1. NAME OF THE MEDICINAL PRODUCT

Lonsurf® Film-coated Tablet 15 mg/6.14 mg
Lonsurf® Film-coated Tablet 20 mg/8.19 mg

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Lonsurf® Film-coated Tablet 15 mg/6.14 mg
Each film-coated tablet contains 15 mg trifluridine and 6.14 mg tipiracil (as hydrochloride).

Lonsurf® Film-coated Tablet 20 mg/8.19 mg
Each film-coated tablet contains 20 mg trifluridine and 8.19 mg tipiracil (as hydrochloride).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet (tablet).

Lonsurf® Film-coated Tablet 15 mg/6.14 mg
The tablet is a white, biconvex, round, film-coated tablet, with '15' on one side, and '102' and '15 mg' on the other side, in grey ink.

Lonsurf® Film-coated Tablet 20 mg/8.19 mg
The tablet is a pale red, biconvex, round, film-coated tablet, with '20' on one side, and '102' and '20 mg' on the other side, in grey ink.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Lonsurf® is indicated for the treatment of patients with metastatic colorectal cancer who have been previously treated with fluoropyrimidine-, oxaliplatin- and irinotecan-based chemotherapy, an anti-VEGF biological therapy, and if RAS wild-type, an anti-EGFR therapy.

4.2 Posology and method of administration

Lonsurf® should be prescribed by physicians experienced in the administration of anticancer therapy.

Posology

The recommended starting dose of Lonsurf® in adults is 35 mg/m^2/dose administered orally twice daily on Days 1 to 5 and Days 8 to 12 of each 28-day cycle as long as benefit is observed or until unacceptable toxicity occurs (see section 4.4).

The dosage is calculated according to body surface area (BSA) (see Table 1). The dosage must not

exceed 80 mg/dose.

Instruct patients to swallow Lonsurf® tablets whole. Instruct patients not to retake doses of Lonsurf® that are vomited or missed and to continue with the next scheduled dose. Lonsurf® is a cytotoxic drug. Follow applicable special handling and disposal procedures (see section 6.6).

Table 1 - Starting dose calculation according to body surface area (BSA)

Starting dose	BSA (m^2)	Dose in mg (2× daily)	Tablets per dose (2× daily)		Total daily dose (mg)
			15 mg/6.14 mg	20 mg/8.19 mg	
35 mg/m^2	< 1.07	35	1	1	70
	1.07 - 1.22	40	0	2	80
	1.23 - 1.37	45	3	0	90
	1.38 - 1.52	50	2	1	100
	1.53 - 1.68	55	1	2	110
	1.69 - 1.83	60	0	3	120
	1.84 - 1.98	65	3	1	130
	1.99 - 2.14	70	2	2	140
	2.15 - 2.29	75	1	3	150
	≥ 2.30	80	0	4	160

Recommended dose adjustments

Dosing adjustments may be required based on individual safety and tolerability.

A maximum of 3 dose reductions are permitted to a minimum dose of 20 mg/m^2 twice daily. Dose escalation is not permitted after it has been reduced.

In the event of haematological and/or non-haematological toxicities patients should follow the dose interruption, resumption and reduction criteria stated in Table 2, Table 3 and Table 4.

Table 2 - Dose interruption and resumption criteria for haematological toxicities related to myelosuppression

Parameter	Interruption criteria	Resumption criteria[a]
Neutrophils	< 0.5 × 10^9/L	≥ 1.5 × 10^9/L
Platelets	< 50 × 10^9/L	≥ 75 × 10^9/L

[a] Resumption criteria applied to the start of the next cycle for all patients regardless of whether or not the interruption criteria were met.

Table 3 - Recommended dose modifications for Lonsurf® in case of haematological and non-haematological adverse reactions

Adverse reaction	Recommended dose modifications
• Febrile neutropenia • CTCAE* Grade 4 neutropenia (< 0.5 × 10^9/L) or thrombocytopenia (< 25 × 10^9/L) that results in more than 1 week's delay in start of next cycle • CTCAE* non-haematologic Grade 3 or Grade 4 adverse reaction; except for Grade 3 nausea and/or vomiting controlled by antiemetic therapy or diarrhoea responsive to antidiarrhoeal medicinal products	• Interrupt dosing until toxicity resolves to Grade 1 or baseline. • When resuming dosing, decrease the dose level by 5 mg/m^2/dose from the previous dose level (Table 4). • Dose reductions are permitted to a minimum dose of 20 mg/m^2/dose twice daily (or 15 mg/m^2/dose twice daily in severe renal impairment). • Do not increase dose after it has been reduced.

* Common terminology criteria for adverse events

Table 4 - Dose reductions according to body surface area (BSA)

Reduced dose	BSA (m^2)	Dose in mg (2× daily)	Tablets per dose (2× daily)		Total daily dose (mg)
			15 mg/6.14 mg	20 mg/8.19 mg	
Level 1 dose reduction: From 35 mg/m^2 to 30 mg/m^2					
30 mg/m^2	< 1.09	30	2	0	60
	1.09 - 1.24	35	1	1	70
	1.25 - 1.39	40	0	2	80
	1.40 - 1.54	45	3	0	90
	1.55 - 1.69	50	2	1	100
	1.70 - 1.94	55	1	2	110
	1.95 - 2.09	60	0	3	120
	2.10 - 2.28	65	3	1	130
	≥ 2.29	70	2	2	140
Level 2 dose reduction: From 30 mg/m^2 to 25 mg/m^2					
25 mg/m^2	< 1.10	25[a]	2[a]	1[a]	50[a]
	1.10 - 1.29	30	2	0	60
	1.30 - 1.49	35	1	1	70
	1.50 - 1.69	40	0	2	80
	1.70 - 1.89	45	3	0	90
	1.90 - 2.09	50	2	1	100
	2.10 - 2.29	55	1	2	110
	≥ 2.30	60	0	3	120
Level 3 dose reduction: From 25 mg/m^2 to 20 mg/m^2					
20 mg/m^2	< 1.14	20	0	1	40
	1.14 - 1.34	25[a]	2[a]	1[a]	50[a]

	1.35 - 1.59	30	2	0	60
	1.60 - 1.94	35	1	1	70
	1.95 - 2.09	40	0	2	80
	2.10 - 2.34	45	3	0	90
	≥ 2.35	50	2	1	100

[a] At a total daily dose of 50 mg, patients should take 1 × 20 mg/8.19 mg tablet in the morning and 2 × 15 mg/6.14 mg tablets in the evening.

Special populations

Renal impairment

- *Mild renal impairment (CrCl 60 to 89 mL/min) or moderate renal impairment (CrCl 30 to 59 mL/min)*

No adjustment of the starting dose is recommended in patients with mild or moderate renal impairment (see sections 4.4 and 5.2).

- *Severe renal impairment (CrCl 15 to 29 mL/min)*

For patients with severe renal impairment a starting dose of 20 mg/m^2 twice daily is recommended (see sections 4.4 and 5.2). One dose reduction to a minimum dose of 15 mg/m^2 twice daily is permitted based on individual safety and tolerability (see Table 5). Dose escalation is not permitted after it has been reduced.

In the event of haematological and/or non-haematological toxicities patients should follow the dose interruption, resumption and reduction criteria stated in Table 2, Table 3 and Table 5.

Table 5 - Starting dose and dose reduction in patients with severe renal impairment according to body surface area (BSA)

Reduced dose	**BSA (m^2)**	**Dose in mg (2× daily)**	**Tablets per dose (2× daily)**		**Total daily dose (mg)**
			15 mg/6.14 mg	**20 mg/8.19 mg**	
Starting dose					
20 mg/m^2	< 1.14	20	0	1	40
	1.14 - 1.34	25[a]	2[a]	1[a]	50[a]
	1.35 - 1.59	30	2	0	60
	1.60 - 1.94	35	1	1	70
	1.95 - 2.09	40	0	2	80
	2.10 - 2.34	45	3	0	90
	≥ 2.35	50	2	1	100
Dose reduction: From 20 mg/m^2 to 15 mg/m^2					
15 mg/m^2	< 1.15	15	1	0	30
	1.15 - 1.49	20	0	1	40
	1.50 - 1.84	25[a]	2[a]	1[a]	50[a]
	1.85 -2.09	30	2	0	60

	2.10 - 2.34	35	1	1	70
	≥ 2.35	40	0	2	80

[a] At a total daily dose of 50 mg, patients should take 1 × 20 mg/8.19 mg tablet in the morning and 2 × 15 mg/6.14 mg tablets in the evening.

- *End stage renal disease (CrCl below 15 mL/min or requiring dialysis)*

Administration is not recommended in patients with end stage renal disease as there are no data available for these patients (see section 4.4).

Hepatic impairment

- *Mild hepatic impairment*

No adjustment of the starting dose is recommended in patients with mild hepatic impairment (see section 5.2).

- *Moderate or severe hepatic impairment*

Administration is not recommended in patients with baseline moderate or severe hepatic impairment (National Cancer Institute [NCI] Criteria Group C and D defined by total bilirubin > 1.5 × ULN) as, a higher incidence of Grade 3 or 4 hyperbilirubinaemia is observed in patients with baseline moderate hepatic impairment, although this is based on very limited data (see sections 4.4 and 5.2).

Elderly

No adjustment of the starting dose is required in patients ≥ 65 years old (see sections 4.8, 5.1 and 5.2). Efficacy and safety data in patients over 75 years old is limited.

Paediatric population

There is no relevant use of Lonsurf® in the paediatric population for the indication of metastatic colorectal cancer.

Race

No adjustment of the starting dose is required on the basis of patient's race (see sections 5.1 and 5.2). There is limited data on Lonsurf® in Black/African American patients but there is no biological rationale to expect any difference between this subgroup and the overall population.

Method of administration

Lonsurf® is for oral use. The tablets must be taken with a glass of water within 1 hour after completion of the morning and evening meals.

4.3 Contraindications

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

4.4 Special warnings and precautions for use

Bone marrow suppression

Lonsurf® caused an increase in the incidence of myelosuppression including anaemia, neutropenia, leukopenia, and thrombocytopenia.

Complete blood cell counts must be obtained prior to initiation of therapy and as needed to monitor toxicity, but at a minimum, prior to each treatment cycle.

Treatment must not be started if the absolute neutrophil count is $< 1.5 \times 10^9$/L, if the platelet counts are $< 75 \times 10^9$/L, or if the patient has an unresolved Grade 3 or 4 non-haematological clinically relevant toxicity from prior therapies.

Serious infections have been reported following treatment with Lonsurf® (see section 4.8). Given that the majority were reported in the context of bone marrow suppression, the patient's condition should be monitored closely, and appropriate measures, such as antimicrobial agents and granulocyte-colony stimulating factor (G-CSF), should be administered as clinically indicated. In the RECOURSE study, 9.4% of patients in the Lonsurf® group received G-CSF mainly for therapeutic use.

Gastrointestinal toxicity

Lonsurf® caused an increase in the incidence of gastrointestinal toxicities including nausea, vomiting and diarrhoea.

Patients with nausea, vomiting, diarrhoea and other gastrointestinal toxicities should be carefully monitored, and anti-emetic, anti-diarrhoeal and other measures, such as fluid/electrolyte replacement therapy, should be administered as clinically indicated. Dose modifications (delay and/or reduction) should be applied as necessary (see section 4.2).

Renal impairment

Lonsurf® is not recommended for use in patients with end-stage renal disease (creatinine clearance [CrCl] < 15 mL/min or requiring dialysis), as Lonsurf® has not been studied in these patients (see section 5.2).

The global incidence of adverse events (AEs) is similar in normal renal function (CrCl ≥ 90 mL/min), mild (CrCl = 60 to 89 mL/min) or moderate (CrCl = 30 to 59 mL/min) renal impairment subgroups. However, the incidence of serious, severe AEs and AEs leading to dose modification tends to increase with advancing levels of renal impairment. In addition, a higher exposure of trifluridine and tipiracil hydrochloride was observed in patients with moderate renal impairment, compared with patients with normal renal function or patients with mild renal impairment (see section 5.2).

Patients with severe renal impairment (CrCl = 15 to 29 mL/min) and adjusted starting dose of 20 mg/m^2 twice daily had a safety profile consistent with the safety profile of Lonsurf® in patients with normal renal function or mild renal impairment. Their exposure to trifluridine was similar to that of patients with normal renal function and their exposure to tipiracil hydrochloride was increased compared to patients with normal renal function, mild and moderate renal impairment (see sections 4.2 and 5.2).

Patients with renal impairment should be monitored closely when being treated with Lonsurf®; patients with moderate or severe renal impairment should be more frequently monitored for haematological toxicities.

Hepatic impairment

Lonsurf® is not recommended for use in patients with baseline moderate or severe hepatic impairment (National Cancer Institute [NCI] Criteria Group C and D defined by total bilirubin > 1.5 × ULN), as a higher incidence of Grade 3 or 4 hyperbilirubinaemia is observed in patients with baseline moderate hepatic impairment, although this is based on very limited data (see section 5.2).

Proteinuria

Monitoring of proteinuria by dipstick urinalysis is recommended prior to starting and during therapy (see section 4.8).

Lactose intolerance

Lonsurf® contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicinal products and other forms of interaction

In vitro studies indicated that trifluridine, tipiracil hydrochloride and 5-[trifluoromethyl] uracil (FTY) did not inhibit the activity of human cytochrome P450 (CYP) isoforms. *In vitro* evaluation indicated that trifluridine, tipiracil hydrochloride and FTY had no inductive effect on human CYP isoforms (see section 5.2).

In vitro studies indicated that trifluridine is a substrate for the nucleoside transporters CNT1, ENT1 and ENT2. Therefore, caution is required when using medicinal products that interact with these transporters. Tipiracil hydrochloride was a substrate for OCT2 and MATE1, therefore, the concentration might be increased when Lonsurf® is administered concomitantly with inhibitors of OCT2 or MATE1.

Caution is required when using medicinal products that are human thymidine kinase substrates, e.g., zidovudine. Such medicinal products, if used concomitantly with Lonsurf®, may compete with the effector, trifluridine, for activation via thymidine kinases. Therefore, when using antiviral medicinal products that are human thymidine kinase substrates, monitor for possible decreased efficacy of the antiviral medicinal product, and consider switching to an alternative antiviral medicinal product that is not a human thymidine kinase substrate, such as lamivudine, didanosine and abacavir (see section 5.1).

It is unknown whether Lonsurf® may reduce the effectiveness of hormonal contraceptives. Therefore, women using hormonal contraceptive must also use a barrier contraceptive method.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential / Contraception in males and females

Based on findings in animals, trifluridine may cause foetal harm when administered to pregnant women. Women should avoid becoming pregnant while taking Lonsurf® and for up to 6 months after ending

treatment. Therefore, women of child-bearing potential must use highly effective contraceptive measures while taking Lonsurf® and for 6 months after stopping treatment. It is currently unknown whether Lonsurf® may reduce the effectiveness of hormonal contraceptives, and therefore women using hormonal contraceptives should add a barrier contraceptive method.

Men with a partner of child-bearing potential must use effective contraception during treatment and for up to 6 months after discontinuation of treatment.

Pregnancy

There are no available data from the use of Lonsurf® in pregnant women. Based on the mechanism of action, trifluridine is suspected to cause congenital malformations when administered during pregnancy. Studies in animals have shown reproductive toxicity (see section 5.3). Lonsurf® should not be used during pregnancy unless the clinical condition of the woman requires treatment with Lonsurf®.

Breast-feeding

It is unknown whether Lonsurf® or its metabolites are excreted in human milk. Studies in animals have shown excretion of trifluridine, tipiracil hydrochloride and/or their metabolites in milk (see section 5.3). A risk to the suckling child cannot be excluded. Breast-feeding should be discontinued during treatment with Lonsurf®.

Fertility

There are no data available on the effects of Lonsurf® on human fertility. Results of animal studies did not indicate an effect of Lonsurf® on male or female fertility (see section 5.3).

4.7 Effects on ability to drive and use machines

Lonsurf® has minor influence on the ability to drive and use machines. Fatigue, dizziness or malaise may occur during treatment (see section 4.8).

4.8 Undesirable effects

Summary of safety profile

The most serious observed adverse drug reactions in patients receiving Lonsurf® are bone marrow suppression and gastrointestinal toxicity (see section 4.4).

The most frequently observed adverse drug reactions (≥ 30%) in patients receiving Lonsurf® are neutropenia (54% [35% ≥ Grade 3]), nausea (39% [1% ≥ Grade 3]), fatigue (35% [4% ≥ Grade 3]) and anaemia (32% [12% ≥ Grade 3]) and leukopenia (31% [12% ≥ Grade 3]).

The most common adverse drug reactions in patients receiving Lonsurf® that resulted in treatment discontinuation, dose reduction, dose delay, or dose interruption were neutropenia, general deterioration of health, anaemia, febrile neutropenia, fatigue, diarrhoea and dyspnoea.

Tabulated list of adverse drug reactions

The adverse drug reactions observed from the 533 patients with metastatic colorectal cancer, treated with a starting dose of 35 mg/m^2/dose of Lonsurf®, in the placebo-controlled Phase III (RECOURSE) clinical trial, are shown in Table 6. They are classified according to System Organ Class (SOC) and the appropriate Medical Dictionary for Regulatory (MedDRA) term is used to describe a certain drug reaction and its synonyms and related conditions.

Adverse drug reactions are grouped according to their frequencies. Frequency groups are defined by the following convention: very common (≥ 1/10); common (≥ 1/100 to < 1/10); and uncommon (≥ 1/1,000 to < 1/100).

Within each frequency group, adverse drug reactions are presented in order of decreasing seriousness.

Table 6 - Adverse drug reactions reported in patients with metastatic colorectal cancer treated with Lonsurf® in the Phase III (RECOURSE) clinical trial

System Organ Class (MedDRA)[a]	Very common	Common	Uncommon
Infections and infestations		Lower respiratory tract infection Upper respiratory tract infection	Septic shock[b] Enteritis infectious Lung infection Biliary tract infection Influenza Urinary tract infection Gingival infection Herpes zoster Tinea pedis Candidiasis Bacterial infection Infection
Neoplasms benign, malignant and unspecified (incl. cysts and polyps)			Cancer pain
Blood and lymphatic system disorders	Neutropenia Leukopenia Anaemia Thrombocytopenia	Febrile neutropenia Lymphopenia Monocytosis	Pancytopenia Granulocytopenia Monocytopenia Erythropenia Leukocytosis

System Organ Class (MedDRA)[a]	Very common	Common	Uncommon
Metabolism and nutrition disorders	Decreased appetite	Hypoalbuminaemia	Dehydration Hyperglycaemia Hyperkalaemia Hypokalaemia Hypophosphataemia Hypernatraemia Hyponatraemia Hypocalcaemia Gout
Psychiatric disorders		Insomnia	Anxiety
Nervous system disorders		Dysgeusia Neuropathy peripheral Dizziness Headache	Neurotoxicity Dysaesthesia Hyperaesthesia Hypoaesthesia Syncope Paraesthesia Burning sensation Lethargy
Eye disorders			Visual acuity reduced Vision blurred Diplopia Cataract Conjunctivitis Dry eye
Ear and labyrinth disorders			Vertigo Ear discomfort
Cardiac disorders			Angina pectoris Arrhythmia Palpitations
Vascular disorders		Flushing	Embolism Hypertension Hypotension
Respiratory, thoracic and mediastinal disorders		Dyspnoea Cough	Pulmonary embolism Pleural effusion Rhinorrhoea Dysphonia Oropharyngeal pain Epistaxis

System Organ Class (MedDRA)[a]	Very common	Common	Uncommon
Gastrointestinal disorders	Diarrhoea Nausea Vomiting	Abdominal pain Constipation Stomatitis Oral disorder	Enterocolitis haemorrhagic Gastrointestinal haemorrhage Pancreatitis acute Ascites Ileus Subileus Colitis Gastritis Reflux gastritis Oesophagitis Impaired gastric emptying Abdominal distension Anal inflammation Mouth ulceration Dyspepsia Gastrooesophageal reflux disease Proctalgia Buccal polyp Gingival bleeding Glossitis Periodontal disease Tooth disorder Retching Flatulence Breath odour
Hepatobiliary disorders		Hyperbilirubinaemia	Hepatotoxicity Biliary dilatation
Skin and subcutaneous tissue disorders		Palmar-plantar erythrodysaesthesia syndrome[c] Rash Alopecia Pruritus Dry skin	Skin exfoliation Urticaria Photosensitivity reaction Erythema Acne Hyperhidrosis Blister Nail Disorder

System Organ Class (MedDRA)[a]	Very common	Common	Uncommon
Musculoskeletal and connective tissue disorders			Joint swelling Arthralgia Bone pain Myalgia Musculoskeletal pain Muscular weakness Muscle spasms Pain in extremity Sensation of heaviness
Renal and urinary disorders		Proteinuria	Renal failure Cystitis noninfective Micturition disorder Haematuria Leukocyturia
Reproductive system and breast disorders			Menstrual disorder
General disorders and administration site conditions	Fatigue	Pyrexia Oedema Mucosal inflammation Malaise	General physical health deterioration Pain Feeling of body temperature change Xerosis
Investigations		Hepatic enzyme increased Blood alkaline phosphatase increased Weight decreased	Blood creatinine increased Electrocardiogram QT prolonged International normalised ratio increased Activated partial thromboplastin time prolonged Blood urea increased Blood lactate dehydrogenase increased Protein total decreased C-reactive protein increased Haematocrit decreased

a. Different MedDRA preferred terms that were considered clinically similar have been grouped into a single term.
b. Fatal cases have been reported.
c. Hand-foot skin reaction.

Elderly

Patients 65 years of age or older who received Lonsurf® had a higher incidence of the following events compared to patients younger than 65 years: Grade 3 or 4 neutropenia (48% vs 30%), Grade 3 anaemia (26% vs 12%), Grade 3 or 4 leukopenia (26% vs 18%) and Grade 3 or 4 thrombocytopenia (9% vs 2%).

Infections

In the Phase III (RECOURSE) clinical trial, treatment-related infections occurred more frequently in Lonsurf®-treated patients (5.6%) compared to those receiving placebo (1.9%).

Proteinuria

In the RECOURSE clinical trial, treatment-related proteinuria occurred more frequently in Lonsurf®-treated patients (2.8%) compared to those receiving placebo (1.5%), all of which were Grade 1 or 2 in severity (see section 4.4).

Radiotherapy

There was a slightly higher incidence of overall haematological and myelosuppression-related adverse reactions for patients who received prior radiotherapy compared to patients without prior radiotherapy in RECOURSE (54.6% versus 49.2%, respectively), of note febrile neutropenia was higher in Lonsurf®-treated patients who received prior radiotherapy vs. those that did not.

Additional Clinical Experience

Interstitial lung disease was reported in fifteen (0.2%) patients, three of which were fatal, among approximately 7,000 patients exposed to Lonsurf® in clinical studies and clinical practice settings in Asia.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions.

4.9 Overdose

The highest dose of Lonsurf® administered in clinical trials was 180 mg/m^2 per day.

The adverse drug reactions reported in association with overdoses were consistent with the established safety profile.

The primary anticipated complication of an overdose is bone marrow suppression.

There is no known antidote for an overdose of Lonsurf®.

Medical management of an overdose should include customary therapeutic and supportive medical intervention aimed at correcting the presenting clinical manifestations and preventing their possible complications.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antineoplastic agents, antimetabolites, ATC code: L01BC59

Mechanism of action

Lonsurf® is comprised of an antineoplastic thymidine-based nucleoside analogue, trifluridine, and the thymidine phosphorylase (TPase) inhibitor, tipiracil hydrochloride, at a molar ratio 1:0.5 (weight ratio, 1:0.471).

Following uptake into cancer cells, trifluridine, is phosphorylated by thymidine kinase, further metabolised in cells to a deoxyribonucleic acid DNA substrate, and incorporated directly into DNA, thereby interfering with DNA function to prevent cell proliferation.

However, trifluridine is rapidly degraded by TPase and readily metabolised by a first-pass effect following oral administration, hence the inclusion of the TPase inhibitor, tipiracil hydrochloride.

In nonclinical studies, trifluridine/tipiracil hydrochloride demonstrated antitumour activity against both 5-fluorouracil (5-FU) sensitive and resistant colorectal cancer cell lines.

The cytotoxic activity of trifluridine/tipiracil hydrochloride against several human tumour xenografts correlated highly with the amount of trifluridine incorporated into DNA, suggesting this as the primary mechanism of action.

Pharmacodynamic effects

Lonsurf® had no clinically relevant effect on QT/QTc prolongation compared with placebo in an open label study in patients with advanced solid tumours.

Clinical efficacy and safety

The clinical efficacy and safety of Lonsurf® were evaluated in an international, randomised, double-blind, placebo-controlled Phase III study (RECOURSE) in patients with previously treated metastatic colorectal cancer. The primary efficacy endpoint was overall survival (OS), and supportive efficacy endpoints were progression-free survival (PFS), overall response rate (ORR) and disease control rate (DCR).

In total, 800 patients were randomised 2:1 to receive Lonsurf® (N = 534) plus best supportive care (BSC) or matching placebo (N = 266) plus BSC. Lonsurf® dosing was based on BSA with a starting dose of 35 mg/m^2/dose. Study treatment was administered orally twice daily after morning and evening meals for 5 days a week with 2 days rest for 2 weeks, followed by 14 days rest, repeated every 4 weeks. Patients continued therapy until disease progression or unacceptable toxicity (see section 4.2).

Of the 800 randomised patients, the median age was 63 years, 61% were male, 58% were Caucasian/White, 35% were Asian/Oriental, and 1% were Black/African American, and all patients had baseline Eastern Cooperative Oncology Group (ECOG) Performance Status (PS) of 0 or 1. The primary site of disease was colon (62%) or rectum (38%). KRAS status was wild (49%) or mutant (51%) at study entry. The median number of prior lines of therapy for metastatic disease was 3. All patients received prior treatment with fluoropyrimidine-, oxaliplatin-, and irinotecan-based chemotherapy. All but 1 patient received bevacizumab, and all but 2 patients with KRAS wild type tumours received

panitumumab or cetuximab. The 2 treatment groups were comparable with respect to demographic and baseline disease characteristics.

An OS analysis of the study, carried out as planned at 72% (N = 574) of events, demonstrated a clinically meaningful and statistically significant survival benefit of Lonsurf® plus BSC compared to placebo plus BSC (hazard ratio: 0.68; 95% confidence interval [CI] [0.58 to 0.81]; p < 0.0001) and a median OS of 7.1 months vs 5.3 months, respectively; with 1-year survival rates of 26.6% and 17.6%, respectively. PFS was significantly improved in patients receiving Lonsurf® plus BSC (hazard ratio: 0.48; 95% CI [0.41 to 0.57]; p < 0.0001 (see Table 7, Figure 1 and Figure 2).

Table 7 - Efficacy results from the Phase III (RECOURSE) clinical trial in patients with metastatic colorectal cancer

	Lonsurf® plus BSC (N = 534)	**Placebo plus BSC (N = 266)**
Overall Survival		
Number of deaths, N (%)	364 (68.2)	210 (78.9)
Median OS (months)[a] [95% CI][b]	7.1 [6.5, 7.8]	5.3 [4.6, 6.0]
Hazard ratio [95% CI]	0.68 [0.58, 0.81]	
P-value[c]	< 0.0001 (1-sided and 2-sided)	
Progression-Free Survival		
Number of Progression or Death, N (%)	472 (88.4)	251 (94.4)
Median PFS (months)[a] [95% CI][b]	2.0 [1.9, 2.1]	1.7 [1.7, 1.8]
Hazard ratio [95% CI]	0.48 [0.41, 0.57]	
P-value[c]	< 0.0001 (1-sided and 2-sided)	

[a] Kaplan-Meier estimates

[b] Methodology of Brookmeyer and Crowley

[c] Stratified log-rank test (strata: KRAS status, time since diagnosis of first metastasis, region)

Figure 1 - Kaplan-Meier curves of overall survival in patients with metastatic colorectal cancer

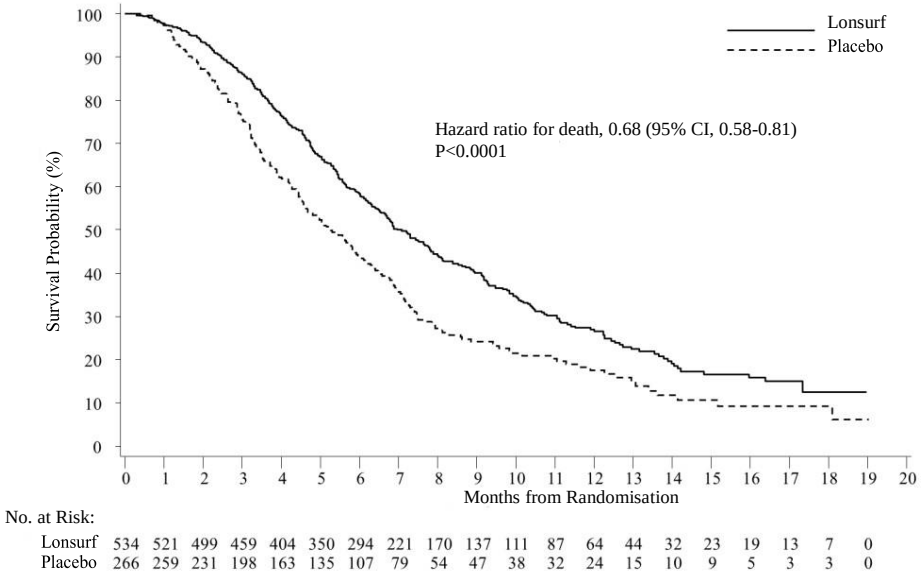
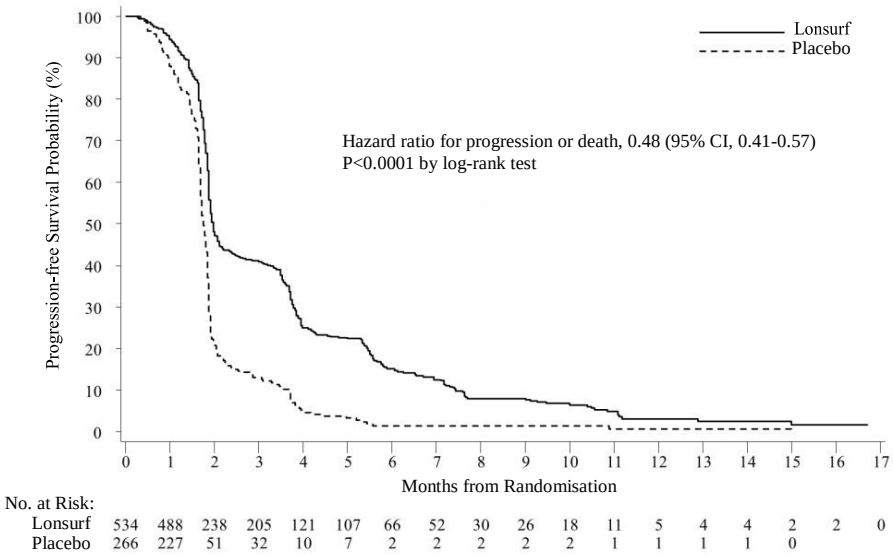


Figure 2 - Kaplan-Meier curves of progression-free survival in patients with metastatic colorectal cancer



An updated OS analysis, carried out at 89% (N = 712) of events, confirmed the clinically meaningful and statistically significant survival benefit of Lonsurf® plus BSC compared to placebo plus BSC (hazard ratio: 0.69; 95% CI [0.59 to 0.81]; p < 0.0001) and a median OS of 7.2 months vs 5.2 months; with 1-year survival rates of 27.1% and 16.6%, respectively.

The OS and PFS benefit was observed consistently, in all relevant pre-specified subgroups, including race, geographic region, age (< 65; ≥ 65), sex, ECOG PS, KRAS status, time since diagnosis of first metastasis, number of metastatic sites, and primary tumour site. The Lonsurf® survival benefit was maintained after adjusting for all significant prognostic factors, namely, time since diagnosis of first metastasis, ECOG PS and number of metastatic sites (hazard ratio: 0.69; 95% CI [0.58 to 0.81]).

Sixty-one percent (61%, N = 485) of all randomised patients received a fluoropyrimidine as part of their last treatment regimen prior to randomisation, of which 455 (94%) were refractory to the fluoropyrimidine at that time. Among these patients, the OS benefit with Lonsurf® was maintained (hazard ratio: 0.75, 95% CI [0.59 to 0.94]).

Eighteen percent (18%, N = 144) of all randomised patients received regorafenib prior to randomisation. Among these patients, the OS benefit with Lonsurf® was maintained (hazard ratio: 0.69, 95% CI [0.45 to 1.05]). The effect was also maintained in regorafenib-naive patients (hazard ratio: 0.69, 95% CI [0.57 to 0.83]).

The DCR (complete response or partial response or stable disease) was significantly higher in patients treated with Lonsurf® (44% vs 16%, $p < 0.0001$).

Treatment with Lonsurf® plus BSC resulted in a statistically significant prolongation of PS < 2 in comparison to placebo plus BSC. The median time to PS ≥ 2 for the Lonsurf® group and placebo group was 5.7 months and 4.0 months, respectively, with a hazard ratio of 0.66 (95% CI: [0.56, 0.78]), $p < 0.0001$.

Elderly

There is limited data in patients between 75-84 years old (N = 60). There were no patients 85 years or older in the RECOURSE study and the Japanese phase 2 study. The effect of Lonsurf® on overall survival was similar in patients < 65 years and ≥ 65 years of age.

5.2 Pharmacokinetic properties

Absorption

After oral administration of Lonsurf® with [^{14}C]-trifluridine, at least 57% of the administered trifluridine was absorbed and only 3% of the dose was excreted into faeces. After oral administration of Lonsurf® with [^{14}C]-tipiracil hydrochloride, at least 27% of the administered tipiracil hydrochloride was absorbed and 50% of the total radioactivity dose measured into faeces, suggestive of moderate gastrointestinal absorption of tipiracil hydrochloride.

Following a single dose of Lonsurf® (35 mg/m^2) in patients with advanced solid tumours, the mean times to peak plasma concentrations (t_{max}) of trifluridine and tipiracil hydrochloride were around 2 hours and 3 hours, respectively.

In the pharmacokinetic (PK) analyses of the multiple dose administration of Lonsurf® (35 mg/m^2/dose, twice daily for 5 days a week with 2 days rest for 2 weeks followed by a 14-day rest, repeated every 4 weeks), trifluridine area under the concentration-time curve from time 0 to the last measurable concentration ($AUC_{0\text{-last}}$) was approximately 3-fold higher and maximum concentration (C_{max}) was approximately 2-fold higher after multiple dose administration (Day 12 of Cycle 1) of Lonsurf® than after single-dose (Day 1 of Cycle 1).

However, there was no accumulation for tipiracil hydrochloride, and no further accumulation of trifluridine with successive cycles (Day 12 of Cycles 2 and 3) of administration of Lonsurf®. Following multiple doses of Lonsurf® (35 mg/m^2/dose twice daily) in patients with advanced solid tumours, the

mean times to peak plasma concentrations (t_{max}) of trifluridine and tipiracil hydrochloride were around 2 hours and 3 hours, respectively.

Contribution of tipiracil hydrochloride

Single-dose administration of Lonsurf® (35 mg/m^2/dose) increased the mean $AUC_{0\text{-last}}$ of trifluridine by 37-fold and C_{max} by 22-fold with reduced variability compared to trifluridine alone (35 mg/m^2/dose).

Effect of food

When Lonsurf® at a single dose of 35 mg/m^2 was administered to 14 patients with solid tumours after a standardised high-fat, high-calorie meal, trifluridine area under the concentration-time curve (AUC) did not change, but trifluridine C_{max}, tipiracil hydrochloride C_{max} and AUC decreased by approximately 40% compared to those in a fasting state. In clinical studies Lonsurf® was administered within 1 hour after completion of the morning and evening meals (see section 4.2).

Distribution

The protein binding of trifluridine in human plasma was over 96% and trifluridine bound mainly to human serum albumin. Plasma protein binding of tipiracil hydrochloride was below 8%. Following a single dose of Lonsurf® (35 mg/m^2) in patients with advanced solid tumours, the apparent volume of distribution (Vd/F) for trifluridine and tipiracil hydrochloride was 21 L and 333 L, respectively.

Biotransformation

Trifluridine was mainly eliminated by metabolism via TPase to form an inactive metabolite, FTY. The absorbed trifluridine was metabolised, and excreted into urine as FTY and trifluridine glucuronide isomers. Other minor metabolites, 5-carboxyuracil and 5-carboxy-2'-deoxyuridine, were detected, but those levels in plasma and urine were at low or trace levels.

Tipiracil hydrochloride was not metabolised in human liver S9 or in cryopreserved human hepatocytes. Tipiracil hydrochloride was the major component and 6-hydroxymethyluracil was the major metabolite consistently in human plasma, urine, and faeces.

Elimination

Following the multiple-dose administration of Lonsurf® at the recommended dose and regimen, the mean elimination half-life ($t_{1/2}$) for trifluridine on Day 1 of Cycle 1 and on Day 12 of Cycle 1 were 1.4 hours and 2.1 hours, respectively. The mean $t_{1/2}$ values for tipiracil hydrochloride on Day 1 of Cycle 1 and on Day 12 of Cycle 1 were 2.1 hours and 2.4 hours, respectively.

Following a single dose of Lonsurf® (35 mg/m^2) in patients with advanced solid tumours, the oral clearance (CL/F) for trifluridine and tipiracil hydrochloride were 10.5 L/hr and 109 L/hr, respectively. After single oral administration of Lonsurf® with [^{14}C]-trifluridine, the total cumulative excretion of radioactivity was 60% of the administered dose. The majority of recovered radioactivity was eliminated into urine (55% of the dose) within 24 hours, and the excretion into faeces and expired air was less than 3% for both. After single oral administration of Lonsurf® with [^{14}C]-tipiracil hydrochloride, recovered radioactivity was 77% of the dose, which consisted of 27% urinary excretion and 50% faecal excretion.

Linearity/non-linearity

In a dose finding study (15 to 35 mg/m^2 twice daily), the AUC from time 0 to 10 hours (AUC_{0-10}) of trifluridine tended to increase more than expected based on the increase in dose; however, oral clearance (CL/F) and apparent volume of distribution (Vd/F) of trifluridine were generally constant at the dose range of 20 to 35 mg/m^2. As for the other exposure parameters of trifluridine and tipiracil hydrochloride, those appeared to be dose proportional.

Pharmacokinetics in special populations

Age, gender and race

Based on the population PK analysis, there is no clinically relevant effect of age, gender or race on the PK of trifluridine or tipiracil hydrochloride.

Renal impairment

Of the 533 patients in the RECOURSE study who received Lonsurf®, 306 (57%) patients had normal renal function (CrCl ≥ 90 mL/min), 178 (33%) patients had mild renal impairment (CrCl 60 to 89 mL/min), and 47 (9%) had moderate renal impairment (CrCl 30 to 59 mL/min), with data missing for 2 patients. Patients with severe renal impairment were not enrolled in the study.

Based on a population PK analysis, the exposure of Lonsurf® in patients with mild renal impairment (CrCl = 60 to 89 mL/min) was similar to those in patients with normal renal function (CrCl ≥ 90 mL/min). A higher exposure of Lonsurf® was observed in moderate renal impairment (CrCl = 30 to 59 mL/min). Estimated (CrCl) was a significant covariate for CL/F in both final models of trifluridine and tipiracil hydrochloride. The mean relative ratio of AUC in patients with mild (N = 38) and moderate (N = 16) renal impairment compared to patients with normal renal function (N = 84) were 1.31 and 1.43 for trifluridine, respectively, and 1.34 and 1.65 for tipiracil hydrochloride, respectively.

In a dedicated study the pharmacokinetics of trifluridine and tipiracil hydrochloride were evaluated in cancer patients with normal renal function (CrCl ≥ 90 mL/min, N = 12), mild renal impairment (CrCl =60 to 89 mL/min, N=12), moderate renal impairment (CrCl = 30 to 59 mL/min, N = 11), or severe renal impairment (CrCl = 15 to 29 mL/min, N = 8). Patients with severe renal impairment received an adjusted starting dose of 20 mg/m^2 twice daily (reduced to 15 mg/m^2 twice daily based on individual safety and tolerability). The effect of renal impairment after repeated administration was a 1.6- and 1.4-fold increase of trifluridine total exposure in patients with moderate and severe renal impairment, respectively, compared to patients with normal renal function; C_{max} remained similar. The total exposure of tipiracil hydrochloride in patients with moderate and severe renal impairment after repeated administration was 2.3- and 4.1-fold higher, respectively, compared to patients with normal renal function; this being linked to a more decreased clearance with increasing renal impairment. The PK of trifluridine and tipiracil hydrochloride have not been studied in patients with end-stage renal disease (CrCl < 15 mL/min or requiring dialysis) (see sections 4.2 and 4.4).

Hepatic impairment

Based on the population PK analysis, liver function parameters including alkaline phosphatase (ALP, 36-2322 U/L), aspartate aminotransferase (AST, 11-197 U/L), alanine aminotransferase (ALT, 5-182 U/L), and total bilirubin (0.17-3.20 mg/dL) were not significant covariates for PK parameters of either

trifluridine or tipiracil hydrochloride. Serum albumin was found to significantly affect trifluridine clearance, with a negative correlation. For low albumin values ranging from 2.2 to 3.5 g/dL, the corresponding clearance values range from 4.2 to 3.1 L/h.

In a dedicated study the PK of trifluridine and tipiracil hydrochloride were evaluated in cancer patients with mild or moderate hepatic impairment (National Cancer Institute [NCI] Criteria Group B and C, respectively) and in patients with normal hepatic function. Based upon limited data with a considerable variability, no statistically significant differences were observed in the pharmacokinetics in patients with normal hepatic function versus patients with mild or moderate hepatic impairment. No correlation was seen for trifluridine nor tipiracil hydrochloride between PK parameters and AST or/and total blood bilirubin. Half-life time ($t_{1/2}$) and the accumulation ratio of trifluridine and tipiracil hydrochloride were similar between the moderate, mild and normal hepatic function patients. There is no need for a starting dose adjustment in patients with mild hepatic impairment (see section 4.2).

Gastrectomy

The influence of gastrectomy on PK parameters was not able to be examined in the population PK analysis because there were few patients who had undergone gastrectomy (1% of overall).

In vitro interaction studies

Trifluridine is a substrate of TPase, but is not metabolised by cytochrome P450 (CYP). Tipiracil hydrochloride is not metabolised in either human liver S9 or cryopreserved hepatocytes.

In vitro studies indicated that trifluridine, tipiracil hydrochloride and FTY (inactive metabolite of trifluridine) did not inhibit the CYP isoforms tested (CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 and CYP3A4/5). *In vitro* evaluation indicated that trifluridine, tipiracil hydrochloride and FTY had no inductive effect on human CYP1A2, CYP2B6 or CYP3A4/5. Thus trifluridine and tipiracil hydrochloride are not expected to cause or be subject to a significant medicinal product interaction mediated by CYP.

In vitro evaluation of trifluridine and tipiracil hydrochloride was conducted using human uptake and efflux transporters (trifluridine with MDR1, OATP1B1, OATP1B3 and BCRP; tipiracil hydrochloride with OAT1, OAT3, OCT2, MATE1, MDR1 and BCRP). Neither trifluridine nor tipiracil hydrochloride was an inhibitor of or substrate for human uptake and efflux transporters based on *in vitro* studies, except for OCT2 and MATE1. Tipiracil hydrochloride was an inhibitor of OCT2 and MATE1 *in vitro*, but at concentrations substantially higher than human plasma C_{max} at steady state. Thus it is unlikely to cause an interaction with other medicinal products, at recommended doses, due to inhibition of OCT2 and MATE1. Transport of tipiracil hydrochloride by OCT2 and MATE1 might be affected when Lonsurf® is administered concomitantly with inhibitors of OCT2 and MATE1.

Pharmacokinetic/pharmacodynamic relationship

The efficacy and safety of Lonsurf® in metastatic colorectal cancer was compared between a high-exposure group (> median) and a low-exposure group (≤ median) based on the median AUC value of trifluridine. OS appeared more favourable in the high AUC group compared to the low AUC group (median OS of 9.3 vs. 8.1 months, respectively). All AUC groups performed better than placebo throughout the follow-up period. The incidences of Grade ≥ 3 neutropenia were higher in the high-trifluridine AUC group (47.8%) compared with the low-trifluridine AUC group (30.4%).

5.3 Preclinical safety data

Repeat-dose toxicity

Toxicology assessment of trifluridine/tipiracil hydrochloride was performed in rats, dogs and monkeys. The target organs identified were the lymphatic and haematopoietic systems and the gastrointestinal tract. All changes, i.e., leukopenia, anaemia, bone marrow hypoplasia, atrophic changes in the lymphatic and haematopoietic tissues and the gastrointestinal tract, were reversible within 9 weeks of drug withdrawal. Whitening, breakage, and malocclusion were observed in teeth of rats treated with trifluridine/tipiracil hydrochloride, which are considered rodent specific and not relevant for human.

Carcinogenesis and mutagenesis

No long term studies evaluating the carcinogenic potential of trifluridine/tipiracil hydrochloride in animals have been performed. Trifluridine was shown to be genotoxic in a reverse mutation test in bacteria, a chromosomal aberration test in mammal-cultured cells, and a micronucleus test in mice. Therefore, Lonsurf® should be treated as a potential carcinogen.

Reproductive toxicity

Results of animal studies did not indicate an effect of trifluridine and tipiracil hydrochloride on male and female fertility in rats. The increases in the corpus luteum count and implanting embryo count observed in female rats at high doses were not considered adverse (see section 4.6). Lonsurf® has been shown to cause embryo-foetal lethality and embryo-foetal toxicity in pregnant rats when given at dose levels lower than the clinical exposure. No peri/post-natal developmental toxicity studies have been performed.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core

Lactose monohydrate
Pregelatinized starch
Stearic acid

Film coating

Lonsurf® Film-coated Tablet 15 mg/6.14 mg
Hypromellose
Polyethylene glycol
Titanium dioxide
Magnesium stearate

Lonsurf® Film-coated Tablet 20 mg/8.19 mg
Hypromellose

Polyethylene glycol
Titanium dioxide
Ferric oxide (red)
Magnesium stearate

Printing ink

Shellac
Ferric oxide (red)
Ferric oxide (yellow)
Titanium dioxide
FD&C Blue No.2 – Lakes
Carnauba wax
Talc

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

36 months.

6.4 Special precautions for storage

Store at or below 30°C.

6.5 Nature and contents of container

Lonsurf® tablets are packed in blisters in an aluminium foil pouch with a desiccant. It comes in a pack size of 20 film-coated tablets (10 tablets × 2 blisters).

6.6 Special precautions for disposal and other handling

Hands should be washed after handling the tablets.

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

7. MARKETING AUTHORISATION HOLDER

PT. Sydna Farma, Jakarta, Indonesia

8. MARKETING AUTHORISATION NUMBER(S)

Lonsurf® Film-coated Tablet 15 mg/6.14 mg:
Lonsurf® Film-coated Tablet 20 mg/8.19 mg:

9. MANUFACTURER

Taiho Pharmaceutical Co., Ltd. Kitajima Plant

10. DATE OF AUTHORISATION

DD/Month/YYYY

11. DATE OF REVISION OF THE TEXT

April 2022

Use under prescription of a physician

HARUS DENGAN RESEP DOKTER

Lonsurf® Film-Coated Tablet 15 MG/6.14 MG
[Berisi 15 mg trifluridine dan 6.14 mg tipiracil (setara dengan 7.065 mg tipiracil hydrochloride)]

Lonsurf® Film-Coated Tablet 20 MG/8.19 MG
[(Berisi 20 mg trifluridine dan 8.19 mg tipiracil (setara dengan 9.420 mg tipiracil hydrochloride)]

Apa yang ada di leaflet ini

1. Apa Kegunaan dari Lonsurf®

Lonsurf® adalah obat resep yang digunakan untuk mengobati penderita kanker kolon atau rektum yang telah menyebar ke bagian tubuh lainnya dan yang sebelumnya telah diobati atau tidak dapat menerima obat kemoterapi tertentu.

Peringatan: Harus digunakan dengan resep dokter

Tidak diketahui apakah Lonsurf® aman dan efektif pada anak-anak.

2. Cara kerja Lonsurf®

Lonsurf® adalah jenis kemoterapi kanker yang termasuk kelompok obat yang disebut "obat sitostatik antimetabolit".

Lonsurf® mengandung dua zat aktif yang berbeda: trifluridine dan tipiracil. Trifluridine menghambat pertumbuhan sel kanker. Tipiracil menghentikan trifluridine agar tidak rusak oleh tubuh, membantu trifluridine bekerja lebih lama.

3. Sebelum Anda menggunakan Lonsurf®

- *Ketika Anda tidak diperbolehkan menggunakan produk ini*

  Jangan menggunakan Lonsurf®:

- jika Anda memiliki alergi terhadap trifluridine atau tipiracil atau bahan-bahan lainnya dari obat ini.

- *Sebelum Anda mulai menggunakannya*

  Sebelum Anda menggunakan Lonsurf®, beritahu dokter atau apoteker Anda tentang semua kondisi medis Anda, termasuk jika Anda:

- memiliki masalah ginjal atau hati.
- hamil atau berencana untuk hamil.
- sedang menyusui atau berencana untuk menyusui.

- *Menggunakan obat-obatan lain*

  Beritahu kepada dokter atau apoteker Anda tentang semua obat yang Anda konsumsi, termasuk obat resep dan obat bebas, vitamin dan suplemen herbal.

4. Cara menggunakan Lonsurf®

- *Berapa banyak yang harus digunakan*

  Gunakan Lonsurf® dengan tepat sesuai dengan anjuran dokter atau apoteker Anda.

  Dokter Anda akan menentukan dosis yang tepat untuk Anda – dosisnya tergantung pada berat badan dan tinggi badan Anda.

  Lonsurf® tersedia dalam dua kekuatan dosis. Dokter Anda mungkin meresepkan kedua kekuatan dosis tersebut untuk Anda.

- *Kapan menggunakannya*

  Ambil Lonsurf® dalam jangka waktu 1 jam setelah makan pagi dan makan malam Anda.

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ID: EREG10021911900010, EREG10021911900064
EREG10021911900065, EREG10021911900066

- *Berapa lama untuk menggunakannya*

  Anda akan menggunakan Lonsurf® selama 10 hari dalam 2 minggu pertama dan kemudian 2 minggu tanpa obat. Periode 4 minggu ini disebut satu 'siklus'. Jadwal pemberian dosis spesifik adalah sebagai berikut:

  • Minggu 1
  - Minum dosis 2 kali sehari selama 5 hari.
  - Kemudian libur 2 hari - tidak minum obat.
  • Minggu 2
  - Minum dosis 2 kali sehari selama 5 hari.
  - Kemudian libur 2 hari - tidak minum obat.
  • Minggu 3
  - Tidak minum obat
  • Minggu 4
  - Tidak minum obat

  Anda kemudian akan mengulang kembali siklus ini selama 4 minggu sesuai pola di atas.

- *Jika Anda lupa menggunakannya*

  Jangan mengambil ulang dosis Lonsurf® yang dimuntahkan atau terlewatkan. Lanjutkan dengan dosis terjadwal berikutnya. Hubungi dokter Anda atau apoteker untuk instruksi tentang apa yang harus dilakukan untuk dosis yang terlewatkan.

- *Jika Anda menggunakan terlalu banyak (overdosis)*

  Jika Anda mengkonsumsi lebih banyak Lonsurf® dari yang seharusnya, konsultasikan dengan dokter atau segera pergi ke rumah sakit. Bawalah paket obat-obatan Anda.

5. Saat Anda menggunakannya

- *Hal-hal yang harus Anda lakukan*

  Gunakan Lonsurf® tepat seperti anjuran dokter atau apoteker Anda.

  Dokter Anda akan melakukan pemeriksaan darah sebelum Anda menggunakan Lonsurf®, pada hari ke 15 selama pengobatan Anda dengan Lonsurf®, dan sebagaimana diperlukan untuk memeriksa jumlah sel darah Anda.

  Katakan kepada dokter atau apoteker Anda sesegera mungkin jika Anda mengalami keluhan saat Anda menggunakan Lonsurf®.

  Lonsurf® dapat membahayakan janin anda. Wanita yang memiliki potensi reproduksi harus menggunakan kontrasepsi yang efektif saat menggunakan obat ini dan setidaknya 6 bulan setelah berhenti minum obat; laki-laki dengan pasangan wanita potensi reproduksi harus menggunakan kondom ketika menggunakan obat ini dan setidaknya 6 bulan setelah berhenti menggunakan obat. Jika Anda atau pasangan Anda hamil selama waktu ini, Anda harus segera berkonsultasi dengan dokter atau apoteker Anda.

  Jika Anda akan menerima obat baru apapun, beritahu dokter dan apoteker Anda bahwa Anda sedang mengkonsumsi Lonsurf®.

  Beritahu semua dokter, dokter gigi, dan apoteker yang merawat Anda bahwa Anda menggunakan Lonsurf®.

  Mintalah saran dokter atau apoteker Anda sebelum mengkonsumsi obat apa pun.

- *Hal-hal yang tidak boleh Anda lakukan*

  Tidak diketahui apakah Lonsurf® diekskresikan melalui ASI (Air Susu Ibu). Jangan menyusui selama pengobatan dengan Lonsurf® dan satu hari setelah dosis terakhir Lonsurf® Anda.

  Jangan berhenti minum obat kecuali disarankan oleh dokter Anda.

  Jangan mengambil obat baru tanpa berkonsultasi dengan dokter Anda.

  Jangan memberikan Lonsurf® kepada orang lain, bahkan jika mereka memiliki gejala yang sama dengan yang Anda miliki. Itu bisa membahayakan mereka.

  Jangan minum obat ini setelah tanggal kadaluarsa yang tercetak pada kemasan atau jika kemasan rusak atau menunjukkan tanda-tanda kerusakan.

- *Hal-hal yang harus diperhatikan*

  Orang yang merawat Anda harus menggunakan sarung tangan saat memegang tablet salut selaput Lonsurf®.

  Cuci tangan Anda setelah memegang tablet salut selaput Lonsurf®.

  Mengemudi dan menggunakan mesin

  Lonsurf® tidak terlalu berpengaruh pada kemampuan mengemudi dan menggunakan mesin. Kelelahan, pusing atau rasa tidak enak/ malaise dapat terjadi selama perawatan. Jangan mengemudi atau menggunakan alat atau mesin apa pun jika Anda mengalami gejala yang mempengaruhi kemampuan Anda untuk berkonsentrasi dan bereaksi.

  Informasi penting tentang beberapa bahan dari Lonsurf®

  Lonsurf® mengandung laktosa (sejenis gula). Jika Anda telah diberitahu oleh dokter Anda bahwa Anda memiliki intoleransi terhadap beberapa jenis gula, beritahu dokter Anda sebelum mengambil obat ini.

6. Efek samping

Lonsurf® dapat menyebabkan efek samping yang serius, termasuk:

- Penurunan jumlah sel darah
- Penurunan jumlah sel darah sering terjadi pada penggunaan Lonsurf® dan kadang-kadang bisa menjadi berat dan mengancam jiwa.
- Lonsurf® dapat menyebabkan penurunan jumlah sel darah putih, sel darah merah dan trombosit.
- Jumlah sel darah putih yang rendah dapat membuat Anda lebih rentan terkena infeksi serius yang dapat menyebabkan kematian.
- Beritahu dokter atau apoteker Anda secepatnya jika Anda mendapatkan tanda-tanda dan gejala infeksi apapun selama menggunakan Lonsurf®: demam, menggigil dan nyeri pada tubuh.
- Dokter Anda dapat menurunkan dosis Lonsurf® atau menghentikan Lonsurf® jika Anda memiliki jumlah sel darah putih yang rendah atau jumlah trombosit yang rendah.

Efek samping yang paling sering didapatkan dari penggunaan Lonsurf® meliputi:

- kelelahan
- mual
- nafsu makan menurun
- diare
- muntah
- sakit perut
- demam

Beritahu kepada dokter atau apoteker Anda jika Anda mengalami mual, muntah atau diare yang parah atau yang tidak kunjung sembuh.

Semua yang tertera di sini bukan merupakan keseluruhan dari efek samping menggunakan Lonsurf®. Untuk informasi lebih lanjut, tanyakan kepada dokter atau apoteker Anda. Hubungi dokter Anda untuk nasihat medis mengenai efek samping.

Penyakit paru interstisial telah dilaporkan pada pasien yang terpapar Lonsurf®. Beri tahu dokter atau apoteker Anda jika Anda mengalami kesulitan bernapas, sesak napas, disertai batuk atau demam.

7. Penyimpanan dan Pembuangan Lonsurf®

- *Penyimpanan*

  Jauhkan dari jangkauan dan pandangan anak-anak. Simpan pada atau di bawah suhu 30ºC.

- *Pembuangan*

  Obat-obatan ini tidak boleh dibuang ke air limbah atau limbah rumah tangga. Tanyakan kepada apoteker Anda bagaimana cara membuang obat-obatan yang tidak digunakan lagi. Langkah-langkah ini akan membantu melindungi lingkungan.

8. Deskripsi Produk

- Seperti apa bentuknya

  Lonsurf® Film-coated Tablet 15 mg/6.14 mg: tablet putih, bikonveks, bundar, tablet salut selaput, dicetak dengan '15' di satu sisidan '102' dan '15 mg' di sisi lain, dalam tinta berwarna abu-abu.

  Lonsurf® Film-coated Tablet 20 mg/8.19 mg: tablet merah pucat, bikonveks, bundar, tablet salut selaput, dicetak dengan '20' di satu sisidan '102' dan '20 mg' di sisi lain, dalam tinta berwarna abu-abu.

- Komposisi

  - Bahan aktif

  Bahan aktifnya adalah trifluridine dan tipiracil (sebagai tipiracil hydrochloride).

  Setiap Lonsurf® Film-coated Tablet 15 mg/6.14 mg mengandung 15 mg trifluridine dan 6.14 mg tipiracil (setara dengan 7.065 mg tipiracil hydrochloride).

  Setiap Lonsurf® Film-coated Tablet 20 mg/8.19 mg mengandung 20 mg trifluridine dan 8.19 mg tipiracil (setara dengan 9.420 mg tipiracil hydrochloride).

  - Zat tidak aktif

  Inti tablet

  Lactose monohydrate
  Pregelatinized starch
  Stearic acid

  Salut selaput

  Hypromellose
  Polyethylene glycol
  Titanium dioxide
  Ferric oxide red (untuk Lonsurf® Film-coated Tablet 20 mg/8.19 mg saja)
  Magnesium Stearate

  Tinta cetak

  Shellac
  Ferric oxide red
  Ferric oxide yellow
  Titanium dioxide
  FD&C Blue No. 2 - Lakes
  Carnauba wax
  Talc

9. Diproduksi oleh:

Taiho Pharmaceutical Co., Ltd. Kitajima Plant,

10. Pendaftar:

PT. Sydna Farma, Jakarta, Indonesia

11. Tanggal Revisi:

April 2022

12. Nomor Ijin Edar:

Reg No:

HARUS DENGAN RESEP DOKTER

Pelaporan efek samping: Anda juga dapat melaporkan efek samping tersebut ke sistem pelaporan nasional dibawah ini:

Pusat MESO / Farmakovigilans Nasional
Direktorat Pengawasan Distribusi Produk Terapetik dan PKRT Badan POM RI
Jl. Percetakan Negara 23 Jakarta Pusat, 10560
No Telp : 021-4244 755 Ext.111 Fax : 021-4288 3485
Email: pv-center@pom.go.id dan Indonesia-MESO-BadanPOM@hotmail.com