

Xeloda[®]

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Capecitabine

1. DESCRIPTION**1.1 Therapeutic/Pharmacologic Class of Drug**

Cytostatic agent

ATC Code : L01BC06

1.2 Type of Dosage Form

Tablets 150 mg and 500 mg.

1.3 Route of administration

Oral

1.4 Qualitative and Quantitative Composition*Active ingredient:* capecitabine.*150mg:*

Light peach, biconvex and oblong-shaped film-coated tablets containing 150 mg capecitabine. The tablets are engraved "XELODA" on one side and "150" on the other side.

500mg:

Peach, biconvex, and oblong-shaped film-coated tablets containing 500 mg capecitabine. The tablets are engraved "XELODA" on one side and "500" on the other side.

2. CLINICAL PARTICULARS**2.1 Therapeutic Indication(s)***Breast Cancer:*

Xeloda in combination with docetaxel is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline. Xeloda is also indicated as monotherapy for the treatment of patients with locally advanced or metastatic breast cancer after failure of a taxane and an anthracycline-containing chemotherapy regimen or for whom further anthracycline therapy is not indicated.

Xeloda is indicated in combination with lapatinib ditosylate for the treatment of patients with advanced or metastatic breast cancer whose tumors over express HER2 and who have received prior therapy including an anthracycline, a taxane and trastuzumab.

Colon, Colorectal cancer:

Xeloda is indicated for the treatment of patients with metastatic colorectal carcinoma.

Xeloda is indicated as adjuvant treatment of patients following surgery of Stage III (Duke's Stage C) colon cancer.

Oesophagogastric Cancer:

Xeloda is indicated as first-line treatment of patients with advanced oesophagogastric cancer in combination with a platinum-based regimen.

2.2 Dosage and Administration***Standard dosage***

Xeloda tablets should be swallowed whole with water within 30 minutes after a meal. Xeloda tablets should not be crushed or cut (see section 2.6.2 Postmarketing Experience). If patients cannot swallow Xeloda tablets whole and tablets must be crushed or cut, this should be done by a professional trained in the safe handling of cytotoxic drugs (see section 4.2 Special Instructions for Use, Handling and Disposal).

Monotherapy:

Colon, Colorectal and breast cancer

The recommended monotherapy starting dose of Xeloda is 1250 mg/m² administered twice daily (morning and evening; equivalent to 2500 mg/m² total daily dose) for 2 weeks followed by a 7-day rest period.

Combination therapy

Breast Cancer

In combination with docetaxel

In combination with docetaxel, the recommended dose of Xeloda is 1250 mg/m² twice daily for 2 weeks followed by a 7-day rest period, combined with docetaxel at 75 mg/m² as a 1-hour intravenous infusion every 3 weeks.

Pre-medication according to the docetaxel labelling, should be started prior to docetaxel administration for patients receiving the Xeloda plus docetaxel combination.

In combination with lapatinib ditosylate

In combination with *lapatinib ditosylate*, the recommended dose of Xeloda is 2000 mg/m²/day administered orally in 2 doses 12 hours apart for 14 days (Day 1-14) in a repeating 21 day cycle combined with lapatinib ditosylate 1250 mg (5 tablets) given orally once daily from Day 1-21. (See manufacturer's prescribing information for lapatinib ditosylate for further information).

Colon, colorectal cancer

In combination with oxaliplatin and/or bevacizumab

In combination with oxaliplatin and/or bevacizumab the recommended dose of Xeloda is 1000 mg/m² twice daily for 2 weeks followed by a 7-day rest period. The first dose of Xeloda is given on the evening of day 1 and the last dose is given on the morning of day 15. Given as a 3-weekly schedule, on day 1 every 3 weeks bevacizumab is administered as a 7.5 mg/kg intravenous infusion over 30-90 minutes followed by oxaliplatin administered as a 130 mg/m² intravenous infusion over 2 hours.

Premedication to maintain adequate hydration and anti-emesis according to the oxaliplatin product information should be started prior to oxaliplatin administration for patients receiving the Xeloda plus oxaliplatin combination. Adjuvant treatment in patients with stage III colon cancer is recommended for a total of 6 months.

Gastric Cancer

In combination with platinum-based regimen:

In combination with a platinum-based compound the recommended dose of Xeloda for the treatment of advanced gastric cancer is 1000 mg/m² administered twice daily for 14 days followed by a 7 day rest period. The first dose of Xeloda should be given on the evening of day 1 and the last dose should be given on the morning of day 15. If epirubicin is added to this regimen the recommended dose of Xeloda is 625 mg/m² twice daily continuously. Epirubicin at a dose of 50 mg/m² should be given as a bolus on day 1 every 3 weeks. The platinum based compound (cisplatin at a dose of 60 mg/m² (triple regimen) - 80 mg/m² (double regimen) or oxaliplatin at a dose of 130 mg/m²) should be given on day 1 as a 2 hour intravenous infusion every 3 weeks.

Premedication to maintain adequate hydration and anti-emesis according to the cisplatin/oxaliplatin summary of product characteristics should be started prior to cisplatin/oxaliplatin administration for patients receiving the Xeloda plus cisplatin/oxaliplatin combination.

Dose calculation

Xeloda dose is calculated according to body surface area .The following tables show the standard and reduced dose calculations (see section “*Dosage adjustments during treatment*”) for a starting dose of Xeloda of either 1250 mg/m² or 1000 mg/m².

Table 1: Standard and reduced dose calculations according to body surface area for a starting dose of Xeloda of 1250 mg/m²

	Dose level 1250 mg/m² (twice daily)			
	Full dose	Number of tablets per administration (each administration to be given morning and evening)	Reduced dose (75%)	Reduced dose (50%)
	1250 mg/m ²		950 mg/m ²	625 mg/m ²

Body surface area (m ²)	Dose per administration (mg)	150 mg	500 mg	Dose per administration (mg)	Dose per administration (mg)
≤1.26	1500	-	3	1150	800
1.27 –1.38	1650	1	3	1300	800
1.39 –1.52	1800	2	3	1450	950
1.53 –1.66	2000	-	4	1500	1000
1.67 –1.78	2150	1	4	1650	1000
1.79 –1.92	2300	2	4	1800	1150
1.93 –2.06	2500	-	5	1950	1300
2.07 –2.18	2650	1	5	2000	1300
≥2.19	2800	2	5	2150	1450

Table 2: Standard and reduced dose calculations according to body surface area for a starting dose of Xeloda of 1000 mg/m²

Body surface area (m ²)	Dose level 1000 mg/m ² (twice daily)				
	Full dose 1000 mg/m ²	Number of tablets per administration (each administration to be given morning and evening)		Reduced dose (75%) 750 mg/m ²	Reduced dose (50%) 500 mg/m ²
Body surface area (m ²)	Dose per administration (mg)	150 mg	500 mg	Dose per administration (mg)	Dose per administration (mg)
≤1.26	1150	1	2	800	600
1.27 –1.38	1300	2	2	1000	600
1.39 –1.52	1450	3	2	1100	750
1.53 –1.66	1600	4	2	1200	800
1.67 –1.78	1750	5	2	1300	800
1.79 –1.92	1800	2	3	1400	900
1.93 –2.06	2000	-	4	1500	1000
2.07 –2.18	2150	1	4	1600	1050
≥2.19	2300	2	4	1750	1100

Dosage adjustments during treatment

General:

Toxicity due to Xeloda administration may be managed by symptomatic treatment and/or modification of the Xeloda dose (treatment interruption or dose reduction). Once the dose has been reduced it should not be increased at a later time.

For those toxicities considered by the treating physician to be unlikely to become serious or life-threatening treatment can be continued at the same dose without reduction or interruption.

Dosage modifications are not recommended for Grade 1 events. Therapy with Xeloda should be interrupted if a Grade 2 or 3 adverse drug reaction (ADR) occurs. Once the ADR has resolved or decreased in intensity to Grade 1, Xeloda therapy may be restarted at full dose or as adjusted according to Table 3. If a Grade 4 ADR occurs, therapy should be discontinued or interrupted until the ADR has resolved or decreased to Grade 1, and therapy should be restarted at 50% of the original dose. Patients taking Xeloda should be informed of the need to interrupt treatment immediately if moderate or severe toxicity occurs. Doses of Xeloda omitted for toxicity are not replaced.

Haematology:

Patients with baseline neutrophil counts of <1.5 X 10⁹/L and/or thrombocyte counts of <100 X 10⁹/L should not be treated with Xeloda. If unscheduled laboratory assessments during a treatment cycle show grade 3 or 4 haematologic toxicity, treatment with Xeloda should be interrupted.

The following table shows the recommended dose modifications following toxicity related to with Xeloda:

Table 3: Xeloda dose reduction schedule

Toxicity NCIC grades*	Dose changes within a treatment cycle	Dose adjustment for next cycle (% of starting dose)
• Grade 1	maintain dose level	maintain dose level
• Grade 2		
1 st appearance	interrupt until resolved to Grade 0-1	100%

2 nd appearance		75%
3 rd appearance		50%
4 th appearance	discontinue treatment permanently	Not applicable
• Grade 3		
1 st appearance	interrupt until resolved to Grade 0-1	75%
2 nd appearance		50%
3 rd appearance	discontinue treatment permanently	Not applicable
• Grade 4		
1 st appearance	discontinue permanently <i>or</i> If physician deems it to be in the patient's best interest to continue, interrupt until resolved to Grade 0-1	50%
2 nd appearance	discontinue permanently	Not applicable

* According to the National Cancer Institute of Canada Clinical Trial Group (NCIC CTG) Common Toxicity Criteria (version 1) or the Common Terminology Criteria for Adverse Events (CTCAE) of the Cancer Therapy Evaluation Program, US National Cancer Institute, version 3.0. For hand-foot syndrome and hyperbilirubinemia, (see section 2.4, Warnings and Precautions).

The following are the recommended dose modifications for toxicity when Xeloda and docetaxel are used in combination:

Table 4: Xeloda (X) in combination with docetaxel (T) dose reduction schedule

	Recommended Dose Modifications	
	Xeloda dose changes within a treatment cycle	
Toxicity grade ¹	Grade 1	
	100% of starting dose (no interruption)	X: 100% of starting dose T: 100% (75 mg/m ²)
Toxicity grade ¹	Grade 2	
1 st appearance	Interrupt until resolved (grade 0 – 1)	X: 100% of starting dose T: 100% (75 mg/m ²)
2 nd appearance of same toxicity	Interrupt until resolved (grade 0 – 1)	X: 75% of starting dose T: Reduce to 55 mg/m ²
3 rd appearance of same toxicity	Interrupt until resolved (grade 0 – 1)	X: 50% of starting dose T: Discontinue permanently
4 th appearance of same toxicity	Discontinue permanently	
Toxicity grade	Grade 3	
	If grade 3 haematological see section on haematological toxicity, otherwise:	
1 st appearance	Interrupt until resolved (grade 0 – 1)	X: 75% of starting dose T: Reduce to 55 mg/m ²
2 nd appearance	Interrupt until resolved (grade 0 – 1)	X: 50% of starting dose T: Discontinue permanently
3 rd appearance	Discontinue permanently	
Toxicity grade ¹	Grade 4	
	If G4 haematological see section on haematological toxicity, otherwise:	
1 st appearance	Discontinue permanently <i>or</i> (if physician deems it to be in the best of interest of the patient) interrupt until resolved (grade 0-1)	X: Reduce to 50% T: Discontinue permanently
2 nd appearance	Discontinue permanently	

* National Cancer Institute of Canada Common Toxicity Criteria were used except for hand-foot syndrome (see 2.4 Warnings and Precautions)

Specific dose adjustment in combination with docetaxel

Xeloda and/or docetaxel dose modifications should be made according to the general dose modification scheme above, if nothing else is stated regarding specific dose adjustments. For those toxicities considered unlikely to become serious or life-threatening, e.g. alopecia, altered taste, nail changes, treatment can be continued at the same dose without reduction or interruption. At the beginning of a treatment cycle, if either a docetaxel or a Xeloda treatment delay is indicated, both docetaxel and Xeloda administration should be delayed until the requirements for restarting both drugs are met. If docetaxel has to be discontinued, Xeloda treatment can be resumed when the requirements for restarting Xeloda are met.

Hematology: Treatment should only be re-administered when the neutrophil count is $\geq 1.5 \times 10^9/l$ (Grade 0 - 1). Patients with neutropenia $< 0.5 \times 10^9/l$ (Grade 4) for more than 1 week, or febrile ($>38^\circ\text{C}$) neutropenia, should have the docetaxel dosage reduced from 75 mg/m^2 to 55 mg/m^2 . If Grade 4 neutropenia or febrile neutropenia occurs at 55 mg/m^2 docetaxel, docetaxel should be discontinued. Patients with baseline neutrophil counts of $< 1.5 \times 10^9/l$ and/or thrombocyte counts of $< 1.0 \times 10^9/l$ should not be treated with the Xeloda/docetaxel combination.

Hypersensitivity: Patients who develop severe hypersensitivity reactions (hypotension with a decrease of ≥ 20 mm Hg, or bronchospasm, or generalised rash/erythema) should stop treatment immediately and be given appropriate therapy. These patients should not be re-challenged with the drug suspected to have caused hypersensitivity.

Peripheral neuropathy: For 1st appearance of Grade 2 toxicity, reduce the docetaxel dose to 55 mg/m^2 . If Grade 3 toxicity appears, discontinue docetaxel treatment. In both instances follow the above dose modification scheme for Xeloda.

Fluid retention: Severe (Grade 3 or 4) toxicity such as pleural effusion, pericardial effusion or ascites which is possibly related to docetaxel should be closely monitored. In case of appearance of such toxicity docetaxel treatment should be discontinued, Xeloda treatment may be continued without dose modification.

Hepatic impairment: Docetaxel should generally not be given to patients with serum bilirubin above the upper limit of normal. The following modifications should be applied to the docetaxel dose in the event of abnormal values for ASAT, ALAT, and/or alkaline phosphatase levels:

Table 5: Modifications to the docetaxel dose

ASAT and/or ALAT values		Alkaline phosphatase values	Docetaxel dose modification
$\leq 1.5 \times \text{UNL}$	and	$\leq 5 \times \text{UNL}$	no dose modification
$> 1.5 \times \text{UNL} - \leq 2.5 \times \text{UNL}$	and	$\leq 2.5 \times \text{UNL}$	no dose modification
$> 2.5 \times \text{UNL} - \leq 5 \times \text{UNL}$	and	$\leq 2.5 \times \text{UNL}$	reduce by 25% (not below 55 mg/m^2)
$> 1.5 \times \text{UNL} - \leq 5 \times \text{UNL}$	and	$> 2.5 \times \text{UNL} - \leq 5 \times \text{UNL}$	reduce by 25% (not below 55 mg/m^2)
$> 5 \times \text{UNL}$	or	$> 5 \times \text{UNL}$	delay dose by a maximum of 2 weeks. If no recovery, discontinue docetaxel.
(unless bone metastases are present in the absence of any liver disorder)			

Once the docetaxel dose is reduced for a given cycle, no further dose reduction is recommended for subsequent cycles unless worsening of the parameters is observed. In case of recovery of liver function tests after previous reduction of the docetaxel dose, the docetaxel dose can be re-escalated to the previous dose level.

Dehydration: Dehydration should be prevented or corrected at the onset. Patients with anorexia, asthenia, nausea, vomiting or diarrhea may rapidly become dehydrated. If Grade 2 (or higher) dehydration occur, Xeloda treatment should be immediately interrupted and the dehydration corrected. Treatment should not be restarted until the patient is rehydrated and any precipitating causes have been corrected or controlled. Dose modifications applied should be those for the precipitating adverse event in accordance with the above guidelines.

Reductions to 75% and 50% of Xeloda dose

For patients receiving Xeloda monotherapy or Xeloda in combination with docetaxel, the following tables show the dosage at 75% and 50%, calculated according to the body surface area:

Table 6: Calculated Xeloda dose, reduced to 75% of the standard starting dose

Dose level 950 mg/m^2 twice daily		Number of tablets administered in the morning		Number of tablets administered in the evening	
Body surface area (m^2)	Dose per administration (mg)	150 mg	500 mg	150 mg	500 mg
≤ 1.26	1150	1	2	1	2
1.27 – 1.38	1300	2	2	2	2
1.39 – 1.52	1450	3	2	3	2
1.53 – 1.66	1500	–	3	–	3

Dose level 950 mg/m ² twice daily		Number of tablets administered in the morning		Number of tablets administered in the evening	
Body surface area (m ²)	Dose per administration (mg)	150 mg	500 mg	150 mg	500 mg
1.67 – 1.78	1650	1	3	1	3
1.79 – 1.92	1800	2	3	2	3
1.93 – 2.06	1950	3	3	3	3
2.07 – 2.18	2000	–	4	–	4
≥2.19	2150	1	4	1	4

Calculated Xeloda dose, reduced to 50% of the standard starting dose

Dose level 625 mg/m ² twice daily		Number of tablets administered in the morning		Number of tablets administered in the evening	
Body surface area (m ²)	Dose per administration (mg)	150 mg	500 mg	150 mg	500 mg
≤1.38	800	2	1	2	1
1.39 – 1.52	950	3	1	3	1
1.53 – 1.66	1000	–	2	–	2
1.67 – 1.78	1000	–	2	–	2
1.79 – 1.92	1150	1	2	1	2
1.93 – 2.06	1300	2	2	2	2
2.07 – 2.18	1300	2	2	2	2
≥2.19	1450	3	2	3	2

2.2.1 Special dosage instructions

Pediatric use

The safety and efficacy of Xeloda in children and adolescents (<18 years) have not been established.

Geriatric use

For Xeloda monotherapy, no adjustment of the starting dose is needed. However, severe Grade 3 or 4 treatment-related ADRs were more frequent in patients over 80 years of age compared to younger patients.

When Xeloda was used in combination with other antineoplastic agents, geriatric patients (≥65 years) experience more Grade 3 and Grade 4 ADRs and ADRs that led to discontinuation, than younger patients. Careful monitoring of elderly patients is advisable.

In combination with docetaxel: an increased incidence of Grade 3 or 4 treatment-related ADRs and treatment-related serious ADRs was observed in patients 60 years of age or more. For patients 60 years of age or more treated with the combination of Xeloda plus docetaxel, a starting dose reduction of Xeloda to 75% (950 mg/m² twice daily) is recommended. For dosage calculations, see Table 1.

In combination with irinotecan: for patients 65 years of age or more, a starting dose reduction of Xeloda to 800 mg/m² twice daily is recommended.

Renal impairment

In patients with moderate renal impairment (creatinine clearance 30 - 50 mL/min [Cockcroft and Gault]) at baseline, a dose reduction to 75% for a starting dose of 1250 mg/m² is recommended. In patients with mild renal impairment (creatinine clearance 51 - 80 mL/min), no adjustment in starting dose is recommended.

Careful monitoring and prompt treatment interruption is recommended if the patient develops a Grade 2, 3, or 4 ADRs with subsequent dose adjustment as outlined in Table 3 above (see also section 3.2.5 Pharmacokinetics in Special Populations). If the calculated creatinine clearance decreases during treatment to a value below 30 mL/min, Xeloda should be discontinued. The dose adjustment recommendations for patients with moderate renal impairment apply both to monotherapy and combination use. For dosage calculations, see Table 1 and Table 2.

Hepatic Impairment

In patients with mild to moderate hepatic impairment due to liver metastases, no starting dose adjustment is necessary. However, such patients should be carefully monitored (see section 3.2.5 Pharmacokinetics in Special Populations and section 2.4, Warnings and Precautions). Patients with severe hepatic impairment have not been studied.

2.3 Contraindications

Xeloda is contraindicated in patients with a known hypersensitivity to capecitabine or to any of its excipients.

Xeloda is contraindicated in patients who have a history of severe and unexpected reactions to fluoropyrimidine therapy or with known hypersensitivity to fluorouracil.

Xeloda is contraindicated in patients with known complete absence of dihydropyrimidine dehydrogenase (DPD) activity (see section 2.4 Warnings and Precautions).

Xeloda should not be administered concomitantly with sorivudine or its chemically related analogues, such as brivudine (see section 2.8 Interactions with other Medicinal Products and other Forms of Interaction).

Xeloda is contraindicated in patients with severe renal impairment (creatinine clearance below 30 mL/min).

If contraindications exist to any of the agents in a combination regimen, that agent should not be used.

2.4 Warnings and Precautions

Warnings

Diarrhea: Xeloda can induce diarrhea, which can sometimes be severe. Patients with severe diarrhea should be carefully monitored and, if they become dehydrated, should be given fluid and electrolyte replacement. Standard anti-diarrhea treatments (e.g. loperamide) should be initiated, as medically appropriate, as early as possible. Dose reduction should be applied as necessary (see section 2.2, Dosage and Administration).

Dehydration: Dehydration should be prevented or corrected at the onset. Patients with anorexia, asthenia, nausea, vomiting or diarrhea may rapidly become dehydrated.

Dehydration may cause acute renal failure, especially in patients with pre-existing compromised renal function or when capecitabine is given concomitantly with known nephrotoxic agents. Fatal outcome of renal failure has been reported in these situations, *see section 2.6.2 Postmarketing Experience, Undesirable Effects.*

If Grade 2 (or higher) dehydration occurs, Xeloda treatment should be immediately interrupted and the dehydration corrected. Treatment should not be restarted until the patient is rehydrated and any precipitating causes have been corrected or controlled. Dose modifications should be applied for the precipitating ADR as necessary (see section 2.2 Dosage and Administration).

Dihydropyrimidine dehydrogenase (DPD) deficiency: Rarely, unexpected, severe toxicity (e.g. stomatitis, diarrhea, mucosal inflammation, neutropenia and neurotoxicity) associated with 5-FU has been attributed to a deficiency of DPD activity, an enzyme involved in fluorouracil degradation.

Patients with certain homozygous or certain compound heterozygous mutations in the *DPYD* gene locus that cause complete or near complete absence of DPD activity, are at the highest risk for severe, life-threatening, or fatal adverse reactions caused by fluorouracil. These patients should not be treated with Xeloda. No dose has been proven safe for patients with complete absence of DPD activity (see Section 2.3 Contraindications).

Patients with certain heterozygous *DPYD* variants (eg. *DPYD*2A* variant) that may cause partial DPD deficiency have been shown to have increased risk of severe toxicity when treated with capecitabine. For patients with partial DPD deficiency where the benefits of Xeloda are considered to outweigh the risks (taking into account the suitability of an alternative non-fluoropyrimidine chemotherapeutic regimen), these patients must be treated with extreme caution, initially with a substantial dose reduction and frequent subsequent monitoring and dose adjustment according to toxicity.

Testing for DPD deficiency should be considered based on the local availability and current guidelines.

In patients with unrecognised DPD deficiency treated with capecitabine as well as patients who test negative for specific *DPYD* variations, life-threatening toxicities manifesting as acute overdose may occur. In the event of grade 2-4 acute toxicity, treatment must be discontinued immediately. Permanent discontinuation should be considered based on clinical assessment of the onset, duration and severity of the observed toxicities (see section 2.7 Overdose).

Precautions

The spectrum of cardiotoxicity observed with Xeloda is similar to that of other fluorinated pyrimidines. This includes myocardial infarction, angina, dysrhythmias, cardiac arrest, cardiac failure and electrocardiographic changes. These ADRs may be more common in patients with a prior history of coronary artery disease.

Xeloda can induce severe skin reactions such as Stevens-Johnson syndrome and Toxic Epidermal Necrolysis (TEN), *see section 2.6.2 Postmarketing Experience*. Xeloda should be permanently discontinued in patients who experience a severe skin reaction possibly attributable to Xeloda treatment.

Xeloda can induce hand-foot syndrome (palmar-plantar erythrodysesthesia or chemotherapy induced acral erythema) which is a cutaneous toxicity. Persistent or severe hand-foot syndrome (grade 2 and above) can eventually lead to loss of fingerprints, which could impact patient identification. For patients receiving Xeloda monotherapy in the metastatic setting, the median time to onset of 79 days, range from 11 to 360 days), with a severity range of Grades 1 to 3.

Grade 1 hand-foot syndrome is defined by numbness, dysesthesia/paresthesia, tingling, or erythema of the hands and/or feet and/or discomfort which does not disrupt normal activities. Grade 2 is defined as painful erythema and swelling of the hands and/or feet and/or discomfort affecting the patient's activities of daily living. Grade 3 is defined as moist desquamation, ulceration, blistering or severe pain of the hands and/or feet and/or severe discomfort that causes the patient to be unable to work or perform activities of daily living. If Grade 2 or 3 hand-foot syndrome occurs, administration of Xeloda should be interrupted until the event resolves or decreases in intensity to Grade 1. Following Grade 3 hand-foot syndrome, subsequent doses of Xeloda should be decreased (see section 2.2 Dosage and Administration). When Xeloda and cisplatin are used in combination, use of Vitamin B6 (pyridoxine) is not advised for the symptomatic or secondary prophylactic treatment of hand-foot syndrome, because of published reports that it may decrease the efficacy of cisplatin. There is some evidence that dexpanthenol is effective for hand-foot syndrome prophylaxis in patients treated with Xeloda.

Xeloda can induce hyperbilirubinemia. Administration of Xeloda should be interrupted if treatment-related elevations in bilirubin of $> 3.0 \times \text{ULN}$ or treatment-related elevations in hepatic aminotransferases (ALT, AST) of $> 2.5 \times \text{ULN}$ occur. Treatment may be resumed when bilirubin decreases to $\leq 3.0 \times \text{ULN}$ or hepatic aminotransferases decrease to $\leq 2.5 \times \text{ULN}$.

Care should be exercised when Xeloda is co-administered with drugs, which are metabolized by cytochrome P450 2C9 such as for example warfarin or phenytoin. Patients receiving concomitant Xeloda and oral coumarin-derivative anticoagulant therapy should have their anticoagulant response (INR or prothrombin time) monitored closely and the anticoagulant dose adjusted accordingly. Patients taking phenytoin concomitantly with Xeloda should be regularly monitored for increased phenytoin plasma concentrations (see section 2.8, Interactions with other Medicinal Products and other Forms of Interaction).

2.4.1 General

Patients treated with Xeloda should be carefully monitored for toxicity. Most ADRs are reversible and do not require permanent discontinuation of therapy, although doses may have to be withheld or reduced (see also section 2.2, Dosage and Administration).

2.4.2 Drug Abuse and Dependence

Not applicable

2.4.3 Ability to Drive and Use Machines

Xeloda has moderate influence on the ability to drive and use machines. Patients should be advised to use caution when driving or using machines if they experience ADRs such as dizziness, fatigue, and or nausea during treatment with Xeloda (see section 2.6 Undesirable Events).

2.5 Use In Special Populations

2.5.1 Female and Males of Reproductive Potential

Fertility

Based on evidence from animal studies, Xeloda may impair fertility in females and males of reproductive potential (see section 3.3.3 Reproductive Toxicity, 3.3.4 Impairment of Fertility)

Contraception

Females

Women of childbearing potential should be advised to avoid becoming pregnant while receiving treatment with Xeloda. An effective method of contraception should be used during treatment and for 6 months after the last dose of Xeloda. If the patient becomes pregnant while receiving Xeloda, the potential hazard to the fetus must be explained.

Males

Based on genetic toxicity findings, male patients with female partners of reproductive potential should use effective contraception during treatment and for 3 months following the last dose of Xeloda.

2.5.2 Pregnancy

There are no studies in pregnant women using Xeloda; however, based on the pharmacological and toxicological properties of Xeloda, it can be assumed that Xeloda may cause fetal harm if administered to pregnant women. In reproductive toxicity studies in animals, capecitabine administration caused embryoletality and teratogenicity. These findings are expected effects of fluoropyrimidine derivatives. Capecitabine should be considered a potential human teratogen. Xeloda should not be used during pregnancy (see section 3.3.4 Reproductive Toxicity). If Xeloda is used during pregnancy or if the patient becomes pregnant while receiving this drug, the patient must be apprised of the potential hazard to the fetus.

2.5.3 Lactation

It is not known whether Xeloda is excreted in human milk. No studies have been conducted to assess the impact of Xeloda on milk production or its presence in human breast milk. In a study of single oral administration of Xeloda to lactating mice, a significant amount of capecitabine metabolites was detected in the milk. As the potential for harm to the nursing infant is unknown, breastfeeding should be discontinued during treatment with Xeloda and for 2 weeks after the final dose.

2.5.4 Pediatric Use

The safety and efficacy of Xeloda in pediatric patients below the age of 18 have not been established.

2.5.5 Geriatric Use

Among patients with colorectal cancer aged 60-79 years receiving Xeloda monotherapy in the metastatic setting, the incidence of gastrointestinal toxicity was similar to that in the overall population. In patients aged 80 years or older, a larger percentage experienced reversible Grade 3 or 4 gastrointestinal ADRs, such as diarrhea, nausea and vomiting (see section 2.2.1, Special Dosage Instructions). When Xeloda was used in combination with other agents geriatric patients (≥ 65 years) experienced more Grade 3 and Grade 4 ADRs and ADRs that led to discontinuation than younger patients. An analysis of safety data in patients equal to or greater than 60 years of age treated with Xeloda plus docetaxel combination therapy showed an increase in the incidence of treatment-related Grade 3 and 4 ADRs, treatment-related serious ADRs and early withdrawals from treatment due to ADRs compared to patients less than 60 years of age.

2.5.4 Renal Impairment

Physicians should exercise caution when Xeloda is administered to patients with impaired renal function. As seen with 5-FU the incidence of treatment-related Grade 3 or 4 ADRs was higher in patients with moderate renal impairment (creatinine clearance 30-50 mL/min) (see section 2.2.1, Special Dosage Instructions).

2.5.5 Hepatic Impairment

Patients with hepatic impairment should be carefully monitored when Xeloda is administered. The effect of hepatic impairment not due to liver metastases or severe hepatic impairment on the disposition of Xeloda is not known (see section 3.2.5, Pharmacokinetics in Special Populations and 2.2.1, Special Dosage Instructions).

2.6 Undesirable effects

2.6.1 Clinical Trials

Adverse drug reactions (ADRs) considered by the investigator to be possibly, probably, or remotely related to the administration of Xeloda have been obtained from clinical studies conducted with Xeloda monotherapy (in adjuvant therapy of colon cancer, in metastatic colorectal cancer and metastatic breast cancer), and clinical studies conducted with Xeloda in combination with different chemotherapy regimens for multiple indications. ADRs are added to the appropriate category in the tables below according to the highest incidence from the pooled analysis of seven clinical trials. Within each frequency grouping ADRs are listed in descending order of seriousness. Frequencies are defined as very common $\geq 1/10$, common $\geq 5/100$ to $< 1/10$ and uncommon $\geq 1/1000$ to $< 1/100$.

Xeloda monotherapy

Safety data of Xeloda monotherapy were reported for patients who received adjuvant treatment for colon cancer and for patients who received treatment for metastatic breast cancer or metastatic colorectal cancer. The safety information includes data from a phase III trial in adjuvant colon cancer (995 patients treated with Xeloda and 974 treated with i.v. 5-FU/LV)

and from 4 phase II trials in female patients with breast cancer (N=319) and 3 trials (1 phase II and 2 phase III trials) in male and female patients with colorectal cancer (N=630). The safety profile of Xeloda monotherapy is comparable in patients who received adjuvant treatment for colon cancer and in those who received treatment for metastatic breast cancer or metastatic colorectal cancer. The intensity of ADRs was graded according to the toxicity categories of the NCIC CTC Grading System.

Table 7: Summary of ADRs reported in ≥5% of patients treated with Xeloda monotherapy

Body System ADR	Very Common (≥ 10%)	Common (≥5% to < 10%)
Metabolism and nutrition disorders	Anorexia (G3/4:1%)	Dehydration (G3/4: 3%) Appetite decreased (G3/4:<1%)
Nervous system disorders		Paraesthesia, Dysgeusia (G3/4:<1%), Headache (G3/4:<1%), Dizziness (excl. vertigo) (G3/4:<1%)
Eye disorders		Lacrimation increased Conjunctivitis (G3/4:<1%)
Gastrointestinal disorders	Diarrhea (G3/4: 13%) Vomiting (G3/4: 4%) Nausea (G3/4: 4%) Stomatitis (all)* (G3/4: 4%) Abdominal pain (G3/4: 3%)	Constipation (G3/4:<1%), Abdominal pain upper (G3/4:<1%), Dyspepsia (G3/4:<1%),
Hepatobiliary disorders		Hyperbilirubinemia (G3/4:1%)
Skin and subcutaneous tissue disorders	Palmar-plantar erythrodysesthesia syndrome ** (G3/4: 17%), Dermatitis (G3/4:<1%)	Rash, Alopecia, Erythema (G3/4:1%), Dry Skin (G3/4:<1%),
General disorders and administration site conditions	Fatigue (G3/4: 3%), Lethargy (G3/4:<1%)	Pyrexia (G3/4:<1%), Weakness (G3/4:<1%), Asthenia (G3/4:<1%)

* stomatitis, mucosal inflammation, mucosal ulceration, mouth ulceration

** Based on the post-marketing experience, persistent or severe palmar-plantar erythrodysesthesia syndrome can eventually lead to loss of fingerprints (see section 2.4, Warnings and Precautions).

Skin fissures were reported to be at least remotely related to Xeloda in less than 2% of the patients in seven completed clinical trials (N= 949).

The following ADRs represent known toxicities with fluoropyrimidine therapy and were reported to be at least remotely related to Xeloda in less than 5% of patients in seven completed clinical trials (N = 949):

- Gastrointestinal disorder: dry mouth, flatulence, ADRs related to inflammation/ulceration of mucous membranes such as esophagitis, gastritis, duodenitis, colitis, gastrointestinal hemorrhage.
- Cardiac disorders: edema lower limb, cardiac chest pain including angina, cardiomyopathy, myocardial ischemia/infarction, cardiac failure, sudden death, tachycardia, atrial arrhythmias including atrial fibrillation, and ventricular extrasystoles.
- Nervous system disorders: taste disturbance, insomnia, confusion, encephalopathy, and cerebellar signs such as ataxia, dysarthria, impaired balance, abnormal coordination.
- Infections and infestations: ADRs related to bone marrow depression, immune system compromise, and/or disruption of mucous membranes such as local and fatal systemic infections (including bacterial, viral, fungal etiologies) and sepsis.
- Blood and lymphatic system disorders: anemia, bone marrow depression/ pancytopenia.
- Skin and subcutaneous tissue disorders: pruritus, localized exfoliation, skin hyperpigmentation, nail disorders, photosensitivity reactions, radiation recall syndrome
- General disorders and administration site conditions: pain in limb, chest pain (non-cardiac).
- Eye: eye irritation.
- Respiratory: dyspnoea, cough
- Musculoskeletal: back pain, myalgia, arthralgia
- Psychiatric disorders: depression
- Hepatic failure and cholestatic hepatitis have been reported during clinical trials and post-marketing exposure. A causal relationship with Xeloda treatment has not been established.

Xeloda in combination therapy

Table 8 lists ADRs associated with the use of Xeloda in combination therapy with different chemotherapy regimens in multiple indications and occurred in addition to those seen with monotherapy and/or at a higher frequency grouping. The

safety profile was similar across all indications and combination regimens. These reactions occurred in $\geq 5\%$ of patients treated with Xeloda in combination with other chemotherapies. Adverse drug reactions are added to the appropriate category in the table below according to the highest incidence seen in any of the major clinical trials. Some of the adverse reactions are reactions commonly seen with chemotherapy (e.g. peripheral sensory neuropathy with docetaxel or oxaliplatin), or with bevacizumab (e.g. hypertension); however, an exacerbation by Xeloda therapy cannot be excluded.

Table 8: Very common and common ADRs for Xeloda in combination with different chemotherapies in addition to those seen for Xeloda monotherapy.

Body System Adverse Event	Very Common $\geq 10\%$	Common $\geq 5\%$ to $< 10\%$
Infections and Infestations		Infection ⁺ Oral candidiasis
Blood and lymphatic system disorders	Neutropenia ⁺ , Leukopenia ⁺ , Febrile neutropenia ⁺ , Thrombocytopenia ⁺ , Anaemia ⁺	
Metabolism and nutrition disorders	Appetite decreased	Hypokalemia, Weight Decreased
Psychiatric disorders		Insomnia
Nervous system disorders	Neuropathy peripheral, Peripheral sensory neuropathy, Neuropathy, Paraesthesia, Dysgeusia, Dysaesthesia, Headache	Hypoaesthesia
Eye disorders	Lacrimation increased	
Vascular Disorders	Thrombosis/embolism, Hypertension, Lower limb oedema	
Respiratory, thoracic and mediastinal disorders	Dysaesthesia pharynx, Sore throat	Epistaxis, Dysphonia, Rhinorrhoea, Dyspnoea
Gastrointestinal disorders	Constipation, Dyspepsia	Dry mouth
Skin and subcutaneous tissue disorders	Alopecia, Nail disorder	
Musculoskeletal and connective tissue disorders	Arthralgia, Myalgia, Pain in extremity	Pain in jaw, Back Pain
General disorders and administration site conditions	Pyrexia, Asthenia, Weakness, Temperature intolerance	Fever ⁺ Pain,

Frequencies based on all grades except those denoted with ⁺, which are based on G3/4 ADRs only.

Hypersensitivity reactions (2%) and cardiac ischaemia/infarction (3%) have been reported commonly for Xeloda in combination with other chemotherapy but in less than 5% of patients.

Rare or uncommon ADRs reported for Xeloda in combination with other chemotherapy are consistent with the ADRs reported for Xeloda monotherapy or the combination product monotherapy (see prescribing information for the combination product).

Laboratory Abnormalities

The following table displays laboratory abnormalities observed in 995 patients (adjuvant colon cancer) and 949 patients (metastatic breast and colorectal cancer), regardless of relationship to treatment with Xeloda.

Table 9: Laboratory abnormalities^a: Xeloda monotherapy in adjuvant colon cancer and in metastatic breast and colorectal cancer

Parameter ^a	Xeloda 1250 mg/m ² twice daily intermittent	
	Patients with Grade 3 / 4 abnormality (%)	
Increased ALAT (SGPT)	1.6	
Increased ASAT (SGOT)	1.1	
Increased alkaline phosphatase	3.5	
Increased calcium	1.1	
Decreased calcium	2.3	
Decreased granulocytes	0.3	
Decreased hemoglobin	3.1	
Decreased lymphocytes	44.4	
Decreased neutrophils	3.6	
Decreased neutrophils/granulocytes	2.4	
Decreased platelets	2.0	
Decreased potassium	0.3	
Increased serum creatinine	0.5	
Decreased sodium	0.4	
Increased bilirubin	20.0	
Hyperglycemia	4.4	

^aLaboratory abnormalities were graded according to the categories of the NCIC CTC Grading System

2.6.2 Postmarketing Experience

The following ADRs have been identified during post-marketing experience with Xeloda based on spontaneous case reports and literature cases. Adverse drug reactions are listed according to system organ classes in MedDRA and the corresponding frequency category estimation for each adverse drug reaction is based on the following convention: very common ($\geq 1/10$); common ($\geq 5/100$ to $< 1/10$); and uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($\geq 1/1,000$ to $< 1/100$); unknown (cannot be estimated from the available data).

Table 10: Adverse Drug Reactions from Postmarketing Experience

System Organ Class (SOC)	ADR(s)	Frequency
Renal and urinary disorders	Acute renal failure secondary to dehydration including fatal outcome, <i>see section 2.4 Warnings and Precautions</i>	<i>Rare</i>
Nervous system disorders	Toxic leukoencephalopathy	<i>Unknown</i>
Hepatobiliary disorders	Hepatic failure, Cholestatic hepatitis	<i>Very rare</i>
Metabolism and nutrition disorders	Hypertriglyceridemia	<i>Unknown</i>
Skin and subcutaneous tissue disorders	Cutaneous lupus erythematosus, Severe skin reactions such as Stevens- Johnson Syndrome and Toxic Epidermal Necrolysis (TEN), <i>see section 2.4 Warnings and Precautions</i>	<i>Very rare</i>
Eye disorders	Lacrimal duct stenosis NOS, Corneal disorders including keratitis	<i>Very rare</i>
Immune system disorders	Angioedema*	<i>Unknown</i>

* This subtype of hypersensitivity reaction (section 2.6.1) was reported in the postmarketing setting.

Exposure to crushed or cut Xeloda tablets:

In the instance of exposure to crushed or cut Xeloda tablets, the following ADRs have been reported: eye irritation, eye swelling, skin rash, headache, paresthesia, diarrhea, nausea, gastric irritation, and vomiting.

2.7 Overdose

The manifestations of acute overdose include nausea, vomiting, diarrhea, mucositis, gastrointestinal irritation and bleeding and bone marrow depression.

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

2.8 Interactions with Other Medicinal products and Other Forms of Interaction

Coumarin anticoagulants

Altered coagulation parameters and/or bleeding have been reported in patients taking Xeloda concomitantly with coumarin-derivative anticoagulants such as warfarin and phenprocoumon. These events occurred within several days and up to several months after initiating Xeloda therapy and, in a few cases, within one month after stopping Xeloda. In a clinical interaction study, after a single 20 mg dose of warfarin, Xeloda treatment increased the AUC of S-warfarin by 57% with a 91% increase in INR value. These results suggest an interaction, probably due to an inhibition of the cytochrome P450 2C9 isoenzyme system by capecitabine. Patients taking coumarin-derivative anticoagulants concomitantly with Xeloda should be monitored regularly for alterations in their coagulation parameters (PT or INR) and the anti-coagulant dose adjusted accordingly (see Section 2.4 *Warning and Precautions*).

Cytochrome P-450 2C9 substrates

No formal drug-drug interaction studies with capecitabine and other drugs known to be metabolized by the cytochrome P450 2C9 isoenzyme have been conducted. Care should be exercised when Xeloda is co-administered with these drugs.

Phenytoin

Increased phenytoin plasma concentrations have been reported during concomitant use of Xeloda with phenytoin. Formal drug-drug interaction studies with phenytoin have not been conducted, but the mechanism of interaction is presumed to be inhibition of the CYP2C9 isoenzyme system by capecitabine (see Coumarin anticoagulants). Patients taking phenytoin concomitantly with Xeloda should be regularly monitored for increased phenytoin plasma concentrations.

Drug-food interaction

In all clinical trials, patients were instructed to take Xeloda within 30 minutes after a meal. Since current safety and efficacy data are based upon administration with food, it is recommended that Xeloda be administered with food.

Antacid

The effect of an aluminium hydroxide and magnesium hydroxide-containing antacid on the pharmacokinetics of Xeloda was investigated in cancer patients. There was a small increase in plasma concentrations of capecitabine and one metabolite (5'DFCR); there was no effect on the 3 major metabolites (5'DFUR, 5-FU and FBAL).

Leucovorin (folinic acid)

The effect of leucovorin on the pharmacokinetics of Xeloda was investigated in cancer patients. Leucovorin has no effect on the pharmacokinetics of capecitabine and its metabolites. However, leucovorin has an effect on the pharmacodynamics of Xeloda and its toxicity may be enhanced by leucovorin,

Sorivudine and analogues:

A clinically significant drug-drug interaction between sorivudine and 5-FU, resulting from the inhibition of dihydropyrimidine dehydrogenase by sorivudine, has been described in the literature. This interaction, which leads to increased fluoropyrimidine toxicity, is potentially fatal. Therefore, Xeloda should not be administered concomitantly with sorivudine or its chemically related analogues, such as brivudine (see section 2.3 Contraindications). There must be at least a 4-week waiting period between the end of treatment with sorivudine or its chemically related analogues such as brivudine and start of Xeloda therapy.

Oxaliplatin

No clinically significant differences in exposure to capecitabine or its metabolites, free platinum or total platinum occur when capecitabine and oxaliplatin were administered in combination, with or without bevacizumab.

Bevacizumab

There was no clinically significant effect of bevacizumab on the pharmacokinetic parameters of capecitabine or its metabolites.

3. PHARMACOLOGICAL PROPERTIES AND EFFECTS

3.1 Pharmacodynamic Properties

3.1.1 Mechanism of action

Capecitabine is a fluoropyrimidine carbamate derivative, which was designed as an orally administered, tumour-activated and tumour-selective cytotoxic agent. Capecitabine is non-cytotoxic *in vitro*. However, *in vivo*, it is sequentially converted to the cytotoxic moiety, 5-fluorouracil (5-FU), which is further metabolised.

Formation of 5-FU is catalysed preferentially at the tumour site by the tumour-associated angiogenic factor thymidine phosphorylase (dThdPase), thereby minimising the exposure of healthy tissues to systemic 5-FU.

The sequential enzymatic biotransformation of capecitabine to 5-FU leads to higher concentrations of 5-FU within tumour tissues. Following oral administration of capecitabine to patients with colorectal cancer (N=8), the ratio of 5-FU concentration in colorectal tumours vs adjacent tissues was 3.2 (ranged from 0.9 to 8.0). The ratio of 5-FU concentration in tumour vs plasma was 21.4 (ranged from 3.9 to 59.9) whereas the ratio in healthy tissues to plasma was 8.9 (ranged from 3.0 to 25.8). Thymidine phosphorylase activity was 4 times greater in primary colorectal tumour than in adjacent normal tissue.

Several human tumours, such as breast, gastric, colorectal, cervical and ovarian cancers, have a higher level of thymidine phosphorylase (capable of converting 5'-DFUR [5'-deoxy-5-fluorouridine] to 5-FU) than corresponding normal tissues.

Normal cells and tumour cells metabolise 5-FU to 5-fluoro-2-deoxyuridine monophosphate (FdUMP) and 5-fluorouridine triphosphate (FUTP). These metabolites cause cell injury by two different mechanisms. First, FdUMP and the folate cofactor N⁵⁻¹⁰-methylene tetrahydrofolate bind to thymidylate synthase (TS) to form a covalently bound ternary complex. This binding inhibits the formation of thymidylate from uracil. Thymidylate is the necessary precursor of thymidine triphosphate, which is essential for the synthesis of DNA, so that a deficiency of this compound can inhibit cell division. Second, nuclear transcriptional enzymes can mistakenly incorporate FUTP in place of uridine triphosphate (UTP) during the synthesis of RNA. This metabolic error can interfere with RNA processing and protein synthesis.

3.1.2 Clinical / Efficacy Studies

Colon and Colorectal cancer

Monotherapy in adjuvant colon cancer

Data from one multicenter, randomized, controlled phase 3 clinical trial in patients with stage III (Dukes C) colon cancer supports the use of Xeloda for the adjuvant treatment of patients with colon cancer (XACT Study: M66001). In this trial, 1987 patients were randomized to treatment with Xeloda (1250 mg/m² twice daily for 2 weeks followed by a 1-week rest period and given as 3-week cycles for 24 weeks) or 5-FU and leucovorin (Mayo regimen: 20 mg/m² leucovorin i.v. followed by 425 mg/m² i.v. bolus 5-FU, on days 1 to 5, every 28 days for 24 weeks). Xeloda was at least equivalent to i.v. 5-FU/LV in disease-free survival (DFS) (p = 0.0001, non-inferiority margin 1.2). In the all-randomized population, tests for difference of Xeloda vs 5-FU/LV in DFS and overall survival (OS) showed hazard ratios of 0.88 (95% CI 0.77-1.01; p = 0.068) and 0.86 (0.74 – 1.01; p = 0.060), respectively. The median follow up at the time of the analysis was 6.9 years.

Combination therapy in adjuvant colon cancer

Xeloda in combination with oxaliplatin (XELOX) for the adjuvant treatment of patients with colon cancer has been studied in a multicenter, randomized, controlled phase 3 clinical trial in patients with stage III (Dukes' C) colon cancer (NO16968 study). In this trial, 944 patients were randomized to 3-week cycles for 24 weeks with Xeloda (1000 mg/m² twice daily for 2 weeks followed by a 1-week rest period) in combination with oxaliplatin (130 mg/m² intravenous infusion over 2-hours on day 1 every 3 weeks); 942 patients were randomized to bolus 5-FU and leucovorin. In the primary analysis for DFS, in the ITT population, XELOX was shown to be significantly superior to 5-FU/LV HR=0.80, (95% CI 0.69, 0.93; p=0.0045). The 3-year DFS rate was 71% for XELOX versus 67% for 5-FU/LV. The analysis for the secondary endpoint of relapse free survival (RFS) supports these results with a HR of 0.78 (95% CI 0.67, 0.92; p=0.0024) for XELOX vs. 5-FU/LV. XELOX showed a trend towards superior OS with a HR of 0.87 (95% CI 0.72, 1.05; p=0.1486) which translates into a 13% reduction in risk of death. The 5-year OS rate was 78% for XELOX versus 74% for 5-FU/LV. The efficacy data provided is based on a median observation time of 59 months for OS and 57 months for DFS.

At 7 years median follow up, XELOX maintained a statistically significant superior disease-free survival HR=0.80 (95% CI 0.69, 0.93; p=0.0038), and relapse-free survival HR=0.78 (95% CI 0.67, 0.91; p=0.0015). The OS rate at 7 years was 73% in the XELOX arm and 67% in the 5-FU/LV arm. The additional two years of follow up after the primary analysis show an increase in the difference between survival rates from 3% to 6%.

Monotherapy in metastatic colorectal cancer

Data from two identically-designed, multicenter, randomized, controlled, phase 3 clinical trials support the use of Xeloda for first-line treatment of metastatic colorectal cancer (SO14695; SO14796). In these trials, 603 patients were randomized to treatment with Xeloda (1250 mg/m² twice daily for 2 weeks followed by a 1-week rest period and given as 3-week cycles) and 604 patients were randomized to treatment with 5-FU and leucovorin (Mayo regimen: 20 mg/m² leucovorin i.v. followed by 425 mg/m² i.v. bolus 5-FU, on days 1 to 5, every 28 days).

The overall objective response rates in the all-randomised population (investigator assessment) were 25.7% (Xeloda) vs 16.7% (Mayo regimen); p<0.0002. The median time to progression was 140 days (Xeloda) vs 144 days (Mayo regimen). Median survival was 392 days (Xeloda) vs 391 days (Mayo regimen).

Combination therapy – first-line treatment of colorectal cancer

A multicenter, randomized, controlled phase 3 clinical study (NO16966) has been conducted for the use of Xeloda in combination with oxaliplatin or in combination with oxaliplatin and bevacizumab (BV) for the first-line treatment of metastatic colorectal cancer. The study contained two parts: an initial 2-arm part in which patients were randomized to two different treatment groups, including XELOX or FOLFOX-4, and a subsequent 2x2 factorial part with four different treatment groups, including XELOX + placebo (P), FOLFOX-4+P, XELOX+BV, and FOLFOX-4+BV. The treatment regimens are summarized in table 11 below.

Table 11: Treatment regimens in Study NO16966

	Treatment	Starting Dose	Schedule
FOLFOX-4 or FOLFOX-4 + Avastin	Oxaliplatin	85 mg/m ² IV 2 h	Oxaliplatin on Day 1, every 2 weeks Leucovorin on Day 1 and 2, every 2 weeks 5-fluorouracil IV bolus/infusion, each on Days 1 and 2 , every 2 weeks
	Leucovorin	200 mg/m ² IV 2 h	
	5-Fluorouracil	400 mg/m ² IV bolus, 600 mg/m ² IV 22 h	
	Placebo or Avastin	5 mg/kg IV 30-90 m	Day 1, prior to FOLFOX-4, every 2 weeks
XELOX or XELOX+ Avastin	Oxaliplatin	130 mg/m ² IV 2 h	Oxaliplatin on Day 1, every 3 weeks Capecitabine oral bid for 2 weeks (followed by 1 week off treatment)
	Capecitabine	1000 mg/m ² oral bid	
	Placebo or Avastin	7.5 mg/kg IV 30-90 m	Day 1, prior to XELOX, every 3 weeks
5-Fluorouracil: IV bolus injection immediately after leucovorin			

Non-inferiority of the XELOX-containing arms compared with the FOLFOX-4-containing arms in the overall comparison was demonstrated in terms of progression-free survival (PFS) in the eligible patient population and the intent-to-treat population (see table 12 below). The results indicate that XELOX is equivalent to FOLFOX-4 in terms of OS. A comparison of XELOX plus bevacizumab versus FOLFOX-4 plus bevacizumab was a pre-specified exploratory analysis. In this treatment subgroup comparison, XELOX plus bevacizumab was similar compared to FOLFOX-4 plus bevacizumab in terms of PFS (hazard ratio 1.01 [97.5% CI 0.84, 1.22]). The median follow up at the time of the primary analyses in the intent-to-treat population was 1.5 years; data from analyses following an additional 1 year of follow up are also included in the table 12 below.

Table 12: Key non-inferiority results for the primary analysis and 1-year follow-up data (EPP and ITT populations, Study NO16966)

PRIMARY ANALYSIS			
	XELOX/XELOX+P/ XELOX+BV (EPP*: N=967; ITT**: N=1017)	FOLFOX-4/FOLFOX-4+P/ FOLFOX-4+BV (EPP*: N = 937; ITT**: N= 1017)	HR (97.5% CI)
Population	Median Time to Event (Days)		
Parameter: Progression-free Survival			
EPP	241	259	1.05 (0.94; 1.18)
ITT	244	259	1.04 (0.93; 1.16)
Parameter: Overall Survival			
EPP	577	549	0.97 (0.84; 1.14)
ITT	581	553	0.96 (0.83; 1.12)
ADDITIONAL 1 YEAR OF FOLLOW UP			
	XELOX/XELOX+P/ XELOX+BV (EPP*: N=967; ITT**: N=1017)	FOLFOX-4/FOLFOX-4+P/ FOLFOX-4+BV (EPP*: N = 937; ITT**: N= 1017)	HR (97.5% CI)
Population	Median Time to Event (Days)		
Parameter: Progression-free Survival			
EPP	242	259	1.02 (0.92; 1.14)
ITT	244	259	1.01 (0.91; 1.12)
Parameter: Overall Survival			
EPP	600	594	1.00 (0.88; 1.13)
ITT	602	596	0.99 (0.88; 1.12)

*EPP=eligible patient population; **ITT=intent-to-treat population

The CAIRO study was a randomized, controlled phase III trial to study the use of Xeloda at a starting dose of 1000 mg/m² for 2 weeks every 3 weeks in combination with irinotecan for the first-line treatment of patients with metastatic colorectal cancer. The efficacy in terms of Overall Response Rate (ORR), Progression Free Survival (PFS) and OS was similar to that reported in pivotal studies of 5-FU, leucovorin, and irinotecan (FOLFIRI).

Xeloda (at a starting dose of 800 mg/m² for 2 weeks every 3 weeks) in combination with irinotecan and bevacizumab was studied for the first-line treatment of patients with metastatic colorectal cancer, in a multicentre, randomized, controlled phase II study (AIO KRK 0604) 128 patients were randomized to treatment with Xeloda combined with irinotecan (XELIRI) and bevacizumab: Xeloda (800 mg/m² twice daily for two weeks followed by a 7-day rest period), irinotecan (200 mg/m² as a 30 to 90 minute infusion on day 1 every 3 weeks), and bevacizumab (7.5 mg/kg as a 30 to 90 minute infusion on day 1 every 3 weeks); a total of 127 patients were randomised to treatment with Xeloda combined with oxaliplatin (XELOX) plus bevacizumab: Xeloda (1000 mg/m² twice daily for two weeks followed by a 7-day rest period), oxaliplatin (130 mg/m² as a 2 hour infusion on day 1 every 3 weeks), and bevacizumab (7.5 mg/kg as a 30 to 90 minute infusion on day 1 every 3 weeks). The mean duration of follow-up for the study population was 26.6 months. Progression-free survival at 6 months in the intent-to-treat population was 84% (XELIRI plus bevacizumab) versus 76% (XELOX plus bevacizumab). Overall response rate (complete response plus partial response) was 56% (XELIRI plus bevacizumab) versus 53% (XELOX plus bevacizumab). The median overall survival was 25.5 months (XELIRI plus bevacizumab) and 24.4 months (XELOX plus bevacizumab).

Combination therapy – Second-line treatment of colorectal cancer

Study NO16967 was a multicenter, randomized, controlled phase III trial that studied the use of Xeloda in combination with oxaliplatin for the second-line treatment of metastatic colorectal cancer. In this trial, 627 patients with metastatic colorectal carcinoma who have received prior treatment with irinotecan in combination with a fluoropyrimidine regimen as first-line therapy were randomized to treatment with XELOX or FOLFOX-4. For the dosing schedule of XELOX and FOLFOX-4 (without addition of placebo or bevacizumab), refer to Table 11. XELOX was demonstrated to be non-inferior to FOLFOX-4 in terms of progression-free survival in the per-protocol population and intent-to-treat population (see table 13 below). The results indicate that XELOX is equivalent to FOLFOX-4 in terms of OS. The median follow up at the time of the primary analyses in the intent-to-treat population was 2.1 years; data from analyses following an additional 6 months of follow up are also included in the table 13 below.

Table 13: Key non-inferiority efficacy results for the primary analysis and 6-month follow-up data of Study NO16967 (PPP and ITT populations)

PRIMARY ANALYSIS				
	XELOX (PPP*: N=251; ITT**: N=313)		FOLFOX-4 (PPP*: N = 252; ITT**: N= 314)	
Population	Median Time to Event (Days)		HR (95% CI)	
Parameter: Progression-free Survival				
PPP	154	168	1.03 (0.87; 1.24)	
ITT	144	146	0.97 (0.83; 1.14)	
Parameter: Overall Survival				
PPP	388	401	1.07 (0.88; 1.31)	
ITT	363	382	1.03 (0.87; 1.23)	
ADDITIONAL 6 MONTHS OF FOLLOW UP				
Population	Median Time to Event (Days)		HR (95% CI)	
Parameter: Progression-free Survival				
PPP	154	166	1.04 (0.87; 1.24)	
ITT	143	146	0.97 (0.83; 1.14)	
Parameter: Overall Survival				
PPP	393	402	1.05 (0.88; 1.27)	
ITT	363	382	1.02 (0.86; 1.21)	

*PPP=per-protocol population; **ITT=intent-to-treat population

A pooled analysis of the efficacy data from first-line (study NO16966; initial 2-arm part) and second line treatment (study NO16967) further support the non-inferiority results of XELOX versus FOLFOX-4 as obtained in the individual studies: progression-free survival in the per-protocol population (hazard ratio 1.00 [95% CI: 0.88; 1.14]) with a median progression-free survival of 193 days (XELOX; 508 patients) versus 204 days (FOLFOX-4; 500 patients). The results indicate that XELOX is equivalent to FOLFOX-4 in terms of OS (hazard ratio 1.01 [95% CI: 0.87; 1.17]) with a median OS of 468 days (XELOX) versus 478 days (FOLFOX-4).

Combination therapy – Oesophagogastric cancer

A multicenter, randomized, controlled phase 3 clinical trial (ML17032) in patients with advanced or metastatic gastric cancer studied the use of Xeloda for the first-line treatment of patients with advanced gastric cancer. In this trial, 160 patients were randomized to treatment with Xeloda (1000 mg/m² twice daily for 2 weeks followed by a 7-day rest period) and cisplatin (80 mg/m² as a 2-hour infusion every 3 weeks). A total of 156 patients were randomized to treatment with 5-FU (800 mg/m² per day, continuous infusion on days 1 to 5 every 3 weeks) and cisplatin (80 mg/m² as a 2-hour infusion on day 1, every 3 weeks). The primary objective of the study was met, Xeloda in combination with cisplatin was at least equivalent to 5-FU in combination with cisplatin in terms of progression-free survival in the per-protocol analysis. The result for duration of survival (OS) was similar to the result for progression-free survival (see Table 14 below).

Table 14: Summary of results for key efficacy parameters (PPP, Study ML17032)

Parameter	Median (Months) (95% CI)		Hazard Ratio (95% CI)*
	Xeloda/Cisplatin (N = 139)	5-FU/Cisplatin (N = 137)	
Progression-free survival	5.6 (4.9, 7.3)	5.0 (4.2, 6.3)	0.81 (0.63, 1.04)
Duration of survival	10.5 (9.3, 11.2)	9.3 (7.4, 10.6)	0.85 (0.64, 1.13)

* Unadjusted treatment effect in Cox proportional model.

Data from a randomised multicentre, phase 3 study (REAL-2) comparing capecitabine to 5-FU and oxaliplatin to cisplatin in patients with advanced oesophagogastric cancer supports the use of Xeloda for the first-line treatment of advanced oesophagogastric cancer. In this trial, 1002 patients were randomised in a 2x2 factorial design to one of the following 4 arms:

- ECF: epirubicin (50 mg/m² as a bolus on day 1 every 3 weeks), cisplatin (60 mg/m² as a two hour infusion on day 1 every 3 weeks) and 5-FU (200 mg/m² daily given by continuous infusion via a central line).
- ECX: epirubicin (50 mg/m² as a bolus on day 1 every 3 weeks), cisplatin (60 mg/m² as a two hour infusion on day 1 every 3 weeks), and Xeloda (625 mg/m² twice daily continuously).
- EOF: epirubicin (50 mg/m² as a bolus on day 1 every 3 weeks), oxaliplatin (130 mg/m² given as a 2 hour infusion on day 1 every three weeks), and 5-FU (200 mg/m² daily given by continuous infusion via a central line).
- EOX: epirubicin (50 mg/m² as a bolus on day 1 every 3 weeks), oxaliplatin (130 mg/m² given as a 2 hour infusion on day 1 every three weeks), and Xeloda (625 mg/m² twice daily continuously).

The primary efficacy analyses in the per protocol population demonstrated non-inferiority in OS for capecitabine- vs 5-FU-based regimens (hazard ratio 0.86, 95% CI: 0.8 to 0.99) and for oxaliplatin- vs cisplatin-based regimens (hazard ratio 0.92, 95% CI: 0.8 to 1.1). The median OS was 10.9 months in capecitabine-based regimens and 9.6 months in 5-FU based regimens. The median OS was 10.0 months in cisplatin-based regimens and 10.4 months in oxaliplatin-based regimens.

Combination therapy – Gastric cancer

An open-label, randomized, multicenter (South Korea, China and Taiwan) phase 3 study (CLASSIC) comparing capecitabine plus oxaliplatin (XELOX) to observation only, following D2 resection of stage II and III gastric adenocarcinoma, was conducted for use of adjuvant XELOX for completely resected gastric cancer. Patients received oral capecitabine twice daily on a 3-week cycle consisting of 2 weeks treatment followed by 1 week without treatment and intravenous oxaliplatin on day 1 of each cycle or observation only (no adjuvant chemotherapy). The study treatment phase was scheduled for a total of 8 cycles (24 weeks). A follow-up phase continued until date of death or the last date the patient was known to be alive, or until 2 years after the full efficacy analysis had taken place.

A total of 1035 patients were randomized into the study (ITT population: XELOX = 520, observation = 515). The primary efficacy endpoint of 3-year DFS was met at the preplanned interim analysis after 266 DFS events and following the recommendation of the IDMC (Independent Data Monitoring Committee) to fully evaluate the study. A statistically significant benefit for the XELOX arm over the observation only arm was observed: HR=0.56 (95% CI 0.44, 0.72, p<0.0001). At the time of clinical cut-off a greater proportion of patients in the XELOX arm were without an event compared to patients in the observation arm: 79.6% versus 68.3%.

The HR for the secondary endpoint, OS was 0.72 (95% CI 0.52, 1.00; p=0.0493), however as only 14% of patients reported an OS event at the time of clinical cut-off, the data are relatively immature.

The final five year follow up DFS analysis showed almost identical results in terms of treatment effect and absolute event-free rates at 3-years HR=0.58 (95% CI 0.47, 0.72; p<0.0001). The HR observed for OS, at final analysis, was 0.66 (95% CI 0.51, 0.85; p=0.015).

Xeloda has also been used in combination with oxaliplatin for the treatment of advanced gastric cancer. Studies with Xeloda monotherapy indicate that Xeloda has activity in advanced gastric cancer.

Colon, colorectal and advanced gastric cancer: meta-analysis

A meta-analysis of six clinical trials (studies SO14695, SO14796, M66001, NO16966, NO16967, M17032) investigated the question whether Xeloda can replace 5-FU in mono- and combination treatment in gastrointestinal cancer. The pooled analysis includes 3097 patients treated with Xeloda-containing regimens and 3074 patients treated with 5-FU-containing regimens. The hazard ratio for OS was 0.94 (95% CI: 0.89; 1.00, p=0.0489) with Xeloda-containing regimens indicating that they are non-inferior to 5-FU-containing regimens.

Combination therapy – breast cancer

Xeloda in combination with docetaxel for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline was studied in a multicenter, randomized, controlled phase 3 clinical trial (SO14999). In this trial, 255 patients were randomized to treatment with Xeloda (1250 mg/m² twice daily for 2 weeks followed by a 1-week rest period) and docetaxel (75 mg/m² as a 1-hour intravenous infusion every 3 weeks). A total of 256 patients were randomized to treatment with docetaxel alone (100 mg/m² as a 1-hour intravenous infusion every 3 weeks). Survival was superior in the Xeloda+docetaxel combination arm (p=0.0126). Median survival was 442 days (Xeloda+docetaxel) vs 352 days (docetaxel alone). The overall objective response rates in the all-randomized population (investigator assessment) were 41.6% (Xeloda+docetaxel) vs 29.7% (docetaxel alone); p=0.0058. Time to disease progression or death was superior in the Xeloda+docetaxel combination arm (p<0.0001). The median time to progression was 186 days (Xeloda+docetaxel) vs 128 days (docetaxel alone).

Monotherapy – Breast carcinoma

Two multicenter phase 2 clinical trials were conducted to determine the use of Xeloda monotherapy for treatment of patients with locally advanced or metastatic breast cancer after failure of a taxane and an anthracycline-containing chemotherapy regimen or for whom further anthracycline therapy is not indicated. In these trials, a total of 236 patients were treated with Xeloda (1250 mg/m² twice daily for 2 weeks followed by 1-week rest period). The overall objective response rates (investigator assessment) were 20% (first trial) and 25% (second trial). The median time to progression was 93 and 98 days. Median survival was 384 and 373 days.

3.1.3 Immunogenicity

Not applicable

3.2 Pharmacokinetics Properties

3.2.1 Absorption

After oral administration, capecitabine is rapidly and extensively absorbed, followed by extensive conversion to the metabolites 5'-deoxy-5-fluorocytidine (5'-DFCR) and 5'-DFUR. Administration with food decreases the rate of capecitabine absorption, but has only a minor effect on the areas under the curve (AUC) of 5'-DFUR and the subsequent metabolite 5-FU. At the dose of 1250 mg/m² on day 14 with administration after food intake, the peak plasma concentrations (C_{max} in µg/ml) for capecitabine, 5'-DFCR, 5'-DFUR, 5-FU and FBAL were 4.47, 3.05, 12.1, 0.95 and 5.46 respectively. The times to peak plasma concentrations (T_{max} in hours) were 1.50, 2.00, 2.00, 2.00 and 3.34. The AUC_{0-∞} values in µg·h/ml were 7.75, 7.24, 24.6, 2.03 and 36.3.

3.2.2 Distribution

Protein binding

In vitro human plasma studies have determined that capecitabine, 5'-DFCR, 5'-DFUR and 5-FU are 54%, 10%, 62% and 10% protein bound, mainly to albumin.

3.2.3 Metabolism

Capecitabine is first metabolised by hepatic carboxylesterase to 5'-DFCR, which is then converted to 5'-DFUR by cytidine deaminase, principally located in the liver and tumour tissues.

Formation of 5-FU occurs preferentially at the tumour site by the tumour-associated angiogenic factor dThdPase, thereby minimising the exposure of healthy body tissues to systemic 5-FU.

The plasma AUC of 5-FU is 6 to 22 times lower than that following an i.v. bolus of 5-FU (dose of 600 mg/m²). The metabolites of capecitabine become cytotoxic only after conversion to 5-FU and anabolites of 5-FU (see section 3.1.1, Mechanism of Action).

5-FU is further catabolized to the inactive metabolites dihydro-5-fluoruracil (FUH₂), 5-fluoro-ureidopropionic acid (FUPA) and α-fluoro-β-alanine (FBAL) via dihydropyrimidine dehydrogenase (DPD), which is rate limiting.

3.2.4 Elimination

The elimination half-lives ($t_{1/2}$ in hours) of capecitabine, 5'-DFCR, 5'-DFUR, 5-FU and FBAL were 0.85, 1.11, 0.66, 0.76 and 3.23 respectively. The pharmacokinetics of capecitabine have been evaluated over a dose range of 502 - 3514 mg/m²/day. The parameters of capecitabine, 5'-DFCR and 5'-DFUR measured on days 1 and 14 were similar. The AUC of 5-FU was 30-35% higher on day 14, but did not increase subsequently (day 22). At therapeutic doses, the pharmacokinetics of capecitabine and its metabolites were dose proportional, except for 5-FU.

After oral administration capecitabine metabolites are primarily recovered in the urine. Most (95.5%) of administered capecitabine dose is recovered in urine. Faecal excretion is minimal (2.6%). The major metabolite excreted in urine is FBAL, which represents 57% of the administered dose. About 3% of the administered dose is excreted in urine as unchanged drug.

Combination therapy

Phase I studies evaluating the effect of Xeloda on the pharmacokinetics of either docetaxel or paclitaxel and vice versa showed no effect by Xeloda on the pharmacokinetics of docetaxel or paclitaxel (C_{max} and AUC) and no effect by docetaxel or paclitaxel on the pharmacokinetics of 5'-DFUR (the most important metabolite of capecitabine).

3.2.5 Pharmacokinetics in Special Populations

A population pharmacokinetic analysis was carried out after Xeloda treatment of 505 patients with colorectal cancer dosed at 1250 mg/m² twice daily. Gender, presence or absence of liver metastasis at baseline, Karnofsky Performance Status, total bilirubin, serum albumin, ASAT and ALAT had no statistically significant effect on the pharmacokinetics of 5'-DFUR, 5-FU and FBAL.

Hepatic impairment due to liver metastases

No clinically significant effect on the bioactivation and pharmacokinetics of capecitabine was observed in cancer patients with mildly to moderately impaired liver function due to liver metastases (see section 2.2.1 Special Dosage Instructions).

No formal pharmacokinetic study has been conducted and no population pharmacokinetic data was collected in patients with severe hepatic impairment.

Renal impairment

Based on a pharmacokinetic study in cancer patients with mild to severe renal impairment, there is no evidence for an effect of creatinine clearance on the pharmacokinetics of intact drug and 5-FU. Creatinine clearance was found to influence the systemic exposure to 5'-DFUR (35% increase in AUC when creatinine clearance decreases by 50%) and to FBAL (114% increase in AUC when creatinine clearance decreases by 50%). FBAL is a metabolite without antiproliferative activity; 5'-DFUR is the direct precursor of 5-FU (see section 2.2.1 Special dosage instructions).

Geriatric Population

Based on the population pharmacokinetic analysis, which included patients with a wide range of ages (27 to 86 years) and included 234 (46%) patients greater or equal to 65, age has no influence on the pharmacokinetics of 5'-DFUR and 5-FU. The AUC of FBAL increased with age (20% increase in age results in a 15% increase in the AUC of FBAL). This increase is likely due to a change in renal function (see section 2.2.1 Special Dosage Instructions and section 3.2.5, Pharmacokinetics in Special Populations, subsection Renal impairment).

Race

Based on population pharmacokinetic analysis of 455 white patients (90.1%), 22 black patients (4.4%) and 28 patients of other race or ethnicity (5.5%), the pharmacokinetics of Xeloda in black patients were not different compared to white patients.

3.3 Nonclinical Safety

3.3.1 Carcinogenicity

A two-year mouse carcinogenicity study produced no evidence of carcinogenicity by capecitabine.

3.3.2 Genotoxicity

Capecitabine was not mutagenic *in vitro* to bacteria (Ames test) or mammalian cells (Chinese hamster V79/HPRT gene mutation assay). However, similar to other nucleoside analogues (ie, 5-FU), capecitabine was clastogenic in human lymphocytes (*in vitro*) and a positive trend occurred in mouse bone marrow micronucleus tests (*in vivo*).

3.3.3 Reproductive Toxicity

Oral administration of capecitabine to pregnant mice during the period of organogenesis at a dose of 198 mg/kg/day caused malformations and embryo lethality. In separate pharmacokinetic studies, this dose in mice produced 5'-DFUR AUC values that were approximately 0.2 times the AUC values in patients administered the recommended daily dose. Oral administration of capecitabine to pregnant monkeys during the period of organogenesis at a dose of 90 mg/kg/day, caused fetal lethality. This dose produced 5'-DFUR AUC values that were approximately 0.6 times the AUC values in patients administered the recommended daily dose.

3.3.4 Impairment of Fertility

In a study of fertility and general reproductive performance in mice, oral capecitabine doses of 760 mg/kg/day disturbed estrus and consequently caused a decrease in female fertility. In mice that became pregnant, no fetuses survived this dose. The disturbance in estrus was reversible. In males, this dose caused degenerative changes in the testes, including decreases in the number of spermatocytes and spermatids. In separate pharmacokinetic studies, this dose in mice produced 5'-DFUR AUC values about 0.7 times the corresponding values in patients administered the recommended daily dose.

3.3.5 Other

Not applicable

4. PHARMACEUTICAL PARTICULARS

4.1 Storage

This medicine should not be used after the expiry date (EXP) shown on the pack.

Do not store above 30°C

Store in the original package in order to protect from moisture

4.2 Special Instructions for Use, Handling and Disposal

Disposal of unused/expired medicines

The release of pharmaceuticals in the environment should be minimized. Medicines should not be disposed of via wastewater and disposal through household waste should be avoided. Use established "collection systems", if available in your location.

Special handling using appropriate equipment and disposal procedures, should be taken as Xeloda is a cytotoxic drug. Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

4.2 Dosage Form & Packaging Available

Film-coated tablets 150 mg 60 tablets

Film-coated tablets 500 mg 120 tablets

Medicine: keep out of sight and reach of children

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