

אוגוסט 2021

רופא/ה, רוקח/ת נכבד/ה,

הנדון: <u>Tasigna 150& 200 mg capsules</u> מסיגנה 150 ב"ג, כמוסות

חברת נוברטיס ישראל בע"מ מבקשת להודיע על עדכון בעלון לרופא של התכשיר.

התכשיר בנדון מתווה להתוויות הבאות:

Tasigna 150 mg and 200 mg are indicated for:

Treatment of adult patients with newly diagnosed Philadelphia chromosome positive chronic myelogenous leukemia in chronic phase.

Tasigna 200 mg **only** is indicated for:

Treatment of Philadelphia chromosome positive chronic myeloid leukaemia (Ph+ CML) in chronic or accelerated phase in patients resistant to or experiencing significant toxicity during treatment with imatinib.

המרכיב הפעיל:

NILOTINIB (AS HYDROCHLORIDE MONOHYDRATE)

בהודעה זו מפורטים העדכונים המהותיים בלבד. למידע מלא על התרופה יש לעיין בעלון לרופא העדכני של התכשיר. (טקסט שנוסף מסומן <u>בצבע אדום עם קו תחתי,</u> טקסט שהוסר מסומן <u>בצבע אדום ובקו חצייה</u>, שינויים אשר מהווים החמרה מסומנים ברקע צהוב).

העלון לרופא נשלח לפרסום במאגר התרופות שבאתר משרד הבריאות, וניתן לקבלו מודפס על-ידי פניה לבעל הרישום נוברטיס ישראל בע"מ.

בברכה,

מרינה רוזנפלד רוקחת ממונה נוברטיס ישראל בע"מ

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע"מ

רחי תוצרת הארץ 6 ת.ד. 7126 תל אביב

טלפון: 03-9201123 פקס: 03-9201123



•••••

4.8 Undesirable effects

.....

Table 3 Adverse reactions in adult patients in Tasigna clinical studies (<5% of all patients)

Infections and in	festations		
Common:	Folliculitis, upper respiratory tract infection (including pharyngitis,		
	nasopharyngitis, rhinitis), pneumonia*		
Uncommon:	Urinary tract infection, gastroenteritis, bronchitis, herpes virus infection,		
	candidiasis (including oral candidiasis)		
Not known:	Sepsis, subcutaneous abscess, anal abscess, furuncle, tinea pedis, hepatitis B		
	reactivation		
	n, malignant and unspecified (including cysts and polyps)		
Common:	Skin papilloma		
Not known:	Oral papilloma, paraproteinaemia		
Blood and lymph	aatic system disorders		
Common:	Leukopenia, eosinophilia, febrile neutropenia, pancytopenia, lymphopenia		
Uncommon:	Thrombocythaemia, leukocytosis		
Immune system o	disorders		
Not known:	Hypersensitivity		
Endocrine disord	lers		
Uncommon:	Hyperthyroidism, hypothyroidism		
Not known:	Hyperparathyroidism secondary, thyroiditis		
Metabolism and	nutrition disorders		
Very common:	Hypophosphataemia (including blood phosphorus decreased)		
Common:	Electrolyte imbalance (including hypomagnesaemia, hyperkalaemia,		
	hypokalaemia, hyponatraemia, decreased appetite, hypocalcaemia,		
	hypercalcaemia, hyperphosphataemia), diabetes mellitus, hyperglycaemia,		
	hypercholesterolaemia, hyperlipidaemia, hypertriglyceridaemia		
Uncommon:	Dehydration, increased appetite, gout, dyslipidaemia		
Not known:	Hyperuricaemia, hypoglycaemia, appetite disorder		
Psychiatric disor	ders		
Common:	Depression, insomnia, anxiety		
Not known:	Disorientation, confusional state, amnesia, dysphoria		
Nervous system o	lisorders		
Common:	Dizziness, peripheral neuropathy, hypoaesthesia, paraesthesia		
Uncommon:	Intracranial haemorrhage, ischaemic stroke, transient ischaemic attack, cerebral		
	infarction, migraine, loss of consciousness (including syncope), tremor,		
	disturbance in attention, hyperaesthesia		
Not known:	Cerebrovascular accident, brain oedema, optic neuritis, lethargy, dysaesthesia,		
	restless legs syndrome, basilar artery stenosis		

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

רחי תוצרת הארץ 6 ת.ד. 7126 תל אביב

טלפון: 03-9201123 פקס: 03-9201123



Eye disorders	NOVARIIS
Common:	Eye haemorrhage, periorbital oedema, eye pruritus, conjunctivitis, dry eye
	(including xerophthalmia)
Uncommon:	Visual impairment, vision blurred, conjunctival haemorrhage, visual acuity
	reduced, eyelid oedema, photopsia, hyperaemia (scleral, conjunctival, ocular),
	eye irritation
Not known:	Papilloedema, chorioretinopathy, diplopia, photophobia, eye swelling,
	blepharitis, eye pain, conjunctivitis allergic, ocular surface disease
Ear and labyrint	
Common:	Vertigo
Not known:	Hearing impaired, ear pain, tinnitus
Cardiac disorder	
Common:	Angina pectoris, arrhythmia (including atroventricular block, cardiac flutter,
	extrasystoles, tachycardia, atrial fibrillation, ventricular extrasystoles,
	bradycardia), palpitations, electrocardiogram QT prolonged, cardiac failure*,
	myocardial infarction
Uncommon:	Coronary artery disease, cardiac murmur, pericardial effusion, cyanosis
Not known:	Ventricular dysfunction, pericarditis, ejection fraction decreased, diastolic
Tiot known.	dysfunction, left bundle branch block
Vascular disorde	
Common:	Hypertension, flushing, peripheral artery stenosis
Uncommon:	Hypertensive crisis, peripheral arterial occlusive disease, intermittent
Cheommon.	claudication, arterial stenosis limb, haematoma, arteriosclerosis
Not known:	Shock haemorrhagic, hypotension, thrombosis
	racic and mediastinal disorders
Common:	Dyspnoea, dyspnoea exertional, epistaxis, cough, dysphonia
Uncommon:	Pulmonary oedema, pleural effusion, interstitial lung disease, pleuritic pain,
Chedhinon.	pleurisy, pharyngolaryngeal pain, throat irritation
Not known:	Pulmonary hypertension, wheezing, oropharyngeal pain
Gastrointestinal	
Common:	Pancreatitis, abdominal discomfort, abdominal distension, dysgeusia, flatulence
Uncommon:	Gastrointestinal haemorrhage, melaena, mouth ulceration, gastroesophageal
Cheominon.	reflux, stomatitis, oesophageal pain, dry mouth, gastritis, sensitivity of teeth
Not known:	Gastrointestinal ulcer perforation, retroperitoneal haemorrhage, haematemesis,
Not Kilowii.	gastric ulcer, oesophagitis ulcerative, subileus, enterocolitis, haemorrhoids,
	hiatus hernia, rectal haemorrhage, gingivitis
Hepatobiliary dis	
Very common:	Hyperbilirubinaemia (including blood bilirubin increased)
Common:	Hepatic function abnormal
Uncommon:	Hepatotoxicity, toxic hepatitis, jaundice
Not known:	Cholestasis, hepatomegaly
	neous tissue disorders
Common:	Night sweats, eczema, urticaria, erythema, hyperhidrosis, contusion, acne,
I In a a many - · · ·	dermatitis (including allergic, exfoliative and acneiform)
Uncommon:	Exfoliative rash, drug eruption, skin pain, ecchymosis, swelling face
Not known:	Erythema multiforme, erythema nodosum, skin ulcer, palmar-plantar
	erythrodysaesthesia syndrome, petechiae, photosensitivity, blister, dermal cysts,
	sebaceous hyperplasia, skin atrophy, skin discolouration, skin exfoliation, skin
	hyperpigmentation, skin hypertrophy, hyperkeratosis, psoriasis

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע"מ

רחי תוצרת הארץ 6 ת.ד. 7126 תל אביב



U NOVARIIS				
nd connective tissue disorders				
Musculoskeletal chest pain, musculoskeletal pain, back pain, flank pain, neck				
pain, muscular weakness, bone pain				
Musculoskeletal stiffness, joint swelling				
Arthritis				
Renal and urinary disorders				
Pollakiuria, renal failure*				
Dysuria, micturition urgency, nocturia				
Haematuria, urinary incontinence, chromaturia				
Reproductive system and breast disorders				
Breast pain, gynaecomastia, erectile dysfunction				
Breast induration, menorrhagia, nipple swelling				
Not known: Breast induration, menorrhagia, nipple swelling General disorders and administration site conditions				
Chest pain (including non-cardiac chest pain), pain, pyrexia, chest discomfort,				
malaise				
Face oedema, gravitational oedema, influenza-like illness, chills, feeling body				
temperature change (including feeling hot, feeling cold)				
Localised oedema				
Alanine aminotransferase increased, aspartate aminotransferase increased, lipase				
increased, lipoprotein cholesterol (including low density and high density)				
increased, total cholesterol increased, blood triglycerides increased				
Haemoglobin decreased, blood amylase increased, blood alkaline phosphatase				
increased, gamma-glutamyltransferase increased, blood creatinine				
phosphokinase increased, weight decreased, weight increased, blood insulin				
increased, globulins decreased				
Blood lactate dehydrogenase increased, blood glucose decreased, blood urea				
increased				
Troponin increased, blood bilirubin unconjugated increased, blood insulin				
decreased, insulin C-peptide decreased, blood parathyroid hormone increased				

^{*} Frequency estimates based on data from a prospective non-interventional study in adult patients with imatinib-resistant or intolerant CML in chronic phase with a two-year observation period (n=507)

....

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

.

Treatment discontinuation in adult Ph+ CML patients in chronic phase who have been treated with nilotinib as first-line therapy and who have achieved a sustained deep molecular response

In an open-label, single-arm study, 215 adult patients with Ph+ CML in chronic phase treated with nilotinib in first-line for ≥ 2 years who achieved MR4.5 as measured with the MolecularMD MRDx BCR-ABL test were enrolled to continue nilotinib treatment for additional 52 weeks (nilotinib consolidation phase). 190 of 215 patients (88.4%) entered the TFR phase after achieving a sustained deep molecular response during the consolidation phase, defined by the following criteria:

- the 4 last quarterly assessments (taken every 12 weeks) were at least MR4.0 (BCR-ABL/ABL ≤0.01% IS), and maintained for one year

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע"מ

רחי תוצרת הארץ 6 ת.ד. 7126 תל אביב



- the last assessment being MR4.5 (BCR-ABL/ABL ≤0.0032% IS)
- no more than two assessments falling between MR4.0 and MR4.5 (0.0032% IS < BCR-ABL/ABL \leq 0.01% IS).

The primary endpoint was the percentage of patients in MMR at 48 weeks after starting the TFR phase (considering any patient who required re-initiation of treatment as non-responder). Of the 190 patients who entered the TFR phase, 98 patients (51.6% [95% CI: 44.2, 58.9]) were in MMR at 48 weeks.

Eighty eight patients (46.3%) discontinued the TFR phase due to loss of MMR, and 1 (0.5%), 1 (0.5%), and 3 patients (1.6%) due to death from unknown cause, physician decision and subject decision, respectively. Among these 88 patients, 86 patients restarted nilotinib treatment and 2 patients permanently discontinued the study. Eighty-five of these 86 patients (98.8%) regained MMR, (one patient discontinued study permanently due to subject decision) and 76 patients (88.4%) regained MR4.5 by the time of the cut-off date.

The Kaplan-Meier (KM) estimated median time on nilotinib treatment to regain MMR and MR4.5 was 7.9 weeks (95% CI: 5.1, 8.0) and 13.1 weeks (95% CI: 12.3, 15.7), respectively. The KM estimated MMR and MR4.5 rates at 24 weeks of re-initiation were 98.8 % (95% CI: 94.2, 99.9) and 90.9 % (95% CI: 83.2, 96.0), respectively.

The KM

 Table 12
 Treatment-free remission after nilotinib first-line treatment

Patients entered TFR phase	<u>190</u>	
weeks after starting TFR phase	48 weeks	264 weeks
patients remaining in MMR or better	98 (51.6%, [95% CI: 44.2,	79 ^[2] (41.6%, 95% CI: 34.5,
	<u>58.9])</u>	<u>48.9)</u>
Patients discontinued TFR phase	93 [1]	<u>109</u>
due to loss of MMR	88 (46.3%)	94 (49.5%)
due to other reasons	<u>5</u>	<u>15</u>
Patients restarted treatment after loss of	<u>86</u>	<u>91</u>
MMR		
regaining MMR	<u>85 (98.8%)</u>	90 (98.9%)
regaining MR4.5	76 (88.4%)	84 (92,3%)

[1] One patient did not lose MMR by week 48 but discontinued TFR phase.

[2] For 2 patients, PCR assessment was not available at week 264 therefore their response was not considered for the week 264 data cut-off analysis.

The time by which 50% of all retreated patients regained MMR and MR4.5 was 7 and 12.9 weeks, respectively. The cumulative rate of MMR regained at 24 weeks after treatment re-initiation was 97.8% (89/91 patients) and MR4.5 regained at 48 weeks was 91.2% (83/91 patients).

<u>The Kaplan-Meier</u> estimate of median treatment—free survival (TFS) <u>has not yet been reached was 120.1 weeks (95% CI: 36.9, not estimable [NE])</u> (Figure 4); <u>9991</u> of 190 patients (<u>52.147.9</u>%) did not have a TFS event.

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע״מ רח׳ תוצרת הארץ 6 ת.ד. 7126 תל אביב

טלפון: 03-9229331 פקס: 03-9201123



100 90 Treatment-free Survival (%) 80 70 60 ^{▜▙}▜▘▃▐▜▗**▃▗▗▗▗▗▗**▗▗▗▗▗▗▗▗ ▗ 50 40 30 20 Pat Evt Cen 190 91 99 10 III Censored observations 0 12 24 36 48 60 72 84 96 100 **Time since TFR (weeks)** t risk : Events <u>90</u> 190: 108:8 38:9 165:2 120:7 90:8 12:9 1:9 0:9 <u>80</u> Treatment-free survival (%) <u>70</u> <u>60</u> <u>50</u> <u>40</u> <u>30</u> <u> 20</u> 190 99 91 <u>10</u> Censored observations 0 <u> 168</u> 12 <u> 192</u> 0 9 144 216 <u>240</u> 264 4 7 <u> 288</u> <u>312</u> Time since TFR (weeks) At risk: Events 85:97 85:97 82:98 67:98 10:99 0:99 190:0 120:70 99:89 95:91 93:93 92:94 89:97 88:97

Figure 4 Kaplan-Meier estimate of treatment-free survival after start of TFR (full analysis set)

Treatment discontinuation in adult CML patients in chronic phase who have achieved a sustained deep molecular response on nilotinib treatment following prior imatinib therapy

In an open-label, single-arm study, 163 adult patients with Ph+ CML in chronic phase taking tyrosine kinase inhibitors (TKIs) for \geq 3 years (imatinib as initial TKI therapy for more than 4 weeks without

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע"מ

רחי תוצרת הארץ 6 ת.ד. 7126 תל אביב



documented MR4.5 on imatinib at the time of switch to nilotinib, then switched to nilotinib for at least two years), and who achieved MR4.5 on nilotinib treatment as measured with the MolecularMD MRDxTM BCR-ABL test were enrolled to continue nilotinib treatment for additional 52 weeks (nilotinib consolidation phase). 126 of 163 patients (77.3%) entered the TFR phase after achieving a sustained deep molecular response during the consolidation phase, defined by the following criterion:

- The 4 last quarterly assessments (taken every 12 weeks) showed no confirmed loss of MR4.5 (BCR-ABL/ABL ≤0.0032% IS) during one year.

The primary endpoint was the proportion of patients without confirmed loss of MR4.0 or loss of MMR within 48 weeks following treatment discontinuation. Of the 126 patients who entered the TFR phase, 73 patients (57.9%, [95% CI: 48.8, 66.7]) had no loss of MMR, no confirmed loss of MR4.0, and no re-initiation of nilotinib within 48 weeks.

Among the 53 patients who discontinued the TFR phase due to confirmed loss of MR4.0 or loss of MMR, 51 patients restarted nilotinib and 2 patients discontinued the study. Forty-eight of these 51 patients (94.1%) regained MR4.0 and 47 patients (92.2%) regained MR4.5 by the time of the cut-off date.

Table 13 Treatment-free remission after nilotinib treatment following prior imatinib therapy

Patients entered TFR phase	<u>126</u>	
weeks after starting TFR phase	48 weeks	<u>264 weeks</u>
patients remaining in MMR, no	73 (57.9%, [95% CI: 48.8,	54 (42.9% [54/126, 95% CI:
confirmed loss of MR4.0, and no	<u>66.7])</u>	<u>34.1, 52.0])</u>
<u>re-initiation of nilotinib</u>		
Patients discontinued TFR Phase	<u>53</u>	74 [1]
due to confirmed loss of MR4.0 or	<u>53 (42.1%)</u>	61 (82.4%)
<u>loss of MMR</u>		
due to other reasons	<u>0</u>	<u>13</u>
Patients restarted treatment after loss of	<u>51</u>	<u>59</u>
MMR or confirmed loss of MR4.0		
regaining MR4.0	<u>48 (94.1%)</u>	<u>56 (94.9%)</u>
regaining MR4.5	47 (92.2%)	54 (91.5%)

[1] two patients had MMR (PCR assessment) at 264 weeks but were discontinued later and had no further PCR assessment.

The Kaplan–Meier (KM) estimated median time on nilotinib to regain MR4.0 and MR4.5 was 12.011.1 weeks (95% CI:-8.31, 12.71) and 13.1 weeks (95% CI:-12.4, 16.10, 15.9), respectively. The KM estimated cumulative rate of MR4.0 and MR4.5 rates at regained by 48 weeks of after treatment reinitiation were 100.0% (95% CI: not estimated was 94.9% (56/59 patients) and 94.8% (95% CI: 85.1, 99.091.5% (54/59 patients), respectively.

The median TFS has not yet been reached Kaplan-Meier estimate is 224 weeks (95% CI: 39.9, NE) (Figure 5); 7463 of 126 patients (58.750.0%) did not have a TFS event.

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

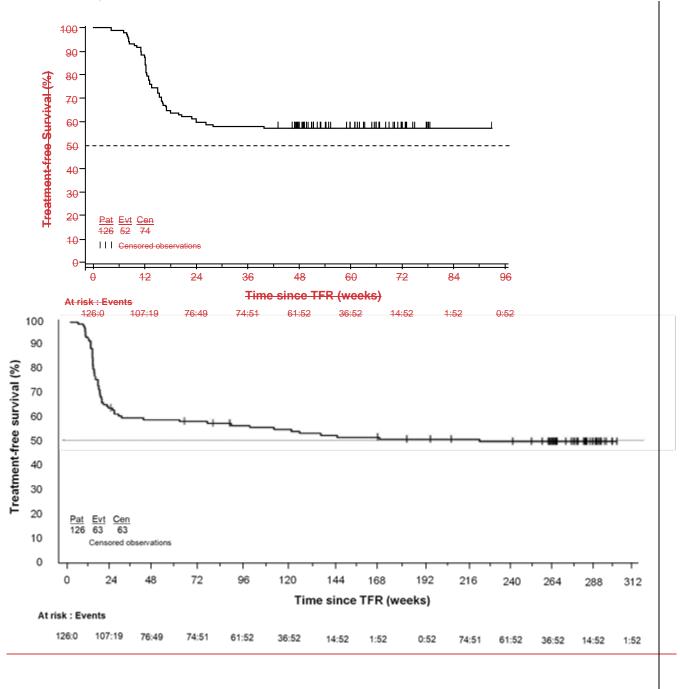
Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע"מ

רחי תוצרת הארץ 6 ת.ד. 7126 תל אביב



Figure 5 Kaplan-Meier estimate of treatment-free survival after start of TFR (full analysis set)



•••••

Revised on December 2020in August 2021 according to MOH guidelines.

Novartis Israel Ltd.

6 Totzeret Ha'arets St. P.O.B 7126, Tel Aviv, Israel

Tel: 972-3-9201123 Fax: 972-3-9229331

נוברטיס ישראל בע"מ

רח[,] תוצרת הארץ 6 ת.ד. 7126 תל אביב

טלפון: 03-9201123 פקס: 03-9201123