Active substances

Castro-resistant tablets: Diclofenas sodium (phenylacetic acid derivative) Prolonged release tablets (Voltaren Retard): Diclofenas sodium (pheny lacetic acid derivative)

Oral drops: Diclofenac resinate equivalent to diclofenac sodium

Gastro-resistant tablets

Core for 25 mg and 50 mg; Cellulose microcrystalline; lactose mono-

Coating for 25 mg: hypromellose: iron oxide vellow (F172): macrogomacrogol 8000: talc: titanium dioxide (E171): Simeticone: alpha-octade cyl-omega-hydroxy-polyglykolether: sorbic acid.

Prolonged-release tablets:

bon black. Shellac. Ammonium hydroxide. Simethicone

henzene (Zerolite 236 SRC 48) washed: tutti-frutti flavour Information might differ in some countries.

| | Socium content per unit |
|--------------------------------------|--|
| 25 mg gastro-resistant coated tablet | 2.355 mg/gastro-resistant coated tablet |
| 50 mg gastro-resistant coated tablet | 4.16 mg/gastro-resistant coated tablet |
| 75 mg prolonged-release tablet | 5.415 mg/prolonged-release tablet |
| 100 mg prolonged-release tablet | 7.22 mg/prolonged-release tablet |
| 12.5 mg/1 g suppositories | 0.91 mg/suppository |
| 25 mg/1 g suppositories | 1.81 mg/suppository |
| 50 mg/2 g suppositories | 3.62 mg/suppository |
| 100 mg/2 g suppositories | 7.23 mg/suppository |
| Drops | 1.86 mg/ml equivalent to 0.06 mg/gtt. |

Pharmaceutical form and quantity of active substance per unit

Suppositories containing 12.5 mg/25 mg/50 mg/100 mg Oral drops equivalent to 15 mg diclofenac sodium per (1 drop = 0.5 mg diclofenac sodium)

Indications/Potential uses

Non-articular rheumatism

Painful post-traumatic and post-operative inflammation and swelling, e.g. following dental or orthopaedic surgery.

menorrhoea or adnexitis.

As an adjunct in acute painful inflammatory infections of the ear, nose or throat, e.g. pharyngotonsillitis, otitis (gastro-resistant tablets, suppositories oral drops)

Sunnositories: Diclofenac sodium (phenylacetic acid derivative) not an indication

hydrate; magnesium stearate; maize starch; povidone; silica, colloidal anhydrous: sodium starch glycolate (type A):

glycerol hydroxystearate: Methacrylic acid - ethyl acrylate copolymer:

Coating for 50 mg: hypromellose; iron oxide red (E172); iron oxide yel low (E172): macrogoglycerol hydroxystearate: Methacrylic acid - ethyl acrylate copolymer: macrogol 8000; talc; titanium dioxide (E171); Simeticone; alpha-octadecyl-omega-hydroxy-polyglykolether; sorbic acid.

Tablet core: Cetyl alcohol: magnesium stearate: povidone: silica: colloidal

anhydrous: sucrose: Tablet coating: hypromellose: iron oxide red (F172): macrogol 8000 polysorbate 80; sucrose; talc; titanium dioxide (E171); Printing ink: Car-

Suppositories: Hard fat.

Castor oil, hydrogenated powder; paraffin liquid; saccharin sodium; conolymer of acrylic and methacrylic acid with divinylbenzene and ethylvinyl

Sodium content per dosage unit

| | Sodium content per unit |
|--------------------------------------|--|
| 25 mg gastro-resistant coated tablet | 2.355 mg/gastro-resistant coated tablet |
| 50 mg gastro-resistant coated tablet | 4.16 mg/gastro-resistant coated tablet |
| 75 mg prolonged-release tablet | 5.415 mg/prolonged-release tablet |
| 100 mg prolonged-release tablet | 7.22 mg/prolonged-release tablet |
| 12.5 mg/1 g suppositories | 0.91 mg/suppository |
| 25 mg/1 g suppositories | 1.81 mg/suppository |
| 50 mg/2 g suppositories | 3.62 mg/suppository |
| 100 mg/2 g suppositories | 7.23 mg/suppository |
| Drops | 1.86 mg/ml equivalent to |

Gastro-resistant tablets containing 25 mg/50 mg Prolonged release tablets containing 75 mg/100 m

Voltaren is contraindicated in patients with hepatic failure (see "Contraindications").

Inflammatory and degenerative forms of rheumatism: rheumatoid arthritis, juvenile rheumatoid arthritis, ankylosing spondylitis, osteoarthritis including spondylarthritis

Painful condromes of the vertebral column

Painful and/or inflammatory gynaecological conditions, e.g. primary dys-Migraine attacks (suppositories).

Acute attacks of gout (gastro-resistant tablets, suppositories, oral drops)

No adjustment of the starting dose is generally required for elderly pa-In keeping with standard therapeutic principles, the underlying disease

should be treated with specific therapy as appropriate. Fever alone is

Dosage/Administration

As a general recommendation, the dose should be individually adjusted Adverse effects may be minimised by using the lowest effective dose for the shortest duration necessary to control symptoms (see "Warnings and precautions")

Hsual dosage

Gastro-resistant tablets sunnositories

The starting dose for Voltaren gastro-resistant tablets and Voltaren supnositories is usually 100-150 mg/day. In milder cases and for long-term herapy, 75-100 mg/day are normally sufficient. The total daily amount is generally given in 2-3 divided doses. In order to

avoid nocturnal pain and morning stiffness, treatment with the gastro-resistant tablets during the daytime can be supplemented by the administration of a suppository at hedtime (up to a maximum daily dose of 150 mg). In primary dysmenorrhoea, the daily dosage should be individually adusted and is generally 50-150 mg/day. Treatment should be started at 100 mg/day and, if necessary, may gradually be increased over the course of several menstrual cycles to a maximum of 150 mg/day.

before meals: they must not be divided or chewed. The suppositories should be inserted well into the rectum, preferably after

a bowel movement. Treatment of migraine attacks with Voltaren suppositories should be started with a dose of 100 mg at the first sign of an impending attack. Additional suppositories up to a maximum of 50 mg may be taken on the same day, if required. If further treatment is required on the following day, the maximum daily dosage should be limited to 150 mg, given in

Prolonged release tablets

The usual daily dose of Voltaren Retard is 100-150 mg, i.e. one 100 mg prolonged release tablet, or two 75 mg prolonged release tablets. In milder cases and for long-term therapy, one 75 mg or 100 mg prolonged release tablet ner day is normally sufficient. If symptoms are most pronounced at night or in the morning, the tablets should preferably be taken in the evening. The prolonged release tablets should be swallowed whole with liquid. preferably with meals.

Special dosage instructions Established cardiovascular disease or significant cardiovascular risk

Treatment with Voltaren is generally not recommended in natients with

established cardiovascular disease or uncontrolled hypertension. If needed natients with established cardiovascular disease uncontrolled hypertension or significant risk factors for cardiovascular disease should be treated with Voltaren only after careful consideration, and only at doses of up to 100 mg daily if treated for more than 4 weeks (see "Warnings and precautions")

Patients with hepatic impairment

No specific studies have been carried out in nations with henatic impair. ment: therefore no specific dose adjustment recommendations can be made. Caution is advised when administering Voltaren to natients with mild to moderate hepatic impairment (see "Warnings and precautions").

Patients with renal impairment Voltaren is contraindicated in patients with renal failure (GFR <15 ml/ min/1 73 m²· see "Contraindications")

No specific studies have been carried out in patients with renal impairment; therefore, no specific dose adjustment recommendations can be made. Caution is advised when administering Voltaren to patients with renal impairment (see "Warnings and precautions"). Fldarly nationts

tients. However, caution is indicated on basic medical grounds, especially for frail elderly patients or those with a low body weight (see "Warnings

Children and adolescents Voltaren oral drops are particularly suitable for paediatric use since they enable the dosage to be individually tailored to hody weight within the recommended range (1 drop = 0.5 mg).

For adolescents and for children aged 1 year or older the daily dosage depending on the severity of the disorder, is 0.5 to 2 mg/kg body weight. given in 2-3 divided doses. For the treatment of juvenile rheumatoid arthritis, the daily dosage can be increased up to a maximum of 3 mg/kg hody weight, given in several divided doses

The maximum daily dose of 150 mg should not be exceeded The bottle containing the suspension should always be shaken thoroughly

hefore the drons are administered Oltaren must not be given to children under 1 year of age Voltaren 50 mg gastro-resistant tablets and Voltaren 50 mg and 100 mg suppositories are not recommended for use in children due to their dos-

Voltaren 25 mg gastro-resistant tablets may be used in these patients. Voltaren 75 mg and 100 mg prolonged release tablets are not suitable for children and adolescents

Voltaren 12.5 mg or 25 mg suppositories are recommended for use in children and adolescents below 14 years of age. Due to their dosage The gastro-resistant tablets should be swallowed with liquid, preferably strength, Voltaren 50 mg suppositories are not recommended in children and adolescents below 14 years of age. Voltaren 100 mg suppositories

Contraindications Hypersensitivity to the active substance or to any of the excipients ind

Sunnositories: Proctitis

are not suitable for children and adolescents.

cated under "Composition" A history of bronchospasm, angioedema, urticaria, acute rhinitis, nasal polyps or allergy-like symptoms after taking acetylsalicylic acid or other

non-steroidal anti-inflammatory drugs Third trimester of pregnancy (see "Pregnancy/Breast-feeding"). Active gastric and/or duodenal ulcers, gastrointestinal bleeding or perforation Inflammatory bowel disease (such as Crohn's disease or ulcerative colitis)

Severe heart failure (NYHA III-IV). Treatment of post-operative pain after coronary bypass surgery (or use of a heart-lung machine)

General warning for the use of systemic non-steroidal anti-inflammatory drugs

risk-benefit assessment must be carried out prior to using diclofenac in nationts with clinically confirmed coronary heart disease, carebroyascular disorders, peripheral arterial occlusive disease or considerable risk factors (e.g. hypertension, hyperlinidaemia, diabetes mellitus, smoking). Due to this risk, too, the lowest effective dose should be given for the shortest

noccible duration of treatment he renal effects of NSAIDs include fluid retention with oedema and/or artarial hypertension. For this reason, dislofenas should be used with caution n patients with cardiac impairment and other conditions that predispose to fluid retention. Caution is also indicated in nationts who take concomitant diuretics or ACE inhibitors, or who are at increased risk of hypovolaemia. The consequences are generally more serious in the elderly. If gastrointestinal bleeding or ulceration occurs in patients undergoing treatment

Cutonanue reaction

with Voltaren, the medicinal product chould be withdrawn

Serious skin reactions, some of them fatal, including exfoliative dermatitis. Stevens-Johnson syndrome and toxic epidermal necrolysis, have been reported very rarely in association with the use of NSAIDs, including Voltaren (see "Adverse effects"). Patients appear to be at highest risk at the start of treatment, with the onset of the reaction usually occurring within the first month of treatment. Voltaren should be discontinued at the first sign of rash, mucosal lesions or any other sign of hypersensitivity. As with other NSAIDs, allergic reactions - including anaphylactic/anaphylactoid reactions - may occur in rare cases, even without prior exposure to diclofense

Masking signs of infection

creases (> 8 times the upper limit of normal) remained around 1%. Flevat may mask the signs and symptoms of infection. ed liver enzyme levels were accompanied by clinically manifest liver dam-

calls for regular monitoring of liver enzyme levels. vgenase-2 selective inhibitors should be avoided due to the potential for Voltaren Woltaren Retard should be discontinued if abnormal liver function additive adverse effects (see "Interactions") tests persist or worsen, if clinical signs or symptoms suggestive of liver Caution is required in elderly patients on basic medical grounds. In particdisease develop or if other manifestations occur (e.g. ensinophilia rash)

ular, it is recommended that the lowest effective dosage be used in frail elderly natients or those with a low body weight. Voltaren gastro-resistant tablets contain lactose. Patients with rare hereditary galactose intolerance, severe lactase deficiency or glucose-galactose malabsorption should not take Voltaren gastro-resistant tablets Voltaren Retard tablets contain sucrose and are therefore not recomsince it may trigger an attack.

mended in patients with rare hereditary problems of fructose intolerance, glucose galactose malabsorption or sucrase isomaltase deficiency Owing to the importance of prostaglandins in maintaining renal blood flow. is medicine contains less than 1 mmol (23 mg) of sodium per dosage prolonged treatment with high doses of NSAIDs, including diclofenac, freunit (coated tablet, prolonged-release tablet and drops), making it pracquently (1-10%) results in oedema and hypertension. Particular caution is tically "sodium-free"

cause stomach upset and diarrhoea.

Henatic failure (Child-Pugh class C) (cirrhosis of the liver and ascites) Renal failure (GFR <15 ml/min/1.73 m²) Resniratory effects (pre-existing asthma)

Warnings and precautions

Gastrointestinal ulceration, bleeding or perforation may occur at any time. during treatment with non-steroidal anti-inflammatory drugs (NSAIDs whether COX-2 selective or not, even in the absence of warning symptoms or a predisposing history. To minimise this risk, the lowest effective dose should be given for the shortest possible duration of treatment. Placeho-controlled studies have shown an increased risk of thromhotic cardiovascular and cerebrovascular complications with certain COX-2 selective inhibitors. It is not yet known whether this risk correlates directly with the COX-1 / COX-2 selectivity of individual NSAIDs. As no comparable clinical study data are available at present for long-term treatment with the maximum dosage of diclofenac, the possibility of a similarly elevated Treatment should be initiated and maintained at the lowest effective dose in order to reduce the risk of GI toxicity in natients with a history of ulcers (particularly if complicated by bleeding or perforation) and in

Combination therapy with protective agents (e.g. proton numn inhibitors or misoprostol) should be considered for these patients and also for patients requiring concomitant use of low-dose acetylsalicylic acid (ASA) or other drugs likely to increase gastrointestinal risk

NSAIDs, including diclofenac, can be associated with an increased risk of a

gastrointestinal anastomosis leak. Caution is required with the use of Voltaren

clinical symptoms. Most of these cases involve borderline increases

Frequently (in 2.5% of cases) the increases observed were moderate (> 3

to < 8 times the unper limit of normal), while the incidence of marked in-

age in 0.5% of cases in the above-mentioned clinical studies. Flevated

enzyme levels were generally reversible after discontinuation of the drug.

required in patients with impaired cardiac or renal function, in patients with

a history of hypertension, in elderly patients, in patients receiving con-

cantly impact renal function, and in natients with substantial extracellular

volume depletion from any cause, e.g. before or after major surgery (see

contraindications"). Monitoring of renal function is recommended as a

comitant treatment with digretics or medicinal products that may signi

Patients with a history of GI toxicity, particularly elderly patients, should report any unusual abdominal symptoms (especially GI bleeding). Caution is required in natients receiving concomitant medications which could increase the risk of ulceration or bleeding such as systemic continuate tion. Patients with coagulation disorders should be closely monitored. roids, anticoagulants, antiplatelet agents or selective serotonin reuntake inhihitors (see "Interactions")

tard to patients with hepatic impairment, as their condition might be exacerbated (see "Adverse effects"). As with all NSAIDs, including diclofenac, levels of one or more liver enzymes may rise during treatment with Voltaren / Voltaren Retard. This has been observed very frequently with diclofenac in clinical studie (in approximately 15% of patients), but is very rarely accompanied by

Its pharmacodynamic properties mean that like other NSAIDs diclofenac

Precautions

As with other NSAIDs, long-term treatment with Voltaren / Voltaren Retar The concomitant use of Voltaren with systemic NSAIDs including cycloox-

In addition to elevated liver enzymes, there have been rare reports of severe hepatic reactions, including jaundice and fulminant hepatitis, hepati necrosis and henatic failure which in isolated cases, had a fatal outcome Hepatitis may develop without prodromal symptoms. Caution is required when using Voltaren/Voltaren Retard in patients with hepatic porphyria.

Voltaren coated tablets contain poly(oxyethylene)-40 castor oil and may Voltaren drops contain hydrogenated castor oil and may cause stomach

upset and diarrhoea.

In patients with asthma, seasonal allergic rhinitis, swelling of the nasal precautionary measure when using Voltaren in such cases. Patients usual mucosa (i.e. nasal polyps), chronic obstructive pulmonary diseases or ly recover to their pre-treatment state following discontinuation of therapy. chronic infections of the respiratory tract (especially if linked to allergic ardinvascular effects rhinitis-like symptoms), reactions to NSAIDs such as asthma exacerbareatment with NSAIDs including diclofenac, particularly at high doses and for tions (analgesic intolerance or analgesic-induced asthma), Quincke's prolonged periods, may be associated with a slightly increased risk of serious nedema or urticaria are more frequent than in other natients. Therefore ardiovascular thrombotic events (including myocardial infarction and stroke). particular caution is required in such patients (emergency readiness). This Treatment with Voltaren is generally not recommended in natients with also applies to patients with allergic reactions - e.g. rash, pruritus or established cardiovascular disease (heart failure, established ischaemi urticaria - to other substances. heart disease, peripheral arterial disease) or uncontrolled hypertension.

If needed, patients with established cardiovascular disease, uncontrolled As with all NSAIDs, including diclofenac, close medical surveillance is rehypertension or significant risk factors for cardiovascular disease (e.g. quired and particular caution should be exercised when prescribing Voltarhunertension hunerlinidaemia diahetes mellitus and smoking) should he en in patients with symptoms indicative of gastrointestinal (GI) disorders treated with Voltaren only after careful consideration and only at doses of or with a history suggestive of gastric or intestinal ulceration, bleeding or up to 100 mg daily if treated for more than 4 weeks perforation (see "Adverse effects"). The risk of GI bleeding is greater with As the cardiovascular risks of diclofenac may increase with dose and higher NSAID doses and in patients with a history of ulcers (particularly if duration of exposure, the lowest effective daily dose should be used for complicated by bleeding or perforation) and in elderly patients. the shortest duration possible. The patient's need for symptomatic relief

and response to therapy should be re-evaluated periodically, especially when treatment continues for more than 4 weeks

Patients should remain alert for the signs and symptoms of serious arterial thromboembolic events (e.g. chest pain, shortness of breath, weakness, slurring of speech), which can occur without warning. Patients should be instructed to see a physician immediately in case of

As with other NSAIDs, complete blood counts are recommended during ong-term treatment with Voltaren / Voltaren Retard. Like other NSAIDs, diclofenac may temporarily inhibit platelet aggrega-

and/or other dosage forms of diclofenac

after gastrointestinal surgery and close medical monitoring is recommended. Observed interactions to be considered Close medical surveillance is required when giving Voltaren / Voltaren Re-

> CYP2C9 inducers Caution is required when co-administering diclofenac with CYP2C9 inducers (such as rifamnicin). This could result in a significant decrease in plasma concentration and exposure to diclofenac

The following interactions were observed with Voltaren / Voltaren Retard

nzume inhihitore CVD2CQ inhihitore

Caution is required when co-administering diclofenac with CYP2C9 inhibitors (such as unriconazole). This could result in a significant increase in peak plasma concentrations and exposure to diclofenac.

Diclofenac may increase plasma concentrations of co-administered lithi-

nancy and/or embryofetal development. Data from epidemiological studum. Monitoring of serum lithium levels is recommended ies suggest an elevated risk of miscarriage and of cardiac malformation and gastroschisis following administration of a prostaglandin synthetase Diclofenar may increase plasma concentrations of co-administered dignyinhibitor during early pregnancy. The risk is assumed to rise with the dose

in. Monitoring of serum digoxin levels is recommended. Diviretics and antihypertensive agents

As with other NSAIDs, co-administration of diclofenac may reduce the antihypertensive effects of digretics or antihypertensive agents (e.g. beta blockers, angiotensin-converting-enzyme (ACE) inhibitors). The combination should therefore be administered with caution, and patients - esnecially elderly natients - should have their blood pressure monitored regularly. Patients should be adequately hydrated, and attention should he naid to monitoring renal function on initiating combination therapy and regularly thereafter, particularly with digretics and ACE inhibitors due to the increased risk of nephrotoxicity (see "Warnings and precautions")

losporin and tacrolimus Diclofenac, like other NSAIDs, may increase the nephrotoxicity of ciclosporin and tacrolimus due to the effect on renal prostaglandins. It should therefore he given at doses lower than those that would be used in natients not receiving ciclosporin or tacrolimus.

Irus known to cause hyperkalaemia

oncomitant treatment with potassium-sparing diuretics, ciclosporin, acrolimus or trimethoprim may be associated with increased plasma notassium levels, which should therefore he monitored frequently (see "Warnings and precautions")

luinolone antihiotics here have been isolated reports of convulsions that may have been due to concomitant use of quinolones and NSAIDs

Anticinated interactions to be considered Other NSAIDs and corticosteroids

effects (see "Warnings and precautions").

Anticoagulants and antiplatelet agents Caution is required since co-administration could increase the risk of bleeding (see "Warnings and precautions").

Concomitant administration of diclofenac with other systemic NSAIDs or

corticosteroids may increase the frequency of gastrointestinal adverse

Although clinical investigations do not appear to indicate that diclofenac afects the action of anticoagulants, there have been reports of an increased out (see "Preclinical data"). The relevance of this finding for humans is unclear. risk of bleeding in patients receiving diclofenac and anticoagulants con-

comitantly. Close monitoring of such patients is therefore recommended. Effects on the ability to drive and to use machines Patients experiencing visual disturbances, light-headedness, dizziness, Selective serotonin reuntake inhihitors (SSRIs) drowsiness or other central nervous system disturbances while taking Co-administration of systemic NSAIDs, including diclofenac, and SSRIs may in-Voltaren / Voltaren Retard should refrain from driving or using machines. crease the risk of gastrointestinal bleeding (see "Warnings and precautions"

Anti-diabetic agents

following administration of disloteness requiring adjustment of the document

the anti-diabetic agent. For this reason, monitoring of blood glucose levels

There have also been isolated reports of metabolic acidosis when di-

Caution is required when NSAIDs, including diclofenac, are administered les

levels of methotrevate may rise, and methotrevate toxicity may increase

than 24 hours before or after treatment with methotrexate because blood

Monitoring of phenytoin plasma concentrations is recommended if phe-

nytoin is used concomitantly with diclofenac due to an expected increase

Inhibition of prostaglandin synthesis may have a negative impact on preg-

During the first and second trimesters of pregnancy, diclofenac should

pregnancy, the dose should be kept as low - and the duration of treat-

Diclofenac is contraindicated during the third trimester of pregnancy. A

cardiopulmonary toxicity (with premature closure of the ductus arteriosus

possible prolongation of bleeding time, an effect of inhibition of platele

As with other NSAIDs, small amounts of diclofenac pass into the breast

Diclofenac may impair female fertility and is therefore not recommended

and pulmonary hypertension, also see "Preclinical data"):

- expose the mother and child to the following risks

not be given unless absolutely necessary. If diclofenac is used by a worr

an attempting to conceive, or during the first or second trimesters of

clofenac was co-administered with metformin, especially in patients with

is recommended as a precautionary measure during combination therapy

pre-existing renal impairment.

in exposure to phenytoin.

Pregnancy/Breast-feeding

and the duration of therapy

sis (see "Preclinical data")

ment as short - as nossible

prostaglandin synthetase inhibitors may:

- expose the fetus to the following risks:

resulting in delayed or prolonged labour.

switched to bottle feeding.

being tested for infertility.

First/second trimester

Methotrevate

Advarca affacts Clinical studies have shown that diclofenac can be given together with oral The following adverse effects include those reported with Voltaren/ anti-diabetic agents without influencing their clinical effect. However, there have Voltaren Retard and/or other dosage forms of diclofenac during either been isolated reports of both hypoglycaemic and hyperglycaemic reactions

Very common (≥1/10); common (≥1/100 to <1/10); uncommon (≥1/1.000 to <1/100); rare (≥1/10.000 to <1/1.000); very rare (<1/10.000).

Very rare: Thrombocytopenia, leucopenia, anaemia (including haemolytic and anlastic anaemia), agranulocytosis. Immune system disorders

Rare: Hypersensitivity, anaphylactic and anaphylactoid reactions (includ examination may be considered to exclude other causes ing hypotension and shock) Very rare: Angioedema (including facial oedema)

Psychiatric disorders Vary rare: Disorientation depression incomnia nightmares irritability nsuchotic disorder

Narunus sustam disordars Common Headache light-headedness

Blood and lymphatic system disorders

Para Compolanca Very rare: Paraesthesia, memory impairment, convulsions, anxiety, tren or, aseptic meningitis, dysgeusia, cerebrovascular accident.

Very rare: Visual disturbances, visual impairment, diplopia Ear and labvrinth disorders

Common: Vertigo. Very rare: Tinnitus, impaired hearing Cardiac disorders

In animals, administration of a prostaglandin synthetase inhibitor has been Uncommon*: Muncardial infarction, heart failure, palnitations, chest pain shown to result in increased pre-implantation and post-implantation loss. Not known: Kounis syndrome and embryofetal lethality. In addition, increased incidences of various mal-Vaccular dicordare formations including cardiovascular malformations have been reported Common: Hypertension in animals given a prostaglandin synthetase inhibitor during organogene-Vary rara: Vacculitie

Respiratory thoracic and mediastinal disorders Rare: Asthma (including dyspnoea) Very rare: Pneumonitis.

Sastrointestinal disorders Common: Nausea, vomiting, diarrhoea, dyspepsia, abdominal pain, flatulence, decreased appetite. Rare: Gastritis, gastrointestinal haemorrhage, haematemesis, haemorrhagic diarrhoea, melaena, gastrointestinal ulcer (with or without bleed-

ing, gastrointestinal stenosis or perforation, which may lead to peritonitis). Suppositories: Proctitis. Very rare: Colitis (including haemorrhagic colitis, ischaemic colitis and exacerbation of ulcerative colitis or Crohn's disease), constination, stomatitis, glossitis, oesophageal disorder, intestinal diaphragm disease. pancreatitis, suppositories; aggravation of haemorrhoids.

renal dysfunction, which may progress to renal failure with oligohydramnios. Voltaren Retard may provoke chronic inflammatory conditions with pseudomembranes and strictures in the lower intestines (small and large intestines). Henatobiliary disorders aggregation even at very low doses; inhibition of uterine contractions. Common: Increased transaminases

Rare: Henatitis, jaundice, henatic dysfunction Very rare: Fulminant hepatitis, hepatic necrosis, hepatic failure. ommon: Rash

milk. As a precaution, diclofenac should therefore not be used by wom-Rare: Urticaria. en who are breast-feeding. If treatment is essential, the infant should be Very rare: Bullous dermatitis, eczema, erythema, erythema multiforme Stevens-Johnson syndrome. Lyell's syndrome (toxic epidermal necrolysis), exfoliative dermatitis, alopecia, photosensitivity reaction, purpura,

Skin and subcutaneous tissue disorders

Henoch-Schoenlein purpura, pruritus,

in women attempting to conceive. Consideration should be given to stop-Renal and urinary disorders ping diclofenac in women who are having difficulty conceiving, or in those Common: Fluid retention, oedema.

Very rare: Acute kidney injury (acute renal failure), haematuria, proteinuria,

tubulointerctitial penhritic penhrotic cundrome, renal panillary pecrosic General disorders and administration site conditions

Rare: Oedema

Signs and symptoms

Properties/Actions

Mechanism of action

Pharmacodynamics

Clinical efficacy

See "Mechanism of action"

swelling and wound oedema.

ATC code:

(150 mg/day)

ommon: Suppositories: local irritation

* The frequency reflects data from long-term treatment with a high dose Meta-analyses of controlled clinical studies and pharmacoepidemiological

data point towards an increased risk of arterial thromboembolic events (for example, myocardial infarction or stroke) associated with the use of diclofenac, particularly at a high dose (150 mg daily) and during long-term treatment (see "Warnings and precautions").

Description of selected adverse effects

Visual disturbances such as visual impairment, blurred vision and diplonia appear to be NSAID class effects and are usually reversible on discontinuation. A likely mechanism for the visual disturbances is the inhibition of prostaglandin synthesis and other related compounds that after the regulation of retinal blood flow resulting in notential changes in vision. If such symptoms occur during diclofenac treatment, an onbthalmological centrations are lower than with the gastro-resistant tablets.

Reporting suspected adverse effects after authorisation of the medicinal Mean peak plasma concentrations of 0.5 µg/ml and 0.4 µg/ml are atproduct is very important. It allows continued monitoring of the risk-benefit ratio of the medicinal product.

ed 24 hours (16 hours) after ingestion of 100 mg (75 mg).

There is no typical clinical picture following diclofenac overdose. Overdose may cause symptoms such as vomiting, gastrointestinal bleeding, plasma levels of approximately 22 ng/ml and 25 ng/ml, respectively. diarrhoea light-headedness tinnitus or convulsions. Acute renal failure and liver damage are possible in the event of severe intoxication. The onset of absorption of diclofenac from suppositories is rapid al-

ic overdose and gastric decontamination (e.g. vomiting gastric lavage)

Voltaren contains the sodium salt of diclofenac, a non-steroidal agent with

pronounced antirheumatic, anti-inflammatory, analysis and antipyretic activity.

Inhibition of prostaglandin biosynthesis has been demonstrated eyneri-

mentally and is considered fundamental to the mechanism of action of

diclofenac. Prostaglandins play a major role in causing inflammation, pain

and fever in vitro at concentrations equivalent to those attained in hu-

mans, Voltaren does not suppress proteoglycan biosynthesis in cartilage.

after ingestion of a potentially life-threatening overdose.

Treatment of acute intoxication with NSAIDs, including diclofenac, essentially consists of supportive measures and symptomatic treatment. Supportive measures and symptomatic treatment should be given for complications such as hypotension, renal failure, convulsions, gastrointestinal disorders and respiratory depression

Specific measures such as forced diuresis, dialysis or haemonerfusion Diclofenac is absorbed completely from the resinate suspension. Absorpare unlikely to be helpful in eliminating NSAIDs, including diclofenac, due tion hegins immediately after administration, but is slower than absorpto their high protein hinding and extensive metabolism tion from gastro-resistant tablets. The amount absorbed is similar, but Activated chargoal may be considered after ingestion of a notentially toy. neak plasma concentrations are only one-third of those achieved following

administration of gastro-resistant tablets. Peak plasma concentrations of approximately 0.5 µg/ml are attained within two hours of oral ingestion of a single dose of oral drops equivalent

to 50 mg diclofenac sodium. Since about half the absorbed diclofenac is metabolised during first hasstudies in monkeys. These are presumably secondary reactions to age through the liver (first-pass effect), the area under the concentration curve (AUC) following oral or rectal administration is about half that following an equivalent parenteral dose

harmacokinetic behaviour does not change with reneated administra tion. No accumulation occurs provided the recommended dosing intervals Additional studies indicate that, with repeated oral doses in rats (> 1 mg/ are observed. Plasma concentrations attained in children after equivalent doses (mg/kg body weight) are similar to those attained in adults.

Diclofenac is 99.7% bound to serum proteins, mainly albumin (99.4%).

consuming breast milk is equivalent to a 0.03 mg/kg/day dose.

The annarent volume of distribution has been calculated at 12-0.17 litres/kg

Diclofenac enters the synovial fluid, where maximum concentrations are

measured 2-4 hours after neak plasma values have been reached. The an In rheumatic diseases, the anti-inflammatory and analgesic properties of parent elimination half-life from the synovial fluid is 3-6 hours. Two hours diclofenac elicit a clinical response characterised by improved function after reaching peak plasma levels, concentrations of the active substance and marked relief of signs and symptoms such as pain at rest, pain on are already higher in the synovial fluid than in the plasma, and they remain movement, morning stiffness and swelling of the joints. In post-traumatic igher for up to 12 hours and post-operative inflammatory conditions. Voltaren rapidly relieves both A low concentration of diclofenac (100 ng/ml) was detected in the breast spontaneous pain and pain on movement, and reduces inflammatory milk of one nursing mother. The estimated amount ingested by an infant

In clinical trials, the product has also been shown to exert a pronounced analgesic effect in moderate and severe pain of non-rheumatic origin. It can relieve the pain, and also reduce bleeding, in primary dysmenorrhoea. Biotransformation of diclofenac is partly by glucuronidation of the intact Voltaren (suppositories) also has a beneficial effect on the symptoms of molecule, but mainly by single and multiple hydroxylation and methoxylation. This results in several phenolic metabolites (3'-hydroxy-, 4'-hydroxy-, migraine attacks.

Pharmacokinatics

Castro-resistant tablets

liclofenac is completely absorbed from the gastro-resistant tablets after their passage through the stomach. Although absorption is rapid, its onset may be delayed due to the gastro-resistant coating of the tablet. Mean neak plasma concentrations of 1.5 µg/ml are attained on average 2 hours after administration of a 50 mg tablet. The tablets pass through the stomach more slowly when innected with or after a meal than when innected before a meal, but the amount of diclofenac absorbed remains the same.

Prolonged release tablets Judged on the basis of the urinary recovery of unchanged diclofenac and

its hydroxylated metabolites, the same amount of diclofenac is released nated as metabolites via the bile in the faeces. and absorbed from Voltaren Retard as from the gastro-resistant tablets However on average the systemic binavailability of diclofenac from Vol-The amount absorbed is in linear proportion to the size of the dose. taren Retard is approximately 82% of that attained with the same dose Pharmacokinatics in special populations of Voltaren administered in the form of gastro-resistant tablets (possibly No relevant age-dependent differences in absorption, metabolism or exdue to release-rate-dependent first-pass metabolism). Owing to the slower cretion have been observed release of the active substance from Voltaren Retard, peak plasma con-

In patients with hepatic impairment (chronic hepatitis or compensated tained on average 4 hours after administration, respectively, of 100 mg circhosis) the pharmacokinetics and metabolism of diclofenac are the or 75 mg prolonged release tablets. Ingestion with food has no notable same as in patients without liver disease. effect on the absorption and systemic bioavailability of Voltaren Retard. On the other hand, mean plasma concentrations of 13 ng/ml are record-Renal impairment

In patients with renal impairment, the drug's single-dose pharmacokinetics Ingestion of 100 mg once daily or 75 mg twice daily produces trough do not suggest any accumulation of unchanged active substance with the usual dosage schedule. In patients with a creatinine clearance of

lites are ultimately cleared via the bile. though the rate of absorption is slower than from orally administered gastro-resistant tablets. On average neak plasma concentrations are Preclinical data attained within 1 hour of administration of 50 mg suppositories, but the neak plasma concentrations per dose unit are about two-thirds of those Preclinical data from safety pharmacology studies, acute and repeated dose toxicity studies and genotoxicity, mutagenicity and carcinogenicity reached following administration of gastro-resistant tablets.

> mans at the intended theraneutic dose The increased incidence of lymphomas (thymus) in mice, and subcutaneous fibromas, fibroadenomas (mammary gland) or C-cell adenomas (thyroid gland) in rats were all within the historical control range of the laboratory for the animal strain used, and are considered to have oc-

<10 ml /min. theoretical steady-state plasma levels of the metabolites

are about 4 times higher than in normal subjects. However, the metabo-

In all toxicity studies carried out in rats, hypertrophy of mesenteric lymph nodes or lymphadenitis with reactive hyperplasia were observed. These changes were accompanied by neutrophilia that was also observed in

the ulcers observed in the gastrointestinal tract. In a two-year study, a dose-dependent increase in thrombotic vascular occlusions in the heart Novartis Pharma AG, Basle, Switzerland was observed in rats treated with diclofenac.

Reproductive toxicity

lesser extent than diclofenac itself.

clofenac has a much longer half-life

Henatic impairment

Total systemic clearance of diclofenac from plasma is 263 ± 56 ml/

metabolites, including the two that are active, also have short half-lives

About 60% of the dose is excreted in the urine as metabolites, compared

with less than 1% as unchanged substance. The rest of the dose is elimi-

kg body weight), diclofenac causes effects that influence fertility (lower testosterone level, and decreased epididymal and testicular weight in association with histopathological changes). Similar effects were also observed in the F1 generation following doses of ≥ 1.25 mg/kg in a two-generation study. In dogs, daily subcutaneous doses of 2 mg/kg diclofenac sodium led to an increased spermatid count. Further studies describe a decreased mating frequency in female rats following a repeated dose of ≥ 0.5 mg/kg diclofenac. For this reason, an influence on both male and female fertility cannot be ruled out.

ticlofenac crosses the placental barrier in rodents. Administration of

with dystocia, prolonged gestation, decreased fetal survival, and intrauter

ine growth retardation in rats. The slight effects of diclofenar on reproduc

tion parameters and delivery as well as closure of the ductus arteriosus in

utero are pharmacological effects of this class of prostaglandin synthetase

inhibitors (see "Contraindications" and "Pregnancy/Breast-feeding").

NSAIDs (including diclofenac) inhibited ovulation in rabbits and implantation and placentation in rats, and led to premature closure of the ductus arterio sus in pregnant rats. Maternally toxic doses of diclofenac were associated

Keep medicaments out of reach of children

Council of Arab Health Ministers Union of Arab Pharmacists

5-hydroxy-, 4', 5-dihydroxy- and 3'-hydroxy-4'-methoxy-diclofenac), most of In a study in mice, teratogenicity (cleft nalate) was observed at the mater which are subsequently converted to glucuronide conjugates. Two of nally toxic dose of 4 mg/kg. In rats and rabbits, doses up to the maternally toxic level did not lead to teratogenic effects. Delayed ossification and these phenolic metabolites are pharmacologically active, but to a much reduced fetal weight in a study in rabbits were the only changes observed in these investigations

At maternally toxic doses, the perinatal and post-natal development of the offspring were impaired (fertility, see above, also birth weight and minute (mean value ± SD). The terminal half-life is 1-2 hours. Four of the delayed post-natal growth).

of 1-3 hours. The virtually inactive metabolite. 3'-hydroxy-4'-methoxy-di-Other information

Do not use after the expiry date (= EXP) printed on the pack Shelf life after opening

Store oral drops in a refrigerator (2-8°C). Do not freeze.

Once opened. Voltaren drops have a proven shelf life of 6 weeks.

Special precautions for storage Keen out of the reach of children

Protect from moisture Suppositories: Do not store above 30°C

Instructions for use and handling

Oral drops: Prior to using the oral drops, hold the bottle in your hands to 2 minutes to bring the suspension to room temperature. Shake thorough ly for 1 minute before opening. Turn the bottle upside down and count out the required number of drops into a spoon Suppositories should not be cut apart, as incorrect storage conditions

Gastro-resistant and prolonged release tablets: Do not store above 30°C

may lead to uneven distribution of the active substance.

25 mg gastro-resistant tablets: 30 and 100. 50 mg gastro-resistant tablets: 20 and 100. 75 mg prolonged-release tablets: 10, 20, 30 and 100. 00 mg prolonged-release tablets: 10, 30 and 100,

.5 mg suppositories: 10. 25 mg sunnositories: 10. studies with diclofenac revealed no evidence of a specific hazard for hu-

50 mg suppositories: 10 and 50 100 mg suppositories: 5 and 50. Oral drops equivalent to 15 mg/ml; 20 ml.

See folding box Information last revised December 2019

@ = registered trademark

This is a medicament A medicament is a product which affects your health, and its consumption contrary to instructions is dangerous for you.

Not All pack sizes and presentations are marketed

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 experts in medicine, its benefits

Do not by yourself interrupt the period of treatment prescribed for you. Do not repeat the same prescription without consulting your doctor.