MICRO LABS LIMITED, BANGALORE, INDIA									
1	Product Name		Ursodox		Colours Used				
2	Strength		250 mg		_				
3	Component		Leaflet			BLACK			
4	Category		Export - Philippines						
5	Dimension		120 (L) x 240 (H) mm						
6	Artwor	rk Code	EXG-ML01I-1119/A						
7	Pharm	na Code	N/A						
8	Reasc	on for Change	New Regulat	tion text					
		Prepared Checked		Approve	roved by				
		Prepared by (DTP)	by (PD)	Head CQA	Head Production/ Packing (Site)	Head QC (Site)	Head QA (Site)		
Sign		Kantharaju L.							
Date		02-11-2021							

♦ Front



Size: 120 (L) x 240 (H) mm Folding size: 30 x 60 mm Carton size: 85 x 80 x 65 mm



URSODEOXYCHOLIC ACID

Ursodox

250 mg Capsule Bile Acid Therapy

PRODUCT NAME: Ursodox

DOSAGE FORM AND STRENGTH: Ursodeoxycholic acid Ph. Eur. 250 mg

PHARMACOLOGIC CATEGORY: Bile acid preparations

PRODUCT DESCRIPTION
Hard gelatin capsule of size "0", with white opaque cap and white opaque body, printed MICRO on cap and MICRO on body with black ink filled with white to off-white powder.

FORMULATION/COMPOSITION:

Each hard gelatin capsule contains: Ursodeoxycholic acid Ph. Eur.......

PHARMACOKINETICS:
Absorption: About 90% of an oral dose absorbed in small intestine. Only small amounts of Ursodeoxycholic acid appear in the

Absorption: About 90% of an oral dose absorbed in small intestine. Only small amounts of Ursodeoxycholic acid appear in the systemic circulation.

Distribution & Protein Binding: Following absorption from the GI tract, Ursodeoxycholic acid distributes to the portal vein and undergoes hepatic extraction (about 50% in the absence of liver disease; extent of extraction decreases as severity of liver disease increases) from portal blood by the liver (i.e., there is a large first-pass effect). After drug is conjugated in liver, it is distributed into bile. Ursodeoxycholic acid in bile is concentrated in the gallbladder and distributed into the duodenum in gallbladder bile via the cystic and common ducts by gallbladder contractions stimulated by physiologic responses to eating. The plasma protein binding in healthy individual's ≥70% (as unconjugated Ursodeoxycholic acid)

Metabolism: Ursodeoxycholic acid is conjugated with glycine or taurine in the liver and distributed into bile. Ursodeoxycholic acid conjugates are absorbed into small intestine by passive and active mechanisms. These conjugates may be deconjugated in the ileum by intestinal enzymes (or by bacteria in the small intestine), creating free Ursodeoxycholic acid that can be reabsorbed and deconjugated in the liver. Unabsorbed Ursodeoxycholic acid reaches the colon unchanged, where it is primarily 7-dehydroxylated to form lithocholic acid. Some Ursodeoxycholic acid reaches the colon unchanged, where it is primarily 7-dehydroxylated to form lithocholic acid. Some Ursodeoxycholic acid and so be oxidized at the 7-carbon, producing 7-keto-lithocholic acid. Assorbed 7-keto-lithocholic acid is stereo specifically reduced in the liver to chenodiol. A small portion of orally administered Ursodeoxycholic acid undergoes bacterial degradation with each cycle of enterohepatic circulation.

Elimination: It is excreted principally in the feces. Urinary excretion increases with treatment but remains below 1% except in patients with severe cholestatic liver disease. Litho

lic acid is indicated in the treatment of primary biliary cirrhosis (PBC) and for the dissolution of radiolucent gallstones in patients with a functioning gall bladder.

DOSAGE AND MODEL ROUTE OF ADMINISTRATION:
There are no age restrictions on the use of Ursodeoxycholic acid 250mg hard capsules. For patients weighing less than 47 kg or patients who are unable to swallow Ursodeoxycholic acid 250mg hard capsules, Ursodeoxycholic acid suspension is available. The following daily dose is recommended for the various indications:

The following daily dose is recommended for the various indications.

For primary billiary cirrhosis (PBC)

The daily dose depends on body weight, and ranges from 3 to 7 capsules (14 ± 2 mg Ursodeoxycholic acid per kg of body weight).

For the first 3 months of treatment, Ursodeoxycholic acid 250mg hard capsules 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 250mg hard capsules					
Body weight (kg)	Daily dose (mg/kg BW)	first 3 mon	ths.	subsequently			
(3,	,	morning	midday	evening	evening (1 x daily)		
47 – 62	12 – 16	1	1	1	3		
63 – 78	13 – 16	1	1	2	4		
79 – 93	13 – 16	1	2	2	5		
94 – 109	14 – 16	2	2	2	6		
Over 110		2	2	3	7		

The capsules should be swallowed whole with some liquid. Care should be taken to ensure that they are taken regularly. The use of Ursodeoxycholic acid 250mg hard capsules in primary biliary cirrhosis may be continued indefinitely. In patients with primary biliary cirrhosis, in rare cases the clinical symptoms may worsen at the beginning of treatment, e.g. the itching may increase. Should this occur, therapy should be continued with 1 capsule daily, and the therapy gradually increased (increase of the daily dose weekly by 1 capsule) until the dose indicated in the respective dosage regimen is reached again.

(increase of the daily dose weekly by 1 capsule) until the dose indicated in the respective dosage regimen is reached again. <u>Dissolution of Gallstones:</u>
Adults: The usual dose is 8-12mg/kg/day to be taken in the evening, e.g. 750mg, daily in the evening.
The time required for dissolution of gallstones is likely to range from 6 to 24 months depending on stone size and composition. Follow-up cholecystograms or ultrasound investigation may be useful at 6 month intervals until the gallstones have disappeared. Treatment should be continued until 2 successive cholecystograms and/or ultrasound investigations 4-12 weeks apart have failed to demonstrate gallstones. This is because these techniques do not permit reliable visualization of stones less than 2mm in diameter. The likelihood of recurrence of gallstones after dissolution by bile acid treatment has been estimated as up to 50% at 5 years. The efficiency of Ursodeoxycholic acid in treating radio-opaque or partially radio-opaque gallstones has not been tested but these are generally thought to be less soluble than radiolucent stones. Non-cholesterol stones account for 10-15% of radiolucent stones and may not be dissolved by bile acids.

Elderly: There is no evidence to suggest that any alteration in the adult dose is needed but the relevant precautions should be taken into account.

Children: Cholesterol rich gallstones are rare in children but when they occur, dosage should be related to bodyweight

MODE OF ADMINISTRATION
The daily dose depends on body weight, and ranges from 3 to 7. For the first 3 months of treatment.

CONTRAINDICATIONS & PRECAUTION(S), WARNING(S)
Ursodeoxycholic acid 250mg hard capsules should not be used in patients with
Acute inflammation of the gall bladder or biliary tract

- Occlusion of the biliary tract (occlusion of the common bile duct or a cystic duct) Frequent episodes of biliary colic
- Radio-opaque calcified gallstones
- impaired contractility of the gall bladder Hypersensitivity to bile acids or any exc

PRECAUTIONS AND WARNINGS:

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Ursodeoxycholic acid 250mg hard capsules should be taken under medical supervision.

During the first 3 months of treatment, liver function parameters AST (SGOT), ALT (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 cirrhosis, this monitoring would also enable early detection of potential hepatic deterioration, particularly in patients with advanced stage primary biliary cirrhosis.

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 visualized (oral cholecystography) 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 visualized on X-ray images, or in cases of calcified gallstones, impaired contractility of the gall bladder or frequent episodes of biliary colic, Ursodeoxycholic acid 250mg hard capsules should not be used.

When used for treatment of advanced stage of primary biliary cirrhosis:

In very rare cases decompensation of hepatic cirrhosis has been observed, which partially regressed after the treatment was discontinued.

discontinued. If diarrhoea occurs, the dose must be reduced and in cases of persistent diarrhoea, the therapy should be discontinued.

INTERACTIONS:
Ursodeoxycholic acid 250mg hard capsules should not be administered concomitantly with cholestyramine, colestipol or antacids containing aluminum hydroxide and/or smectite (aluminum 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 substances be necessary, it must be taken at least 2 hours before or after Ursodeoxycholic acid 250mg hard capsules. Ursodeoxycholic acid 250mg hard capsules can increase 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 Ursodeoxycholic acid 250mg hard capsules can reduce the absorption of ciprofloxacin.

Ursodeoxycholic acid has been shown to reduce the plasma peak concentrations (C_{max}) and the area under the curve (AUC) of the calcium antaconist interndipine.

Ursodeoxycholic acid has been shown to reduce the plasma peak concentrations (C_{max}) and the area under the curve (AUC) of the calcium antagonist nitrendipine.

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. Controlled clinical trials have shown, however, that Ursodeoxycholic acid does not have a relevant induction effect on cytochrome P450 3A enzymes.

Oestrogenic hormones and blood cholesterol lowering agents such as Clofibrate may increase biliary lithiasis, which is a counter effect to Ursodeoxycholic acid used for dissolution of gallstones.

The evaluation of undesirable Very common (≥ 1/10) Common (≥ 1/100 to < 1/10)

Uncommon (≥ 1/1.000 to < 1/100)

Uncommon (≥ 1/1,000 to < 1/1,000 to </tr>

 Very rarely, severe right upper abdominal pain has occurred during the treatment of primary billiary cirrhosis.
 Hepatobiliary disorders:

Hepatobiliary disorders:

During treatment with Ursodeoxycholic acid, calcification of gallstones can occur in very rare cases.

During therapy of the advanced stages of primary biliary cirrhosis, in very rare cases decompensation of hepatic cirrhosis has been observed, which partially regressed after the treatment was discontinued.

Skin and subcutaneous disorders:

Very rarely, urticaria can occur.

STORAGE CONDITION:

DOSAGE FORMS AND PACKAGING AVAILABLE: Ursodeoxycholic acid 250 mg: Alu/PVC Blister Pack of 10's (Box of 100's)

INSTRUCTIONS AND SPECIAL PRECAUTIONS FOR HANDLING AND DISPOSAL (IF APPLICABLE):

NAME AND ADDRESS OF MARKETING AUTHORIZATION HOLDER: Marketing Authorization Holder
Brown & Burk Philippines Inc
U-501, 5/F., SEDCCO 1 Bldg., 120 Rada cor.,
Legaspi Sts., Legaspi Village, Makati City, Philippines

NAME AND ADDRESS OF MANUFACTURER: MICRO LABS LIMITED 92, Sipcot, Hosur - 635 126, Tamil Nadu, India

CAUTION STATEMENT:FOODS, DRUGS, DEVICES, AND COSMETICS ACT PROHIBITS DISPENSING WITHOUT PRESCRIPTION.

ADR REPORTING STATEMENT: FOR SUSPECTED ADVERSE DRUG REACTION, REPORT TO THE FDA: www.fda.gov.ph

DATE OF FIRST AUTHORIZATION:

DATE OF REVISION OF PACKAGE INSERT:

EXG-ML01I-1119/A