Lanoxin PG 50 micrograms/ml Elixir Lanoxin PG 62.5 micrograms Tablets Lanoxin 250 micrograms Tablets Lanoxin 125 micrograms Tablets (Digoxin)

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions ask your doctor, pharmacist or nurse.

 This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.

 If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any
- possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:

- 1. What Lanoxin is and what it is used for
- 2. What you need to know before you use Lanoxin
- 3. How to use Lanoxin
- 4. Possible side effects
 5. How to store Lanoxin 6. Contents of the pack and other information

1. What Lanoxin is and what it is used for

Lanoxin contains the active substance digoxin, which belongs to a group of medicines called cardiac glycosides. It is used to treat arrhythmias and heart failure. An arrhythmia is an irregularity in the heart-beat, which causes the heart to skip a beat, beat irregularly or beat at the wrong speed. This medicine works by correcting irregular heartbeats to a normal rhythm and strengthens the force of the heart-beat, which is why it is useful in heart failure.

2. What you need to know before you use Lanoxin Do not use Lanoxin if you: - Are allergic to digoxin, other cardiac glycosides or any of the other ingredients of

- this medicine (listed in section 6).
- Have serious heart problems, such as those with the cond impulses in the heart, especially if you have a history of Stokes-Adams attacks (abrupt, short-lived loss of consciousness caused by a sudden change in heart rate Have an irregular heart-beat caused by cardiac glycoside intoxication or conditions
- such as Wolff-Parkinson-White syndro Have obstructive cardiomyopathy (enlargement of the heart muscle).
- Warnings and precautions

Talk to your doctor, pharmacist or nurse before using this medicine:
- If you are taking this medicine, your doctor may ask you to have regular blood tests

- to determine the amount of Lanoxin in the blood. This may be useful in the case of patients with kidney disorders.

 If you develop digoxin toxicity, this can lead to various forms of heart rhythm
- disturbances, some of which resemble the rhythm disturbances for which the product was prescribed. If you have abnormal heart rhythm (heart block) and you are taking this medicine, contact your doctor immediately if you feel one or more of the following symptoms: fainting, short-lasting loss of consciousness, dizziness or light-headedness, fatigue
- training, snort-leasuing loss or consciousness, duziness or light-headedness, ratigue (tiredness), shortness of breath, chest pain, irregular heart-beat or confusion. If you have a sinoatrial disorder (a disorder in the conduction of electrical impulses in the heart such as Sick Sinus Syndrome), in some patients with a sinoatrial disorder this medicine can cause a slow and/or irregular heart-beat. Sometimes this will cause tiredness, weakness and dizziness and when your heartbeat is very slow you may faint. If you have recently suffered a heart attack
- When heart failure occurs along with the collection of an abnormal protein in the heart tissue (cardiac amyloidosis), an alternative therapy may be prescribed by the
- If you have myocarditis (inflammation of the heart muscle) this may cause vasoconstriction (narrowing of the blood vessels) on rare occasions. Your doctor
- may prescribe you a different medicine.

 If you have Beri-beri disease (caused by a vitamin B1 deficiency).

 If you have constrictive pericarditis (inflammation of the sac which contains the

- If you have constitute personnel.

 If you are taking diuretics (drugs which promote urine production and help reduce the amount of water in your body) with or without an ACE inhibitor (mainly used to treat high blood pressure), your doctor will prescribe a lower dose of Lanoxin. Do not stop taking Lanoxin without talking to your doctor. If you have a heart test called an EGG (electrocardiogram), tell the person doing the test that you are taking Lanoxin as it can affect the meaning of the results.
- If you have severe respiratory (lung) disease (as you may have an increased sensitivity to Lanoxin)
 If you have low levels of oxygen reaching certain parts of your body, low levels of
- potassium, abnormally low levels of magnesium or increased levels of calcium in
- your blood

 If you have thyroid disease (such as an under-active or over-active thyroid) as you
 might require changes in the dose of this medicine

 If you have malabsorption syndrome (you cannot absorb minerals from your food
- properly) or if you have ever had gastro-intestinal reconstruction surgery If you will receive electric shock treatment to correct an abnormal heart-beat.
- Other medicines and Lanoxin Tell your doctor or pharmacist if you are taking, have recently taken or might take

any other medicines. Taking several medicines can sometimes have harmful consequences or lead to unwanted interactions. $\underline{\text{Sensitivity to Lanoxin can be increased by}} \ \ \text{medicines which lower the level of potassium in the blood.} These include:}$

lithium salts (antidepressants) corticosteroid based products

The following medicines increase the level of Lanoxin in the blood, which can increase

- diuretics
- carbenoxolone (a product which strengthens the gastric mucosa)

the risk of toxicity:
- certain products which affect the heart: amiodarone, flecainide, prazosin, propafenone, quinidine canagliflozin (used to treat of type 2 diabetes mellitus),

- certain antibiotics: erythromycin, clarithromycin, tetracycline, gentamicin, trimethoprim
- daclatasvir (used in combination with other medications to treat hepatitis C), flibanserin (used to treat low sexual desire in women who have not gone through
- menopause), isavuconazole (used to treat fungal infections),
- itraconazole (used to treat fungal infections) ivacaftor (used to treat cystic fibrosis), spironolactone (a drug which increases the amount of urine you produce) alprazolam (a sedative which may be used to treat anxiety) indomethacin (used to treat inflammation)
- quinine (may be used to prevent malaria infection) propantheline (used to prevent muscle spasms)
- mirabegron (used to treat overactive bladder that causes a sudden urge to urinate resulting in involuntary loss of urine),
- nefazodone (an antidepressant)
- atorvastatin (lowers blood cholesterol) cyclosporine (an immunosuppressant often used to prevent transplant rejection) epoprostenol (used to treat pulmonary arterial hypertension) tolvaptan (used to treat low blood sodium levels)
- conivaptan (used to treat low blood sodium levels)
- carvedilol (used to treat mild to severe congestive heart failure and high blood pressure)
- ritonavir (used to treat HIV infection and AIDS). taleprevir (used to treat hepatitis C infection)
- dronedarone (used to treat irregular heart-beat).
- ranolazine (used to treat chest pain), simeprevir (used in combination with other medications to treat hepatitis C), telmisartan (used to treat high blood pressure), lapatinib (used to treat breast cancer), ticagrelor (used to prevent heart attack or stroke),
- verapamil (used to treat high blood pressure), felodipine (used to treat high blood pressure),
- tiapamil (used to treat chest pain),
 vandetanib (used to treat certain cancers of the thyroid gland),
- velpatasvir (used in combination with other medications to treat hepatitis C). P-glycoprotein inhibitors.
- The following medicines may increase or have no effect on the levels of Lanoxin in the blood:

antacids (used to treat gastric acidity),

inhibitors (used to treat high blood pressure and congestive heart failure), non-steroidal anti-inflammatory drugs (NSAIDs) and cyclooxygenase-2 enzyme (COX-2) inhibitors (used to treat pain and inflammation).

If you have heart failure and are taking sennosides (increase the amount of stools you produce to help you have bowel movements) along with Lanoxin you may have a moderately increased risk of digoxin toxicity. The following medicines $\underline{\text{reduce the level of Lanoxin}}$ in the blood:

some bulk-forming laxatives (increase the amount of stools you produce to help vou

have bowel movements), kaolin-pectin (used to treat diarrhoea),

acarbose (used to treat some types of diabetes), certain antibiotics: neomycin, penicillamine, rifampicin, some cytostatic drugs (used as chemotherapy for cancer treatment), metoclopramide (a product for treating nausea and vomiting), sulfasalazine (a product to counteract inflammatory diseases of the intestine),

- adrenaline (used to treat severe allergic reactions), salbutamol (a product used to treat asthma), colestyramine (lowers blood cholesterol).
- phenytoin (used to treat epilepsy), St. John's wort (*Hypericum perforatum*) (used to treat depression), bupropion (used to treat depression),
- supplemental enteral nutrition (being fed by a feeding tube). If you are taking Lanoxin along with the following medicines you may have an
- increased risk of irregular heart rhythm: intravenous calcium sympathomimetics (used to treat heart attack and low blood pressure),
- If you are taking Lanoxin and suxamethonium (used to help muscle relaxation and treat hort-term paralysis), you may have an <u>increased risk of high potassium levels in the</u>
- blood. Lanoxin with food and drink

This medicine may be taken on an empty stomach or with most meals. However, you should avoid taking Lanoxin with foods that are high in fibre, also known as 'dietary fibre,' because the level of Lanoxin absorbed by the body can be reduced.

Pregnancy Your doctor will prescribe this medicine with caution during pregnancy.

Pregnancy, breastfeeding and fertility

You may require a higher dose of this medicine if you are pregn This medicine could be given to the mother to treat abnormally high heart rate and congestive heart failure in the unborn child.

Side effects of Lanoxin treatment affecting the mother may also affect the unborn child. <u>Breast-feeding</u> This medicine is excreted in breast milk, but in very small amounts. Therefore, this

There is no information available on the effect of Lanoxin on fertility.

medicine can be used by women who are breast-feeding.

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine. **Driving and using machines** Since dizziness and blurred or yellow vision have been reported, you should exercise caution before driving a vehicle, using machinery or participating in dangerous

Lanoxin PG 50 micrograms/ml Elixir contains methyl parahydroxybenzoate (E218), sucrose, ethanol and sodium Methyl parahydroxybenzoate (E218):

• May cause allergic reactions (possibly delayed).

Lanoxin PG Elixir contains less 0.3 g of sucrose in each ml of oral solution, i.e. 1.5 g of sucrose in a 5 ml (0.25 mg digoxin) dose. Depending on the dose the amount of

- - sucrose will vary. If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine. Ask your doctor to explain this further if your child is taking this medicine. May be harmful to teeth. Lanoxin PG Elixir contains less than 0.1 ml of ethanol (alcohol) in each ml of oral solution, i.e. up to 0.44 g of ethanol in a 5 ml (0.25 mg digoxin) dose which is equivalent to less than 12.5 ml (less than 3 teaspoons) beer, less than 4.5 ml (less than

equivalent to less than 12.3 init (less than 15 desproins) been, less than 14.3 init (less than 16 despending on the dose the amount of ethanol will vary. Ask your doctor to explain this further if your child is taking this medicine. Harmful to those suffering from alcoholism. To be taken into account in pregnant or breast-feeding woman, children and high-risk groups such as patients

- with liver disease, or epilepsy. Sodium:
- Adults and children over 10 years: Lanoxin PG Elixir contains 38.019 mg sodium (main component of cooking/table salt) or less in each dose. This is equivalent to 1.9 % of the recommended maximum daily dietary intake of sodium.

 • Children under 10 years: Lanoxin PG Elixir contains less than 1 mmol sodium (23 mg)
 - per 1 ml of oral solution, that is to say essentially 'sodium-free

Lanoxin 250 micrograms Tablets, Lanoxin 125 micrograms Tablets and Lanoxin PG 62.5 micrograms Tablets contain lactose

Lanoxin 250 micrograms Tablets, Lanoxin 125 micrograms Tablets and Lanoxin PG 62.5 micrograms Tablets contain lactose (a sugar). If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicinal product

3. How to take Lanoxin Lanoxin PG 50 micrograms/ml Elixir is available as an oral solution which is taken Lanoxin PG 62.5 micrograms Tablets is available as a tablet taken orally.

Lanoxin 250 micrograms Tablets and Lanoxin 125 micrograms Tablets are available as a tablet taken orally. Lanoxin PG Elixir, 0.05 mg in 1 ml, is supplied with a graduated pipette and this should

Lanoxin PG Elixir should not be diluted.

Always use this medicine exactly as your doctor has told you. Check with your doctor

Your doctor will have decided how much of this medicine is right for you: It depends on what heart problem you have and how serious it is

- It also depends on your age, weight and how well your kidneys work
 While you are taking this medicine, your doctor will take regular blood tests. This is
- to determine how you are responding to treatment.

 Your doctor will adjust your dose based on your blood test results and on how you are responding to treatment. This is why you must strictly adhere to the treatment
- course prescribed by your doctor.

 If you have taken another cardiac glycoside in the past 2 weeks, your doctor may prescribe a lower dose.

 If you feel that the effect of this medicine is too strong or too weak, talk to your
- doctor or pharmacist.
- <u>Taking this medicine</u> You usually take this medicine in two stages:

<u>Stage 1 - loading dose</u> The loading dose gets your Lanoxin levels up to the correct level quickly. You will

- take one large single dose and then begin your maintenance dose or - take a smaller dose each day for a week and then begin your maintenance dose

· Stage 2 - maintenance dose

After your loading dose you will take a much smaller dose every day, until your doctor tells you to stop.

Oral Administration

- Adults and children over 10 years
- Usually between 0.75 and 1.5 mg as a single dose For some patients, this may be given in divided doses 6 hours apart

symptoms

If you forget to use Lanoxin

4. Possible side effects

- Alternatively, between 0.25 and 0.75 mg may be given each day for a week maintenance dose
- Your doctor will decide this, depending on your response to this medicine It is usually between 0.125 and 0.25 mg daily
- Children under 10 years loading dose This is worked out using your child's weight
- Usually between 0.025 and 0.045 mg per kg of body weight
 This should be given in divided doses between 4 and 8 hours apart maintenance dose The doctor will decide this, depending on your child's response to Lanoxin
 It is usually a 1/5 (fifth) or a 1/4 (quarter) of the loading dose, to be taken daily

Elderly people may be given a lower dose than the usual adult dose. This is because older people may have reduced kidney function. Your doctor will check the levels of Lanoxin in your blood and may change your dose if necessary.

If you use more Lanoxin than you should
If you have taken too much Lanoxin or a child has taken the medicine by accident,
contact your doctor, hospital or poison centre to evaluate the risks and get more The main symptoms of Lanoxin toxicity are heart rhythm disturbances and gastrointestinal symptoms which may happen before heart rhythm disturbances. Gastrointestinal symptoms include loss of appetite, nausea and vomiting. Other symptoms of Lanoxin toxicity include dizziness, fatigue, a general feeling of being unwell and various neurological disturbances including visual disturbances (more yellow-green than usual). The neurological and visual symptoms may persist even after other signs of toxicity have been resolved. In chronic toxicity, non-heart related symptoms, such as weakness and a general feeling of being unwell, may be the main

Do not take a double dose to make up for the forgotten dose. If you stop using Lanoxin

Your doctor will tell you how long you should take Lanoxin. Do not stop your treatment early without consulting your doctor. If you have any further questions on the use of this medicine, ask your doctor or

Like all medicines, this medicine can cause side effects, although not everybody gets If you get any of the following, talk to your specialist doctor straight away or seek urgent medical advice:

Other side effects may include:

nausea, vomiting, diarrhoea

Common (may affect up to 1 in 10 people)
- allergic reactions of the skin may occur (rash, urticaria) abnormal heart-beat

visual disturbances (blurred or yellow vision Uncommon (may affect up to 1 in 100 people)

Very rare (may affect up to 1 in 10,000 people) decrease in blood platelets (symptoms include bruises and nose bleeds) loss of appetite (anorexia)

central nervous system disturbances such as dizziness

- psychosis, apathy, confusion - headache
- stomach pain caused by lack of blood supply or damage to your intestines (ischaemia and necrosis) enlarged breast tissue in men (gynaecomastia) lack of energy (fatigue), a general feeling of being unwell and weakness
- 5. How to store Lanoxin
- Keep this medicine out of the sight and reach of children.

 Do not use this medicine after the expiry date which is stated on the label or carton.
- The expiry date refers to the last day of that month Protect Lanoxin PG Elixir from light. Once opened, use within 12 days.
- pharmacist how to throw away medicines you no longer use. These measures will help protect the environment. 6. Contents of the pack and other information ograms/ml Elixir co What Lanoxin PG 50 mic Each 1 ml of Lanoxin PG Elixir contains 50 micrograms of the active substance digoxin.

Do not use this medicine if you notice any visible signs of deterioration.
 Do not throw away any medicines via wastewater or household waste. Ask your

The other ingredients are: Disodium phosphate Anhydrous, Citric acid monohydrate, Methyl Parahydroxybenzoate, Syrup, Quinoline Yellow, Lime-Flavour, Ethanol 96%, Propylene Glycol, Purified water

What Lanoxin PG 62.5 micrograms Tablets contains

Each Lanoxin PG 62.5 micrograms Tablet contains 62.5 micrograms (0.0625 mg) of the active substance digoxin. The other ingredients are: Lactose monohydrate, Rice starch, Maize starch, Modified Maize Starch, Magnesium ste FD&C Blue no.2, Povidone What Lanoxin 250 micrograms Tablets contains

Each Lanoxin 250 micrograms Tablet contains 250 micrograms (0.25 mg) of the active substance digoxin. The other ingredients are: Lactose, Rice starch, Maize starch,

Magnesium stearate, Modified Maize Starch.

What Lanoxin 125 micrograms Tablets contains
One tablet contains 125 micrograms (0.125 mg) of the active substance digoxin. The other ingredients are: Lactose, Rice starch, Maize starch, Magnesium stearate, Modified Maize Starch. What Lanoxin PG 50 micrograms/ml Elixir looks like and contents of the pack Lanoxin PG Elixir is a clear, bright yellow oral solution. Lanoxin PG Elixir is available in bottles containing 60 ml oral solution.

Lanoxin PG 62.5 micrograms Tablets are blue, round, biconvex tablets debossed "D06" on one side and plain on the other side.

Lanoxin PG 62.5 micrograms Tablets are packed in white opaque thermoform blisters with aluminium lidding

What Lanoxin PG 62.5 micrograms Tablets look like and contents of the pack

What Lanoxin 250 micrograms Tablets look like and contents of the pack Lanoxin 250 micrograms Tablets are white, round, biconvex tablets bisected and debossed "D025" on the same side and plain on the other side. Lanoxin 250 micrograms Tablets are packed in white opaque thermoform blisters with aluminium lidding.

What Lanoxin 125 micrograms tablets look like and contents of the pack Lanoxin 125 micrograms Tablets are round, white, flat tablet marked "D012" on one side and plain on the other side. Lanoxin 125 micrograms tablets are packed in white opaque thermoform blisters with

Marketing Authorisation Holder Aspen Pharma Trading Limited, 3016 Lake Drive,

Aspen Bad Oldesloe GmbH, Industriestrasse 32-36, D-23843 Bad Oldesloe, Germany.

Marketing Authorisation Holder and Manufacturer

Leaflet revision date: March 2019 Lanoxin is a registered trademark of Aspen. All Rights Reserved.

benefits and risks

🙆 aspen

Citywest Business Campus, Dublin 24, Ireland.

aluminium lidding

AHC.Medinfo@ae.aspenpharma.com
For queries on medical information or Pharmacovigilance, please contact:AHC.DrugSafety@ae.aspenpharma.com

For general queries about this product, please contact:

Medicament is a product which affects your health and its consumption contrary to instructions is dangerous for you. Follow strictly the doctor's prescription, the method of use and the instructions of the pharmacist who sold the medicament.

- The doctor and the pharmacist are the experts in medicines, their

Do not by yourself interrupt the period of treatment prescribed

THIS IS A MEDICAMENT

- Do not repeat the same prescription without consulting your doctor. - Keep all medicaments out of reach of children.



