



## **URSODEOXYCHOLIC ACID** ProUrsan Forte®

## 500 mg Film-Coated Tablet Bile acid and derivative

1. NAME OF THE MEDICINAL PRODUCT URSODEOXYCHOLIC ACID (ProUrsan F . QUALITATIVE AND QUANTITATIVE COMPOSITION Each film-coated tablet contains 500 mg ursodeoxycholic acid (UDCA) as the active

3. PHARMACEUTICAL FORM

Almost white, oblong film-coated tablets with a break line and length 17 mm. The tablet can be divided into equal doses.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications
For the dissolution of cholesterol gallstones in the gall bladder. The gallstones must not show as shadows on X-ray images and should not exceed 15 mm in diameter. The gall bladder must be functioning despite the gallstone(s).
For symptomatic treatment of primary billiary cholangitis (PBC), provided there is no decompensated hepatic cirrhosis.
For the treatment of biliary reflux gastritis.
For the treatment of cholestatic liver disease

<u>Paediatric population</u>
Hepatobiliary disorder associated with cystic fibrosis in children aged 6 years to less

4.2 Posology and method of administration There are no age restrictions on the use

4.2 Posology and method of administration
There are no age restrictions on the use of Ursodeoxycholic Acid (ProUrsan Forte®).
Ursodeoxycholic Acid (ProUrsan Forte®) is suitable for patients with body weight of 47 kg and over. For patients weighing less than 47 kg or patients who are unable to swallov Ursodeoxycholic Acid (ProUrsan Forte®) other formulations are available.
The following daily dosage is recommended for the various indications:
For the dissolution of cholesterol gallstones
Approx. 10 mg of ursodeoxycholic acid per kg of body weight corresponding to:

up to 60 kg 1 film-coated tablet 61 to 80 kg 1 1/2 film-coated tablets 81 to 100 kg 2 film-coated tablets

2 1/2 film-coated tablets

The film-coated tablets should be taken unchewed in the evening before bedtime with some liquid. The tablets have to be taken regularly.

The time required for dissolution of gallstones is generally 6 to 24 months, depending on stone size and composition. If there is no reduction in the size of the gallstones after 12 months the therapy should not be continued. Into time required for dissolution of galistones is generally 6 to 24 months, depending on stone size and composition. If there is no reduction in the size of the gallstones after 12 months, the therapy should not be continued.

The success of treatment should be checked sonographically or radiographically every 6 months. It should also be checked during follow-up examinations whether in the meantime there has been any calcification of the stones. If this is the case, the treatment should be

For symptomatic treatment of primary biliary cholangitis (PBC)
The daily dose depends on the body weight and ranges from 1 ½ to 3 ½ film-coated tablets
(14 ± 2 mg of ursodeoxycholic acid per kg of body weight). For the first 3 months of treatment
Ursodeoxycholic Acid (ProUrsan Forte®) should be taken divided over the day. With
improvement of the liver values, the daily dose may be taken once daily in the evening.

Ursodeoxycholic Acid (ProUrsan Forte®) 500 mg film-coated tablets

first 3 months

midday

evening

subsequent

(1x daily)

63 - 78 1/2 1 1/2 94 - 109 1 1 ½ 3 ½ The film-coated tablets should be swallowed unchewed with some liquid. Care should be

morning midday evening 20 - 29 40 - 49 1/2 1/2 1

	70 - 79	1	1	1 ½	
	80 - 89	1	1 ½	1 ½	
	90 - 99	1 ½	1 ½	1 ½	
	100 - 109	1 ½	1 ½	2	]
	over 110	1 ½	2	2	
4.3 Contraindications Ursodeoxycholic Acid (ProUrsan Forte®) should not be used in patients with:  - acute inflammation of the gall bladder and the biliary tract - occlusion of the biliary tract (occlusion of the common bile duct or a cystic duct) - frequent episodes of biliary colic - radiopaque calcified gallstones - impaired contractility of the gall bladder - hypersensitivity to bile acids or to any of the excipients listed in section 6.1.  Paediatric population - Unsuccessful portoenterostomy or without recovery of good bile flow in children with biliary atresia.					
la	Irsodeoxycholic Ad Irsodeoxycholic Ad nd over. For patie Irsodeoxycholic Ad During the first thre	cid (ProUrsan For cid (ProUrsan For ents weighing les cid (ProUrsan Fo	rte®) should be to te®) is suitable for the stan 47 kg or to the formatment, liver fun	or patients wi patients who ulations are a ction parame	ters AST (SGOT), ALT

60 - 69

gallstones, depending on stone size, the gall bladder should be visualised (oral cholecys tography) with overview and occlusion views in standing and supine positions (ultrasound control) 6–10 months after the beginning of treatment.

If the gall bladder cannot be visualised on X-ray images, or in cases of calcified gallstones, impaired contractility of the gall bladder or frequent episodes of biliary colic, Ursodeoxycholic Acid (ProUrsan Forte®) should not be used.

Female patients taking Ursodeoxycholic Acid (ProUrsan Forte®) for dissolution of gallstones should use an effective non-hormonal method of contraception, since hormonal contraceptives may increase biliary lithiasis (see sections 4.5 and 4.6).

When used for treatment of advanced stage of primary biliary cholangitis in very rare cases decompensation of hepatic cirrhosis has been observed, which partially regressed after the treatment was discontinued.

In patients with PBC, in rare cases the clinical symptoms may worsen at the beginning of treatment, e.g. the itching may increase. In this case the dose of Ursodeoxycholic Acid (ProUrsan Forte®) should be reduced to 12 tablet Ursodeoxycholic Acid (ProUrsan Forte®) should be reduced to 12 tablet Ursodeoxycholic Acid (ProUrsan Forte®) 500 mg daily and then gradually increased again as described in section 4.2. If diarrhoea occurs, the dose must be reduced and in cases of persistent diarrhoea, the therapy should be discontinued.

4.5 Interaction with other medicinal products and other forms of interaction Ursodeoxycholic Acid (ProUrsan Forte® should not be administered concomitantly with cholestyramine, colestipol or antacids containing aluminium hydroxide and/or smectite (aluminium oxide), because these preparations bind ursodeoxycholic acid in the intestine and thereby inhibit its absorption and efficacy. Should the use of a preparation containing one of these active substances be necessary, it must be taken at least 2 hours before or after Ursodeoxycholic Acid (ProUrsan Forte®). Ursodeoxycholic Acid (ProUrsan Forte®) can affect the absorption of ciclosporin from the intestine. In patients receiving ciclosporin treatment, blood concentrations of this substance should therefore be checked by the physician and the ciclosporin dose adjusted if necessary. In isolated cases, Ursodeoxy cholic Acid (ProUrsan Forte®) can reduce the absorption of ciprofloxacin. In a clinical study in healthy volunteers concomitant use of UDCA (500 mg/day) and rosuvastatin (20 mg/day) resulted in slightly elevated plasma levels of rosuvastatin. The clinical relevance of this interaction also with regard to other statins is unknown. Ursodeoxycholic acid has been shown to reduce the plasma peak concentrations (Cmax) and the area under the curve (AUC) of the calcium antagonist nitrendipine in healthy volunteers. Close monitoring of the outcome of concurrent use of nitrendipine and ursodeoxycholic acid is recommended. An increase of the dose of nitrendipine may be necessary. An interaction with a reduction of the therapeutic effect of dapsone was also

4.6 Fertility, pregnancy and lactation There are no or limited amounts of data from the use of ursodeoxycholic acid in pregnant women. Studies in animals have shown reproductive toxicity during the early phase of gestation (see section 5.3). Ursodeoxycholic Acid (ProUrsan Forte®) must not be used during pregnancy unless clearly necessary.

Women of childbearing potential should be treated only if they use reliable contraception: non-hormonal or low-oestrogen oral contraceptive measures are recommended. However, in patients taking Ursodeoxycholic Acid (ProUrsan Forte®) for dissolution of gallstones, effective non-hormonal contraception should be used, since hormonal oral contraceptives may increase biliary lithiasis.

The possibility of a pregnancy must be excluded before beginning treatment.

Breast-feeding
According to few documented cases of breastfeeding women milk levels of ursodeoxycholic acid are very low and probably no adverse reactions are to be expected in breastfed

Very rare (< 1/10,000)
Not known (cannot be estimated from available data)
Gastrointestinal disorders the clinical trials, reports of pasty stools or diarrhoea during ursodeoxycholic acid therapy were common. Very rarely, severe right upper abdominal pain has occurred during the treatment of primary biliary cholangitis.

Hepatobiliary disorders

Prima treatment with upped payabalic paid, calcification of galletones can excur in your

During treatment with ursodeoxycholic acid, calcification of gallstones can occur in very rare cases. During therapy of the advanced stages of primary biliary cholangitis, in very rare cases decompensation of hepatic cirrhosis has been observed, which partially

Diarrhoea may occur in cases of overdose. In general, other symptoms of overdose are unlikely because the absorption of ursodeoxycholic acid decreases with increasing dose and therefore more is excreted with the faeces. No specific counter-measures are necessary and the consequences of diarrhoea should

Very rarely, urticaria can occur.

regressed after the treatment was discontinued. Skin and subcutaneous tissue disorders

Very common (≥ 1/10) Common (≥ 1/100 to < 1/10) Uncommon (≥ 1/1,000 to < 1/1 Rare (≥ 1/10,000 to < 1/1,000)

Fertility

current knowledge, based on relative exchange of lipophilic, detergent-type, toxic bile acids for hydrophilic, cytoprotective, non-toxic ursodeoxycholic acid, improvement of the secretory performance of liver cells and immunoregulative processes population Cystic fibrosis

5.1 Pharmacodynamic properties
Pharmacotherapeutic group: bile and liver therapy; bile acid preparations, ATC code:

Upon oral administration, it induces a decline in cholesterol saturation of the gall bladder through blocking of cholesterol resorption in the intestine and decline in cholesterol secretion to the gall. A gradual decomposition of cholesterol gallstones is presumably

sion of cholesterol and forming of liquid crystals. The effect of ursodeoxycholic acid in liver and cholestatic diseases is, according to

Subchronic toxicity studies in monkeys showed hepatotoxic effects in the groups given high doses, including functional changes (e.g. liver enzyme changes) and morphological changes such as bile duct proliferation, portal inflammatory foci and hepatocellular necrosis. These toxic effects are most likely attributable to lithocholic acid, a metabolite of ursodeoxycholic acid, which in monkeys – unlike humans – is not detoxified.

Hypromellose 6
 Titanium dioxide (E171)
 Macrogol 400

than 18 years.

over 100 kg

Body weight

(kg)

47 - 62

morning

The inin-coated tablets should be swallowed uncrewed with some liquid. Calle should be taken to ensure that they are taken regularly.

The use of Ursodeoxycholic Acid (ProUrsan Forte®) in PBC may be continued indefinitely. It is possible that at the beginning of treatment in patients with primary biliary cholangitis the clinical symptoms worsen, e.g. an aggravation of itching occurs. If this is the case, the therapy is to be continued with ½ film-coated tablets of Ursodeoxycholic Acid (ProUrsan Forte®) per day and the therapy gradually (increase in the daily dose by ½ film-coated tablets per week) carried on, until the dose planned in the respective dosage plan is reached again Paediatric population
Children with cystic fibrosis aged 6 to less than 18 years
20 mg/kg/day in 2–3 divided doses, with a further increase to 30 mg/kg/day if necessary. Ursodeoxycholic Acid (ProUrsan Forte®) 500 mg film-coated tablets Body weight (kg) first 3 months

(SGPT) and y-GT should be monitored by the physician every 4 weeks, thereafter every 3 months. Apart from allowing for identification of responders and non-responders in patients being treated for primary biliary cholangitis, this monitoring would also enable early detection of potential hepatic deterioration, particularly in patients with advanced

stage primary biliary cholangitis.

When used for dissolution of cholesterol gallstones.

In order to assess therapeutic progress and for timely detection of any calcification of the gallstones, depending on stone size, the gall bladder should be visualised (oral cholecys

ursodeoxycholic acid is recommended. An increase of the dose of nitrendipine may be necessary. An interaction with a reduction of the therapeutic effect of dapsone was also reported. These observations together with *in vitro* findings could indicate a potential for ursodeoxycholic acid to induce cytochrome P450 3A enzymes. Induction has, however, not been observed in a well-designed interaction study with budesonide, which is a known cytochrome P450 3A substrate.

Oestrogenic hormones and blood cholesterol lowering agents such as clofibrate increase hepatic cholesterol secretion and may therefore encourage biliary lithiasis, which is a counter-effect to ursodeoxycholic acid used for dissolution of gallstones.

Animal studies did not show an influence of ursodeoxycholic acid on fertility (see section 5.3). Human data on fertility effects following treatment with ursodeoxycholic acid are not 4.7 Effects on ability to drive and use machines
Ursodeoxycholic acid has no or negligible influence on the ability to drive and use 4.8 Undesirable effects

The evaluation of undesirable effects is based on the following frequency data:

## be treated symptomatically with restoration of fluid and electrolyte balance Additional information on special populations Long-term, high-dose UDCA therapy (28–30 mg/kg/day) in patients with primary sclerosing cholangitis (off-label use) was associated with higher rates of serious adverse

5. PHARMACOLOGICAL PROPERTIES

achieved through dispers

5.2 Pharmacokinetic properties

fecal excretion follow

Acute toxicity

Ursodeoxycholic acid is found in small amounts in human gall.

From clinical reports long-term experience up to 10 years and more is available with UDCA treatment in paediatric patients suffering from cystic fibrosis associated hepatobiliary disorders (CFAHD). There is evidence that treatment with UDCA can decrease bile duct proliferation, halt progression of histological damage and even reverse hepatobiliary changes if given at early stage of CFAHD. Treatment with UDCA should be started as soon as the diagnosis of CFAHD is made in order to optimise treatment effectiveness.

amounts to 60–80%. Upon resorption the bile acid conjugates almost completely with the glycine and taurine amino acids in the liver and then biliary excretion follows. The first-pass-clearance through liver amounts up to 60%.

first-pass-clearance through liver amounts up to 60%. Depending on the daily dose and the underlying disease or the liver condition, the more hydrophilic ursodeoxycholic acid accumulates in the gall. Concurrently, a relative reduction of the other, more lipophilic bile acids takes place. In the intestine, a partial bacterial degradation to 7-keto-lithocholic acid and lithocholic acid takes place. The lithocholic acid is liver-toxic and induces liver parenchymal damage in a range of animal species. In humans, it is resorbed only to a very minor extent. This fraction is sulphated by the liver and thus detoxicated and then, again, biliary and subsequently

Clinical experience confirms that the described hepatotoxic effects are of no apparent

<u>Carcinogenic and mutagenic potential</u>
Long-term studies in mice and rats revealed no evidence of ursodeoxycholic acid having carcinogenic potential. *In vitro* and *in vivo* genetic toxicology tests with ursodeoxycholic

In studies in rats, tail aplasias occurred after a dose of 2,000 mg of ursodeoxycholic acid per kg of body weight. In rabbits, no teratogenic effects were found, although there were embryotoxic effects (from a dose of 100 mg per kg of body weight). Ursodeoxycholic acid had no effect on fertility in rats and did not affect peri-/postnatal development of the

sodeoxycholic acid is resorbed fast in the jejunum and upper ileum in terminal ileum active transport. The resorption rate generally

Studies conducted on animals concerning acute toxicity did not indicate any toxic Chronic toxicity

The biological half-life of ursodeoxycholic acid is around 3.5 to 5.8 days.

6. PHARMACEUTICAL PARTICULARS 6.1 List of excipients Tablet core Maize starch Maize starch, pregelatinised
 Sodium starch glycolate A Silica colloidal anhydrous - Magnesium stearat

6.3 Shelf life

Imported and Distributed by:

DR-XY48783

Tablet coating 6.2 Incompatibilities

Toxicity to reproduction

offspring.

Keep out of reach of children. 6.5 Nature and contents of container PVC/PVdC/Alu blister foil × 10's (box of 50's and 100's). Not all pack sizes may be marketed.

2 years.
6.4 Storage condition Store at temperatures not exceeding 30°C.

ecial precautions for disposal and other handling No special requirements For suspected adverse drug reaction, report to the FDA: www.fda.gov.ph Seek medical attention immediately at the first sign of any adverse drug reaction.

7. MARKETING AUTHORISATION HOLDER

9. DATE OF FIRST AUTHORISATION / RENEWAL OF THE AUTHORISATION Date of first authoris 10. DATE OF REVISION OF THE TEXT 11 October 2023

The Patriot Bldg., South Luzon, Express Way, Parañaque, Metro Manila, Philippines Manufactured by: PRO.MED.CS Praha a. s. Tel6ská 3771, Michle, 140 00 Prague 4, Czech R 8. MARKETING AUTHORISATION NUMBER(S)