

Sandostatin®

Active substance: Octreotide (as octreotide

Excipients: 1 ml ampoules: Lactic acid, mannitol, water for injections to 1 ml 5 ml vials: Lactic acid. mannitol, 5 mg phenol

as preservative, water for injections to 1 ml Pharmaceutical form and quantity of ac-

tive substance per unit 1 ml ampoules containing 0.05 mg/ml, 0.1 mg/ml or 0.5 mg/ml 5 ml vial containing 0.2 mg/ml See also Sandostatin LAR (long-term treatment of acromegaly).

Indications/Potential uses

Acromegaly

Symptom control and reduction of plasma levels of growth hormone (GH) and insulin-like growth factor 1 (IGF-1) in acromegalic patients who have failed to respond to surgery or radiotherapy, are unable or unwilling to undergo surgery or are in the latency period before radiotherapy becomes fully effective.

Relief of signs and symptoms of functional gastroenteropancreatic (GEP) endocrine tu-

Efficacy has been adequately documented in these indications:

 Carcinoid tumours with features of the carcinoid syndrome VIPoma (VIP: Vasoactive Intestinal Peptide)

Glucagonomas

Sandostatin shows efficacy in about 50% of cases (limited number of patients treated thus far) in these indications: Gastrinomas/Zollinger-Ellison syndrome

(usually in conjunction with proton pump inhibitors or H₂-antagonist therapy)

Insulinomas (for pre-operative prevention of Hepatic impairment: The half-life of the prodhypoglycaemia and for maintenance thera- uct may be longer in patients with liver cirrho-

GRFomas (GRF: growth-hormone-releasing

Sandostatin often brings about improvement in symptoms, but does not cure the underlying disease, in these conditions.

· Prevention of complications following pancreatic surgery

Emergency treatment of bleeding gastro-oe-

sophageal varices secondary to cirrhosis in combination with specific therapy such as Use: See also the detailed instructions for use endoscopic sclerotherapy

Dosage/Administration Acromegaly

receive the same dose.

A maximum daily dose of 1.5 mg should not

be exceeded. After several months of treat-

ment, with monitoring of plasma GH levels,

If there is no appreciable reduction in IGF-1

and/or GH levels and no clinical response by

the end of one month of treatment with Sando-

statin, discontinuation of treatment should be

Gastroenteropancreatic endocrine tumours

The starting dose is 0.05 mg once or twice

daily s.c. The dose may be gradually in-

Complications following pancreatic surgery

0.1 mg three times daily s.c. on 7 successive

days, the first dose being administered on the

day of the operation at least one hour before

Elderly patients: Results of a small-scale.

single-dose study in elderly subjects show no

need for any special dosage in elderly patients

Children: Experience with octreotide in chil-

sis and may necessitate a change in the main-

tenance dose. Sandostatin was well tolerated

when administered by continuous i.v. infusion

at doses up to 0.050 mg/hour over a period

of 5 days to cirrhotic patients with bleeding

Renal impairment: Renal impairment had no ef-

fect on total exposure (AUC) to subcutaneously

administered octreotide and it is therefore not

necessary to adjust the dose of Sandostatin.

at the start of treatment with Sandostatin.

dose reduction may be considered.

dosage requires individual titration.

fusion" under "Other Information").

Special dosage instructions

gastro-oesophageal varices.

under "Other information".

the start of surgery.

Initial dose of 0.05 to 0.1 mg every 8 hours instructions from the physician or healthcare start of Sandostatin treatment and whenever keting period, there have been a limited numby s.c. injection. The dose should be adjusted professional (see "Other information"). based on monthly assessment of its effects on levels of circulating GH and IGF-1 (target: tion be allowed to reach room temperature controlled by more frequent injections with reotide, but pregnancy outcomes are unknown

GH < 2.5 ng/ml; IGF-1 in normal range), prior to administration so that injection site smaller doses. patients, the optimum daily dose is 0.2 to peated injection at short intervals at the same ments of patients with type I (insulin-depen-0.3 mg, IGF-1 and/or GH should be measured site should be avoided. To prevent contaminaevery 6 months in patients who continue to tion of the vial, the rubber cap should not be Sandostatin can cause a postprandial rise in Sandostatin LAR per month. In approximately punctured more than ten times.

Known hypersensitivity to octreotide or to any of the excipients.

Warnings and precautions General

GH-secreting pituitary tumours may expand. causing serious complications (e.g. restriction risk of insulin-dependent diabetes or changes of the visual field) and patients must therefore in the insulin requirement of patients with exbe closely monitored. If evidence of tumour isting type I diabetes. Appropriate monitoring expansion is detected, alternative treatment of blood glucose levels is therefore necessary. methods should be considered

creased to 0.2 mg three times daily, with The therapeutic benefits of a reduction in Nutrition tolerability and therapeutic efficacy (improvegrowth hormone (GH) levels and normalisation ment in symptoms, reduction in elevated of insulin-like growth factor 1 (IGF-1) concen- fats in some patients. levels of tumour-produced hormones) being trations in female acromegalic patients may
Depressed vitamin B12 blood levels and abnortaken into account. Higher doses may be repossibly restore fertility. Female patients of mal Schilling's test results have been observed guired in exceptional cases. The maintenance child-bearing potential should be advised to in some patients receiving octreotide therapy. use appropriate contraception if necessary Monitoring of vitamin B12 blood levels is recom-It is recommended that treatment be disconduring treatment with octreotide (see "Pregtinued after one week if there is a lack of thernancy/Breast-feeding").

Thyroid function should be monitored in patients receiving long-term treatment with oc- Interactions

Cardiovascular events

There have been uncommon reports of bra-Bleeding gastro-oesophageal varices dycardia. Dose adjustment may be necessary 0.025 mg/hour, given as a continuous i.v. infusion for a maximum of 5 days. Sandostatin channel blockers or other agents used to conmay be diluted with physiological saline (see trol the electrolyte and fluid balance. also "Instructions for administration by i.v. in-

Gallbladder and gallbladder-related events The formation of gallstones (cholelithiasis) is very common during treatment with Sandostatin. Gallstones may also occur in conjunction with inflammation of the gallbladder (cholecystitis) and dilatation of the biliary tract (see "Adverse effects"). Gallbladder ultrasonography is therefore recommended both before beginning treatment with Sandostatin and at Pharmacodynamic interactions approximately 6 to 12 month intervals during Dose adjustment of medicines such as beta

the course of such treatment. GEP endocrine tumours

There may be rare instances of a sudden loss tered (see "Warnings and precautions"). of symptomatic control with recurrence of severe symptoms in patients with GEP (gastroenicines may be required when Sandostatin is co-adteropancreatic) endocrine tumours receiving ministered (see "Warnings and precautions").

Glucose metabolism

linoma because it inhibits GH and glucagon transient delayed growth of offspring (see contractility and decrease bile secretion, secretion more potently than insulin secretion "Preclinical data").

the dose is changed.

It is recommended that the solution for injec- Marked fluctuations in blood glucose may be patients who were pregnant and received oct-

dent) diabetes. Hypoglycaemia was reported. sugar levels accordingly and to adjust anti-diabetic therapy, if required.

Oesophageal varices

Episodes of bleeding secondary to oesophageal varices are associated with an increased

Octreotide may alter the absorption of dietary

mended during therapy with Sandostatin in patients with a history of vitamin B12 deficiency.

Pharmacokinetic interactions Octreotide has been found to reduce the intes-

tinal absorption of ciclosporin and to slow that of cimetidine Co-administration of octreotide and bromocrip-

A limited amount of published data indicates that somatostatin analogues might reduce the metabolic clearance of substances metabolised by cytochrome P450 enzymes. This is attributed to the suppression of growth hormones. As it cannot be ruled out that octreotide might also have such an effect, caution is indicated when using other drugs that are principally metabolised by CYP3A4 and have a narrow therapeutic index (e.g. quinidine, terfenadine).

blockers, calcium channel blockers or agents Faecal fat excretion may increase, but even The adverse effects observed in clinical studto control fluid and electrolyte balance may be necessary when Sandostatin is co-adminis-

Pregnancy/Breast-feeding Pregnancy

Octreotide may exacerbate and prolong hy- Animal studies with octreotide have not shown Gallbladder and gallbladder-related events poglycaemic episodes in patients with insureproductive toxicological effects, apart from Somatostatin analogues inhibit gallbladder

Note: Patients who are to self-administer the and for a greater length of time. Such patients There are no adequate and well-controlled the formation of biliary sludge. The incidence drug by s.c. injection must receive precise require particularly close monitoring at the studies in pregnant women. In the post-marber of reports concerning female acromegaly value is 5-20% in the general population. Gallin half of these cases. Most of the patients should either be treated by litholysis therapy clinical symptoms and tolerability. In most pain can be avoided as much as possible. Re- Sandostatin may reduce the insulin require- received octreotide during the first trimester with bile acids or surgically removed. 300 µg Sandostatin s.c. daily or 20 to 30 mg blood sugar in non-diabetics and in type II dit two-thirds of the cases of pregnancies with been reported after the first few hours or days abetics with partially intact insulin reserves. It known outcome, the women chose to conis therefore recommended to monitor blood tinue octreotide therapy during their pregnanagain on withdrawal of treatment. In addition, cies. Normal newborns were reported in most cholelithiasis-induced pancreatitis has been of the cases with known outcome, but some reported in patients receiving long-term treatspontaneous abortions during the first trimester were also reported. Congenital abnormali

Sandostatin should only be prescribed to pregnant woman if absolutely necessary.

Breast-feeding It is not known whether octreotide is excreted

No R wave progression and non-specific ST-T in human milk. Animal studies have shown ex- wave changes - were observed in acromecretion of octreotide in the breast milk. Women should not breast-feed while undergoing treatment with Sandostatin.

ties or malformations were not observed.

It is not known whether octreotide has an effect on human fertility. Octreotide did not impair fertility in male and female rats at doses of up to 1 mg/kg body weight per day (see "Preclinical data").

Effects on the ability to drive and to use machines

No data are available on the effect of Sandostatin on the ability to drive and to use ma-

Adverse effects

In clinical studies, the most commonly reported adverse effects following administration of octreotide were diarrhoea, abdominal pain. nausea, flatulence, headache, cholelithiasis, hyperglycaemia and constination.

Gastrointestinal disorders and nutrition

effects may resemble acute intestinal obstruction with progressive abdominal distension, severe epigastric pain and painful abdominal ture prior to injection or by injecting a smaller

with long-term octreotide therapy there is no ies or in the post-marketing period with octevidence to date that this results in nutritional deficiency due to malabsorption.

Gastrointestinal adverse effects can be attenuated by allowing as long an interval as possible between administration and mealtimes, i.e. by giving injections between meals or at

frequency cannot be estimated). which may lead to gallbladder abnormalities or

stones in patients treated with Sandostatin are largely asymptomatic; symptomatic stones

In very rare cases, acute pancreatitis has ment with Sandostatin.

Bradycardia is a common adverse effect of

somatostatin analogue treatment. ECG changes – such as QT prolongation, axis shifts, early repolarisation, low voltage, R/S transition, eargalic and carcinoid patients. The relationship of these events to octreotide has not been definitively established because many of the patients in question had underlying heart disease (see "Warnings and Precautions").

Hypersensitivity and analphylactic reactions There have been post-marketing reports of hypersensitivity and allergic reactions. These were mainly associated with skin reactions; rarely, the mouth and respiratory tract were affected. Isolated cases of anaphylactic shock have been reported.

Thrombocytopenia

There have been post-marketing reports of thrombocytopenia, particularly during treatment with Sandostatin (i.v.) in patients with liver cirrhosis. The thrombocytopenia was reversible after discontinuation of treatment.

Administration-site reactions

Local reactions to Sandostatin include paraesthesia, pain, stinging or burning at the site of s.c. injection with redness and swelling. Such In rare instances, gastrointestinal adverse symptoms do not normally last more than 15 minutes and can be attenuated by allowing the Sandostatin solution to reach room temperavolume in a more concentrated solution.

reotide are listed below by MedDRA system organ class and frequency. The frequency is ranked using the following convention: Very common ($\geq 1/10$), common ($\geq 1/100$ to <1/10), uncommon ($\ge 1/1,000$ to <1/100), rare ($\geq 1/10,000$ to <1/1,000), very rare (<1/10.000), not known (primarily based on spontaneous post-marketing reports; precise

Blood and lymphatic system disorders Not known: Thrombocytopenia.

ported in cancer patients receiving s.c. doses nary excretion of 5-hydroxyindole acetic acid. GRFomas Not known: Hypersensitivity reactions (includof 3,000 to 30,000 µg Sandostatin per day in It is recommended that treatment be discon. This is a rare type of tumour that produces divided doses.

Immune system disorders

Endocrine disorders

decreased free T4).

ing anaphylactoid reactions).

Metabolism and nutrition disorders

tolerance, decreased appetite.

Very common: Headache (12.4%).

Uncommon: Dehydration.

Common: Dizziness.

Common: Bradycardia

Common: Dyspnoea.

Uncommon: Tachycardia

Not known: Arrhythmias.

Gastrointestinal disorders

(14.2%), constipation (12.7%).

Unknown: acute pancreatitis

Very common: Cholelithiasis (12.0%).

Hepatobiliary disorders

rubinaemia, cholecystitis.

Cardiac disorders

Nervous system disorders

Very common: Hyperglycaemia (10.8%).

Common: Hypothyroidism, thyroid dysfunction

(e.g. decreased TSH, decreased total T4 and

Common: Hypoglycaemia, impaired glucose

Respiratory, thoracic and mediastinal disor-

Very common: Diarrhoea (26.1%), abdomi-

nal pain (24.2%), nausea (14.3%), flatulence

Common: Dyspepsia, vomiting, abdominal

distension, steatorrhoea, discoloured faeces.

Common: Increased transaminases, hyperbili-

Not known: Increased blood alkaline phospha-

tase, increased gamma glutamyl transferase

jaundice, cholestasis, cholestatic jaundice,

The management of overdosage is symptom

Properties/Actions

Treatment

ATC code: H01CB02

Mechanism of action/Pharmacodynamics Sandostatin is a synthetic octapeptide derivasimilar pharmacological effects but a considsystem

In animals, octreotide is a more potent inhiband glucagon suppression.

In healthy volunteers Sandostatin has been shown to inhibit:

GH release in response to arginine, exercise, or insulin-induced hypoglycaemia.

gon in response to arginine. release of thyroid-stimulating hormone (TSH) in response to thyrotropin-releasing resulting in weight gain. Sandostatin frequenthormone (TRH).

In contrast to somatostatin, octreotide inhibits does not cause rebound hypersecretion of hormones (e.g. GH in acromegalic patients). cholestatic hepatitis, acute hepatitis with In acromegalic patients, Sandostatin lowers plasma levels of GH and IGF-1. These levels Treatment with proton pump inhibitors or

treatment (surgery, hepatic artery embolisa-

orouracil]), suffer from severe tumour-related

Skin and subcutaneous tissue disorders Common: Pruritus, skin rash, alopecia. Not known: Urticaria. about half of the cases.

General disorders and administration site con-

Very common: Injection site reactions (10 to 30% depending on the dose and injection interval, e.g. pain, paraesthesia, erythema). Common: Asthenia

cholestasis

A limited number of accidental overdoses of Sandostatin have been reported in adults and eficial effect on various clinical features by tumour (e.g. flush) may also respond. children. In adults, the doses ranged from virtue of its wide spectrum of endocrine activ-2,400 to 6,000 µg/day, administered by ity. Sandostatin may bring about appreciable levels in some patients. continuous infusion (100 to 250 µg/hour) or improvement in patients who, despite other subcutaneously (1.500 ug t.i.d.). The symptoms reported were arrhythmia, hypotension. cardiac arrest, brain hypoxia, pancreatitis, hepatitis steatosis, diarrhoea, weakness, lethargy, weight loss, hepatomegaly and lactic

In children, the doses ranged from 50 to tumours 3.000 ug/day, administered by continuous inonly reported adverse effect.

No unexpected adverse effects have been re- be a fall in plasma serotonin and reduced uri- ing insulin.

apeutic efficacy.

overproduction of vasoactive intestinal peptide (VIP).

cases by treatment with Sandostatin with contive of naturally occurring somatostatin, with sequent improvement in quality of life. Fluid and electrolyte disturbances (e.g. hypokalae- In patients undergoing pancreatic surgery, erably longer duration of action. It inhibits the mia) associated with this diarrhoea also imperiand post-operative Sandostatin reduces pathologically increased secretion of growth prove, so that enteral and parenteral fluid and the incidence of typical post-operative comhormone (GH) and of peptide hormones of electrolyte replacement can be withdrawn. the gastroenteropancreatic (GEP) endocrine CT scan has indicated slowing or arrest of tumour growth – or even shrinkage – in some creatitis). patients, particularly those with liver metastaitor of GH, glucagon and insulin release than ses. Clinical improvement is usually accompasomatostatin is, with greater selectivity for GH nied by reduction – or even normalisation – of nlasma VIP levels

Glucagonomas

continue to improve.

In most cases, there is substantial improvement in the necrotic migratory rash which is characteristic of this condition. Sandostatin postprandial release of insulin, glucagon, has little effect on the slight diabetes mellitus gastrin and other peptides of the GEP sys- to which glucagonoma patients are prone, tem and the secretion of insulin and gluca- and there is normally no reduction in the required dosage of insulin or oral hypoglycaemic agents. Diarrhoea, where present, responds, ly brings about an immediate reduction in plasma glucagon. This effect is not sustained GH secretion preferentially over insulin and as treatment continues, although symptoms Absorption

Gastrinomas / Zollinger-Ellison syndrome

Distribution fall by 50% or more in up to 90% of patients. H2-receptor blockers cannot always prevent with a reduction in serum GH to < 5 ng/ml in the recurrent peptic ulceration which results from chronic gastrin-stimulated hypersecre-In most patients, there is a marked improvement in clinical manifestations such as head-rhoea, which may be prominent. In such cases, ache, skin and soft tissue swelling, hyperhidrosis, arthralgia and paraesthesia. In patients with proton pump inhibitors or H_areceptor with a large pituitary adenoma. Sandostatin blockers – may reduce increased gastric acid treatment may result in a degree of tumour secretion and induce an improvement in the clinical manifestations (including diarrhoea) in In patients with functional tumours of the GEP up to 50% of cases. Other manifestations asendocrine system, Sandostatin exerts a ben-sumed to be due to peptide production by the

is normally of short duration (approx. 2 hours). tion in octreotide elimination. In patients with operable tumours, Sandostation Effects of Sandostatin on different types of may be given pre-operatively to help achieve Preclinical data and maintain normoglycaemia. Sandostatin may bring about an improvement in blood-sugfusion (2.1 to 500 µg/hour) or subcutaneously Use of Sandostatin may bring about an imar regulation in a limited number of patients (50 to 100 µg). Mild hyperglycaemia was the provement in symptoms, in particular flush with inoperable benign or malignant tumours, In vivo studies did not show any clastogenic I.v. infusion: Parenteral drugs should be visuand diarrhoea. In some cases, there may also even without a sustained reduction in circulatactivity in the bone marrow of mice treated ally examined for discoloration and particulate

tinued after one week if there is a lack of theror in conjunction with other biologically active peptides. In one of two cases studied, Sandostatin treatment resulted in clinical im-The biochemical feature of these tumours is provement of the resulting symptoms of acromegaly. This effect is probably due to reduced production of GRF and inhibition of GH secre-The condition, which is characterised by setion, possibly accompanied by a reduction in vere secretory diarrhoea, is relieved in most the size of the enlarged pituitary gland.

> Complications following pancreatic surgery plications (e.g. pancreatic fistula, abscess followed by sepsis, acute post-operative pan-

Bleeding gastro-oesophageal varices

A clinical study has shown that use of Sandostatin in combination with sclerotherapy in the management of bleeding gastro-oesophageal varices secondary to cirrhosis resulted in improved control of bleeding and of early rebleeding, a reduction in transfusion requirements and an increase in the rate of survival at day 5. The precise mechanism of action of Sandostatin in this indication remains unclear, although it has been suggested that Sandostatin may inhibit splanchnic blood flow by inhibiting vasoactive hormones such as VIF and glucagon.

Pharmacokinetics

Octreotide is rapidly and completely absorbed

after s.c. injection. Peak plasma concentrations are reached within 30 minutes. Do not use after the expiry date (= EXP) print- for Novartis Pharma AG, Basle, Switzerland

ed on the pack. The volume of distribution is 0.27 litres/ kg and the total body clearance is 160 ml/ Special precautions for storage minute. Plasma protein binding is 65%. The Store in a refrigerator (2 to 8°C). Do not amount of octreotide bound to blood cells is freeze. Protect from light. very small For day-to-day use, the ampoules and vials

tures not above 30°C and 25°C, respectively. The elimination half-life after s.c. administration is 100 minutes. After i.v. injection, the Instructions for use and handling elimination is biphasic, with half-lives of 10 and S.c. administration: The doctor or healthcare 90 minutes. Most of the peptide is eliminated via the faeces, while approximately 32% is exprofessional must give precise instructions to creted unchanged into the urine.

Pharmacokinetics in special populations Renal impairment: Renal impairment had no effect on total exposure (AUC) to subcutaneously administered octreotide

at short intervals at the same site should be tion, chemotherapy [e.g. streptozocin or 5-flu- Although Sandostatin causes a reduction in Hepatic impairment: Cirrhosis of the liver, but circulating immunoreactive insulin, this effect not fatty liver, is associated with a 30% reduc-Ampoules should not be opened until immediately prior to use. Any remaining solution

Mutagenicity

play any mutagenic potential in vitro.

with octreotide i.v. (micronucleus test) or any matter prior to administration.

evidence of genotoxicity in male mice (DNA Sandostatin (octreotide acetate) remains

Carcinogenicity/chronic toxicity

In rats, local tumours were observed at the injection site, a species-specific reaction. They were attributed to disordered fibroplasia produced by sustained irritant effects at the njection sites and exacerbated by the vehicle. Endometrial adenocarcinomas were reported in a carcinogenicity study in rats. The available data clearly indicate that the findings of endocrine-mediated tumours in rats are species-specific and are not relevant for the use of the drug in humans.

Reproductive toxicity Reproductive and development toxicity stud-

ies have been performed in rats and rabbits at doses of up to 1 mg/kg body weight per day. Octreotide did not impair fertility in male and female rats. There was no evidence of teratogenic, embryofetal or other reproduction effects due to octreotide. Some delay in the physiological growth was noted in the offspring of rats which was transient and most likely attributable to GH inhibition brought about by excessive pharmacodynamic activity. In pre- and post-natal development studies. late testicular descent was observed in male offspring of maternal animals treated during pregnancy and lactation. However, the fertility of the F1 offspring was normal. It is assumed that these observations concerning inhibited growth are caused by octreotide.

Other information

themselves by s.c. injection.

reach room temperature. Repeated injection

which is not needed should be discarded.

should not be pierced more than 10 times.

Keep out of the reach of children

Information last revised December 2017

Novartis Pharma AG, Basle, Switzerland

This is a medicament

instructions is dangerous for you.

To reduce injection site pain, it is recommendpharmacist who sold the medicament. ed that the solution for injection be allowed to

> in medicine, its benefits and risks. Do not by yourself interrupt the period of

consulting your doctor.

To avoid contamination, it is recommended that the cap of multiple-dose containers Keep medicaments out of reach of children

> Council of Arab Health Ministers Union of Arab Pharmacists

nfluence glucose homoeostasis. The diluted solutions remain physically and chemically stable for 24 hours at temperatures below 25°C. but they should be used immediately for reasons of microbial purity. The user must store the solution at 2 to 8°C if it is not used immediately. The solution must be allowed to reach room temperature before administration. The total time between reconstitution, dilution with infusion media, storage in a refrigerator and completion of administration must not exceed In cases where Sandostatin is administered intravenously, the contents of one 0.5 mg ampoule are normally dissolved in 60 ml phys-

iological saline and the resulting solution is in-

fused using an infusion pump. This procedure

is maintained until the end of the prescribed

duration of treatment. Sandostatin has also

physically and chemically stable for 24 hours

in sterile physiological saline or a sterile 5%

dextrose solution (glucose). Nevertheless, the

use of physiological saline rather than glucose

is recommended because Sandostatin can

Pack sizes

1 ml ampoules: Packs containing five 0.05 mg/ml ampoules. 1 ml ampoules: Packs containing five 0.1 mg/

been infused at lower concentrations.

ml ampoules. 1 ml ampoules: Packs containing five 0.5 mg/

ml ampoules. 5 ml vials containing 0.2 mg/ml: Packs of

Not All Pack Sizes are Marketed

Manufacturer: Novartis Pharma Stein AG, Stein, Switzerland

may be stored for up to 2 weeks at tempera-

 A medicament is a product which affects vour health, and its consumption contrary to

patients who will be administering the drug to - Follow strictly the doctor's prescription, the method of use and the instructions of the

The doctor and the pharmacist are experts

treatment prescribed for you. Do not repeat the same prescription without