```
DARUNAVIR - darunavir tablet, film coated
Novadoz Pharmaceuticals LLC
         HIGHLIGHTS OF PRESCRIBING INFORMATION

BY THE PRESCRIBING INFORMATION INFORMATION medical to use DARUHAVIR TABLETS
Safely and offectively, See Full Prescribing Information for DARUHAVIR TABLETS.
DARIBLANT Lables, For oral use
initial U.S. Appreval: 2006

RECENT MADOR CHANGES

CONTRIGICATION (4)

4,0022
              INDICATIONS AND USAGE
Darunavir tablets are a human immunodeficiency view (FIV-1) protease inhibitor indicated for the treatment of HeV. Infection in solat and podietric patients; 3 years of age and older humanive tablets must be co-administered with find-new (daturus/wit/find-new) and with other aristetorival agents. (1)

COSAGE AND CAMMINISTATION.
    The contraction of the contracti
              (2.4)

Pediatric patients (3 to less than 18 years of age and weighing at least 10 kg): dosage of danunavir tablets and ritorawir is based on body weight and should not exceed the adult dose. Darunavir tablets should be taken with ritorawir and with food. (2.5)

Darunaviritorawir is not recommended for use in patients with severe hepatic impairment. (2.6)

    DOSAGE FORMS AND STRENGTHS
    Tablets: 600 mg and 800 mg (3)

    CONTRAINDICATIONS
    Co-administration of daruna/wirittonavir is contraindicated with drugs that are highly dependent on CYP3-8 for clearance and for which elevated plasma concentrations are associated with serious and/or file-threatening events (narrow therapeutic insky).
    CPS for Channes and for main invasion planns conventionates are associated with serious radio 

CPS for Channes and CPS for CP
    morataly observed in juviner rats observed manuscript up to object 110 to 0 rage, (5.10)

- The most common clinical adverse drug reactions to distinsiviritionaviri (incidence greater than or equal to 5%) of at least moderate intendry (greater than or equal to Grade 2) were distrinsia, nausea, rath, headerate, automitialize jain and vrowling. (6)
    To report SUSPECTIO ADVERSE BIACTOMS, contact Newdoor Pharmacounicals LLC at 1-835-
642-25te or 1754 at 1-800-70A:0100 or own Macentomic and the Control of 

    Pediatrics: Not recommended for patients less than 3 years of age. (8.4)

See 17 for PATIENT COUNSELING INFORMATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Revised: 11/2023
FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2 DOSAGE AND ADMINISTRATION

2 Defeated to the decimal properties of the decima
                                                               Pregnancy
Lactation
Females and Males of Reproductive Poter
Pediatric Use
Geriatric Use
Hepatic Impairment
Renal Impairment
                             8.6 Hepatic Impairment
3.7 Renal Impairment
D OVERDOSAGE
D DESCRIPTION
2 CLINICAL PHARMACOLOGY
2.1.1 Mechanism of Action
12.2 Pharmacodynamics
12.3 Pharmacokinetics
12.4 Microbiology
3 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis, Impairment
                        13.1 Carcinogenesis, Mutagenesis, Impairm
4 CLINICAL STUDIES
14.1 Description of Adult Clinical Trials
14.2 Treatment-Naïve Adult Subjects
14.3 Treatment-Experienced Adult Subjects
14.4 Pediatric Patients
              14.4 Pediatric Patients
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing
```

Derunavir tables, co-administered with rikonavir (darunavir/rikonavir), in combination with other antiretroviral agents, is indicated for the treatment of human immunodeficiency virus (HIV-1) infection in adult and pediatric patients 3 years of age and other [see Use in Specific Populations (8.4) and Chinical Studies (14)].

2 DOSAGE AND ADMINISTRATION

2.1 Testing Prior to Initiation of darunavir/ritonavir In treatment-experienced salatest, treatment history, gendypic and/or phenotypic testing is recommended to assets of tong usceptibility of the HVM. view, figure Microbiology (12.4). Refer to Dosage and Administration (2.3), (2.4) and (2.5) for dosing recommendations.

Appropriate laboratory testing such as serum liver blochemistres should be conducted prior to history therapy with derunary/france/ize performings and Precautions (5.2)).

2.2 Monitoring During Treatment with darunavir/ritonavir

2.2 Monitoring Juring Treatment with darunavir/irconavir Patients with underlying chronic hepatitis, crinosis, or in patients who have pre-treatment elevations of transaminases should be monitored for elevation in serum liver bischemistries, especially during the first several months of darunavir/itonavir treatment (see Warnings and Precautions (5.2).

treatment [see Warnings and Piscautions (5.2)].

3. Recommended Dosage in Adult Patients.

Darunavir tablets must be co-administrated with namour's to exert its therapeoutic effects.

Bernavir tablets must be co-administrated with namour's to exert its therapeoutic effects and the second of the 1.25 m.d of a 80 mg per m.t fromwir oral solution) once daily and with food. An 8 m.t darunavir oral suspension does should be between stow of all daministrations with the nutured of all doing syvings.

Building Strategy of the The recommended of and dosage for the seminary of the Strategy of the In Table 1. Becommended of the Strategy of the Strategy of the Strategy of the processing of the Strategy of Strategy o

	Formulation and Re	commended Dosing
Baseline Resistance	Darunavir tablets with ritonavir tablets or capsule	Darunavir oral suspension (100 mg/mL) with ritonavir oral solution (80 mg/mL)
With no darunavir resistance associated substitutions a		
	One 600 mg darunavir tablet with one 100 mg ritonavir tablet/capsule, taken twice daily with food	6 mL darunavir ora suspension with 1.25 mL ritonavir oral solution, taken twice daily with food

a V11I, V32I, L33F, I47V, I50V, I54L, I54M, T74P, L76V, I84V and L89V ^b An 8 mL darunavir dose should be taken as two 4 mL adminisoral dosing syringe

2.4 Recommended Dosage During Pregnancy
The recommended dosage in pregnant patients is darunavir tablet 600 mg taken with ritonavir 100 mg twice daily with food.

Darunavir tablet 800 mg taken with ritonavir 100 mg once dally should only be considered in certain pregnant patients who are already on a stable darunavir tablet 800 mg with ritonavir 100 mg once dally regimen prior to pregnancy, are viologically called the stablet 800 mg with ritonavir 100 mg mg one of the stablet 800 mg with ritonavir 100 mg may compromise to be stablet or compliance.

2.5 Recommended Dosage in Pediatric Patients (age 3 to less than 18 years)

2.5 Recommended Oosage in Pediatric Patients (age 3 to less than 18 years)

Healthcare professionals should pay special attention to accurate does selection of
doing instruction to minimize risk for medication errors, overdose, and underdose.

Prescribers should select the appropriate dose of darmawiritansw for each instruction.

Before prescribing darmawir ballets, children weighing greater than or requisit to 15 kg
swellow a tablet, the use of darmawire of suspension should be considered.

The recommended dose of darmawiritansw for pediatric patients (10 less than 18 across the considered.)

The recommended dose of darmawiritansw for pediatric patients (10 less than 18 and 5) and should not exceed the recommended adult dose than the considered.

The recommended dose of darmawir ballets of the considered to the considered of th

Pediatric Patients Weighing At Least 10 kg but Less than 15 kg...

The weight-based dose in antiretroviral treatment-naive pediatric patients or antiretroviral treatment-experienced pediatric patients with no darunavir resistance associated substitutions is darunavir tablets 35 mg/kg once daily with ritonavir 7 mg/kg once daily using the following table:

	Formulation: Darunavir oral suspension (100 mg/mL) and ritonavir oral solution (80 mg/mL
Body weight (kg)	Dose: once daily with food
	Darunavir oral suspension 3.6 mL ^D (35 mg) with ritonavir 0.8 mL (64 mg)
	Darunavir oral suspension 4 mL b (38 mg) with ritonavir 0.8 mL (64 mg)
	Darunavir oral suspension 4.2 mL (42 mg) with ritonavir 1 mL (80 mg)
	Darunavir oral suspension 4.6 mL ^b (45 mg) with ritonavir 1 mL (80 mg)
	Darunavir oral suspension 5 mL* (490 mg with ritonavir 1.2 mL (96 mg)

⁸ darunavir resistance associated substitutions: V111 V321, L337, 437V, 150V, 154M, 154L, 174V, 176V, 184W and 185V. The 176V, 184W and 185V. The 1850 mg, 385 mg, 455 mg and 490 mg darunavir dose for the specified weight groups were rounded up for suspension dosing convenience to 3.6 ml., 4 ml., 4.6 ml. and 5 ml., respectively, Pedietric Patients Veglengh 24 Least 15 gr. Pedietric patients weighing at least 15 kg pedietric patients for the following bable.

Table 3: Recommended Dose for Pediatric Patients Weighing At Least 15 kg
Who are Treatment-Naïve or Treatment-Experienced with No Darunavir
Resistance Associated Substitutions

Body weight (kg)	Formulation: Darunavir tablet(s) and ritonavir capsules or tablets (100 mg)	Formulation: Darunavir oral suspension (100 mg/mL) and ritonavir oral solution (80 mg/mL)
	Dose: once daily with food	Dose: once daily with food
Greater than or equal to 15 kg to less than 30 kg	Darunavir tablets 600 mg with ritonavir 100 mg	Darunavir oral suspension 6 mL (600 mg) with ritonavir 1.25 mL (100 mg)
Greater than or equal to 30 kg to less than 40 kg	Darunavir tablets 675 mg with ritonavir 100 mg	mg) with ritonavir 1.25 mL (100 mg)
Greater than or equal to 40 kg	Darunavir tablets 800 mg with ritonavir 100 mg	Darunavir oral suspension 8 mL ^c (800 mg) with ritonavir 1.25 mL (100 mg)

a darunavir resistance associated substitutions: V11I, V32I, L33F, I47V, I50V, I54M, I54L, T74P. L76V. I84V and L89V

1541, T34, 1740, 184V and 183V.

The 637 mg does using durnain's blatts for this weight group is rounded up to 6.8 ml for suppression dosing convenience.

The 6.3 ml and sex using extraored blatts for this weight group is rounded up to 6.8 ml for suppression dosing convenience.

The 6.3 ml and 18 ml and summy dose the blouds be taken as two 12.4 ml. or 4 ml. or

	Formulation: Darunavir oral suspension (100 mg/mL) and ritonavir oral solution (80 mg/mL)
Body weight (kg)	Dose: twice daily with food
	Darunavir oral suspension 2 mL (200 mg) with ritonavir 0.4 mL (32 mg)
	Darunavir oral suspension 2.2 mL (220 mg) with ritonavir 0.4 mL (32 mg)
	Darunavir oral suspension 2.4 mL (240 mg) with ritonavir 0.5 mL (40 mg)
	Darunavir oral suspension 2.6 mL (260 mg) with ritonavir 0.5 mL (40 mg)
	Darunavir oral suspension 2.8 mL (280 mg) with ritonavir 0.6 mL (48 mg)

^a darunavir resistance associated substitutions: V11I, V32I, L33F, I47V, I50V, I54M, I54L, T74P, L76V, I84V and L89V.

Pediatric Patients Weighing At Least 15 kg Pediatric Patients Weighing At Least 15 kg Pediatric patients weighing at least 15 kg can be dosed with darunavir oral tablet(s) or suspension using the following table:

Table 5: Recommended Dose for Pediatric Patients Weighing At Least 15 kg Who are Treatment-Experienced with At Least One Darunavir Resistance Associated Substitution^a

Body weight (kg)	Formulation: Darunavir tablet(s) and ritonavir tablets, capsules (100 mg) or oral solution (80 mg/mL)	Formulation: Darunavir oral suspension (100 mg/mL) and ritonavir oral solution (80 mg/mL)
	Dose: twice daily with food	Dose: twice daily with food
Greater than or equal to 15 kg to less than 30 kg	Darunavir tablets 375 mg with ritonavir 0.6 mL (48 mg)	Darunavir oral suspension 3.8 mL (375 mg) ^b with ritonavir 0.6 mL (48 mg)
Greater than or equal to 30 kg to less than 40 kg	Darunavir tablets 450 mg with ritonavir 0.75 mL (60 mg)	Darunavir oral suspension 4.6 mL (450 mg) ^b with ritonavir 0.75 mL (60 mg)
Greater than or equal to 40 kg	Darunavir tablets 600 mg with ritonavir 100 mg	Darunavir oral suspension 6 mL (600 mg) with ritonavir 1.25 mL (100 mg)

2.6 Not Recommended in Patients with Severe Hepatic Impairment.
No dosage adjustment is required in patients with mild or moderate hepatic impairment.
No dosage adjustment is required in the use of durative informative when co-administered to recommended for use in patients with severe hepatic impairment (see Use in Specific Populations (8.6) and Cliniar Immarrows (9.2.3)).

Darunsvir Tablets

• 600 mg: Beige cobred, oval-shaped, bi-convex, film-coated tablets, debossed with

M on one side and *600* on other side.

• 800 mg: Brown cobred, oval-shaped, bi-convex, film-coated tablets, debossed with

M on one side and *600* on other side.

⁸ darunavir resistance associated substitutions; V111, V321, L38 F, 47 V, 150 V, 154 M, 154 L, 174 P, L76 V, 164 V and 164 V. 154 L, 174 P, L76 V, 164 V and 164 V. 154 L, 174 P, L76 V, 164 V and 164 V. 154 V and 164 V and 1

Co-administration of darunawir/tonawir is contraindicated with drugs that are highly begendent on CPSA for clearance and for which elevated plasma concentrations are because of the contraindicated with contrained to the contrained contrained to the contrained contrained contrained contrained to the contrained to the contrained contrained contrained to the contrained to the contrained contrained to the contrained to the contrained contrained to the contrained

- Alpha 1-adrenoreceptor artiagonist: affuzosin
 Andispati. citchtiens, in patients with renal and/or hepatic impairment
 Andispati. citchtiens, in patients with renal and/or hepatic impairment
 Antispychotics: Insolitation, primoration
 Cardist Chourders: dronedurons, leaferatine, randealine
 Cardist Chourders: dronedurons, leaferatine, randealine
 Herality products. E. John's word (Hyperacing allerine, methyler gonovine
 Herality accounts, Danie's word, primorational Herality accounts of a Herality products of the Hera

5 WARNINGS AND PRECAUTIONS

5.1 Importance of Co-administration with Ritonavir Darunavir must be co-administration with ritonavir and food to achieve the desired antivaried lefter. I share to administed rationavir with ritonavir and food may result in a base Please refer to ritonavir prescribing information for additional information on precautionary measures.

Drug-induced hepatitis (e.g., acute hepatitis, cytolytic hepatitis) has been reported with darunavir/fitonavir. During the clinical development program (Ne-3003), hepatitis was reported in 0.5% of patients receiving combination therapy with darunavir/fitonavir. Patients with pre-existing liver dysfunction, including chronic active hepatitis 8 or C, have an increased risk for feer furction abnormalities including severe hepatitis davierse

Palents with pre-existing liver opstunction, nictuary survey.

An increased risk for her function absormables including severe hepatic adverse not received risk for her function absormables including severe hepatic adverse float marketing cases of liver injury, nictuding some falables, have been reported. These we generally occurred in palents with absorned HIV-1 desire taking inspects B or Cc or effection, concentrat medications, having co-morfables including hepatits B or Cc or effection, and an advantage of the contract of the contra

5.4 Sulfa Allergy

Darunavir contains a sulfonamide moiety. Darunavir should be used with caution in patients with a known sulfonamide alergy. In clinical studies with darunavir/ritonavir, the incidence and severity of rash were similar in subjects with or without a history of sulfonamide alergy.

suforamide alery.

3.5 Risk of Serious Adverse Reactions due to Drug Interactions Inlation of darumaviritonow; a CPP3A inhibitor, in patients receiving medications metabolized by CPP3A in patient or metabolized by CPP3A in patients metabolized by CPP3A in patient or medications metabolized by CPP3A in patient or medications metabolized by CPP3A and reduce plasma concentrations of active metabolized in or medications that inhibit or induce CPP3A may increase or decrease concentrations of active metabolized by CPP3A.

- concentrations of naruhary navies of the Thee infractions may lead to: Chically significant adverse reactions, potentially leading to severe. Be threatening, or facility events from greater exposures of concentrate medications. Greater than the concentration of the concentration of the concentration of the Loss of therapeutic effect of the concentrant medications from lower exposures of **Concentration of the concentration of the c
- Loss of therapeutic effect of darunavir/ritonavir and possible development of resistance from lower exposures of darunavir/ritonavir.

See Table 1 for steps to present or manual times possible and known standland the interctions, reclaimly design procumentations, lost four planetation (Planetation P). Contact the potential for drug interactions prior to and during disrums/ritionovir therapy; review concernitant medications during disrums/ritionovir therapy; review concernitant medications during disrums/ritionovir therapy; and monitor for the solvers reactions associated with the concomitant drugs [see Contrandications (d)and Drugs (interactions).

The understand the second section of the existing disbets meltion, and the proof disbets meltine association of or existing disbets meltion, and hyperthyleroms have been reported during postmarkering surveillance in INV infected potentials receiving processes inhibitor (I) interrupt. Some posteries regard either institute of the processes in the processes in the processes in the second section of the processes in the second section of the processes in the second section section in the processes in the section sec

Both reductions of body fat, including central obesity, dorsocervical fat enlargement (buffath humps), peripheral wasting, facial wasting, breast enlargement, and "cushingid algorisance" have been observed in polarist receiving artisteroviral therapy. The mechanism and long-term consequences of these events are currently unknown. A causal relationship has not been established.

Immune reconstitution syndrome has been reported in patients treated with combination antiercoviral threapy, including durantsvi. During the initial phase of combination antiercoviral terrative, placents whose immune systems respond may recombinate the control and restrictive and the combination and control and the control and the combination and combination and the combination and the combination and the combination and combination and combination and restrictive. Autoimmune disorders (such as Graves' disease, polymycosis, Guillain-Barris's syndrom and autoimmune heights) have also been reported to occur in the esting of immune reconstitution, however, the time to once is more variable, and can occur many month drive habitant of architecture furnishment.

5.9 Hemophilia

There have been reports of increased bleeding, including spontaneous skin hematomas and hematthrosis in patients with hemophila type A and B thested with Pls. In some patients, additional factor VIII was given. In more than hild of the strength of the st

Causar reasonants previews in vinerply and trees episcoes has not cere reasonants.

3-20 Not Recommended in Pediatric Pediatris Blobby 3 Years of Age
Duruswir/Ronawir in pediatric patients below 3 years of age is not recommended in view
of toxicky and mortally observed in jovenier rads doced with durunswir (from 20 mig/kg) to 1,000 mig/kg) us to 4 days 23 to 26 days [see Use in Specific Pepulations
(3.2) and 6.4 and facilier Althramicology (12.3)).

6 ADVERSE PEACTIONS

- 6 ADVESS REACTIONS
 The following adverse meations are discussed in other sections of labeling:
 Negationscie/i (see Warnings and Precautions (5.2))
 Sewerse Sin Reactions (see Warnings and Precautions (5.3))
 Diabetes Nethus/Hyperalycemia (see Warnings and Precautions (5.6))
 Far Redictribution (see Warnings and Precautions (5.6))
 Redictribution (see Warnings and Precautions (5.6))
 Hemophilia (see Warnings and Precautions (5.8))

Due to the need for co-administration of darunavir with ritonavir, please refer to ritonavir prescribing information for ritonavir-associated adverse reactions.

6.1 Clinical Trials Experience

Because clinical triels are conducted under widely varying conditions, adverse reaction rates observed in the disk all triels of a drug carent be directly compared to rates in the reaction rates observed in the service of the reaction of

meet exposition a value of the control of the contr

Danumuris (ritanumis 200 / 00) laninus is (ritanumis 200 / 00)

organ class, preferred term, %	mg once daily + TDF/FTC N=343	mg per day + TDF/FTC N=346
Gastrointestinal	Disorders	
Abdominal pain	6%	6%

Skin and Subcutar	eous Tissue Disorders	
Headache	7%	6%
Nervous System I	isorders	
Anorexia	2%	<1%
Metabolism and N	utrition Disorders	
Fatigue	<1%	3%
General Disorders	and Administration Site C	onditions
Vomiting	2%	4%
Nausea	4%	4%
Diarrhea	9%	16%

Notatial number of subjects per treatment group; FTC-memir kabine; TDF-stendovir disproxil fumarate

** Erckuling behardery abnormatikes reported as ADRs.

Less Common Adverse Reactions

Testalments energies ADRs, of at less moderate intensity (greater than or equal to Grade

Testalments energies ADRs, of at less moderate intensity (greater than or equal to Grade

Testalments energies ADRs, of at less moderate intensity (greater than or equal to Grade

Testalments energies ADRs, of at less moderate intensity (greater than or equal to Grade

Gartrantestal Belonders scale peace treats, dyspepsis, finalthance

General Bunders and Administration Ster Conditions; eatheries

Benedit Bunders and Administration of the Conditions and Bunders a

Table 7: Grade 2 to 4 Laboratory Abnormalities Observed in Antiretroviral Treatment-Naïve MIV-1-Infected Adult Subjects ^a (Trial TMC114-C211)

Laboratory paramete %	r Limit	Darunavir/ritonavir 800/100 mg once daily + TDF/FTC	lopinavir/ritonavir 800/200 mg per day + TDF/FTC
Biochemistry			
Alanine Aminotransferas	ie		
Grade 2	>2.5 to ≤5.0	9%	9%
	X ULN		
Grade 3	>5.0 to ≤10.0 X ULN	3%	3%
Grade 4	>10.0 X ULN	<1%	3%
Aspartate Aminotransfe	rase	•	
Grade 2	>2.5 to ≤5.0 X ULN	7%	10%
Grade 3	>5.0 to ≤10.0 X ULN	4%	2%
Grade 4	>10.0 X ULN	1%	3%
Alkaline Phosphatase			
Grade 2	>2.5 to ≤5.0 X ULN	1%	1%
Grade 3	>5.0 to ≤10.0 X ULN	0%	<1%
Grade 4	>10.0 X ULN	0%	0%
Hyperbilirubinemia	1		<u> </u>
Grade 2	>1.5 to ≤2.5 X ULN	<1%	5%
Grade 3		<1%	<1%
Grade 3	>2.5 to ≤5.0 X ULN	<1%	<1%
Grade 4	>5.0 X ULN	0%	0%
Triglycerides		1	
Grade 2	5.65- 8.48 mmol/L 500-750 mg/dL	3%	10%
Grade 3	8.49-	2%	5%
	13.56 mmol/L 751- 1,200 mg/dL		
Grade 4	>13.56 mmol/L >1,200 mg/dL	1%	1%
Total Cholesterol			
Grade 2	6.20- 7.77 mmol/L 240-300 mg/dL	23%	27%
Grade 3	>7.77 mmol/L >300 mg/dL	1%	5%
Low-Density Lipoprotein	Cholesterol		
Grade 2	4.13- 4.90 mmol/L 160-190 mg/dL	14%	12%
Grade 3	≥4.91 mmol/L ≥191 mg/dL	9%	6%
FI	≥191 mg/dL		
Elevated Glucose Levels			180
Grade 2	6.95- 13.88 mmol/L 126-250 mg/dL	11%	10%
Grade 3	13.89- 27.75 mmoVL 251-500 mg/dL	1%	<1%
Grade 4	>27.75 mmoVL	0%	0%
	>500 mg/dL		
Pancreatic Lipase			
Grade 2	>1.5 to ≤3 X ULN	3%	2%
Grade 3	>3 to ≤5 X ULN	<1%	1%
Grade 4	>5 X ULN	0%	<1%
Pancreatic Amylase	1	1	1
Grade 2	>1.5 to ≤2 X ULN	5%	2%
Grade 3	>2 to ≤5 X ULN	5%	4%
Grade 5	X ULN		

N=total number of subjects per treatment group; FTC=emtricitabine; TDF=tenofovir disoproxil fumerate a Grade4 data not applicable in Division of AIDS grading scale.

** Graded data not applicable in Division of AIDS grading scale.

Teathmet.Loserimeck Aids 1: ISCL14-C14

Teathmet.Loserimeck

System organ class, preferred term, %	darunavir/ritonavir 600/100 mg twice daily + OBR N=298	(lopinavir/ritonavir 400/100 mg twice daily + OBR N=297
Gastrointestinal Di	sorders	1
Abdominal distension	2%	<1%
Abdominal pain	6%	3%
Diarrhea	14%	20%
Dyspepsia	2%	1%
Nausea	7%	6%
Vomiting	5%	3%
General Disorders	and Administration Site Con	ditions
Asthenia	3%	1%
Fatigue	2%	1%

Anorexia	2%	2%
Diabetes mellitus	2%	<1%
Nervous System Disor	ders 3%	3%
Nervous System Disor Headache Skin and Subcutaneou	3%	3%

N=total number of subjects per treatment group: OBR=optimized background regimen § Excluding blooratory abnormalities reported as ADRs Less Common Adverse Reactions Treatment-emergent ADRs of at least moderate intensity (greater than or equal to Grade polycoruming niles shame 2% of antient/ordival terulement-ejemented subjects receiving darunsvir/stonavir 000/100 mg livide dally are facted below by body system: Gastrointestral Diodores: scale posterrests, fletulence

Musculoskeletal and Connective Tissue Disorders: myalgia

Muscubsekeld and Connective Tasse Disorders: mywjąba Psychiatric Disorders: andormal derama Psychiatric Disorders: prurihus, urticeria Latoratory Almorranisties: Section of the programme of the programme of the Section of medical programme of the programme of the programme of the distributive programme of the programme of the programme of the distributive programme of the programme of the programme of the distributive programme of the programme of the programme of the distributive programme of the programme of the programme of the Table 9: Grade 2 to 4 Laboratory Almorranisms to Observed in Antibetroviral Treatment-Experienced HIV-1-infected Adult Subjects "from Hortla-Ec21a")

Subjects ^a (Trial TMC11		dan mada falka	lopinavir/ritonavir 400/100 mg
Laboratory parameter,	Limit	600/100 mg twice daily + OBR	twice daily + OBR
Biochemistry		l .	
Alanine Aminotransferase			
Grade 2	>2.5 to ≤5.0 X ULN	7%	5%
Grade 3	>5.0 to ≤10.0 X ULN	2%	2%
Grade 4	>10.0 X ULN	1%	2%
Aspartate Aminotransfera	ise	l	
Grade 2	>2.5 to ≤5.0 X ULN	6%	6%
Grade 3	>5.0 to ≤10.0 X ULN	2%	2%
Grade 4	>10.0 X ULN	<1%	2%
Alkaline Phosphatase		l .	
Grade 2	>2.5 to ≤5.0 X ULN	<1%	0%
Grade 3	>5.0 to ≤10.0 X ULN	<1%	<1%
Grade 4	>10.0 X ULN	0%	0%
Hyperbilirubinemia	I	l	
Grade 2	>1.5 to ≤2.5 X ULN	<1%	2%
Grade 3	>2.5 to ≤5.0 X ULN	<1%	<1%
Grade 4	>5.0 X ULN	<1%	0%
Triglycerides		I	
Grade 2	5.65- 8.48 mmol/L 500-750 mg/dL	10%	11%
Grade 3	8.49- 13.56 mmol/L 751- 1,200 mg/dL	7%	10%
Grade 4	>13.56 mmol/L >1,200 mg/dL	3%	6%
Total Cholesterol	l		
Grade 2	6.20- 7.77 mmol/L	25%	23%
Grade 3	240-300 mg/dL >7.77 mmol/L	10%	14%
	>300 mg/dL		
Low-Density Lipoprotein (
Grade 2	4.13- 4.90 mmol/L 160-190 mg/dl	14%	14%
Grade 3	≥4.91 mmol/L ≥191 mg/dL	8%	9%
Elevated Glucose Levels	·	1	<u> </u>
Grade 2	6.95- 13.88 mmol/L 126-250 mg/di	10%	11%
Grade 3	13.89- 27.75 mmol/L 251-500 mg/di	1%	<1%
Grade 4	>27.75 mmol/L >500 mg/dL	<1%	0%
	>500 mg/dL		
Pancreatic Lipase		20/	407
Grade 2	>1.5 to ≤3.0 X ULN	3%	4%
Grade 3	>3.0 to ≤5.0 X ULN	2%	<1%
Grade 4	>5.0 X ULN	<1%	0%
Pancreatic Amylase			
Grade 2	>1.5 to ≤2.0 X ULN	6%	7%
Grade 3	>2.0 to ≤5.0 X ULN	7%	3%
Grade 4	>5.0 X ULN	0%	0%

N=total number of subjects per treatment group; OBR=optimized background regimen a Grade 4 data not applicable in Division of AIDS grading scale

N-total number of subjects per treatment group; OBR-optimized background regimen

* Grade 4 data on septicable in Debian of AIDS gradings scale to ensure septicate

Grade 1 of Scare septicate (Parkinson of AIDS gradings scale

Grade 2) occurred in the Phase 2 bad where 1 this with disturber addominal
pain, scale bepatitis, acute puncreatis, anorexis, schronis, disbedes meltins, districts,
grade 1 occurred in the Phase 2 bad where 1 this with districts and
pain, scale bepatitis, acute puncreatis, anorexis, schronis, disbedes meltins, districts,
property occurred in the mental is anorexis, schronis, disbedes meltins, districts,
property occurred in anomary recommendation syndrome, some
property occurred in a minuter reconstitution syndrome, some files (paper)

property occurred with Heaptitis is not C viers receiving desurative framework

in subjects to enfected with Heaptitis is not C viers receiving desurative framework

in subjects to enfected with Heaptitis is not C viers receiving desurative framework

in subjects to enfected with Heaptitis is not C viers receiving desurative framework

in subjects to enfected with Heaptitis is not C viers receiving desurative framework

in subjects to enfected with Heaptitis is not C viers receiving desurative framework

in the subjects of the second

in the second second

in the second of the second

in the second of the second

in the secon

vomiting (11%), devirtines (11%), abdominist pain (10%), headerle (19%), rish DNB, Critical 2 and shorterly advantables were AT increased (Grade 3 - 1%). Critical 6 - 1%), AST Acrossed (Grade 5 - 1%), particretic amylate increased (Grade 3 - 1%), Critical 6 - 1%), and LDI, successed (Grade 3 - 1%), bard (Lottle territorial 6 - 1%), and LDI, successed (Grade 3 - 1%), addominial pain (Grade 3 - 1%), and LDI, successed (Grade 3 - 1%),

6.2 Postmarketing Experience

o.2 resumantering specimence Mediadolin and Nullation Development of Lody for Mediadolin and Nullation Development of Lody for Mediadolin and Nullation Development of Lody for Administration with HMG-CoA reductase inhibitors and darusav/irtinosis/ Six and Subscributors Tissue Boorders Tissue (patients increpyles, seutra experience) Six and Subscributors Tissue Boorders Tissue (patients increpyles, acut a systems symptoms (See Marinays and Precautions (5.3)) and high microphylic and systems symptoms (See Real and Urinary Lodgers).

7.1 Potential for darunavir/ritonavir to Affect Other Drugs

Darunavir co-administered with ritonavir is an inhibitor of CYP3A, CYP2D6, and P-gp. Co-administration of darunavir and ritonavir with drugs that are primarily metabolized by CYP3A and CYP2D6 or are transported by P-gp may result in increased plasma

concentrations of such drugs, which could increase or prolong their therapoulic effect and adverse events. Darumark co-administered with rizonavir with drugs that have active metabolites in terms of VP23A may read at the reduced bearing concentrations of these metabolites in terms of VP23A may read at the reduced bearing concentrations of these metabolites of the prolong to the contract the equal of the contract of the prolong the contract of the contract of

May be Recommended Based on Drug Interaction Studies or Predicted Interaction May be Recommended Based on Drug Interaction Studies or Predicted Interaction (as ec Contraindications) (aft on a list of examples of contraindicated explainting (as explainting as a list of examples of prediction, Tables 15 and 16) [Effect on Concentration of Dermanier Of] [Effect on Concentration of Dermanier Of]		
Concomitant Drug Class Drug Name Examples	Effect on Concentration of Darunavi Concomitant Drug	Clinical Comment
HIV-1-Antiviral Agents: Nucleoside Reverse didanosine	Transcriptase Inhibitors (NRTIs) « darunavir « didanosine	Didanosine should be administer one hour before or two hours af darunavir/ritonavir (which a
HIV-1-Antiviral Agents: HIV-Protease Inhibit	cors (PIs)	administered with food).
indinavir	darunavir indinavir	The appropriate dose of indinavir combination with darunavir/ritona has not been established.
(The reference regimen for indinavir was ndinavir/ritonavir 800/100 mg twice daily.) lopinavir/ritonavir		nas not been established.
opiilavii/i koilavii	darunavir kopinavir	Appropriate doses of the combination have not be established. Hence, it is recommended to co-administration of the co-adm
saquinavir	darunavir « saquinavir	recommended to co-administ opinavir/ritonavir and darunavir, w or without ritonavir.
Other HIV protease inhibitors, except atazanavir see Drug Interactions (7.4)]	« saquinavir	Appropriate doses of tombination have not be established. Hence, it is recommended to co-administ saquinavir and darunavir, with without ritonavir.
		As co-administration w darunavir/ritonavir has not be studied, co-administration not recommended.
HIV-1-Antiviral Agents: CCR5 co-receptor a maraviroc	ntagonists	When used in combinat
	0	When used in combinat with darunavir/ritonavir, the dose maraviroc should be 150 twice daily.
Other Agents		
Alpha 1-adrenoreceptor antagonist: alfuzosin	[] alfuzosin	Co-administration is contraindicate due to potential for serious and/or life-threatening reactions such as hypotension.
Antibacterial:	« darunavir	
clarithromycin	« darunavr [clarkhromycin	No dose adjustment of combination is required for patie with normal renal function. For administration of clarithromycin a darunavir/ritonavir in patients w renal impairment, the following de adjustments should be considered:
		For subjects with CLcr of 30-mL/min, the dose clarithromycin should be reduce by 50%. For subjects with CLcr of < mL/min, the dose clarithromycin should be reduce by 75%. On the dose clarithromycin should be reduced by 75%.
Anticoagulants:		
anticoagulants (DOACs) ppixeban] apixaban	Due to potentially increased bleed risk, dosing recommendations for sidministration of apixaban warmanayir/knawir depend on spixaban dose. Refer to apixaban dosing instructions for sidministration with P-gp and stro-
rivaroxaban	☐ rivaroxaban	administration with P-gp and stro CYP3A inhibits in apixaban prescribing information
dabigatran etexilate edoxaban	dabigatran edoxaban	Co-administration darunavir/ritonavir and rivaroxabar not recommended because it m lead to an increased bleeding risk.
Other Anikospulints.	1 warfarin • darumavir	Refer to the dabigatran eteovidue todosaban preser Bhay information recommendations regarding administration. The spec recommendations are based indication, renal function, and efficient renal function, and efficient result for the concentration of dabigation adoxaban. Clinical monitoring recommended when a DOAC: Infect of the present the concentration of the present the concentration of dabigating recommended when a DOAC: OFF3AA but transport by P-gp. Including dabigating the present the pres
		Warfarin concentrations a decreased when co-administe with darunavi/ritona it is recommended that international normalized ratio (INR) monitored when warfarin combined with darunavir/ritonavir.
Anticonvulsants: carbamazepine	« darunavir [] carbamazepine	The dose of eith darunavir/itonavir or carbanearing does not need to be adjusted with ming co-administration of the darunavir/itonavir carbanearepine. Cin monitoring of carbanearepine concentrations and its do stration is recommended to achie the desired clinical response.
clonazepam	[] clonazepam	Clinical monitoring of anticonvulsar
phenobarbital, phenytoin	« darunavir ↓ phenytoin ↓ phenobarbital	s recommended. Phenytoin and phenobarbital lev should be monitored when a administering with darunavir/ritonar
Antidepressants: Seisclus: Erotomin Reuptake Innibitors: ISSRb: Daroxedine, sertrafne	I paroxetine I sertraline	If either sertraline or paroxetinin nitiated in patients received the SSN based on a clin ssessment of antidepress response is recommended. Monifor antidepressant response obtaints on a stable dose sertraline or paroxetine who st reatment with derunavie/infonavir.
Tricyclic Antidepressants (TCAs): amitriptyline, desipramine, imipramine, nortriptylir	☐ desipramine	
Other: trazodone	i mipramine nortriptyline trazodone	Use a lower dose of the tricy antidepressants and trazodone o to potential increased adverse ever such as nausea, dizzine hypotension and syncope.
Antifungals: itraconazole, isavuconazole,	[] darunavir	
radomazole, savuconazole, eteoconazole, eteoconazole, posaconazole	i i i i i i i i i i i i i i i i i i i	Monitor for increas darunavir/fronavir and/or antifum sdverse events with concomitant of these antifungais. When i sdministration is required, the di- dose of ketoconazole or iraconaz should not exceed 200 mg w monitoring for increased antifum adverse events.
		Voriconazole is not recommend for patients receiving darunavir/rkonav unless an assessment compar predicted benefit to risk ratio justif the use of voriconazole.
Anti-gout: colchicine	[] colchicine	Co-administration is contraindical in patients with renal and/or heps impairment due to potential serious and/or Intreatening reactions.

		administration of co patients on darunavirin 0.6 mg (1 tablet) × 1 do by 0.3 mg (half tablet) 1 Treatment course to be rearier than 3 days.
		Prophylaxis of gout-ladministration of contents on darunaviring the original regimen twice a day, the regimen to 0.3 be adjusted to 0.3.
		day. If the original regimen once a day, the regime adjusted to 0.3 mg other day.
		Treatment of Mediterranean fever administration of creatment of the patients on darunsvirh maximum daily dose of the given as 0.3 mg twice.
Antimalarial: artemether/lumefantrine	artemether dhydroartemisini umefantrine darunavir	The combinal darunavir firktonavir and artemether/lumefantrine is without dose adjustment the combination should be caution as increased exposure may increase QT prolongation.
Antimycobacterials: rifampin	↓ darunavir	Co-administration is conduct to potential for therapeutic effect and confresistance.
rifabutin (The reference regimen for rifabutin was 300 mg once daily.)	☐ darunavir ☐ rifabutin 25-O desacetyl-ifabutin	Dose reduction of rifa east 75% of the usual do once daily) is recommen maximum dose of 150 other day). Increased me adverse events is in patients receiving this
rifapentine	- darunavir	in patients receiving this and further reduction of rifable be necessary. Co-administratio darunavir/rikonavir with root recommended.
Antineoplastics: dasatinb, nilotinib	[] antineoplastics	
vinblastine, vincristine		A decrease in the do adjustment of the dosin dasathib and nilotinis necessary for patients. to the and nilotinib prescribing for dosing instructions.
		For vincristine and consideration should be temporarily withholding I containing antiretroviral patients who develop hematologic or gastroin effects when darun
		vincristine or vinblast sincristine or vinblast antiretroviral regimen withheld for a prolon consideration should b initiating a revised regim not include a CYP3A or P
Antipsychotics: lurasidone pimozide	lurasidone pimozide	Co-administration is co due to potential for se life-threatening reactions. Co-administration is co
quetiapine] quetispine	due to potential for se life-threatening reacti as cardiac arrhythmias.
		intesion of darun konavi in patients takin Consider alternative quetapine exposures sidministration is necess the quetapine dose to current dose and for quetapine associated adverse react Refer to the quetapine adverse reaction monitor adverse reaction adverse adverse reaction monitor adverse reaction adverse
e.g. perphenazine, risperidone, thioridazine	antipsychotics	Initiation of que astients taking with ritonavic; Refer to the quesiapine information for initial sitration of questiapine. A decrease in the antipsychotics that are by CYP3A or CYP2D6 me when co-
β-Blockers: e.g. carvedilol, metoproiol, timolol] beta-blockers	when co-with darunavir/ritonavir. Clinical monitoring of recommended. A dose of be needed for these dru administered with darun and a lower dose of the
Calcium Channel Blockers: amlodipine, dikiazem, felodipine, nicardipine, nifedipine, verapamil	[] calcium channel blockers	should be considered. Clinical monitoring of pa
nifedipine, verapamil Cardiac Disorders: ranolazine, ivabradine	ranolazine i wabradine	Co-administration is co
dronedarone	[] dronedarone	fe-threatening reactions Co-administration is co due to potential for se ife-threatening react as cardiac arrhythmias.
Other antiarrhythmics, e.g. amiodarone, bepridi, disopyramide, flecainide, lidocaine (systemic), mexiletine, propafenone, quinidine digoxin	antiarrhythmics digoxin	Therapeutic c monitoring, available, is recomm antiarrhythmics wh administered with daruna
	U aguss	The lowest dose of di initially be prescribed. digoxin concentrations monitored and used fo digoxin dose to obtain
Corticosteroids: dexamethasone (systemic)	- darunavir	Clinical effect. Co-administratic darunavi pritanavi pr
Corticosteroids primarily metabolized by CYP3A: eg. betamethasone budesonide ciclesonide	[] corticosteroids	therapeutic effect and of resistance to daruna alternative corticosteroid Co-administration corticosteroids (all administration) of which are significantly inc strong CYP3.6 hibblors
Nuicasone methyprednisone momelasone triamcholone		strong CiP2A inhibators, the risk for Cushing's systematic systems and suppression. Alternative to concluding becomes the concluding becomes produced to the considerative to the considerative the considerative the consideration of the consi
Endothelin receptor antagonist: bosentan	[]bosentan	Co-administration of patients on darunavir/rito In patients who have b darunavir/ritonavir for days, start bosentan once daily or every based upon individual to!
		Co-administration Co-administration farunaviritonavir in an basentan. Discontinue use of bose fa hours prior to farunaviritonavir
Ergot derivatives: e.g. dihydroergotamine, ergotamine,] ergot derivatives	Co-administration is co
methylergonovine		as acute ergot toxicity of the peripheral vasos is schemia of the extrother tissues.

glecaprevir/pibrentasvir	glecaprevir	elevations.
Marhal product:		Co-administration of darunavir/ritonavir will glecaprevir/pibrentasvir is no recommended
Herbal product: St. John's wort (Hypericum perforatum)	¯ darunavir	Co-administration is contraindicate due to potential for reduced plasm concentrations of darunavi which may result in loss otherapeutic effect an development of resistance.
Hormonal contraceptives:		Effective alternative (nor hormonal) contraceptive method or barrier method of contraception recommended (see Use in Specif Consistence (2.31)
ethinyl estradiol, norethindrone, drospirenone	ethinyl estradiol norethindrone drospirenone: effects unknown	Populations (8.3)]. For co-administration witerospirenone, clinical monitoring recommended due to potential for hyperkalemis. No data are available to make recommendations on coadministration with other hormonal contraceptives.
Immunosuppressants: e.g. cyclosporine, tacrolimus, sirolimus	[] immunosuppressants	Therapeutic concentration
Immunosuppressant/neoplastic: everolimus irinotecan		of the immunosuppressive agent in recommended when co-administers with darunavir/ritonavir. Co-administration of everolimus an darunavir/ritonavir not recommended.
		Discontinue darunavir/ritonavir a east 1 week prior to startin rinotecan therapy. Do not administe darunavir/ritonavir with irinoteca unless there are n therapeutic alternatives.
Inhaled beta agonist: salmeterol	[] salmeterol	Co-administration of salmeterol an darunawi/rikonawir is recommended. The combination ma result in increased risk cardiovascular adverse event associated with salmeterol, includin QT prolongation, palptations an sinus tachycardia.
Lipid Modifying Agents: HMG-CoA reductase inhibitors: lovastatin, simvastatin	□ lovastatin □ simvastatin	Co-administration is contraindicate
atorvastatin, pravastatin, rosuvastatin	smvastatn	due to potential for serious reaction such a myopathy including rhabdomyolysis.
Other lipid modifying agents: iomitapide] lomitapide	Co-administration of darunavir/rikonavir with HMG-Co . reductase inhibitors may lea to adverse events such as myopath. Trate atorvastatin, pravastatin or rosuvastatin dose carefully an use the lowest necessary dose with
		use the lowest necessary dose whit monitoring for adverse events. D not exceed atorvastatin 20 mg/day. Co-administration is contraindicate due to potential for marked increased transaminases.
Narcotic analgesics metabolized by CYP3A: e.g. fentanyl, oxycodone	fentanyl oxycodone	Careful monitoring of therapeuti effects and adverse reaction
		Careful monitoring of therapeuti effects and adverse reaction ssociated with CYP34 metabolized narcotic analgesics (including potentially feat respirator depression) is recommended with co administration.
tramadol	[tramadol	A dose decrease may be needed for tramadol with concomitant use.
Narcotic analgesics/treatment of opioid dependence: buprenorphine, buprenorphine/naloxone	« buprenorphine, naloxone [] norbuprenorphine (metabolite)	No dose adjustment for buprenorphine or buprenorphine/haloxone is require with concurrent administration or darunawi/rikonawir. Clinical monitorin is recommended darunawi/rikonawir and
methadone	~ methadone	buprenorphine o buprenorphine/naloxone are co administered.
Opioid Antagonist		No adjustment of methadon dosage is required when initiating co- administration of darunavir/itlonavi However, clinical monkoring in recommended as the dose or methadone during maintenancherapy may need to be adjusted i some patients.
naloxegol	[]naloxegol	Co-administration of darunavir/ritonavir and naloxegol is contraindicated due to potential for precipitating opioi withdrawal symptoms.
e.g. avanafil, sildenafil, tadalafil, vardenafil	pDLS-shiblers (only the use of sidenall and does used for treatment of excelled dyfunction has been studied with darunaw/ntonawr)	Lo administration will assume visual manuscription of the property of the prop
		Co-administration of todalafil patients on derunavir/fichonavir in patients received in patients on week, start todalafil at 20 m once daily, lncrease to 40 m once daily based upon individual tolerability. Co-administration of darunavir/fichonavir in patients of tadalafil.
		section of stateful during the instanton of stamoundrhimmers. So baddelli at feet 24 hours prior 1 section of stamoundrhimmers and stateful during the state one week following the libertune of deuronary/fromers to 40 mg core daily base poor reckload tolerability. Statemal at a single does not exceeding 2.5 mg does in 7.2 hour contents of the stateful deuronary for PDES stateful at a single does not exceeding 1.0 mg does in 7.2 hour contents of a single does not exceeding 1.0 mg does in 7.2 hour contents of the property of the PDES stateful deuronary for PDES stateful associated others are for PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not make the property of the PDES stateful associated does not not the property of the PDES stateful associated does not not the property of the PDES stateful associated does not
Platelet aggregation inhibitor: ticagrebr	[] ticagrelor	Co-administration darunavir/ritonavir and ticagrelor not recommended.
clopidogrel	1 clopidogrel active metabolite	not recommended. Co-administration darunavir/ritonavir and clopidogrel not recommended due to potenti reduction of the antiplatelet activity of
prasugrel	↔ prasugrel active metabolite	not recommended due to potenti reduction of the antiplatelet activity or clopidogrel. No dose adjustment is needed whe prasugrel is co-administered will darunavir/ritonavir
Proton pump inhibitor: omeprazole	omeprazole « darunavir	When omeprazole is co administered with darunavir/ritonavi monitor patients for decrease efficacy of omeprazole. Conside norceasing the omeprazole dose patients whose symptoms are no well controlled; avoid use of most han 40 mg per day of omeprazole.
Sedatives/hypnotics: orally administered midazolam, triazolam	[] midazolam triazolam	Co-administration is contraindicate sue to potential for serious and/or de-threatening reactions such properties of the contraindicate or representation of the contraint of the

metabolized by CYP3A e.g. buspirone, diazepam, estazolam, zolpidem	sedatives/hypnotics	darunavir may cause large increases in the concentrations of these benzodiazepines.
parenterally administered midazolam		Tration is recommended when co- administering darunavir/itonavir with sedatives/hypnotics metabolized by CYP3A and a lower dose of the sedatives/hypnotics should be considered with monitoring for adverse events.
		Co-administration of parenteral midazolam should be done in a setting which ensures close clinical monitoring and appropriate medical management in case of respiratory depression and/or prolonge deadation. Dosage reduction for midazolam should be considered, especially # more than a single dose of midazolam is administered.
Urinary antispasmodics fesoterodine	[] fesoterodine	When fesoterodine is co- administered with darunavir/ritonavir, do not exceed a fesoterodine dose of
solfenacin	[] soffenacin	4 mg once daily. When solifenacin is co- administered with darunavir/ritonavir, do not exceed a solifenacin dose of 5 mg once daily.

7.4 Drugs without Clinically Significant Interactions with Darunavi

No dosage adjustments are recommended when darunavir/ritonavir is co-administered with the following medications: abtarnavir, dolutegravir, elavierur, etravirine, nevirapire, nucleoside reverse transcriptase inhibitors (abacovir, entritricitabine, entravirine), entravirine, merinapire, metrodovir aldernamide, lamixudine, stavudine, tendrovir disoproxif fumarate, zidovudine, plativastatin, radegravir, entidicite, or riphirine.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Prenancy Exposure Reastry
There is a pregnancy exposure registry that monitors pregnancy outcomes in women
the prenancy exposure registry that monitors pregnancy outcomes in women
register patients by calling the Antiercroward Pregnancy Registry (APR) 1-800-2594-263.

There is a pregnancy expansive symmetry through the providers are encouraged and exposed to detained using pregnancy. Healthcare providers are encouraged as exposed to detained using pregnancy. Healthcare providers (ABM 500-258-4263. Bids Summary)

Prospective pregnancy data from the ARP are not sufficient to adequately assess the risk of bith defects or miscarrage. Available Intelled data from the ARP has on an other statement of the ARP. The estimated the ARP is a sufficient of the Metropolitan Albrids Congenia Defects Program (MACDI) (see Data). The rate of miscarrage is not reported in the ARP. The estimated background risk of the ARP is a U.S. reference population of the Metropolitan Albrids Congenia Defects Program (MACDI) (see Data). The background risk of major bith defects and miscarrage for the indicated population is unknown.

Studies in animals did not show evidence of developmental toxicity. Exposures, Debaddies than 1-0-100 than human exposures at the recommended daily dose (See Data). Clinical Considerations.

(less than 1-foil) than human responsers at the recommended day dose (see Data). [Cancil Consistration pile in preparint patients is durunavé 600 mg latken with ritansir 100 mg livec daily with food. 100 mg livec daily with food. Durunavis 800 mg laten with ritansir 100 mg once day's should only be considered in certain preparint patients; who are already on a stable durunave 800 mg with ritansir certain preparint patients; who are already on a stable durunave 800 mg with ritansir less than 50 copies per mit,, and in vitino at change to take day durunaver 600 mg with ritansir 100 mg may compromise belradility or complainer (see Dosage and Administration 2.4 and Cincal Pharmacology (12.3)).

Administration (2-4) and Clinical Pharmacology (12-3)).

Data

Human Data

Data

Data

Human Data

Data

Data

Data

Human Data

Dat

The pharmacokinetic data demonstrate that exposure to darunavir and ritonavir as part of an antiretroviral regimen was lower during pregnancy compared with postpartum (6-12 weeks). Exposure reductions during pregnancy were greater for the once daily regimen as compared to the twice daily regimen (see Clinical Pharmacology (12-3)).

Virologic response was preserved. In the BID arm, the proportion of subjects with HIV-1 RNA ~50 copies/ml. were 99% (7/18) at baseline, 0.1% (11/18) through the third trimetter veid, and 5% (11/18) (11/18) in 61/12 weeks potal-partum viet. Virologic 1.8% (11/18) in 61/12 weeks potal-partum viet. Virologic 1.8% (11/18) at 18/12 (11/18) at 18/12

were missing for 3 subjects (3 subject discontinued) prematurely due to viriologic failure). Destrums/informs was well tolerated during pregnancy and soppstantum. There were no new clinically relevant safety friedges compared with the known safety profile of removed and the safety relevant safety friedges compared with the known safety profile of removed and the safety of the Animal Data

Animal Data Reproduction studies conducted with darunavir showed no embryetoxicity or teralogenicity in mice (doscue up to 1,000 mg/kg from getation day (GI) 6-15 with darunavir darbel and rate (doscue up to 1000 mg/kg from CI) 7-19 in the presence or darunavir darbel and rate (doscue up to 1000 mg/kg from CI) 7-19 in the presence or with darunavir aborels in these butdles, darunavir apposures (based on AUC) were higher in ratis (3-16)), whereas in mice and rabble, apposures were lover (lost shot in folio) compared to those obtained in humans at the recommended clinic ald dose of darunavir bootself with fromeir.

8.2 Lactation

B.2 Lectation

B&S Summan:
The Centers for Disease Control and Prevention recommend that HIV-infected mothers.
The Centers for Disease Control and Prevention recommend that HIV-infected mothers.
There are no total on the presence of disrumar's in human milk, the effects on the breastfel infent, or the effects on milk production, Durnave's present in the milk of the present of the prevention of the present of the prevention of the prevention

8.3 Females and Males of Reproductive Potential

Contraction.

We of defundavi may reduce the efficacy of combined hormonal contraceptives and the
progestin only pll. Advise patients to use an effective alternative fron-hormonal
contraceptive method or dark a barrier method of contraception. For co-administration
with drosprenose, clinical monitoring is recommended due to the potential for
hypertakemia (see Four files extraction.) 2019.

B.4 Pediatric Use

Darunsvirtenavi is not recommended in pediatric patients below 3 years of age because of toxcly and mortality observed in juvenile rats dosed with darunavi processors of the processor of toxcly and mortality observed in juvenile rats dosed with darunavi processors. The processors of the processors

8.5 Geriatric Use Clinical studies of darumavir did not include sufficient numbers of patients aged 65 years and over to determine whether they respond differently from younger patients. In general, caution should be exercized in the administration and monitoring of durumavir needley patients, reflecting the greater frequency of decreased hepatic function, and of concentrate disease or other drug therapy (see Clinical Pharmacology (12.3));

Concomment assess or other to try threat year. Lanks a reastractory (12.3).

8.6 Hepatic Impairment

No dosage adjustment of darunswirthnaws' in necessary for patients with either mild or molecular hepatic repairment. No phermacobinetic or safety data are available regarding darunswirthnaws in a commended for use in patients with severe hepatic majoriment (see Dosage and Administration 1.6.6) and Cinche Afharmacology (2.3).

8.7 Renal Impairment

6.7 Action Impartment
Population pharmacokinetic analysis showed that the pharmacokinetics of darunavir
were not significantly affected in HIV-infected subjects with moderate renal impairmer
(CrCL between 30-60 mL/min, n=20). No pharmacokinetic data are available in HIV-1
infected patients with severe renal impairment or end stage renal disease; however,

ause the renal clearance of darunavir is limited, a decrease in total body clearance is expected in patients with renal impairment. As darunavir and ritonavir are highly and to plasma proteins, it is unlikely that they will be significantly removed by nodialysis or peritoneal dialysis [see Clinical Pharmacology (12.3)].

10 OVERDOSAGE

Human experience at date overdose with darunaviritonse's is inheld. No specific
anticle is enabled for overdose with darunavir. Teatment of a loverdose with darunavir
consists of general supportive measures including monitoring of vial-signs and
bonevation of the clinical status of the paties. Time derivance's in highly protein bound,
dialysis is unitely to be beneficial in significant removal of the active substance.

11 DESCRIPTION

11 DESCRIPTION

Deruwark is an inhibitor of the human immunodeficiency virus (HVI-1) protesse.
Deruwark tablets contain the active ingredient deuruner, present as drumark

[[daminophenylos] and the protein of the pro



Darunwir (Amorphous) is a white to off-white powder which is soluble in dichloromethane, sparreyly soluble in methanol and insoluble in water.
Darunwir 60m gribbeits: Belge colorent, owishaped, bloomer, film-coated tablets, debossed with "H" on one side and "500" on other side.
Darunwir 60m gribbeits: Belge colorent, owishaped, bloomer, film-coated tablets, debossed with "H" on one side and "500" on other side.
Darunwir 60m gribbeits: Darunwir 60m gribbei

12.1 Mechanism of Action

unavir is an HIV-1 antiviral drug [see Microbiology (12.4)].

<u>Cardiac Electrophysiology</u> in a thorough QTQTC study in 40 healthy subjects, darunavir/rkonavir doses of 1.33 times the maximum recommended dose did not affect the QTQTC interval.

12.3 Pharmacokinetics

Pharmacokinetics in Adults

Dharmacokinetics in Adults

Harmacokinetics in Adults

Harmacokinetics in Adults

Harmacokinetics in Adults

Harmacokinetics in Adults

Dharmacokinetics in Adults

Dharmacokinetics

D

	Darunavir / 800/100 mg		Darunavir / ritonavir 600/100 mg twice daily						
Parameter				TMC114- C229 N=278	TMC114-C213 + TMC114-C202 (integrated data N=119				
AUC24h (ng.h/	mL) ^a								
Mean ± Standard Deviation	93026 ± 27050	93334 ± 28626	116796 ± 33594	114302 ± 32681	124698 ± 32286				
Median (Range)	87854 (45000- 219240)	87788 (45456- 236920)	111632 (64874- 355360)	109401 (48934- 323820)	123336 (67714-212980)				
C0h (ng/mL)	•	•							
Mean ± Standard Deviation				3386 ± 1372					
Median (Range)	2041 (368-7242)	1896 (184-7881)	3307 (1517- 13198)	3197 (250-11865)	3539 (1255-7368)				

N=number of subjects with data
\$AUC.24h is calculated as AUC.12h*2.
Absoration and Signosibality.
Darunker, co-administered with 1,00 mg rknnsvir twice daily, was absorbed following
oral administration with 1 mg, of approximately 2.5-4 hours. The absolute oral
biosoxibality of a single 600 mg dose of darunker done and effer co-administration with
administration with 1 mg, of approximately 2.5-4 hours. The absolute oral
biosoxibality of a single 600 mg dose of darunker done and effer co-administrated with a mishador of the Popurportion Pg) plar prasporters.

Effects of Food on Oral Absoration.

Effects of Food on Oral Absoration.

Effects of Food on Oral Absoration and Popurportion Pg) purposed that

effects of Food on Oral Absoration

Effects of Effects of Contraction

Effects of Food on Oral Absoration

Effects of Food on Oral Absorati

Within the range of meak studied, durance's region unapproximately with the range of meak studied, durance's experience of control of the range of meak studied, durance's experience in the range of t

Table 12: Population Pharmacokinetic Estimates of Darunavir Exposure (Trials TMC114-C230, TMC114-C212 and TMC114-C228) Followino Administration of Doses in Tables 2 and 3

	Darunavir/ritonavir once daily	twice daily				
			TMC114	-C228¢		
Parameter	TMC114- C230 a N=12	TMC114- C212 N=74	10 to less than 15 kg ^b N=10	15 to less than 20 kg ^d N=13		
AUC24h (ng·h/mL)						
Mean ± Standard Deviation	84390 ± 23587	126377 ± 34356	137896 ± 51420	157760 ± 54080		
Median (Range)	86741 (35527-123325)	127340 (67054- 230720)	124044 (89688- 261090)	132698 (112310- 294840)		
C0h (ng/mL)			•	•		
Mean ± Standard Deviation	2141 ± 865	3948 ± 1363	4510 ± 2031	4848 ± 2143		
Median (Range)	2234 (542-3776)	3888 (1836- 7821)	4126 (2456- 9361)	3927 (3046- 10292)		

N=number of subjects with data.

a Summary statistics for population pharmacokinetic parameter estimates for DRV after administration of DRV after

Pregnancy and Postpartum
The exposure to total darunivir and ritonavir after intake of darunavir/ritonavir 600/100
mg once daily as part of an antiretroviral regimen was generally lower during pregnancy compared with postpartum (see Table 13, Table 14 and figure 1).

13, Table 14 and Figure 1).

Table 13: Pharmacokinetic Results of Total Darunavir After
Administration of darunavir/ritonavir at 600/100 mg Twice Daly as Part of an
Antivertoval Regimen, During the 2nd Trimester of Pregnancy, the 3rd
Trimester of Pregnancy and Postpartum

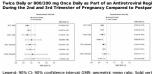
Pharmacokinetics of total darunavir (mean ± standard deviation)	2nd Trimester of pregnancy (n=12) ^a		Postpartum (6- 12 Weeks) (n=12)
Cmax, ng/mL	4668 ± 1097	5328 ± 1631	6659 ± 2364
AUC24h, ng.h/mL ^b	78740 ± 19194	91760 ± 34720	113780 ± 52680
Cmin, ng/mL	1922 ± 825	2661 ± 1269	2851 ± 2216

an=11 for AUC24h
PAUC24h is carciusted as AUC12h2.

Table 141. — Pharmacokinetic Results of Yotal Darunavir After
Table 141. — Pharmacokinetic Results of Yotal Darunavir After
Antibetroviral Regimen, During the 2nd Trimester of Pregnancy and Postbartum
Trimester of Pregnancy and Postbartum

Pharmacokinetics of total darunavir (mean ± standard deviation)	2nd Trimester of pregnancy (n=17)	3rd Trimester of pregnancy (n=15)	Postpartum (6- 12 Weeks) (n=16)
Cmax, ng/mL	4964 ± 1505	5132 ± 1198	7310 ± 1704
AUC24h, ng.h/mL	62289 ± 16234	61112 ± 13790	92116 ± 29241
Cmin, ng/mL	1248 ± 542	1075 ± 594	1473 ± 1141

Due to an increase in the unbound fraction of darunavir during pregnancy compared to postpartum, unbound darunavir exposures were less reduced during pregnancy as considered to the concerning of the concerning



Legend: 90% CI: 90% confidence interval; GMR: geometric mean ratio. Solid vertical line: ratio of 1.0; dotted vertical lines: reference lines of 0.8 and 1.25.

Legend: 99% C: 19% confidence interval. GARS: generative mean ratio. Solid vertical line: reference interval of late: reference interval of la

Co-	Dose/Schedule		N	PK	Pharmac wit admir	LS Mean ratio (90% Ci) of darunavir Pharmacokinetic parameters with/without co- administered drug no effect =1.00		
idministered drug	Co- administered Drug	Darunavir/ gritonavir			C _{max}	AUC	Cmin	
Co-administration wit	h other HIV prote	ase inhibitors				•		
Atazanavír	300 mg q.d. ^a	400/100 mg b.i.d. ^b	13	**	1.02 (0.96- 1.09)	1.03 (0.94- 1.12)	1.01 (0.88- 1.16)	
Indinavir	800 mg b.i.d.	400/100 mg b.id.	9	Ť	1.11 (0.98- 1.26)	1.24 (1.09- 1.42)	1.44 (1.13- 1.82)	
Lopinavir/ritonavir	400/100 mg b.i.d. 533/133.3 mg b.i.d.	1200/100 mg b.id. ^c 1200 mg b.id. ^c	15		0.79 (0.67- 0.92) 0.79 (0.64- 0.97)	0.62 (0.53- 0.73) 0.59 (0.50- 0.70)	0.49 (0.39- 0.63) 0.45 (0.38- 0.52)	
Saquinavir hard gel apsule	1000 mg b.i.d.	400/100 mg b.id.	14	Ţ	0.83 (0.75- 0.92)	0.74 (0.63- 0.86)	0.58 (0.47- 0.72)	
Co-administration wit	h other HIV antire	trovirals	_	_				
Didanosine	400 mg q.d.	600/100 mg b.i.d.	17	**	0.93 (0.86- 1.00)	1.01 (0.95- 1.07)	1.07 (0.95- 1.21)	
Efavirenz	600 mg q.d.	300/100 mg b.i.d.	12	1	0.85 (0.72- 1.00)	0.87 (0.75- 1.01)	0.69 (0.54- 0.87)	
Etravirine	200 mg b.i.d.	600/100 mg b.i.d.	15	**	1.11 (1.01- 1.22)	1.15 (1.05- 1.26)	1.02 (0.90- 1.17)	
Nevirapine	200 mg b.i.d.	400/100 mg b.id.	8	Ť	1.40 ^d (1.14- 1.73)	1.24 ^d (0.97- 1.57)	1.02 ^a (0.79- 1.32)	
Rilpivirine	150 mg q.d.	800/100 mg q.d.	15	**	0.90 (0.81- 1.00)	0.89 (0.81- 0.99)	0.89 (0.68- 1.16)	
Tenofovir disoproxil umarate	300 mg q.d.	300/100 mg b.id.	12	Ť	1.16 (0.94- 1.42)	1.21 (0.95- 1.54)	1.24 (0.90- 1.69)	
Co-administration wit	h other drugs	•	_	_				
Artemether/lumefantrine	80/480 mg	600/100 mg	14	**	1.00	0.96	0.87	

	(6 doses at 0, 8, 3 36, 48, and 60 hours)			(0.93- 1.07)	(0.90- 1.03)	(0.77-0.98)
Carbamazepine	200 mg b.i.d.	600/100 mg b.id.	16 ↔	1.04 (0.93- 1.16)	0.99 (0.90- 1.08)	0.85 (0.73-1.00)
Clarithromycin	500 mg b.i.d.	400/100 mg b.id.	17 **	0.83 (0.72- 0.96)	0.87 (0.75- 1.01)	1.01 (0.81-1.26)
Ketoconazole	200 mg b.i.d.	400/100 mg b.id.	14 1	1.21 (1.04- 1.40)	1.42 (1.23- 1.65)	1.73 (1.39-2.14)
Omeprazole	20 mg q.d.	400/100 mg b.id.	16 ↔	1.02 (0.95- 1.09)	1.04 (0.96- 1.13)	1.08 (0.93-1.25)
Paroxetine	20 mg q.d.	400/100 mg b.id.	16 ↔	0.97 (0.92- 1.02)	1.02 (0.95- 1.10)	1.07 (0.96-1.19)
Pitavastatin	4 mg q.d.	800/100 mg q.d.	27 ↔	1.06 (1.00- 1.12)	1.03 (0.95- 1.12)	NA
Ranitidine	150 mg b.i.d.	400/100 mg b.i.d.	16 ↔	0.96 (0.89- 1.05)	0.95 (0.90- 1.01)	0.94 (0.90-0.99)
Rifabutin	150 mg q.o.d.º	600/100 mg b.id.	11 †	1.42 (1.21- 1.67)	1.57 (1.28- 1.93)	1.75 (1.28-2.37)
Sertraine	50 mg q.d.	400/100 mg b.id.	13 ↔	1.01 (0.89- 1.14)	0.98 (0.84- 1.14)	0.94 (0.76-1.16)

N = number of subjects with data

*a_ct = once daily

*b_id_ = basic edaily

* b_id_ = basic edaily

*The pharmacokinetic parameters of darunavir in this study were compared with the pharmacokinetic parameters following administration of darunaviritionavir

*data basic on betterned study comparison.

Table 16: Drug Interactions Administered Drugs in the I	I		Г	_	LS Mean	ratio (90%	CI)
				pharmace with/w		ninistered of kinetic para thout daru	irug met navir
Co-administered drug	Dose/Schedule Co-administered drug	Darunavir/	N	PR			
Co-administration with oth	er HIV protease inhibitors	ritonavir			Cmax	AUC	Cmi
Atazanavir	300 mg q.d. ^a /100 mg ritonavir	400/100 mg	13	**	0.89	1.08	1.5
	q.d. when administered alone	b.i.d. b			(0.78-1.01)	(0.94-1.24)	2.3
	300 mg q.d. when administered with darunavir/ ritonavir						
Indinavir	800 mg b.i.d. /100 mg ritonavir b.i.d. when administered alone	400/100 mg b.i.d.	9	Ť	1.08 (0.95-1.22)	1.23 (1.06-1.42)	2.2
							3.1
	800 mg b.i.d. when administered with darunavir/ ritonavir						
Lopinavir/ritonavir	400/100 mg b.i.d. ^c	1,200/100 m g b.id.	14	*	0.98 (0.78-1.22)	1.09 (0.86-1.37)	1.2 (0.9 1.6
	533/133.3 mg b.i.d. ^c	1,200 mg b.i.d.	15	**	1.11 (0.96-1.30)	1.09 (0.96-1.24)	1.1
							1.4
Saquinavir hard gel capsule	1,000 mg b.i.d. /100 mg ritonavir b.i.d. when	400/100 mg b.i.d.	12	*	0.94 (0.78-1.13)	0.94 (0.76-1.17)	0.8 (0.5 1.3
	administered alone						1.3
	1,000 mg b.i.d. when administered with darunavir/ ritonavir						
Co-administration with other	er HIV antiretrovirals 400 mg g.d.	600/100 mg	17	**	0.84	0.91	-
		b.i.d.			(0.59-1.20)		
Dolutegravir	30 mg q.d	600/100 mg b.i.d.	15	1	0.89 (0.83-0.97)	0.78 (0.72-0.85)	0.6 (0.5 0.6
Dolutegravir	50 mg q.d.	600/100 mg b.i.d. with 200	9	ı	0.88	0.75 (0.69-0.81)	0.63
		b.i.d. with 200 mg b.i.d. etravirine	1		(J. 78-1.00)	(18.0-69.0)	0.76
Efavirenz	600 mg q.d.	300/100 mg b.i.d.	12	t	1.15 (0.97-1.35)	1.21 (1.08-1.36)	1.1
		D.C.O.	L	L	(0.51-1.35)	(1.uo-1.3b)	1.3
Etravirine	100 mg b.id.	600/100 mg b.i.d.	14	ı	0.68	0.63	0.5
					(0.57-0.82)	(0.54-0.73)	(0.4 0.6
Nevirapine	200 mg b.i.d.	400/100 mg b.i.d.	8	†	1.18 (1.02-1.37)	1.27 (1.12-1.44)	1.4 (1.2 1.8
Rilpivirine	150 mg q.d.	800/100 mg	14	t	1.79	2.30	2.2
		q.d.			(1.56-2.06)	(1.98-2.67)	(2.3
Tenofovir disoproxil fumarate	300 mg q.d.	300/100 mg b.i.d.	12	†	1.24 (1.08-1.42)	1.22 (1.10-1.35)	1.3
Maraviroc	150 mg b.i.d.	600/100 mg	12	+	2 29	4.05	8.0
Pier and Co.	130 mg b.tu.	b.i.d.			2.29 (1.46-3.59)	4.05 (2.94-5.59)	(6.3
		600/100 mg b.i.d. with 200	10	t	1.77 (1.20-2.60)	3.10 (2.57-3.74)	5.2
		mg b.i.d. etravirine					6.1
Co-administration with oth		I					
Atorvastatin	40 mg q.d. when administered alone	300/100 mg b.i.d.	15	†	0.56 (0.48-0.67)	0.85 (0.76-0.97)	1.8 (1.3 2.4
	10 mg q.d. when administered with darunavir/ritonavir						27
Artemether Dihydroartemisinin	80 mg single dose	600/100 mg b.i.d.	15	1	0.85 (0.68-1.05)	0.91 (0.78-1.06)	-
,			15	†	1.06 (0.82-1.39)	1.12 (0.96-1.30)	
Artemether Dihydroartemisinin Lumefantrin	artemether/ lumefantrine 80/480 mg	600/100 mg b.i.d.	15	Ţ	0.82	0.84	0.9
onyarou comprin concident	(6 doses at 0, 8, 24, 36, 48, and 60 hours)	5.00.					1.0
			15	1	0.82 (0.66-1.01)	0.82 (0.74-0.91)	1.0 (0.8 1.2
			15	t	1.65	2.75	2.2
					(1.49-1.83)	(2.46-3.08)	2.6
		600/100 mg	17	*	0.92 ° (0.79-1.08)	0.89 ° (0.78-1.02)	0.98 (0.8
Buprenorphine/ Naloxone	8/2 mg to 16/4 mg q.d.	b.i.d.				1.46	1.7
Buprenorphine/ Naloxone Norbuprenorphine	8/2 mg to 16/4 mg q.d.	b.i.d.	17	t	1.36 (1.06-1.74)	$(1.15 \cdot 1.85)$	
	8/2 mg to 16/4 mg q.d.	b.i.d.	17	Ť	1.36 (1.06-1.74)	(1.15-1.85)	(1.2
	8/2 mg to 16/4 mg q.d. 200 mg b.i.d.	b.i.d.	17	†	(1.06-1.74)	1 45	2.2
Norbuprenorphine		600/100 mg b.i.d.		†	1.43 (1.34-1.53)	1.45 (1.35-1.57)	1.5 (1.4 1.6
Norbuprenorphine Carbamazepine		b.i.d.	16	t	1.43 (1.34-1.53)	1.45 (1.35-1.57)	1.5 (1.4 1.6 0.4 (0.4
Norbuprenorphine Carbamazepine		600/100 mg b.i.d.	16	t	1.43 (1.34-1.53) 0.46 (0.43-0.49)	1.45 (1.35-1.57) 0.46 (0.44-0.49)	1.5 (1.4 1.6 0.4 (0.4 0.5
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarithromycin	200 mg bid.	600/100 mg b.i.d. 400/100 mg b.i.d.	16	t	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3
Norbuprenorphine Carbamazepine Carbamazepine epoxide	200 mg b.i.d.	600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg single dose	16 16	t	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.72 (1.332.23)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarithromycin	200 mg bid.	600/100 mg b.i.d. 400/100 mg b.i.d.	16	t	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarithromycin	200 mg bid.	600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg single dose 800/100 mg	16 16	1 1	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (0.891.67)	1.45 (1.35·1.57) 0.46 (0.44·0.49) 1.57 (1.35·1.84) 1.72 (1.332.23) 1.18 (0.901.53)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarbiromycin Dabigatran elexiate	200 mg b.id. 500 mg b.id. 150 mg	600/100 mg b.id. 400/100 mg b.id. 800/100 mg single dose 800/100 mg q.d. ⁴	16 16	1 1	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (0.891.67) 2.27 (1.59-3.26)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.72 (1.332.23) 1.18 (0.901.53) 2.70 (1.80-4.05)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarishromycin Dabigatran etexiste	200 mg b.id. 500 mg b.id. 150 mg	b.i.d. 600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg single dose 800/100 mg b.i.d.	16 16	† †	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (0.891.67) 2.27 (1.59-3.26) 0.87 (0.77-0.98)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.18 (0.901.53) 2.70 (1.80-4.05) 0.96 (0.90-1.03)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarathromych Dabigatran etexiate Dextromethorphan Dextrorphan	200 mg b.id. 500 mg b.id. 150 mg 30 mg	b.i.d. 600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg single dose 800/100 mg d.d. 600/100 mg b.i.d.	16 16 17 14 13	† † † † †	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (0.891.67) 2.27 (1.59-3.26) 0.87 (0.77-0.98) 1.15 (0.89-1.48)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.72 (1.332.23) 1.18 (0.901.53) 2.70 (1.80-4.05) 0.96 (0.90-1.03) 1.36 (0.90-1.23)	(1.2 2.2 1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3 3.2)
Norbuprenorphine Carbamazepine Carbamazepine epoxide Carbamazepine epoxide Clar bitromych Dabigatran etexiate Destromethorphan Destrorphan Digoxin Ethinyi estradoi (EE)	200 mg b.id. 500 mg b.id. 150 mg	b.i.d. 600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg single dose 800/100 mg b.i.d.	16 16 17 14 13 12	1 1 1 1	(1.06-1.74) 1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (1.59-3.26) 0.87 (0.77-0.98) 1.15 (0.89-1.48) 0.68 (0.61-0.74)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.72 (1.33-2.3) 1.18 (0.901.53) 2.70 (1.80-4.05) 0.96 (0.90-1.03) 1.36 (0.81-2.27)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3 3.2)
Norbuprenorphine Carbamazepine Carbamazepine epoxide Clarathromych Dabigatran etexiate Dextromethorphan Dextrorphan	200 mg b.id. 500 mg b.id. 150 mg 30 mg 0.4 mg	b.i.d. 600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg b.i.d. 800/100 mg d.d. 600/100 mg b.i.d. 600/100 mg	16 16 17 14 13	† † † † †	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (0.891.67) 2.27 (1.59-3.26) 0.87 (0.77-0.98) 1.15 (0.89-1.48)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.18 (0.901.53) 2.70 (1.80-4.05) 0.96 (0.90-1.03) 1.36 (0.81-2.27)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3 3.2)
Norbuprenorphine Carbamazepine Carbamazepine epoxide Claretivonycn Dabigatran etexiste Dextromethorphan Dextromethorphan Dextrorphan Digoxin Ethinyl estradiol (EE) Norethindrone (NE)	200 mg b.id. 500 mg b.id. 150 mg 30 mg 0.4 mg Ortho-Novum 1/35 (35 kg EE /z mg NE)	b.i.d. 600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg q.d. 600/100 mg b.i.d. 600/100 mg b.i.d.	16 16 17 14 13 12	1 1 1 1	1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212-23) (0.891.67) (0.89-1.68) (0.89-1.68) (0.89-1.48) (0.89-1.48) (0.89-1.48) (0.89-1.48) (0.89-1.48) (0.89-1.48)	1.45 (1.35-1.67) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.18 (0.901.53) 2.70 (1.80-4.05) 0.96 (0.90-1.03) 1.36 (0.81-2.27) 0.56 (0.50-0.63) 0.86 (0.75-0.98)	1.5 (1.4 1.6 0.4 (0.4 0.5 2.7 (2.3 3.2) 0.3 (0.2 0.5 0.5 0.5 0.5
Norbuprenorphine Carbamazepine Carbamazepine epoxide Carbamazepine epoxide Clar bitromych Dabigatran etexiate Destromethorphan Destrorphan Digoxin Ethinyi estradoi (EE)	200 mg b.id. 500 mg b.id. 150 mg 30 mg 0.4 mg	b.i.d. 600/100 mg b.i.d. 400/100 mg b.i.d. 800/100 mg b.i.d. 800/100 mg d.d. 600/100 mg b.i.d. 600/100 mg	16 16 17 14 13 12	1 1 1 1	(1.06-1.74) 1.43 (1.34-1.53) 0.46 (0.43-0.49) 1.26 (1.03-1.54) 1.64 (1.212.23) 1.22 (0.891.67) 2.27 (1.59-3.26) 0.87 (0.77-0.98) 1.15 (0.89-1.48) 0.68 (0.61-0.74)	1.45 (1.35-1.57) 0.46 (0.44-0.49) 1.57 (1.35-1.84) 1.72 (1.33-2.3) 1.18 (0.901.53) 2.70 (1.80-4.05) 0.96 (0.90-1.03) 1.36 (0.81-2.27)	1.5 (1.4 1.6 0.4 (0.4 (0.5 2.7 (2.3 3.2)

1	ĺ	1	l		1	1	0.94)
Omeprazole	40 mg single dose	600/100 mg b.i.d.	12		0.66	0.58 (0.50-0.66)	
5-hydroxy omeprazole				1	0.93 (0.71-1.21)	0.84 (0.77-0.92)	-
Paroxetine	20 mg q.d.	400/100 mg b.i.d.				0.61 (0.56-0.66)	0.63 (0.55- 0.73)
Pitavastatin	4 mg q.d.	800/100 mg q.d.			0.96 (0.84-1.09)	0.74 (0.69-0.80)	NA
Pravastatin	40 mg single dose	600/100 mg b.i.d.	14	†	1.63 (0.95-2.82)	1.81 (1.23-2.66)	
Rifabutin	150 mg q.o.d. 9 when administered with darunavir / ritonavir	600/100 mg b.i.d. h	11	†	0.72 (0.55-0.93)	0.93 (0.80-1.09)	1.64 (1.48- 1.81)
25-O-desacetyl rifabutin	300 mg q.d. when administered alone		11		4.77 (4.04-5.63)	9.81 (8.09-11.9)	27.1 (22.2- 33.2)
Sertraine	50 mg q.d.	400/100 mg b.i.d.				0.51 (0.46-0.58)	0.51 (0.45- 0.57)
Sidenafi	100 mg (single dose) administered alone 25 mg (single dose) when administered with darunavir/ ritonavir	400/100 mg b.i.d.			0.62 (0.55-0.70)	0.97 (0.86-1.09)	
S-warfarin	10 mg single dose	600/100 mg b.i.d.	12	1	0.92 (0.86-0.97)	0.79 (0.73-0.85)	
7-OH-S-warfarin			12	t	1.42 (1.24-1.63)	1.23 (0.97-1.57)	-

N= number of subjects with data; - = no information available 2 q.d. = once daily 2 b.t.d. = twice daily 2 b.t.d. = twice daily 2 high permackinetic parameters of biphsavir in this study were compared with the pharmackinetic parameters following administration of biphsavir/intensivi 400/100 mg 2

pharmacolitence, parameters following administration of lapinavi/ritonavir 400/ twice daily.

8 Noted as C₂ or C₂ is the doubtegravir U.S., prescribing information
Radio for bruperoriphine, mean C₂₀₀₀ and AUC₂ ya for aboxone were compara-when bupernoriphine-haloscone was administered with or without darunavir/tion (600000 mg q.d. for 14 days before co-administered with dailyatran etexisties.)

8 In comparison to rifabulin 300 mg once daily.

Darwane' did not show artigoposim when studied in combination with the Pis annex, the NIRTIA below. Jedination. emitted trademic the NIRTIA devication. Introduce, and the NIRTIA devication. Introduce and the NIRTIA devication. Introduce when the control was the new formation of the NIRTIA devication. Introduce which devication is not control when been called the new formation of the NIRTIA devication. In the NIRTIA devication of the NIRTIA devication of

groups, colides from / (1/601/1%) and 4 (14.04.2 TM), whothey latavier, respectively, organized and sold of the colides of the

transcriptates MIBAV substation and/or resistance to entriclablen, which was included in the flock background regime, was destified in 4 visops failure from the duruswirkbrowsi arm and 7 visobge failures in the bipinavirkbrowsi arm and 7 visobge failures in the bipinavirkbrowsi arm and 7 visobge failures in the bipinavirkbrowsi arm of 10 visops failures in the bipinavirkbrowsi arm of 10 visos resistance armong his has been observed. Burnuswir has a less than 10-fold decreased susceptibility in cell cuture. Biosephate 10 visos resistant to these Pis remain susceptible to dirunavir. Durunavir-resistant viruses were not susceptible to amprenavir, adaransiv; indinavir, indinavir, indinavir, indinavir, resistant viruses selected in cell cuture. Biosephate 10 visor resistant viruses selected in cell cuture from Pierestantivi viruses showed a fold change resistant viruses selected in cell cuture. Biosephate viruses showed a fold change cannows and prawnir. In trails MICHAE 10,13. INCLIA 10-CO2, and TMCI14-C215.
34%. (64/187) of subjects in the durunavir informavir arm whose baseline folders and cannows and prawnir. In trails MICHAE 10,13. INCLIA 10-C20, and TMCI14-C215.
34%. (64/187) of subjects in the durunavir informavir arm whose baseline folders in the durunavir informavir arm whose baseline folders in the durunavir informavir informa

inhibitors, non-nucleoside reverse transcriptase inhibitors, fusion inhibitors, CCR5 cor-receptior antiagonius, or ritergose inhibitors is unitely because the virial trargets are Baseline. Genotyper/Phenotypes and Visobeic. Outcome Analyses. Genotype: andro prehenotype analyse is beserielve virus may ad in determining darunauf susceptibility before initation of darunaufintonius vido/100 for givine daily thereigy. The analyzed in ast-treated analyses using posite data from the contraval of the new Analyzed in ast-treated analyzed using booted data from the contraval of the new Analyzed in ast-treated analyzes using booted data from the contraval of the new Analyzed in ast-treated analyzes using booted data from the contraval of the new Analyzed in ast-treated analyzes using booted data from the contraval of the office of the new Analyzed in ast-treated analyzed in a state of the new Analyzed in a

Table 17: Response to darunavir/ritonavir 600/100 mg Twice Daily by Baseline Number of IAS-Defined Primary PI Resistance-Associated Substitutions: As-treated Analysis of Trials TMC114-C213, TMC114-C202, and TMC114-C215

IAS-defined primary PI Week 96 N=439 Week 96 N=439 Overall de novo ENF Re-used/No EN 44% (192/439) 54% (61/112) 50% (162/322) 58% (49/85) 22% (16/74) 47% (9/19) 40% (131/327) 48% (113/237) 13% (7/55) 22% (16/74)

1	l		
≥6	9% (3/32)	17% (1/6)	8% (2/26)

ENF-enfuvirtide

IAS Pirmay PI Substitutions (2008): D30N, V32L 133F, M46IL, Is17AV, G46V, IS0LV,

IS4LM, L76V, V92AF/ILS7T, IB4V, NBSS, 190M

The presence all baseline of two or more of the substitutions V111, V32L 133F, IA7V,

The presence all baseline of two or more of the substitutions V111, V32L 133F, IA7V,

The presence all baseline of two or more of the substitutions V111, V32L 133F, IA7V,

The presence all baseline of two or more of the substitutions V111, V32L 133F, IA7V,

The presence all baseline of two or more of the substitutions of the presence of the substitution of the presence of the presence of the substitution of substitution o

Baseline DRV phenotype	Proportion of subjects with <50 copies/mL at Week 96 N=417					
	All	de novo ENF	Re-used/No ENF			
Overall	175/417 (42%)	61/112 (54%)	131/327 (40%)			
0 - 7	148/270 (55%)	44/65 (68%)	104/205 (51%)			
>7 - 20	16/53 (30%)	7/17 (41%)	9/36 (25%)			
>20	11/94 (12%)	6/23 (26%)	5/71 (7%)			

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

13.1 Carchiogenesis, Mutagenesis, Impairment of Fertility
Carchiogenesis, and Mutagenesis.
Darunavir was evaluated for carchiogene potential by oral gavage administration to mice
Carchiogenesis, and Mutagenesis.
The carchiogenesis of the carc

once dally.

Detunavir was not mutagenic or genotoxic in a battery of in vitro and in vivo assays including bacterial reserve mutation (Ames), chromosomal aberration in human lymphocytes and in vivo micronucleus test in mice.

Intelligence of the data of the

14 CLINICAL STUDIES

14.1 Description of Adult Clinical Trials

13.1 Description for Adult cuttle all trains. Shored on the malples of 132-week The advance of description of the advance of the malples of 132-week. The advance of the

experienced INV1-infected adult subjects

18C114C111

day IFTC.

HVI-1-infected subjects who were eligible for this trial had plasma HVI-1 RNA greater than or equal to 5000 copieshm. Randomization was stratified by screening plasma visit when required to the received process of the received process of the received plasma review of the received plasma review

Table 19: Demographic and Baseline Characteristics of Subjects in Trial TMC114-C211

	Darunavir/ritonavir 800/100 mg once daily + TDF/FTC N=343	lopinavir/ritonavir 800/200 mg per day + TDF/FTC N=346
Demographic characte	ristics	
Median age (years) (range, years)	34 (18-70)	33 (19-68)
Sex		
Male	70%	70%
Female	30%	30%
Race		
White	40%	45%
Black	23%	21%
Hispanic	23%	22%
Asian	13%	11%
Baseline characteristi	rs	
Mean baseline plasma HIV-1 RNA (log ₁₀ copies/mL)	4.86	4.84
Median baselne CD4+ cell count (cells/mm ³) (range, cells/mm ³)	228 (4-750)	218 (2-714)
Percentage of patients with baseline viral load ≥100,000 copies/mL	34%	35%
Percentage of patients with baseline CD4+ cell count <200 cells/mm3	41%	43%

riu-emriciabine, ID=tenotovir disoproxi furmarde
Week 192 outcomes for subjects on darumavir/itonavir 800/100 mg once daly from trial
TMC114-C211 are shown in Table 20.
Table 20: Virologic Outcome of Randomized Treatment of Trial TMC114C211 at 192 Weeks

	Darunavir/ritonavir 800/100 mg once daily + TDF/FTC N=343	lopinavir/ritonavir 800/20 mg per day + TDF/FTC N=346
Virologic success HIV-1 RNA <50 copies/mL	70% ^a	61%
Virologic failure ^p	12%	15%
No virologic data at Week 192 window ^c		
Reasons		
Discontinued trial due to adverse event or death ^d	5%	13%
Discontinued trial for other reasons ^e	13%	12%
Missing data during window ^c but on trial	<1%	0%

N = total number of subjects with data; FTC=emtricitabine; TDF=tenofovir disoproxil fumarate a 95% CI: 1.9; 16.1

b.

Includes plaints who discontinued prior to Week 192 for back or bos of efficacy and patients who are a 50 copies in the 192
Fixed prior to Week 192 for back or bos of efficacy and patients who are a 50 copies in the 192
Weeken 196-198 Weeks.

A "Avoidable plaints who discontinued due to advance even to drain a ray time point of earth and the product from the prior that the prior to the prior even to the prior even to the prior even to the dath and you for point of which from they 1 through the time window if this resulted in no wrobigic data on treatment during the specified window.

e Other includes: withdrew consent, loss to follow-up, etc., if the viral load at the time of discontinuation was <50 copies/mL

the viral load 14 cC11 at 15 green and the time of fide (continuation was <50 copesint). In that IMC114 cC11 at 15 green at least ment, the median increase from baseline in in that IMC114 cC11 at 15 green at 15

14.3 Treatment-Experienced Adult Subjects

34.11 LE/228

TMC114-C/229 is a randomized, open-label trial comparing darunavir/itonavir 800/100 mg once daily to darunavir/itonavir 800/100 mg twice daily in treatment-experienced HVI-1-infected politicism with screening perotype resistance test showing not darunavir resistance associated substitutions (ic. V111, V221, LEF, IAV, ISOV, IS

earlier. Table 21 compares the demographic and baseline characteristics between subjects in the daranear/intensive 800/100 mg once days are and subjects in the daranear/intensive 800/100 mg once days are and subjects in the daranear/intensive way of the subject in the subject of the subject in the subject of the subject in Trial TMC114-CEV in the subject in t

	Darunavir/ritonavir 800/100 mg once daily + OBR N=294	Darunavir/ritonavir 600/100 mg twice daily + OBR N=296
Demographic character	stics	I
Median age (years) (range, years)	40 (18-70)	40 (18-77)
Sex		
Male	61%	67%
Female	39%	33%
Race		
White	35%	37%
Black	28%	24%
Hispanic	16%	20%
Asian	16%	14%
Baseline characteristics		
Mean baseline plasma HIV-	419	4.13
1 RNA (log ₁₀ copies/mL)	4.19	4.13
Median baseline CD4+ cell count (cells/mm ³) (range, cells/mm ³)	219 (24-1306)	236 (44-864)
Percentage of patients with baseline viral load ≥100,000 copies/mL	13%	11%
Percentage of patients with baseline CD4+ cell count <200 cells/mm ³	43%	39%
Median darunavir fold	0.50 (0.1-1.8)	0.50 (0.1-1.9)
change (range) a Median number of resistance-associated b:		
PI mutations	3	4
NNRTI mutations	2	1
NRTI mutations	1	1
Percentage of subjects susceptible to all available Pls at baseline	88%	86%
Percentage of subjects with number of baseline primary protease inhibitor mutations b:		
0	84%	84%
1	8%	9%
2	5%	4%
≥3	3%	2%
Median number of ARVs previously used ^{C:}		
NRTIs	3	3
NNRTIs	1	1
Pls (excluding low- dose ritonavir)	1	1

OBR-optimized background regimen

^a Based on phenotype (kntiv/ogram[®]).

^b Johnson VA, BrunVeiznet F, Chels B, et all Update of the drug resistance mutations in HIV
1: December 2008. Top HIV Med 2008; 16(5): 138-145

z: u:cember 2008. 10p HIV Med 2008: 16(5): 138-145

Colly counting ANY, excluding low does reloasiv

Week 48 outcomes for subjects on darunsein/tensavi 800(100 mg once daily from trial

TACLI14-C239 are shown in Table 22.

Table 22: Virologic Outcome of Randomized Treatment of Trial TMC114C229 at 48 Weeks.

	Darunavir/ritonavir 800/100 mg once daily + OBR N=294	Darunavir/ritonavir 600/10 mg twice daily + OBR N=296
Virologic success HIV-1 RNA <50 copies/mL	69%	69%
Virologic failure a	26%	23%
No virologic data at Week 48 window ^b		
Reasons		
Discontinued trial due to adverse event or death ^c	3%	4%
Discontinued trial for other reasons	2%	3%
Missing data during window but on trial	0%	<1%

N = total number of subjects with data; OBR=optimized background regimen

a.

Includes patients who descontinued prior to Week 48 for lack or loss of efficacy, patients who are ±50 copies in the 48week various, patients who descontinued prior to Week 48 for lack or loss of efficacy, patients who are ±50 copies in the 48week various, patients who face drange in their background regimen that was not permitted in the protocol (provided their last available viral load was detectable (HV RNA ±50 copies/incl.)

**Of whore 42-54 the efficacy of the continued for reasons other than AEs/death and lack or loss of efficacy (provided their last available viral load was detectable (HV RNA ±50 copies/incl.)

**Of whore 42-54 the efficacy of the continued for reasons other than AEs/death and lack or loss of efficacy (provided their last available viral load was detectable (HV RNA ±50 copies/incl.)

**Of whore 42-54 the efficacy of the continued for reasons other than AEs/death and lack or loss of efficacy (provided their last available viral load was detectable (HV RNA ±50 copies/incl.)

**Of whore 42-54 the efficacy of the continued for reasons other than AEs/death and lack or loss of efficacy (provided their last available viral load was detectable (HV RNA ±50 copies/incl.)

**Of whore 42-54 the efficacy of the continued for reasons other than AEs/death and lack or loss of efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy of the efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy of the efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy of the efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy of the efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy of the efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy of the efficacy (provided their last available viral load was detectable)

**Of whore 42-54 the efficacy (prov

In Window 42-54 Weeks

Patients who discontinued due to adverse event or death at any time point from Day 1 through the time window if this resulted in no virologic data on treatment during the specified window.

John Committee of the Committee

Table 23: Demographic and Baseline Characteristics of Subjects in Trial TMC114-C214

	Darunavir/ritonavir 600 mg twice daily + OB N=298	0/100 lopinavir/ritonavir 400/100 R mg twice daily + OBR N=297
Demographic characteristics		
Median age (years) (range, years)	40 (18-68)	41 (22-76)
Sex		
Male	77%	81%
Female	23%	19%
Race		
White	54%	57%
Black	18%	17%
Hispanic	15%	15%
Asian	9%	9%

Baseline characteristics		
Mean baseline plasma HIV-1 RNA (log ₁₀ copies/mL)	4.33	4.28
Median baseline CD4+ cell count (cells/mm³) (range, :ells/mm³)	235 (3-831)	230 (2-1096)
Percentage of patients with baseline viral load ≥100,000 copies/mL	19%	17%
Percentage of patients with baseline CD4+ cell count <200 cells/mm3	40%	40%
Median darunavir fold change (range)	0.60 (0.10-37.40)	0.60 (0.1-43.8)
Median lopinavir fold change (range)	0.70 (0.40-74.40)	0.80 (0.30-74.50)
Median number of resistance-associated a:		
PI mutations	4	4
NNRTI mutations	1	1
NRTI mutations	2	2
Percentage of subjects with number of baseline primary protease inhibitor mutations ^a :		
<1	78%	80%
2	8%	9%
≥3	13%	11%
Median number of ARVs previously used b:		
NRTIs	4	4
NNRTIs	1	1
Pls (excluding low-dose ritonavir)	1	1
Percentage of subjects resistant ^c to all available ^a PIs a baseline, excluding darunavir	2%	3%

OBK=Optimized background regimen

3 Johnson VA, BrunVezinet F, Clotet B, et al. Update of the drug resistance mutations in HIV1: Fall 2006. Top HIV Med 2006; 14(3): 125-130

1: Fal 2006. Top HM Med 2006; 14(5): 125-130

**Only counting Anky, excluding low best reloasiv*

Gased on phenotype (Antivrogram).

**Gommercially awaldable Pls at the time of trial enrolment.

**Week 96 outcomes for subjects on darunavir/tronsv/ 600/100 mg bixe of alsy from trial

**TRCL14-C124 are shown Table 24.

**Table 24: **Virologic Outcome of Randomized Treatment of Trial TMC114-C124 at 96 Weeks.

	Darunavir /ritonavir 600/100 mg twice daily + OBR N=298	lopinavir/ritonavir 400/10 mg twice daily + OBR N=297
Virologic success HIV-1 RNA <50 copies/mL	58%	52%
Virologic failure a	26%	33%
No virologic data at Week 96 window ^b		
Reasons		
Discontinued trial due to adverse event or death ^c	7%	8%
Discontinued trial or other reasons	8%	7%
Missing data during window but on trial	1%	<1%

N = total number of subjects with data: OBR-optimized background regimen

* Includes patients who discontinued prior to Week 96 for fact or loss of efficacy and patients who are a50 copies in the 96week window and patients who had a change in their OBR that was not permitted by

Or Windows 90.10 Weeks.

The protocol.

**Window 90 1.02 Weeks.

**Includes patients who discontinued due to adverse event or death at any time point from Day 1 through the time window if this resulted in no virologic data on treatment until my the specified window.

**Gither includes: withdrive connect, bis so follow up, de., if the viral bad at the time of all continuation was 250 copesims.

In trull PACL14-C214 as 96 weeks of treatment, the median increase from baseline in adverse connection of the control of the cont

Table 25: Demographic and Baseline Characteristics of Subjects in the Trials TMC114-C213 and TMC114-C202 (Pooled Analysis)

+ OBR N=131	PI(s) + OBR
	N=124
	_
43 (27-73)	44 (25-65)
89%	88%
11%	12%
81%	73%
10%	15%
7%	8%
. !	
4.61	4.49
153 (3-776)	163 (3-1274
24%	29%
67%	58%
4.3	3.3
12	12
1	1
5	5
3	
8%	9%
22%	21%
70%	70%
+	
6	6
1	1
5	5
r 63%	61%
20%	17%
	99% 11% 11% 11% 11% 11% 10% 17% 4.61 153 (3-776) 86 24% 67% 4.3 11 12 1 1 5 8% 22% 79% 6 1 1 5 6 3 1 5 6 5 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7

^bBased on phenotype (Antivirogram[®]). ^c Commercially available PIs at the time of trial enrollment

96 outcomes for subjects on the recommended dose darunavir/ritonavir 600/100 ice daily from the pooled trials TMC114-C213 and TMC114-C202 are shown in

Table 26: Outcomes of Randomized Treatment Through Week 96 of the Trials TMC114-C213 and TMC114-C202 (Pooled Analysis)

	Randomized trials TMC114- and TMC114-C202	C213
	Darunavir/ritonavir 600/100 mg twice daily + OBR N=131	Comparator PI(s) + OBR N=124
Virologic responders confirmed at least 1 log ₁₀ HIV-1 RNA below baseline through Week 96 (<50 copies/mL at Week 96)		10% (9%)
Virologic failures	29%	80%
Lack of initial response a	8%	53%
Rebounder ^D	17%	19%
Never suppressed ^c	4%	8%
Death or discontinuation due to idverse events	9%	3%
Discontinuation due to ther reasons	5%	7%

^a Subjects who did not achieve at least a confirmed 0.5 log₁₀ HIV-1 RNA drop from baseline at Week 12

 $^{\rm b}$ Subjects with an initial response (confirmed 1 log $_{10}$ drop in viral load), but without a confirmed 1 log $_{10}$ drop in viral load at Week 96

constread 1 logic drop in viril load at Week 96

Chiplets shin open excelled a confirmed 1 logic drop in viril load before Week 96
In the pooled trish TMC114 C213 and TMC114 C202 through 48 weeks of the reportion of subjects with HIV-1 14M kees than 440 conjectific. In the arm receiving durunawir inflament 600/100 mg twice daily compared to the comparator PI arm was 500/100 mg twice daily compared to the comparator PI arm was 500/100 mg twice daily compared to the comparator PI arm. The mean increase from basedine in 0-43 of comparator (in the comparator PI arm. The mean increase from basedine in 0-43 of comparator in was higher in the arm receiving durunawirthcrawire 600/100 mg twice daily (103 cels/imm²) than in the comparator PI arm (117 cels/imm²).

14.4 Pediatric Patients

14.4 Pediatric Patients
The pharmacokinetic profile, safety and antiviral activity of durunavir/it/consiv were
The pharmacokinetic profile, safety and antiviral activity of durunavir/it/consiv were
TMC113-C121.
Treatment-coperienced profilers subjects between the spike of sare lates then 19 years
Treatment-coperienced profilers subjects. Between the spike of sare lates then 19 years
equate to 20 to 10 sets than 20 kg, greater than or equal to 30 kg to less than 40 kg,
greater than or equal to 40 kg lay and received adurunavir tablets with either formavir
professes inhibitor sentitive only and profilers subjects who were at risk of discontinuity
than the sent object of the sentitive sent of the sent of the

had previously used at least one PI. Secrety-seem pediant's subjects (60%), completed the 2-L-week peniod. Of the patients Secrety-seem pediant's subjects (60%), completed the 2-L-week peniod. Of the patient additional 2 patients discontinued for other reasons, one patient due to completion and additional 2 patients discontinued for other reasons, one patient due to completion and another patient due to relocation. See the 10% of 10% o

count from baseline was 117 cettimm— DECILE_1222 INDECILE_1222 INDECILE_1222 and weighing greater than or equal to 10 kg to less than 20 kg received darunave oral suppersons with France viral solution background therapy consisting of at least less to ne dose of darunavir/forunivir consisting or the supperson with replace to receive at less to ne dose of darunavir/forunivir consisting or the supperson of the supperson of

well active social accessory and accessory part of the past the social accessory of all beast the social accessory and accessory and accessory and accessory accessory. The 21 subjects had a median age of 4.4 years (range 10 less than 6 years), and were delify male, 57.9 less face, 29%. Caucasian and 1.4% other. The mean baseline of 40% male, 57.9 less face, 29%. Caucasian and 1.4% other. The mean baseline part of 40% o

16 HOW SUPPLIED/STORAGE AND HANDLING

Darunavir Tablets
• Store at 20° to 25°C (68° to 77°F); excursions permitted between 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

Keep darunavir tablets out of reach of children.

Advise the patient to read the FDA-approved patient labeling (Patient Information and Advise the patient to read the FDA-approved patient labeling (Patient Information and Institutions for Use Advise patients to take darunavir and ribratory with food every day on a regular dosting Advise patients to take darunavir and ribratory and representations of the advise patients for the advise patients in combination with other artifectives of drugs. Advise patients for the advise patients and to all every day of the projection of the continue ribratory, and continue therapy with continue ribratory and representations of the patients of th

Started (see Warnings and Precautions (5.8)).
<u>Pregnancy Registry</u>
Inform patients that there is an antiretroviral pregnancy registry to monitor fetal outcomes of pregnant women exposed to darunavir fsee Use in Specific Populations (8.1)]. Lactat Instru the ba

indian

uct women with HIV-1 infection not to breastfeed because HIV-1 can be passed to obby in breast milk [see Use in Specific Populations (8.2)].

Manufactured by: MSN Laboratories Private Limited Telangana – 509 228, INDIA.

INDIA

Distributed by:
Novadoz Pharmaceuticals LLC
Piscataway, NJ 08854-3714
Issued on: 11/2023

PATIENT INFORMATION

DARUNAVIR (dar ue' na vir)
tablez

Read this Patient Information before you start taking darunavir tablets and each time
you get a refil. There may be new information. This information does not take the place
of taking to you rhealthic see provider about your medial condition or you treatment.

```
Also read the Patient Information leaflet for ritonavir.

What is the most important information I should know about darun
                      ablebts?

Ake your healthcare provider or pharmacist about medicines that should not be taken with durunwid stablets. For more information, see "Who not be taken with durunwid stablets. For more information, see "Who provider before caking durunwid stablets?"

Darunwid stablets may cause liver problems. Some people taking durunwid stablets in combination with rithmore that everloped beer problems, which may be if a classical some problems with repairs and carried with the stablets in combination with rithmore that everloped beer problems, which may be if a durunwid stablet and rithmore combination treatment. If you have chronic hepatals to combination treatment. If you have chronic hepatals to combine the problems of the problems. They would be a combined to the combination of the problems. They would be a combined to the combined of the problems of the problems of the problems. They would be a combined to the problems of the problems of the problems. They would be a combined to the problems of the problems of the problems. The problems of the problems. The problems of the problems. The problems of the problems. The problems of the 
                            Vomiting vellowing of your skin or whites of your eyes
```

pain or tenderness on your right side below you
 pale colored stools (bowel movements)

Darunavir tablets may cause severe or life-threatening skin reactions or rash. Sometimes these skin reactions and skin rashes can become severe and rash. Sometimes these skin reactions and skin rashes can become severe and require treatment in a hospkal Tell your heabthcare provider right away if you dev a rash. Stop taking darunavit tablets and ritonavir combination treatment and tell your healthcare provider right away if you have any skin changes with symptoms below:

red or inflamed eyes. like "pink eye" (conjunctivitis)

to the set with other antiretroviral medicines to deal.....
y help:
y help:
reduce the amount of HIV-1 in your blood. This is called "viral load".
reduce the number of CD4+ (T) cells in your blood that help fight off other

infections.

Reducing the amount of HIV-1 and increasing the CD8+ (T) cells in your blood may improve your immune system. This may reduce your risk of death or getting infections between the property of the

ur healthcare provider if you have any questions on how to prevent passing HIV

other people.

no should not take darunavir tablets?

not take darunavir tablets with any medicine that contains:

alfuzosin colchicine, if you have liver or kidney problems dronedarone

dronedarone
ebasvir and grazoprevir
ergot-containing medicines:
dihydroergotamine
ergotamine tartrate
methylergonovine
ivabradine

 methylergonovine insbradine lomitapide lowastatin lurasidone midazolam, when taken by mouth naloxegol primozide ranolaxine rifampin sidenaff, when used for the treatn simusatatin en used for the treatment of pulmonary arterial hypertension (PAH)

Serious problems can happen if you or your child take any of these medicines with darunavir tablets. This is not a complete list of medicines. Therefore, tell your health

parunwar statets, lins a not a complete list of medicines. Therefore, tel your healthcar provider about of medicines you take.

Before taking darunavir tablets, tel your healthcar provider if you:

I wrough the provider is the provider before tablet ground to the provider if you:

I wrough the provider if your healthcare provider if you:

I wrough the provider if you have been provider if you.

I wrough the provider if you have been provider if you.

I wrough the provider if you have been provider if you.

I wrough the provider if you have been provider if you.

and allergic to sura memories
and allergic to sura memories
have emprofiles
have any other medical conditions.
have any other medical conditions
are pregnant or plan to become pregnant. Tell your healthcare provider if you
are pregnant or plan to become pregnant.
Pregnancy Registry. There is a pregnancy registry for women who take
antiretrovial medicines during pregnancy. The purpose of this registry is to cold information about the health of you and your baby. Talk to your healthcare
are breastfeeting or plan to breastfeet On ont breastfeet of you take duranture'.
You should not breastfeet if you have RIV-1 because of the risk of possing HIV-1
to your baby.

Talk to your healthcare provider about the best way to feet your baby.

Ill your healthcare provider about all the medicines you take, including escription and over-the-counter medicines, topical creams, vitamins, and herbal pilements. Some medicines interact with disrunavir tablets. Keep a list of your edicines to show your healthcare provider and pharmacist.

You can set your healthcare provider or pharmacist for a list of medicines that interact with darunavir tables.

Do not start taking a new medicine without telling your healthcare provider. Your healthcare provider can tell you if it is safe to take darunavir tables with other medicine.

provider. In of relating only one of the spour is a set to sake an universitates your should I take diamensor's tablest?

Take drannows tablest searchy as your healthcare provider tells you.

Take drannows tablest searchy as your healthcare provider tells you.

Do not change your dose or stop treatment with drannows' tablests without taking to
Take durnamows' tablests and returnaw' with food.

If you have efficulty swallowing durnamow' tablest, durnamow' rails suspension is abo
supposed in Fight (for you.

If your have efficulty swallowing durnamow' tablest, your child's healthcare provider will deput
pring doos beased in your child's healthcare provider will deput
pring doos beased in your child's healthcare provider will deput
tablest or solution) your child should take. Your child should take drannows' tablest
with fromowy with food! I your child does not tolerate fromow' or solution, you
table to resolution.

treatment. If you take too much darunavir tablets, call your healthcare provider or go to the nearest hospital emergency room right away.

If you take too much durunwir bablets, call your healthcare provider or go to the nearest hospidal emregency room right active. A substance of the possible side effects of darunavir tablets?

That are the possible side effects of darunavir tablets?

The possible side effects of darunavir tablets?

Diabetes and high blood sugar (hypersylpcomials. Some people who take probase inhibitors including darunavir tablets can get high blood sugar (hyeles) and the probase inhibitors including darunavir tablets can get high blood sugar (hyeles) and the probase inhibitors including darunavir tablets can get high blood sugar (hyeles).

Changes in body fat can happen in people who take influent in the changer in the possible of the can happen in people who take in IV-1 medicines. The changer may be a support to the probase in body fat can happen in people who take in IV-1 medicines. The changer may be a happen. The exact cause and long-term health effects of these conditions are not known. Surptime for the long in the conditions are not known as system (mixtume Reconstitution Syndrome) can happen then you start taking MVI-1 medicines. You immune system may get stronger and begin for fair including that health benefit high or you body for a long fate. If all your healthcase provider right away if you start having new syndroms after increased bleeding with protease inhibitors including durunavir tablets.

e most common side effects of darunavir tablets include: diarrhea

fell your healthcare provider if you have any size entance in the go away.

Indigo awa

Lall your doctor for medical advice about side effects. You m FDA at 1-800-FDA-1088. How should I store darunavir tablets?

• Store darunavir tablets at room temperature 77°F (25°C).

Association devices an observation of the reach of children. Seep daranamy tablets, and all medicines out of the reach of children. Beneral information about the safe and effective use of daranamy tablets. Information safet. On the daranamy tablets for a condition of which it was not precified. Do not give daranamy tablets on other people even if they have the same has belief summarises the most important information about carmany's tablets, and would like more information, table to your healthcare provider. You can ask your hashing provider or pharmactic for information about carmany's tablets and a write which are provider or pharmactic for information about carmany tablets in all write What are the ingredients in daranamy's tablets? What are the ingredients in daranamy's tablets?

Active ingredient: daruman's Darmander 600 mg tabalets : coloidal silcon dioxide. crospovidone, hydroxypropyl callubies, magnesium stearate, polocrifis potassium, silčinal microcrypistaline callusce solicythyline (pice) a 1250, policyni koriothori policythyline (pice) and talkanim dioxide. Darmander 800 mg tabalets : coloidal silcon dioxide. crospovidone, hydroxypropyl and sodium chitoria. The firm casting containes, are most energy lengthyline (pice) all 350 polykynig dachol-portally, hydroxyped, tait, and talamim dioxide. Maundacturated by insa been appressed by the 1.5. Food and Drug Administration. Maundacturated by: Thus been appressed by the 1.5. Food and Drug Administration.

MSN Laboratories Private Limited Telangana - 509 228, NDIA Distributed by: Novadoz Pharmaceuticals LLC Piscataway, N) 08854-3714 Issued on: 11/2023



	_						
DARUNAVI							
darunavir tablet	, film coated						
Product Info	rmation						
Product Type	imacion	HI MAN DOFSCORTION O			Code (Source)		-72705-184
		ODAI	IKUG	item	code (Source)	NUC	.:/2205-184
Route of Admir	nistration	ORAL					
Active Ingre	dient/Active	Moiety					
	Ingre	dient Name			Basis of Stre	nath	Streng
DARUNAVIR (UNI	Y0603Y8113) (DARLINAVIR - LINEYOSOTY	1113)		DARUNAVIR		600 mg
Inactive Ingr	edients						
SILICON DIOXIDI	ann erreen	Ingredient Nam	e				Strengt
		(UNI: 257830E561)				-	
		UNSPECIFIED (UNI: 9XZ	DHANKOH				
MAGNESIUM STE			armed UTI				
POLACRILIN POT							
		E (UNII: 0P1R32061U)					
SODIUM CHLORI							
		FIED (UNI: 532859990)					
FERRIC OXIDE Y							
FERRIC OXIDE R	ED (UNE: 1809F)	G675)					
POLYETHYLENE	GLYCOL 3350	UNI: G2M7P15E5P)					
TALC (UNI: 75EV)	(J4R1U)						
TITANIUM DIOXI	DE (UNE: 15FIXO	/2(P)					
Product Cha	ractorietice						
Color	YELLOW	(Seine)	Score			20.10	none.
Shape	OVAL (b)		Sire			19mm	_
Flavor		LUINEA	Imprin			M:60	
Contains				L COU			
Packaging							
# Item Code	P	ackage Description		Ma	rketing Start Date	Mari	keting Er Date
1 NDC:72205- 184-60	60 in 1 BOTTU Combination P	t, PLASTIC; Type 0: Not a roduct		11/2	9/2023		
Marketing							
Marketing		tion Number or Mon	ograph	Ma	rketing Start	Mar	keting En
Category	ANDAZ1531	Citation			Date 1/2023		Date

	rmation					
Product Type		HUMAN PRESCRIPTION D	UG Item	Code (Source)	NDO	72205-185
Route of Admir	nistration	ORAL				
Active Ingred	lient/Activ	e Moiety				
	Ingr	edient Name		Basis of Stre	ngth	Strength
DARUNAVIR (UNII:	YO603Y8113)	(DARLINAVIR - LINITYOSO3Y8	113)	DARUNAWR		800 mg
Inactive Ingr	edients					
		Ingredient Name	•			Strength
SILICON DIOXIDE						
		D (UNI: 257830E561)				
		, UNSPECIFIED (UNI: 9XZ I	HSN6OH)			
MAGNESIUM STE						
POLACRILIN POT		GEZ SAGOFQU) SE (UNII: OP1R32D61U)				
SODIUM CHLORIS					-	
		M7IQEX) CIFIED (UNI: 532859(990)			-	
		TIGATS)				
POLYETHYLENE	SLYCOL 3350	(UNE: G2M7P15E5P)				
POLYETHYLENE O	SLYCOL 3350 (4R1U)	(UNI: G2M7P15E5P)				
POLYETHYLENE O	SLYCOL 3350 (4R1U)	(UNI: G2M7P15E5P)				
POLYETHYLENE (TALC (UNI: 75EV7) TITANIUM DIOXIE	SLYCOL 3356 (4R1U) SE (UNI: 15FX	(UNIX: G2M7P15E5P) 9V2[P)				
POLYETHYLENE (TALC (UNIT 75EV7) TITANIUM DIOXIC Product Char	GLYCOL 3350 (4R1U) OE (UNI: 15FIX	(UNIX G2MTP15E5P) 9V2P)				
TALC (UNIX 75EV7) TITANIUM DIOXIC Product Char Color	SLYCOL 3350 (4R1U) SE (UNI: 15FIX acteristic: BROW	(UNIX G2M7P15E5P) 9V2P) 5	Score		no so	
POLYETHYLENE OF TALC (UNI: 75EV7) TITANIUM DIOXE Product Char Color Shape	SLYCOL 3350 (4R1U) SE (UNI: 15FIX acteristic: BROW	(UNIX G2MTP15E5P) 9V2P)	Size		20mm	n
POLYETHYLENE OF TALC (UNIX 75EV7) TITANIUM DIOXEC Product Char Color Shape Flavor	SLYCOL 3350 (4R1U) SE (UNI: 15FIX acteristic: BROW	(UNIX G2M7P15E5P) 9V2P) 5		fa .		n
POLYETHYLENE OF TALC (UNIX 75EV7) TITANIUM DIOXEC Product Char Color Shape Flavor	SLYCOL 3350 (4R1U) SE (UNI: 15FIX acteristic: BROW	(UNIX G2M7P15E5P) 9V2P) 5	Size	de	20mm	n
POLYETHYLENE OF TALE (UNIX 75EV). TITANIUM DIOXE Product Char Color Shape Flavor Contains	SLYCOL 3350 (4R1U) SE (UNI: 15FIX acteristic: BROW	(UNIX G2M7P15E5P) 9V2P) 5	Size	de	20mm	n
POLYETHYLENE OF TALE UNIV. TELEVITY TITANIUM DIOXEC Product Char Color Shape Flavor Contains Packaging	SELVEOL 3356 (4R1U) DE (UNE: 25FIX CACCESTAGE BROWN OVAL ((UNIK GZMIPP1265P) 9V2P) 5 6 biconvex(Size Imprint Co		20mr M;80	5
POLYETHYLENE OF TALE (UNIX 75EV) TITANIUM DIOXE Product Char Color Shape Flavor Contains Packaging # Item Code	SELVEOL 3356 (4R1U) DE (UNE: 15FDX SECTESTICE: BROWN CVAL ((UNIX GZMTP1265P) 9V2P) 5 6 Sloomwed Package Description	Size Imprint Co	de larketing Start Date	20mr M;80	n
POLYETHYLENE OF TALE UNIV. TELEVITY TITANIUM DIOXEC Product Char Color Shape Flavor Contains Packaging	SELVEOL 3356 (4R1U) DE (UNE: 15FDX SECTESTICE: BROWN CVAL ((UNIX GZMTP1265P) 9/2(P) 5 4 bliconwe) Package Description LL, PLASTE: Type & Not a	Size Imprint Co	larketing Start	20mr M;80	keting End
POLYETHYLENE OF TALE UNITE TERM TO THE U	BLYCOL 3356 HARU) DE (UNE: 15/10) C (UNE: 15/10) C (UNE: 15/10) C (UNE: 15/10) DE (UNE: 15/10)	(UME: G2MP15629) W/29) S Calconwool Package Description LE, PLATIC: Type & Net a	Size Imprint Co	larketing Start Date	20mr M;80	keting End

DARUNAVIR darunavirtablet, film coated