks for 82 treatment-naïve HCV genc ypc 1 patients, and 24 weeks for all other patients in the study. The 211 patients had a median age of 51 years (range: 20 to 70); 83% were white; 12% were black/African-American; 2% were Asian, 20% were Hispanic or Latino. The mean score on the FibroTest (a validated non-invasive diagt ost) assay) was 0.460 (range: 0.03 to 0.89). Conversion of the FibroTest score to the corresponding METAVIR score suggests that 35% of all patients (49% of patients with prior PI failure, 30% of patients with genotype 2 or 3) had \geq F3 liver fibrosis. Most patients (71%, including 98% of prior PI failures) had IL-28B rs12979860 non-CC genotypes.

SVR12 was achieved by 99% patients with h CV genotype 1, 96% of those with genotype 2 and 89% of those with genotype 3 (see Tables 6 a. d.7). Response was rapid (viral load at Week 4 showed that more than 97% of patients responded to herapy), and was not influenced by HCV subtype (1a/1b), IL28B genotype, or use of ribavirin. Among treatment-naïve patients with HCV RNA results at both follow-up Weeks 12 and 24, concorcance between SVR12 and SVR24 was 99.5% independent of treatment duration.

Treatment-naïve patients with HCV genotype 1 who received 12 weeks of treatment had a similar response as those treated for 24 weeks (Table 6).

	r	Freatment-naïv	e	Prior telap	revir or bocepre	vir failures
dich	daclatasvir + sofosbuvir N=70	daclatasvir + sofosbuvir + ribavirin N=56	All N=126	daclatasvir + sofosbuvir N=21	daclatasvir + sofosbuvir + ribavirin N=20	All N=41
End of treatment HCV RNA undetectable	70 (100%)	56 (100%)	126 (100%)	19 (91%)	19 (95%)	38 (93%)
SVR12 (overall)*	70 (100%)	55 (98%)*	125 (99%)*	21 (100%)	20 (100%)	41 (100%)
12 weeks treatment duration	41/41 (100%)	40/41 (98%)	81/82 (99%)			

Table 6: Tractment outcomes, daclatasvir in combination with sofosbuvir, HCV genotype 1 in Surdy AI444040

		Freatment-naïve		Prior telap	revir or bocepre	evir failures
	daclatasvir + sofosbuvir N=70	daclatasvir + sofosbuvir + ribavirin N=56	All N=126	daclatasvir + sofosbuvir N=21	daclatasvir + sofosbuvir + ribavirin N=20	All N=41
24 weeks treatment duration	29/29 (100%)	15/15 (100%)	44/44 (100%)	21 (100%)	20 (100%)	41 (100%)
≥ F3 liver fibrosis			41/41 (100%)			20/20 (120%)

Table 6:Treatment outcomes, daclatasvir in combination with sofosbuvir, HCV genotype 1 in
Study AI444040

Patients who had missing data at follow-up Week 12 were considered responders if their next available HCV RNA value was <LLOQ. One treatment-naïve patient was missing both post-treatment were shared 24 data.

Table 7:	Treatment outcomes, daclatasvir in combination with sofosbuvir for 24 weeks,
	treatment-naïve patients with HCV genotype 2 or 3 in Study AI 14 1 10

	daclatasvir + sofosbuvir	Genotype 2 daclatasvir + sofosbuvir	All Genotype 2	dacla, svj + ofo buvir	Genotype 3 daclatasvir + sofosbuvir	All Genotype 3
	N=17	+ ribavirin N=9	N=26	N=1.	+ ribavirin N=5	N=18
End of treatment HCV RNA undetectable	17 (100%)	9 (100%)	26 (167%)	11 (85%)	5 (100%)	16 (89%)
SVR12*	17 (100%)	8 (89%)*	25 (1 6%)*	11 (85%)	5 (100%)	16 (89%)
≥ F3 liver fibrosis		×	8/8 (100%)			5/5 (100%)
Virologic failure						
Virologic breakthrough**	0	0	0	1 (8%)	0	1 (6%)
Relapse**	0	0	0	1/11 (9%)	0	1/16 (6%)

* Patients who had mis ing da a at follow-up Week 12 were considered responders if their next available HCV RNA value was ULOQ. One patient with HCV genotype 2 infection was missing both posttreatment Week 2 and 24 data.

** The patient with vin logic breakthrough met the original protocol definition of confirmed HCV RNA <LLOQ, detection of the streatment Week 8. Relapse was defined as HCV RNA ≥LLOQ during follow-up after HCV RNA <LLOQ at end of treatment. Relapse includes observations through follow-up Week 24.</p>

Advance d cirrhosis and post-liver transplant (ALLY-1)

In st dy ALLY-1, the regimen of daclatasvir, sofosbuvir, and ribavirin administered for 12 weeks was evaluated in 113 adults with chronic hepatitis C and Child-Pugh A, B or C cirrhosis (n=60) or HCV recorrence after liver transplantation (n=53). Patients with HCV genotype 1, 2, 3, 4, 5 or 6 infection were eligible to enroll. Patients received daclatasvir 60 mg once daily, sofosbuvir 400 mg once daily, and ribavirin (600 mg starting dose) for 12 weeks and were monitored for 24 weeks post treatment. Patients demographics and main disease characteristics are summarised in Table 8.

Table 8:	Demographics a	nd main disease	characteristics in	Study ALLY-1
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	Cirrhotic cohort N = 60	Post-Liver Transplant N = 53
Age (years): median (range)	58 (19-75)	59 (22-82)
Race: White	57 (95%)	51 (96%)

	Cirrhotic cohort	Post-Liver Transplant
	$\mathbf{N}=60$	N = 53
Black/African	3 (5%)	1 (2%)
merican		
Other	0	1 (2%)
CV genotype:		
1a	34 (57%)	31 (58%)
1b	11 (18%)	10 (19%)
2	5 (8%)	0
2 3	6 (10%)	11 (21%)
4	4 (7%)	0
6	0	1 (2%)
brosis stage		
F0	0	6 (11%)
F1	1 (2%)	10 (19%)
F2	3 (5%)	7 (1.2%)
F3	8 (13%)	15 (25%)
F4	48 (80%)	16 (50%)
ot reported	0	1 (2%)
P classes		ND
CP A	12 (20%)	
CP B	32 (53%)	\sim
CP C	16 (27%)	
ELD score		ND
mean	13.3	
median	13.0	
Q1, Q3	10,16	
Min, Max	8, 27	
: Not determined		

Table 8: Der	nographics and	l main disease	characteristics in	Study ALLY-1
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SVR12 was achieved by 83% (50/60) of patients in the cirrhosis cohort, with a marked difference between patients with Child-Pugh A or 5 (92-94%) as compared to those with Child-Pugh C and 94% of patients in the post-liver transplan, cohort (Table 9). SVR rates were comparable regardless of age, race, gender, IL28B allele stitus, or baseline HCV RNA level. In the cirrhosis cohort, 4 patients with hepatocellular carcinoma inder went liver transplantation after 1–71 days of treatment; 3 of the 4 patients received 12 weeks of post-liver transplant treatment extension and 1 patient, treated for 23 days before transplantation, did not receive treatment extension. All 4 patients achieved SVR12.

Table 9: Treat nent outcomes, daclatasvir in combination with sofosbuvir and ribavirin for 12 weeks, patients with cirrhosis or HCV recurrence after liver transplantation, Study ALLY-1

XIU.	Cirrhotic N=		Post-LiverT N=:	-
End of treatment HCV RNA undetectable	58/60 ((97%)	53/53 (100%)
	SVR12	Relapse	SVR12	Relapse
All patients	50/60 (83%)	9/58* (16%)	50/53 (94%)	3/53 (6%)
Cirrhosis			ND	ND
CP A	11/12 (92%)	1/12 (8%)		

	Cirrhotic	cohort	Post-LiverT	ransplant
	N=6	50	N=	53
CP B	30/32 (94%)	2/32 (6%)		
CP C	9/16 (56%)	6/14 (43%)		
Genotype 1	37/45 (82%)	7/45 (16%)	39/41 (95%)	2/41 (5%)
1a	26/34 (77%)	7/33 (21%)	30/31 (97%)	1/31 (3%)
1b	11/11 (100%)	0%	9/10 (90%)	1/10 (10%)
Genotype 2	4/5 (80%)	1/5 (20%)		
Genotype 3	5/6 (83%)	1/6 (17%)	10/11 (91%)	1/11 (9%)
Genotype 4	4/4 (100%)	0%	-	
Genotype 6			1/1 (100%)	0%

Table 9:Treatment outcomes, daclatasvir in combination with sofosbuvir and ribavirin for
12 weeks, patients with cirrhosis or HCV recurrence after liver transplantation,
Study ALLY-1

ND: Not determined

* 2 patients had detectable HCV RNA at end of treatment; 1 of these patients achieved SVR.

HCV/HIV co-infection (ALLY-2)

In study ALLY-2, the combination of daclatasvir and sofosbuvir ad pinic ered for 12 weeks was evaluated in 153 adults with chronic hepatitis C and HIV comfrection; 101 patients were HCV treatment-naïve and 52 patients had failed prior HCV the properties with HCV genotype 1, 2, 3, 4, 5, or 6 infection were eligible to enroll, including patients with compensated cirrhosis (Child-Pugh A). The dose of daclatasvir was adjusted for concomitant antiretroviral use. Patient demographics and baseline disease characteristics are cummarised in Table 10.

Patient disposition	daclatasvir + sofosbuvir 12 weeks N = 153
Age (years): median (range)	53 (24-71)
Race:	97 (63%)
Black/African American	50 (33%)
Other	6 (4%)
HCV genoty ie: 1a	104 (68%)
1b	23 (15%)
2	13 (8%)
3	10 (7%)
4	3 (2%)
Compensated cirrhosis	24 (16%)
Concomitant HIV therapy:	
PI-based	70 (46%)
NNRTI-based	40 (26%)
Other	41 (27%)
None	2 (1%)

Table 10: Demographics and baseline c. aracteristics in Study ALLY-2

Overall, SVR12 was achieved by 97% (149/153) of patients administered daclatasvir and sofosbuvir for 12 weeks in ALLY-2. SVR rates were >94% across combination antiretroviral therapy (cART) regimens, including boosted-PI-, NNRTI-, and integrase inhibitor (INSTI)-based therapies.

SVR rates were comparable regardless of HIV regimen, age, race, gender, IL28B allele status, or baseline HCV RNA level. Outcomes by prior treatment experience are presented in Table 11.

A third treatment group in study ALLY-2 included 50 HCV treatment-naïve HIV co-infected patients who received daclatasvir and sofosbuvir for 8 weeks. Demographic and baseline characteristics of these 50 patients were generally comparable to those for patients who received 12 weeks of study treatment. The SVR rate for patients treated for 8 weeks was lower with this treatment duration as summarized in Table 11.

	8 weeks therapy	12 week	12 weeks therapy		
	HCV Treatment- naïve N=50	HCV Treatment- naïve N=101	HCV Treatmen [*] experien [*] :d [*] N=5. [°]		
End of treatment HCV RNA undetectable	50/50 (100%)	100/101 (99%)	52 52 (100%)		
SVR12	38/50 (76%)	98/101 (97%)	51/52 (98%)		
No cirrhosis**	34/44 (77%)	88/90 (98%)	34/34 (100%)		
With cirrhosis**	3/5 (60%)	8/9 (89%)	14/15 (93%)		
Genotype 1	31/41 (76%)	80/83 (96%)	43/44 (98%)		
1a	28/35 (80%)	58/71 (96%)	32/33 (97%)		
1b	3/6 (50%)	12/12 (100%)	11/11 (100%)		
Genotype 2	5/6 (83%)	11/11 (100%)	2/2 (100%)		
Genotype 3	2/3 (67%)	6/6 (100%)	4/4 (100%)		
Genotype 4	6	1/1 (100%)	2/2 (100%)		
Virologic failure					
Detectable HCV RNA at end of treatment		1/101 (1%)	0		
Relapse	10/50 (20%)	1/100 (1%)	1/52 (2%)		
Missing post-treatment data	2/50 (4%)	1/101 (1%)	0		

Table 11: Treatment outcomes, daclatasvir in combination with sofosbuvir in patients with HCV/HIV co-infection in Study ALLY-2

* Mainly j as rfc. on-based therapy +/-NS3/4 PI.

* Cirrhosis var determined by liver biopsy, FibroScan >14.6 kPa, or FibroTest score ≥ 0.75 and aspartate omit otransferase (AST): platelet ratio index (APRI) >2. For 5 patients, cirrhosis status was indeterminate.

ECV Ge. otype 3 (ALLY-3)

It story ALLY-3, the combination of daclatasvir and sofosbuvir administered for 12 weeks was evaluated in 152 adults infected with HCV genotype 3; 101 patients were treatment-naïve and 51 patients had failed prior antiviral therapy. Median age was 55 years (range: 24 to 73); 90% of patients were white; 4% were black/African-American; 5% were Asian; 16% were Hispanic or Latino. The median viral load was 6.42 log₁₀ IU/ml, and 21% of patients had compensated cirrhosis. Most patients (61%) had IL-28B rs12979860 non-CC genotypes.

SVR12 was achieved in 90% of treatment-naïve patients and 86% of treatment-experienced patients. Response was rapid (viral load at Week 4 showed that more than 95% of patients responded to therapy) and was not influenced by IL28B genotype. SVR12 rates were lower among patients with cirrhosis (see Table 12).

	Treatment-naïve N=101	Treatment- experienced* N=51	Total N=152
End of treatment ICV RNA undetectable	100 (99%)	51 (100%)	151 (99%)
VR12	91 (90%)	44 (86%)	135 (89%)
No cirrhosis**	73/75 (97%)	32/34 (94%)	105/109 (96%)
With cirrhosis**	11/19 (58%)	9/13 (69%)	20/32 (63%)
irologic failure			
irologic breakthrough	0	0	0
Detectable HCV RNA at end of reatment	1 (1%)	0	1 (0.7%)
Relapse	9/100 (9%)	7/51 (14%)	16/151 (11%)

Table 12: Treatment outcomes, daclatasvir in combination with sofosbuvir for 12 weeks, patients with HCV genotype 3 in Study ALLY-3

* Mainly interferon-based therapy, but 7 patients received sofosbuvir + ribavin and 2 patients received a cyclophilin inhibitor.

** Cirrhosis was determined by liver biopsy (METAVIR F4) for 14 patients, E'oroScan >14.6 kPa for 11 patients or FibroTest score ≥0.75 and aspartate aminotransferase (AS.7): platelet ratio index (APRI)
>2 for 7 patients. For 11 patients, cirrhosis status was missing of in onclusive (FibroTest score >0.48 to <0.75 or APRI >1 to ≤2).

HCV Genotype 3 with compensated cirrhosis (ALLY-3C)

In study ALLY-3C, the combination of daclatasvir, soft sbuvir and ribavirin administered for 24 weeks was evaluated in 78 adults infected with HCV genotype 3 with compensated cirrhosis; the majority of patients were male (57 [73.1%]), median age was 55 years (range 33 to 70); 88.5% were white; 9.0% were Asian; and 2.6% wire American Indian or Alaska native; 54 (69.2%) patients were treatment-naïve and 24 (30.8%) patients were treatment-experienced. The overall median HCV RNA was 6.38 log₁₀ IU/mL; the moder of patients (59%) had IL-28B rs12979860 non-CC genotypes. Seventy-seven (77 [98.7%]) of treated patients in this study were infected with HCV GT-3a, and 1 patient (1.3%) was infected with HCV GT-3b.

The SVR12 rates were achieved by 88.5% of patients, including 92.6% of treatment-naïve and 79.2% of treatment-experienced patients (see Table 13). SVR12 rates were consistently high across most subgroups including g and r, age, race, baseline HCV RNA, and IL28B genotype. All 3 HCV/HIV co-infected patients achieved SVR12.

Table 13: Teratment outcomes, daclatasvir in combination with sofosbuvir and ribavirin for 2-' weeks, HCV genotype 3 patients with cirrhosis in Study ALLY-3C

XICI	Treatment-naïve N=54	Treatment- experienced N=24	Total N=78
End of treatment HCV RNA undetectable	54/54 (100.0%)	21/24 (87.5%)	75/78 (96.2%)
Responder (SVR12)	50/54 (92.6%)	19/24 (79.2%)	69/78 (88.5%)*
Non-responder (non-SVR12)	4/54 (7.4%)	5/24 (20.8%)	9/78 (11.5%)
Virologic failure			
Virologic breakthrough	0	0	0

	Treatment-naïve N=54	Treatment- experienced N=24	Total N=78
Detectable HCV RNA at end of treatment	0	2/24 (8.3%)	2/78 (2.6%)
Relapse	0	2/21 (9.5%)	2/75 (2.7%)
Non-virologic failure			+_(
Other non-responder**	4/54 (7.4%)	0	4/78 (5.1%)
No HCV RNA on treatment	0	1/24 (4.2%)	1/78 (1 3 %)

Table 13: Treatment outcomes, daclatasvir in combination with sofosbuvir and ribavirin for24 weeks, HCV genotype 3 patients with cirrhosis in Study ALLY-3C

* One treatment-experienced patient achieved SVR12 per local HCV RNA results.

** Other non-responders included 4 patients with HCV RNA < LLOQ target not detected (TNL) at end of treatment, but who were lost to follow-up at post-treatment Week 12 and subsequent time points, and 1 patient who had no on-treatment HCV RNA results due to early discontinuation.</p>

Compassionate Use

Patients with HCV infection (across genotypes) at high risk of decompendation or death within 12 months if left untreated were treated under compassionate use programmes. Patients with genotype 3 infection were treated with daclatasvir + sofosbuvir -/-ibavir in for 12 or 24 weeks, where the longer treatment duration was associated with a lower risk for relapse (around 5%) in a preliminary analysis. The relevance of including ribavirin as part of the 24-week regimen is unclear. In one cohort the majority of patients were treated with daclatasvir + sofo buvir + ribavirin for 12 weeks. The relapse rate was around 15%, and similar for patients with Child-Pugh A, B and C. The programmes do not allow for a direct comparison of efficacy how of the 12- and 24-week regimens.

Daclatasvir in combination with peginterfe on alfa and ribavirin

AI444042 and AI444010 were randomis at, double-blind studies that evaluated the efficacy and safety of daclatasvir in combination with peginum form alfa and ribavirin (pegIFN/RBV) in the treatment of chronic HCV infection in treatment are adults with compensated liver disease (including cirrhosis). AI444042 enrolled patients with HCV genotype 4 infection and AI444010 enrolled patients with either genotype 1 or 4. AI44/0-13 and an open-label, single-arm study of daclatasvir with pegIFN/RBV in treatment are veradults with chronic HCV genotype 1 infection who were co-infected with HIV.

AI444042: Patien's received daclatasvir 60 mg once daily (n=82) or placebo (n=42) plus pegIFN/RBV for 24 weeks. Fallen's in the daclatasvir treatment group who did not have HCV RNA undetectable at both Weeks 4 and 12 and all placebo-treated patients continued pegIFN/RBV for another 24 weeks. Treated patients had a median age of 49 years (range: 20 to 71); 77% of patients were white; 19% were black/African-American; 4% were Hispanic or Latino. Ten percent of patients had compensated circle sis. and 75% of patients had IL-28B rs12979860 non-CC genotypes. Treatment outcomes in c. vd. AI444042 are presented in Table 14. Response was rapid (at Week 4 91% of daclatasvir-treated patients had HCV RNA <LLOQ). SVR12 rates were higher for patients with the IL-28B CC genotype than for those with non-CC genotypes and for patients with baseline HCV RNA less than 800,000 IU/ml but consistently higher in the daclatasvir-treated patients than for placebo-treated patients in all subgroups.

AI444010: Patients received daclatasvir 60 mg once daily (n=158) or placebo (n=78) plus pegIFN/RBV through Week 12. Patients assigned to daclatasvir 60 mg once-daily treatment group who had HCV RNA <LLOQ at Week 4 and undetectable at Week 10 were then randomised to receive another 12 weeks of daclatasvir 60 mg + pegIFN/RBV or placebo + pegIFN/RBV for a total treatment duration of 24 weeks. Patients originally assigned to placebo and those in the daclatasvir group who did not achieve HCV RNA <LLOQ at Week 4 and undetectable at Week 10 continued pegIFN/RBV

to complete 48 weeks of treatment. Treated patients had a median age of 50 years (range: 18 to 67); 79% of patients were white: 13% were black/African-American; 1% were Asian; 9% were Hispanic or Latino. Seven percent of patients had compensated cirrhosis; 92% had HCV genotype 1 (72% 1a and 20% 1b) and 8% had HCV genotype 4; 65% of patients had IL-28B rs12979860 non-CC genotypes.

Treatment outcomes in study AI444010 for patients with HCV genotype 4 are presented in Table 14. ised For HCV genotype 1, SVR12 rates were 64% (54% for 1a; 84% for 1b) for patients treated with daclatasvir + pegIFN/RBV and 36% for patients treated with placebo + pegIFN/RBV. For daclatasvirtreated patients with HCV RNA results at both follow-up Weeks 12 and 24, concordance of SVR12 and SVR24 was 97% for HCV genotype 1 and 100% for HCV genotype 4.

	Study AI444042		Study AI444019	
	daclatasvir + pegIFN/RBV	pegIFN/RB V	daclatasvir + pegIFN/RBV	oerth N/RB V
	N=82	N=42	N=12	N=6
End of treatment			~ ~ ~	
HCV RNA undetectable	74 (90%)	27 (64%)	12 (10)%)	4 (67%)
SVR12*	67 (82%)	18 (43%)	12 (1 00%)	3 (50%)
No cirrhosis	56/69 (81%)**	17/38 (45%)	12/12 (100%)	3/6 (50%)
With cirrhosis	7/9 (78%)**	1/4 (25%)	0	0
Virologic failure				
On-treatment virologic failure	8 (10%)	15 (36%)	0	0
Relapse	2/74 (3%)	9 _{8/27 (30%)}	0	1/4 (25%)

Treatment outcomes, daclatasvir in combination with peginterferon alfa and Table 14: ribavirin (pegIFN/RBV), treatment-naïve patients with HCV genotype 4

Patients who had missing data t 1 w-up Week 12 were considered responders if their next available HCV RNA value was <LLO 7.

** Cirrhosis status was not reported for four patients in the daclatasvir + pegIFN/RBV group.

AI444043: 301 treatman, n. ve patients with HCV genotype 1 infection and HIV co-infection (10% with compensated c rrhosis) were treated with daclatasvir in combination with pegIFN/RBV. The dose of dacla, svir was 60 mg once daily, with dose adjustments for concomitant antiretroviral use (see section 4.5). Patients achieving virologic response [HCV RNA undetectable at weeks 4 and 12] comple of therapy after 24 weeks while those who did not achieve virologic response received an additional 24 weeks of treatment with pegIFN/RBV, to complete a total of 48 weeks of study thera y. SVR12 was achieved by 74% of patients in this study (genotype 1a: 70%, genotype 1b: 79%).

Long term efficacy data

Data are available from a completed follow-up study to assess durability of response for approximately 3 years after treatment with daclatasvir. Among 258 patients who achieved SVR12 with daclatasvir and sofosbuvir (± ribavirin) 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 \geq LLOQ). Among 302 patients who achieved SVR12 with daclatasvir + pegIFN/RBV with a median duration of post-SVR12 follow-up of 44 months, 2% (n=6) of patients relapsed.

Resistance in clinical studies

Frequency of baseline NS5A resistance-associated variants (RAVs)

Baseline NS5A RAVs were frequently observed in clinical studies of daclatasvir. In 9 phase 2/3 studies with daclatasvir in combination with peginterferon alfa + ribavirin or in combination with sofosbuvir +/- ribavirin, the following frequencies of such RAVs were seen at baseline: 7% in genotype 1a infection (M28T, Q30, L31, and/or Y93), 11% in genotype 1b infection (L31 and/or Y93H), 51% in genotype 2 infection (L31M), 8% in genotype 3 infection (Y93H) and 64% in genotype 4 infection (L28 and/or L30).

Daclatasvir in combination with sofosbuvir

Impact of baseline NS5A RAVs on cure rates

The baseline NS5A RAVs described above had no major impact on cure rates in patients treated with sofosbuvir + daclatasvir +/- ribavirin, 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 (without ribavirin) in the presence and absence of the Y93H RAV was 7/13 (54%) and 134/145 (92%), respectively. There was no Y93H RAV present at baseline for genotype-3 infected patients treated for 12-weeks with sofosbuvir + daclatasvir + ribavirin, and thus SVR outcome cannot be assessed.

Emerging resistance

In a pooled analysis of 629 patients who received daclatasvir and sofosbuvir with or without ribavirin in Phase 2 and 3 studies for 12 or 24 weeks, 34 patients qualified for resistance analysis due to virologic failure or early study discontinuation and having HCV RNA grouter than 1,000 IU/ml. Observed emergent NS5A resistance-associated variants are reported in Table 15.

Catagory/Substitution n (0/)	Genotype 1a	Genotype 1b	Genotype 2	Genotype 3
Category/ Substitution, n (%)	N=301	N=79	N=44	N=197
Non-responders (non-SVR12)	14*	1	2*	21**
with baseline and post- baseline sequence	12	1	1	20
with emergent NS5A RAVs***	16 (53%)	1 (100%)	0	16 (80%)
M28: T	2 (17%)			0
Q30: H, K, R	9 (75%)			
L31: I, M, V	2 (17%)	0	0	1 (5%)
P32-deletion	0	1 (100%)	0	0
H58: D, P	2 (17%)			
S62: Z				2 (10%)
¥95° C, H, N	2 (17%)	0	0	11 (55%)

Table 15:Summary of noted newly emergent HCV NS5A substitutions on treatment or
during follow-up in treated non-SVR12 subjects infected with HCV genotypes 1
through 3

Tat. nt(s) lost to follow-up

On patient considered a protocol failure (non-SVR) achieved SVR

NS5A RAVs monitored at amino acid positions are 28, 29, 30, 31, 32, 58, 62, 92, and 93

The sofosbuvir resistance-associated substitution S282T emerged in only 1 non-SVR12 patient infected with genotype 3.

Emergent daclatasvir resistance-associated substitutions have been shown to persist for 3 years posttreatment and beyond for patients treated with daclatasvir-based regimens.

Daclatasvir in combination with peginterferon alfa and ribavirin

Baseline NS5A RAVs (at M28T, Q30, L31, and Y93 for genotype 1a; at L31 and Y93 for genotype 1b) increase the risk for non-response in treatment-naive patients infected with genotype 1a

and genotype 1b infection. The impact of baseline NS5A RAVs on cure rates of genotype 4 infection is not apparent.

In case of non-response to therapy with daclatasvir + peginterferon alfa + ribavirin, NS5A RAVs generally emerged at failure (139/153 genotype 1a and 49/57 genotype 1b). The most frequently detected NS5A RAVs included Q30E or Q30R in combination with L31M. The majority of genotype 1a failures had emergent NS5A variants detected at Q30 (127/139 [91%]), and the majority of genotype 1b failures had emergent NS5A variants detected at L31 (37/49 [76%]) and/or Y93H (34/49 [69%]). In limited numbers of genotype 4-infected patients with non-response, substitutions L28M and L30H/S were detected at failure.

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with daclatasvir in one or more subsets of the paediatric population in the treatment of chronic hepa itis C (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

The pharmacokinetic properties of daclatasvir were evaluated in healthy adult subjects and in patients with chronic HCV. Following multiple oral doses of daclatasvir 60 mg once daily in combination with peginterferon alfa and ribavirin in treatment-naïve patients with genotype 1 chronic HCV, the geometric mean (CV%) daclatasvir C_{max} was 1534 (58) ng/ml, AUC_{0-24h} v.as 14122 (70) ng•h/ml, and C_{min} was 232 (83) ng/ml.

Absorption

Daclatasvir administered as a tablet was readily absorbed fc lowing multiple oral doses with peak plasma concentrations occurring between 1 and 2 hours.

Daclatasvir C_{max} , AUC, and C_{min} increased in a near 2∞ -proportional manner. Steady state was achieved after 4 days of once-daily administration At the 60 mg dose, exposure to daclatasvir was similar between healthy subjects and HCV-infected patients.

In vitro and *in vivo* studies showed that dat atasyn is a substrate of P-gp. The absolute bioavailability of the tablet formulation is 67%.

Effect of food on oral absorption

In healthy subjects, administration of caclatasvir 60 mg tablet after a high-fat meal decreased daclatasvir C_{max} and AUC by 28% and 23%, respectively, compared with administration under fasting conditions. Administration of da latasvir 60 mg tablet after a light meal resulted in no reduction in daclatasvir exposure.

Distribution

At steady state $_{\rm r}$ roke in binding of daclatasvir in HCV-infected patients was approximately 99% and independent of the case at the dose range studied (1 mg to 100 mg). In patients who received daclatasvir 60 mg tablet change followed by 100 µg [13 C, 15 N]-daclatasvir intravenous dose, estimated volume of distribution of steady state was 47 l. *In vitro* studies indicate that daclatasvir is actively and passively transport a into hepatocytes. The active transport is mediated by OCT1 and other unidentified uptake can porters, but not by organic anion transporter (OAT) 2, sodium-taurocholate cotransporting pol peptide (NTCP), or OATPs.

Daclatasvir is an inhibitor of P-gp, OATP 1B1 and BCRP. *In vitro* 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.

Biotransformation

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. No metabolites circulated at levels more than 5% of the parent concentration. Daclatasvir *in vitro* did not inhibit (IC₅₀ >40 μ M) CYP enzymes 1A2, 2B6, 2C8, 2C9, 2C19, or 2D6.

Elimination

Following single-dose oral administration of ¹⁴C–daclatasvir in healthy subjects, 88% of total radioactivity was recovered in feces (53% as unchanged drug) and 6.6% was excreted in the urine (primarily as unchanged drug). These data indicate that the liver is the major clearance organ for daclatasvir in humans. *In vitro* studies indicate that daclatasvir is actively and passively transported into hepatocytes. The active transport is mediated by OCT1 and other unidentified uptake transporters. Following multiple-dose administration of daclatasvir in HCV-infected patients, the terminal elimination half-life of daclatasvir ranged from 12 to 15 hours. In patients who received daclatasvir 60 mg tablet orally followed by 100 µg [¹³C,¹⁵N]-daclatasvir intravenous dose, the total clearance was 4.24 l/h.

Special populations

Renal impairment

The pharmacokinetics of daclatasvir following a single 60 mg oral dose were studied in here. A vinfected subjects with renal impairment. Daclatasvir unbound AUC was estimated to be '8%' 39% and 51% higher for subjects with creatinine clearance (CLcr) values of 60, 30 and 15 ml/mi. respectively, relative to subjects with normal renal function. Subjects with end-stage renal disease reguiring haemodialysis had a 27% increase in daclatasvir AUC and a 20% increase in unboard AUC compared to subjects with normal renal function (see section 4.2).

Hepatic impairment

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

Elderly

Population pharmacokinetic analysis of data from clinical studies indicated that age had no apparent effect on the pharmacokinetics of daclata ir.

Paediatric population

The pharmacokinetics of daclata vir: in paediatric patients have not been evaluated.

Gender

Population pharmacokine is analysis identified gender as a statistically significant covariate on daclatasvir apparent c al clearance (CL/F) with female subjects having slightly lower CL/F, but the magnitude of the effect subjects and clearance is not clinically important.

Race

Population phyrmacokinetic 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 ducla tasy if apparent oral clearance (CL/F) and apparent volume of distribution (Vc/F) resulting in stig. thy nigher exposures compared to white patients, but the magnitude of the effect on daclatasvir exp sure is not clinically important.

5.3 Preclinical safety data

Toxicology

In repeat-dose toxicology studies in animals, hepatic effects (Kupffer-cell hypertrophy/ hyperplasia, mononuclear cell infiltrates and bile duct hyperplasia) and adrenal gland effects (changes 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.

Carcinogenesis and mutagenesis

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, mammalian mutation assays in Chinese hamster ovary cells, or in an *in vivo* oral micronucleus study in rats.

Fertility

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 or the number of viable conceptuses sired. The AUC associated with this dose in males is 19-fold the clinical AUC exposure.

Embryo-foetal development

Daclatasvir is embryotoxic and teratogenic in rats and rabbits at exposures at or above 4 ford (rat) and 16-fold (rabbit) the clinical AUC exposure. Developmental toxicity consisted of increased dembryofoetal lethality, reduced foetal body weights and increased incidence of for a malformations and variations. In rats, malformations mainly affected the brain, skull, eyes, cars, 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 viss loted 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 no ther 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 an prioring 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.

Excretion into milk

Daclatasvir was excreted into the milk of lac ating rats with concentrations 1.7- to 2-fold maternal plasma levels.

6. PHARMACEUTICAL FARTICULARS

6.1 List of excipie ts

Tablet core Anhydrous lact se Microcryc all re cellulose Croscart, el res sodium Silic n d'oxide (E551) Magnesium stearate

Adolet film-coat Hypromellose Titanium dioxide (E171) Macrogol 400 Indigo carmine aluminum lake (E132) Yellow iron oxide (E172)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

30 months

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Polyvinyl Chloride/poly-chloro-tri-fluoro-ethylene (PVC/PCTFE) clear blister/aluminum foil lidding. Pack size of 28 film-coated tablets in perforated unit dose blisters. Pack size of 28 film-coated tablets in non-perforated calendar blisters.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Bristol-Myers Squibb Pharma EEIG Plaza 254 Blanchardstown Corporate Park 2 Dublin 15, D15 T867 Ireland

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/14/939/001 EU/1/14/939/002 EU/1/14/939/003 EU/1/14/939/004

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first astnorisation: 22 August 2014

9. DATE OF REVISION OF THE TEXT

IVIM/YYYY}

Detailed information on this medicinal product is available on the website of the European Medicines Agency <u>http://www.ema.europa.eu</u>.

ANNEX II

- er authorised MANUFACTURER RESPONSIBLE FOR BATCH RELEASE Α.
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- OTHER CONDITIONS AND MEC UIREMENTS OF THE MARKETING C. AUTHORISATION
- CONDITIONS OR PES TRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USF OF THE MEDICINAL PRODUCT D. E US

A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer(s) responsible for batch release

Bristol-Myers Squibb S.r.l. Loc. Fontana del Ceraso 03012 Anagni (FR) Italy

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

ised

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic safety update reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under A.t.ek 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARY TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

• Risk Management Plan (RMP)

The MAH shall perform the required pharmacovicilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Norke ing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may head to a significant change to the benefit/risk profile or as the result of an important (pharm at ovigilance or risk minimisation) milestone being reached.

Obligation to corduct post-authorisation measures

The MAH sha'r complete, within the stated timeframe, the below measures:

Description	Due date
In order to evaluate the recurrence of hepatocellular carcinoma associated with	Q2 2023
Dak'inza, the MAH shall conduct and submit the results of a prospective safety	
sucy using data deriving from a cohort of a well-defined group of patients, based	
or an agreed protocol. The final study report shall be submitted by:	

ANNEXII LABELLANG AND PACKAGE PAPIET ANNEXII LABELLANG AND PACKAGE PAPIET AND THE AND PACKAGE PAPIET AND THE AND PACKAGE PAPIET

ALABELLING NOR AUthorised
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON TEXT

1. NAME OF THE MEDICINAL PRODUCT

Daklinza 30 mg film-coated tablets daclatasvir

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 30 mg of daclatasvir (as dihydrochloride).

3. LIST OF EXCIPIENTS

Contains lactose. See package leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

28 film-coated tablets 28 x 1 film-coated tablet

5. METHOD AND ROUTE(S) OF ADML US (RATION

Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND PEACY OF CHILDREN

; set

Keep out of the sight and each of children.

7. OTIMER CPECIAL WARNING(S), IF NECESSARY

EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
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	hardstown Corporate Park 2
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12.	MARKETING AUTHORISATION NUMBER(S)
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13.	BATCH NUMBER
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14.	GENERAL CLASSIFICATION FOR SUPPEY
15.	INSTRUCTIONS ON USE
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16.	INFORMATION IN BKALLE
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UNIT DOSE BLISTER (PERFORATED) TEXT

1. NAME OF THE MEDICINAL PRODUCT

Daklinza 30 mg tablets daclatasvir

2. NAME OF THE MARKETING AUTHORISATION HOLDER

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BMS

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER HIGH COULCE

CALENDAR BLISTER (NON-PERFORATED) TEXT

1. NAME OF THE MEDICINAL PRODUCT

Daklinza 30 mg tablets daclatasvir

2. NAME OF THE MARKETING AUTHORISATION HOLDER

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Bristol-Myers Squibb Pharma EEIG

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

Monday Tuesday Wednesday Thursday Friday Syurday Sunday

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON TEXT

1. NAME OF THE MEDICINAL PRODUCT

Daklinza 60 mg film-coated tablets daclatasvir

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 60 mg of daclatasvir (as dihydrochloride).

3. LIST OF EXCIPIENTS

Contains lactose. See package leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

28 film-coated tablets 28 x 1 film-coated tablet

5. METHOD AND ROUTE(S) OF ADML US (RATION

Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND PEACY OF CHILDREN

Ser

Keep out of the sight and each of children.

7. OTIMER CPECIAL WARNING(S), IF NECESSARY

EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

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UNIT DOSE BLISTER (PERFORATED) TEXT

1. NAME OF THE MEDICINAL PRODUCT

Daklinza 60 mg tablets daclatasvir

2. NAME OF THE MARKETING AUTHORISATION HOLDER

sed

BMS

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

CALENDAR BLISTER (NON-PERFORATED) TEXT

1. NAME OF THE MEDICINAL PRODUCT

Daklinza 60 mg tablets daclatasvir

2. NAME OF THE MARKETING AUTHORISATION HOLDER

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Bristol-Myers Squibb Pharma EEIG

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

Monday Tuesday Wednesday Thursday Friday Syurday Sunday

E PACKAGE LEAFLENGER AUthorised

Package leaflet: Information for the patient

Daklinza 30 mg film-coated tablets Daklinza 60 mg film-coated tablets daclatasvir

This medicine is subject to additional monitoring. This will allow quick identification of new ised safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

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

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may have not in the mathematical states and the mathematical states are not prescribed for you only. . even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any cossible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- What Daklinza is and what it is used for 1.
- 2. What you need to know before you take Daklinza
- 3. How to take Daklinza
- 4. Possible side effects
- 5. How to store Daklinza
- 6. Contents of the pack and other information

1. What Daklinza is and what it is used for

Daklinza contains the active ingredient dac tasvir. It is used to treat adults with hepatitis C, an infectious disease that affects the liver, caused by the hepatitis C virus.

This medicine works by stopping the her atitis C virus from multiplying and infecting new cells. This lowers the amount of hepatitis C vit s in your body and removes the virus from your blood over a period of time.

Daklinza must always bouled together with other medicines against hepatitis C infection and must never be used by itsel.

It is very importent that you also read the package leaflets for the other medicines that you will be taking with Dal (ir za. If you have any questions about your medicines, please ask your doctor or pharmacis

What you need to know before you take Daklinza

Do not take Daklinza

- if you are allergic to daclatasvir or any of the other ingredients of this medicine (listed in section 6 of this leaflet)
- if you are taking (by mouth or other ways that affect the whole body) any of the following medicines
 - phenytoin, carbamazepine, oxcarbazepine or phenobarbital, used to treat epileptic seizures
 - rifampicin, rifabutin or rifapentine, antibiotics used to treat tuberculosis
 - dexamethasone, a steroid used to treat allergic and inflammatory diseases
 - medicines containing St. John's wort (Hypericum perforatum, a herbal preparation).

These medicines lower the effect of Daklinza and may result in your treatment not working. If you take any of these medicines, tell your doctor immediately.

sed

Since Daklinza must always be used in combination with other medicines against hepatitis C infection, please make sure that you read the "Do not take" section of the package leaflets for these medicines. If you are unsure of any information in the package leaflets, please contact your doctor or pharmacist.

Warnings and precautions

Talk to your doctor or pharmacist before taking Daklinza.

Tell your doctor if any of the following applies:

- you currently take, or have taken in the last few months, the medicine amiodarone to treat irregular heartbeats (your doctor may consider alternative treatments if you have taken this medicine)
- you have a current or previous infection with the hepatitis B virus, since your doctor may vant to monitor you more closely
- your liver is damaged and not functioning properly (decompensated liver disease)
- you have diabetes. You may need closer monitoring of your blood glucose levels in Jor adjustment of your diabetes medication after starting Daklinza. Some diabetic patients have experienced low sugar levels in the blood (hypoglycaemia) after starting treatment with medicines like Daklinza.

Tell your doctor immediately if you are taking any medicines for heart h roblems and during treatment you experience:

- Shortness of breath
- Light-headedness
- Palpitations
- Fainting

Children and adolescents

Daklinza is not recommended for patients below 13 years of age. Daklinza has not yet been studied in children and adolescents.

Other medicines and Daklinza

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. This is because Dable 22 may affect the way some medicines work. In addition some medicines may affect the way Di klinza works. Your doctor may need to adjust the dose of Daklinza or you may not be able to tak. Daklinza with certain medicines.

Do not take Daklinza it, ou are taking any of the following medicines:

- phenytoin. __rt_mazepine, oxcarbazepine or phenobarbital, used to treat epileptic seizures
- rifampicin, if butin or rifapentine, antibiotics used to treat tuberculosis
- dexar eth. sone, a steroid used to treat allergic and inflammatory diseases
- med sin s containing St. John's wort (*Hypericum perforatum*, a herbal preparation).

These medicines lower the effect of Daklinza so your treatment will not work. If you take any of these need clines, tell your doctor immediately.

of your doctor or pharmacist if you take any of the following medicines:

- amiodarone or digoxin, used to treat irregular heart beats
- atazanavir/ritonavir, atazanavir/cobicistat, elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil fumarate combination tablet, etravirine, nevirapine or efavirenz, used to treat HIV infection
- boceprevir or telaprevir, used to treat hepatitis C infection
- clarithromycin, telithromycin or erythromycin, used to treat bacterial infections
- warfarin and other similar medicines called vitamin K antagonists used to thin the blood. Your
 doctor may need to increase the frequency of your blood tests to check how well your blood can
 clot.
- dabigatran etexilate, used to to prevent blood clots

- ketoconazole, itraconazole, posaconazole or voriconazole, used to treat fungal infections
- verapamil, diltiazem, nifedipine or amlodipine, used to decrease blood pressure
- rosuvastatin, atorvastatin, fluvastatin, simvastatin, pitavastatin or pravastatin, used to lower blood cholesterol
- oral contraceptives

With some of these medicines, your doctor may need to adjust your dose of Daklinza.

Pregnancy and contraception

Tell your doctor if you are pregnant, think you may be pregnant or are planning to become pregnant. If you become pregnant, stop taking Daklinza and tell your doctor immediately.

If you are pregnant you must not take Daklinza.

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

Daklinza is sometimes used together with ribavirin. Ribavirin can harm your unborn bacy. It is therefore very important that you (or your partner) do not become pregnant during this treatment.

Breast-feeding

It is not known whether Daklinza passes into human breast milk. You should not breastfeed during treatment with Daklinza.

Driving and using machines

Some patients have reported dizziness, difficulty concentrating, and vision problems while taking Daklinza with other medicines for their hepatitis C infection. If you have any of these side effects, do not drive or use any tools or machines.

Daklinza contains lactose

If you have been told by your doctor that you have a in olerance to some sugars (e.g. lactose), talk to your doctor before taking Daklinza.

Daklinza contains sodium

This medicine contains less than 1 mm of sod um (23 mg) per maximum dose of 90 mg, that is to say essentially 'sodium-free'.

3. How to take Daklinz

Always take this medicine exactly as your doctor has told you. Check with your doctor or pharmacist if you are not supe.

Recommended dese

The record met ded dose of Daklinza is **60 mg once a day**. Swallow the tablet whole. Do not chew or crush the tablet as it has a very unpleasant taste. Daklinza can be taken with or without a meal.

Some orner medicines can interact with Daklinza, affecting the levels of Daklinza in your body. If you are aking any of these medicines, your doctor may decide to change your daily dose of Daklinza to ensure that the treatment is safe and effective for you.

Since Daklinza must always be used with other medicines against hepatitis C infection, please read the package leaflets for these medicines. If you have any questions, ask your doctor or pharmacist.

How long to take Daklinza

Make sure you take Daklinza for as long as your doctor has told you to take it.

The duration of your treatment with Daklinza will be either 12 or 24 weeks. The duration of your treatment will depend on whether you have previously received treatment for your hepatitis C

infection, the condition of your liver, and what other medicines you will take with Daklinza. You may have to take your other medicines for different lengths of time.

If you take more Daklinza than you should

If you accidentally take more Daklinza tablets than your doctor recommended, contact your doctor at once or contact the nearest hospital for advice. Keep the tablet blister with you so that you can easily describe what you have taken.

If you forget to take Daklinza

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

If you do miss a dose:

 and you notice within 20 hours of the time you usually take Daklinza, you must take the tablet as soon as possible. Then take the next dose at your usual time.

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and you notice 20 hours or more after the time you usually take Daklinza, wait and take the new dose at your usual time. Do not take a double dose (two doses close together).

If you stop taking Daklinza

It is important that you continue to take Daklinza during the whole treatment period Otherwise the medicine may not work against the hepatitis C virus. **Do not stop taking Daklinz () aless your doctor told you to stop.**

If you have any further questions on the use of this medicine, ask your disctor or pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, all ough not everybody gets them.

When Daklinza is used together with sofosbuvir (without ribavirin), the following side effects have been reported.

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

headache, fatigue

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

- difficulty sleeping
- dizziness
- migraine
- nausea (feeling si k), liarrhoea, abdominal pain
- joint pain, aching or ender muscles, not caused by exercise

When Daklinza is used together with sofosbuvir and ribavirin, the following side effects have been reported.

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

- 'reauache, nausea (feeling sick), fatigue
- reduction in red blood cells (anaemia)
- **Common** (may affect up to 1 in 10 people):
- decreased appetite
- difficulty sleeping, irritability
- dizziness
- migraine
- shortness of breath, cough, nasal congestion (blocked nose)
- hot flush
- dry skin, unusual hair loss or thinning, rash, itching

- diarrhoea, vomiting, abdominal pain, constipation, heartburn, excessive gas in the stomach or bowel
- dry mouth .
- joint pain, aching or tender muscles, not caused by exercise

When Daklinza is used together with peginterferon alfa and ribavirin the reported side effects are the uthorised same as those listed in the package leaflets for these medicines. The most common of these side effects are listed below.

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

- decreased appetite
- difficulty sleeping
- . headache
- . shortness of breath
- . nausea
- fatigue
- flu-like illness, fever
- itching, dry skin, unusual hair loss or thinning, rash
- diarrhoea
- . cough
- joint pain, aching or tender muscles, not caused by exercise, unusual
- irritability
- reduction in red blood cells (anaemia), reduction in white blood cell

Reporting of side effects

If you get any side effects, talk to your doctor or pharma ist. This includes any possible side effects not listed in this leaflet. You can also report side effects dir, cuy via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Daklinza

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the evpiry date which is stated on the carton and blister after "EXP". The expiry date refers to the last lay of that month.

This medicine does not require any special storage conditions.

Do not throw a vary any medicines via wastewater or household waste. Ask your pharmacist how to throw away meric nes you no longer use. These measures will help protect the environment.

Contents of the pack and other information 6

What Daklinza contains

The active substance is daclatasvir. Each film-coated tablet contains 30 mg or 60 mg daclatasvir (as dihydrochloride)

- The other ingredients are
 - Tablet core: anhydrous lactose (see section 2), microcrystalline cellulose, croscarmellose sodium, silicon dioxide (E551) and magnesium stearate
 - Film-coating: hypromellose, titanium dioxide (E171), macrogol 400, indigo carmine aluminum lake (E132), yellow iron oxide (E172)

What Daklinza looks like and contents of the pack

Daklinza 30 mg: the film-coated tablet is green, biconvex, pentagonal shape with "BMS" debossed on one side and "213" on the other side.

Daklinza 60 mg: the film-coated tablet is light green, biconvex, pentagonal shape with "BMS" debossed on one side and "215" on the other side.

Daklinza 30 mg and 60 mg film-coated tablets are available in packs of 28 tablets in non-perforated rised calendar blisters and perforated unit dose blisters.

Not all packages may be marketed in your country.

Marketing Authorisation Holder

Bristol-Myers Squibb Pharma EEIG Plaza 254 Blanchardstown Corporate Park 2 Dublin 15, D15 T867 Ireland

Manufacturer

Bristol-Myers Squibb S.r.l. Loc. Fontana del Ceraso 03012 Anagni (FR) Italy

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

Belgique/België/Belgien

N.V. Bristol-Myers Squibb Belgium S.A. Tél/Tel: + 32 2 352 76 11

България Bristol-Myers Squibb Kft. Тел.: + 359 800 12 400

Česká republika Bristol-Myers Squibb spol. s r.o. Tel: + 420 221 016 111

Danmark

Bristol-Myers Squibb Tlf: + 45 45 93 05 06

Deutschland Bristol-Myers Squibt Gmbh & Co. KGaA Tel: + 49 89 121 42-0

Eesti Bristo¹-M¹ ers Squibb Kft. Tel: +3/2 610 1030

NO ' AK BR. TOL-MYERS SQUIBB A.E. 1 ηλ: + 30 210 6074300

España BRISTOL-MYERS SQUIBB, S.A. Tel: + 34 91 456 53 00

Lietuva Bristol-Myers S uit' Kft. Tel: +370 52 5(91.1)

Lux ml our /Luxemburg N.V. B. stor-Myers Squibb Belgium S.A. Tch/Tel: + 32 2 352 76 11

Magyarország

Bristol-Myers Squibb Kft. Tel.: + 36 1 9206 550

Malta

BRISTOL-MYERS SQUIBB S.R.L. Tel: + 39 06 50 39 61

Nederland

Bristol-Myers Squibb B.V. Tel: + 31 (0)30 300 2222

Norge

Bristol-Myers Squibb Norway Ltd Tlf: + 47 67 55 53 50

Österreich

Bristol-Myers Squibb GesmbH Tel: + 43 1 60 14 30

Polska

BRISTOL-MYERS SQUIBB POLSKA SP. Z O.O. Tel.: + 48 22 5796666

France Bristol-Myers Squibb SARL Tél: + 33 (0)1 58 83 84 96

Hrvatska Bristol-Myers Squibb spol. s r.o. TEL: +385 1 2078 508

Ireland Bristol-Myers Squibb Pharmaceuticals uc Tel: + 353 (0)1 483 3625

Ísland Bristol-Myers Squibb AB hjá Vistor hf. Sími: + 354 535 7000

Italia BRISTOL-MYERS SQUIBB S.R.L. Tel: + 39 06 50 39 61

Κύπρος BRISTOL-MYERS SQUIBB A.E. Τηλ: + 357 800 92666

Latvija Bristol-Myers Squibb Kft. Tel: +371 67708347

http://www.ema.europa.eu.

A Redicinal Providence

This leaflet was last revised in <{MM/YVYY}>.

Portugal Bristol-Myers Squibb Farmacêutica Portuguesa, S.A. Tel: + 351 21 440 70 00

rised

România Bristol-Myers Squibb Kft. Tel: + 40 (0)21 272 16 00

Slovenija Bristol-Myers Squibb spol. s r.o. Tel: +386 1 2355 100

Slovenská republika Bristol-Myers Squibb spol. s r.o. Tel: + 421 2 59298411

Suomi/Finland Oy Bristol-Myers Squibb (Fin'an J) Ab Puh/Tel: + 358 9 251 21 230

Sverige Bristol-Myers S Juit' AB Tel: + 46 8 755 71-50

Unit d Kins dom Bristol-Myers Squibb Pharmaceuticals Ltd Tci. + 44 (0800) 731 1736

Detailed information on this medicine is available on the European Medicines Agency web site: