

# Laxolac

## Lactulose USP Concentrated Oral Solution

### COMPOSITION :

Each 5 ml Laxolac concentrated oral solution contains Lactulose USP 3.40 gm.

### PHARMACOLOGY :

Lactulose is a disaccharide, which is not hydrolyzed in the small intestine. Therefore it can not be absorbed and is transported to the colon with water to retain the osmotic balance. It provides a natural substrate for the saccharolytic bacterial flora in the colon. In the colon, several species of bacteria can hydrolyze Lactulose to the monosaccharides galactose and fructose. By encouraging this normal metabolic activity of the bacteria, the osmotic pressure of the colonic contents is doubled and more water is drawn into the bowel. Further metabolism of the monosaccharides leads to the production of acetic acids and the subsequent lowering of colonic PH. This acidification of the colonic contents is considered to be the main reason for the effectiveness of Lactulose solution. In chronic portal systemic encephalopathy, it may be associated with the decrease in the relative concentration of free ammonia, the major agent involved in the cerebral disturbance.

### INDICATION :

1. Constipation (chronic constipation)

In every case of chronic constipation, initial treatment should consist of diet rich in fiber (Vegetables, salads, fruits, supplements of linseeds, wheat germ etc), a generous amount of liquids and much physical exercise. Laxolac is only to be taken when these measures prove insufficient.

2. Intestinal flora disturbances : In

- damage to intestinal flora, following therapy with broad spectrum antibiotics
- gall bladder diseases
- intestinal diseases (colitis, diverticulosis, megacolon)

3. Increased blood ammonia levels

(hyperammoniemia in hepatopathy, portal systemic encephalopathy, precoma, coma)

4. Diseases of the gums and the parodontic apparatus

(Paradontosis, bleeding from the gums, inflammation, dystrophy)

### DOSAGE AND ADMINISTRATION :

Dosage should be followed accurately unless otherwise specified.

1. Constipation (chronic constipation) :

Due to the fact that every organism responds differently to Lactulose, each patient must determine his/her own optimal dose in the course of time.

#### Initially

#### In long-term therapy

Adults	: 3-6 tea-spoons daily	1.5-6 tea-spoons daily
Children upto 14 years	: 3 tea-spoons daily	1-2 tea-spoons daily
Infants and toddlers	: 1-2 tea-spoons daily	1 tea-spoon daily

With Lactulose a prompt laxative effect may be achieved by taking a mixture of 3-9 tea-spoons in 1/8-1/4 litre water, coffee, tea, fruit juice, or milk on an empty stomach after getting up in the morning. Normally, defecation takes place approximately 2 hours later in the form of a fluid pulpy mass (increases defecation reflex).

2. In damaged intestinal flora (e.g. following long-term antibiotic treatment) :

Adults : 1-2 tea-spoons daily

Children : 1 tea-spoon daily

3. For reduction of blood ammonia level (In hepatopathy) :

A maximum of 60-100 g Lactulose daily, that is 18-30 tea-spoons

4. In precoma : A maximum of 100 g Lactulose daily, that is 30 tea-spoons Laxolac spread over the course of the day.

5. Disease of the gums and the parodontic apparatus (paradontopathy) :

Adults : 3-6 tea-spoons Laxolac daily.

### CONTRAINDICATIONS :

Lactulose is contraindicated in patients who are suffering from Galactosaemia, Intestinal obstruction and patients hypersensitive of Lactulose.

### SIDE-EFFECTS :

Flatulence, cramps and abdominal discomfort.

### PRECAUTION :

Lactose intolerance

### DRUG INTERACTIONS :

During the clinical-testing stage, Lactulose was administered together with various drugs, such as oral antidiabetics, anticoagulants and cardiovascular agents. No interactions were observed.

### PREGNANCY & LACTATION :

Studies show that lactulose has no adverse effects. Decisions regarding use during pregnancy and lactation must be made by a registered physician.

### STORAGE REQUIREMENT :

Store below 25°C. Do not freeze. Dilution and subsequent storage is not recommended.

### PACKAGE QUANTITIES :

Each bottle contains 100 ml Laxolac concentrated oral solution.

Manufactured by:



**Globe Pharmaceuticals Ltd.**

Noakhali, Bangladesh.