

Indications/Potential uses
 Inflammatory and degenerative forms of rheumatism: rheumatoid arthritis, juvenile rheumatoid arthritis, ankylosing spondylitis, osteoarthritis including spondylarthritis
 Painful syndromes of the vertebral column.
 Migraine attacks which have not been relieved by other drugs.
 Painful post-traumatic and post-operative inflammation and swelling, e.g. following dental or orthopaedic surgery.
 Painful and/or inflammatory gynaecological conditions, e.g. primary dysmenorrhoea or adnexitis.
 Migraine attacks which occur concomitantly with other diseases.
 Acute attacks of gout (gastro-resistant tablets, suppositories, oral drops).
 As an adjunct in acute painful inflammatory infections of the ear, nose and throat, e.g. pharyngotonsillitis, otitis (gastro-resistant tablets, suppositories, oral drops).
 As a treatment with standard therapeutic principles, the underlying disease should be treated with specific therapy as appropriate. Fever alone is not an indication.

Composition
 Active substances
Gastro-resistant tablets: Diclofenac sodium (phenylacetic acid derivative)
Prolonged release tablets (Voltaren Retard): Diclofenac sodium (phenylacetic acid derivative)
Suppositories: Diclofenac sodium (phenylacetic acid derivative)
Oral drops: Diclofenac resinate, equivalent to diclofenac sodium

Excipients
Gastro-resistant tablets: 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").
Oral drops: Magnesium stearate; maize starch; povidone; silica, colloidal anhydrous; sodium starch glycolate (type A);
Coating for 25 mg: hypromellose; iron oxide yellow (E172); macroglycerol hydroxystearate; Methacrylic acid – ethyl acrylate copolymer; macrogol 8000; talc; titanium dioxide (E171); Simectone; alpha-octadecyl-omega-hydroxy-polyglycol ether; sorbic acid.
Coating for 50 mg: hypromellose; iron oxide red (E172); iron oxide yellow (E172); macroglycerol hydroxystearate; Methacrylic acid – ethyl acrylate copolymer; macrogol 8000; talc; titanium dioxide (E171); Simectone; alpha-octadecyl-omega-hydroxy-polyglycol ether; sorbic acid.

Prolonged-release tablets:
 Tablet core: Cetyl alcohol; magnesium stearate; povidone; silica; colloidal anhydrous; sucrose;
 Tablet coating: hypromellose; iron oxide red (E172); macrogol 8000; polysorbate 80; sucrose; talc; titanium dioxide (E171); Printing ink: Carbon black, Shellac, Ammonium hydroxide, Simectone

Suppositories: Hard fat.
 Oral drops: Castor oil, hydrogenated powder; paraffin liquid; saccharin sodium; copolymer of acrylic and methacrylic acid with divinylbenzene and ethvinylbenzene (Zerolite 236 SRF 48), waxes; butti-frutti flavour.
 Information may differ in some countries.
Sodium content per dosage unit:

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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
 Gastro-resistant tablets containing 25 mg/50 mg
 Prolonged release tablets containing 75 mg/100 mg
 Suppositories containing 12.5 mg/25 mg/50 mg/100 mg
 Oral drops equivalent to 15 mg diclofenac sodium per ml (or 0.5 mg diclofenac sodium)

No specific studies have been carried out in patients with hepatic impairment; therefore, no specific dose adjustment recommendations can be made. Caution is advised when administering Voltaren to patients 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").

Elderly patients
 No adjustment of the starting dose is generally required for elderly patients. However, caution is indicated on basic medical grounds, especially for frail elderly patients or those with a low body weight (see "Warnings and precautions").

Children and adolescents
 Voltaren oral drops are particularly suitable for paediatric use since they enable the dosage to be individually tailored to body 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 body 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 before the drops are administered.

Useful dosage
Adults
Gastro-resistant tablets, suppositories
 The starting dose for Voltaren gastro-resistant tablets and Voltaren suppositories is 50 mg twice daily in 2-3 divided doses and for long-term therapy, 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 bedtime (up to a maximum daily dose of 150 mg).
 In primary dysmenorrhoea, the daily dosage should be individually adjusted and is generally 50-150 mg/day. Treatment should be started at 50-100 mg/day and, if necessary, may gradually be increased over the course of several menstrual cycles to a maximum of 150 mg/day.
 The gastro-resistant tablets should be swallowed with liquid, preferably before meals; they must not be divided or chewed.
 The suppositories should be inserted well into the rectum, preferably after a bowel movement.

Oral drops
 Castor oil, hydrogenated powder; paraffin liquid; saccharin sodium; copolymer of acrylic and methacrylic acid with divinylbenzene and ethvinylbenzene (Zerolite 236 SRF 48), waxes; butti-frutti flavour.
 Information may differ in some countries.
Sodium content per dosage unit:

Contraindications
 Hypersensitivity to the active substance or to any of the excipients indicated 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).
 Hepatic failure (Child-Pugh class C) (cirrhosis of the liver and ascites).
 Renal failure (GFR <15 ml/min/1.73 m²).
 Severe heart failure (NYHA class III/IV).
 Treatment of post-operative pain after coronary bypass surgery or use of a heart/lung machine).
 Suppositories: Proctitis.

Warnings and precautions
General warning for the use of systemic non-steroidal anti-inflammatory drugs:
 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 preceding gastrointestinal history. The lowest effective dose should be given for the shortest possible duration of treatment.
 Placebo-controlled studies have shown an increased risk of thrombotic 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 risk cannot be ruled out. Until such data becomes available, a careful risk/benefit assessment must be carried out prior to using diclofenac in patients with clinically confirmed coronary heart disease, cerebrovascular disorders, peripheral arterial occlusive disease or considerable risk factors (e.g. hypertension, hyperlipidaemia, diabetes mellitus, smoking). Due to this risk, the use of diclofenac should be given for the shortest possible duration of treatment.
 The renal effects of NSAIDs include fluid retention with oedema and/or arterial hypertension. For this reason, diclofenac should be used with caution in patients with cardiac impairment and other conditions that predispose to fluid retention. Caution is also required in patients 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 with Voltaren, the medicinal product should be withdrawn.

Cutaneous reactions
 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 angioedema, anaphylactoid reactions – may occur in rare cases, even without prior exposure to diclofenac.

Masking signs of infection
 Its pharmacodynamic properties mean that, like other NSAIDs, diclofenac may mask the signs and symptoms of infection.
Precautions
General
 The concomitant use of Voltaren with systemic NSAIDs including cyclooxygenase-2 selective inhibitors should be avoided due to the potential for additive adverse effects (see "Interactions").
 Caution is required in elderly patients on basic medical grounds. In particular, it is recommended that the lowest effective dosage be used in frail elderly patients 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 recommended in patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrose-isomaltase deficiency.
 This medicine contains less than 1 mmol (23 mg) of sodium per dosage unit. Patients should be particularly cautious if they are on a low sodium/"sodium-free".
 Voltaren coated tablets contain poly(oxyethylene) and castor oil and may cause stomach upset and diarrhoea.
 Voltaren drops contain hydrogenated castor oil and may cause stomach upset and diarrhoea.

Treatment should be initiated and maintained at the lowest effective dose in order to reduce the risk of GI toxicity in patients with a history of ulcers (particularly if complicated by bleeding or perforation) and in elderly patients.
 Combination therapy with protective agents (e.g. proton pump 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.
 Patients with a history of GI toxicity, particularly elderly patients, should report any unusual abdominal symptoms (especially GI bleeding). Caution is required in patients receiving concomitant medications which could increase the risk of ulceration or bleeding, such as systemic corticosteroids, anticoagulants, antiplatelet agents or selective serotonin reuptake inhibitors (see "Interactions").
 NSAIDs, including diclofenac, can be associated with an increased risk of a gastrointestinal anastomosis leak. Caution is required with the use of Voltaren after gastrointestinal surgery and close medical monitoring is recommended.

Hepatic effects
 Close medical surveillance is required when giving Voltaren / Voltaren Re-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 is usually mild and transient. As with other NSAIDs, allergic reactions including angioedema, anaphylactoid reactions – may occur in rare cases, even without prior exposure to diclofenac.
Cardiac effects
 Caution is required when co-administering diclofenac with CYP2C9 inducers (such as rifampicin). This could result in a significant decrease in plasma concentration and exposure to diclofenac.
Psychiatric disorders
 Very rare: Disorientation, depression, insomnia, nightmares, irritability, psychotic disorder.
Nervous system disorders
 Caution is required when co-administering diclofenac with CYP2C9 inhibitors (such as voriconazole). This could result in a significant increase in peak plasma concentrations and exposure to diclofenac.

Observed interactions to be considered
Enzyme inducers
 CYP2C9 inducers
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Enzyme inhibitors
 CYP2C9 inhibitors
 Caution is required when co-administering diclofenac with CYP2C9 inhibitors (such as voriconazole). This could result in a significant increase in peak plasma concentrations and exposure to diclofenac.
Lithium
 Diclofenac may increase plasma concentrations of co-administered lithium. Monitoring of serum lithium levels is recommended.
Digoxin
 Diclofenac may increase plasma concentrations of co-administered digoxin. Monitoring of serum digoxin levels is recommended.

Diuretics and antihypertensive agents
 As with other NSAIDs, co-administration of diclofenac may reduce the antihypertensive effects of diuretics and antihypertensive agents (e.g. beta blockers, angiotensin-converting-enzyme (ACE) inhibitors). The combination should not take therefore be administered with caution, and especially elderly patients – should have their blood pressure monitored regularly. Patients should be adequately hydrated, and attention should be paid to monitoring renal function on initiating combination therapy, and regularly thereafter, particularly with diuretics and ACE inhibitors due to the increased risk of nephrotoxicity (see "Warnings and precautions").
Ciclosporin and tacrolimus
 Diclofenac, like other NSAIDs, may increase the nephrotoxicity of ciclosporin and tacrolimus due to the effect on renal prostaglandins. It should therefore be given at doses lower than those that would be used in patients not receiving ciclosporin or tacrolimus.

Drugs known to cause hyperkalaemia
 Concomitant treatment with potassium-sparing diuretics, ciclosporin, tacrolimus or trimethoprim may be associated with increased plasma potassium levels, which should therefore be monitored frequently (see "Warnings and precautions").
Quinolone antibiotics
 There have been isolated reports of convulsions that may have been due to concomitant use of quinolones and NSAIDs.

Anticipated interactions to be considered
Other NSAIDs and corticosteroids
 Concomitant administration of diclofenac with other systemic NSAIDs or with corticosteroids may increase the frequency of gastrointestinal adverse 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").

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 such an event.
Haematological effects
 As with other NSAIDs, complete blood counts are recommended during long-term treatment with Voltaren / Voltaren Retard.
 Like other NSAIDs, diclofenac may temporarily inhibit platelet aggregation. Patients with coagulation disorders should be closely monitored.

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Antidiabetic agents
 Clinical studies have shown that diclofenac can be given together with oral antidiabetic agents without influencing their clinical effect. However, there have been isolated reports of both hypoglycaemic and hyperglycaemic reactions following administration of diclofenac, requiring adjustment of the dosage of the antidiabetic agent. For this reason, monitoring of blood glucose levels is recommended as a precautionary measure during combination therapy. There have also been isolated reports of metabolic acidosis when diclofenac was co-administered with metformin, especially in patients with pre-existing renal impairment.

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

Anticipated interactions to be considered
Enzyme inducers
 CYP2C9 inducers
 Caution is required when co-administering diclofenac with CYP2C9 inducers (such as rifampicin). This could result in a significant decrease in plasma concentration and exposure to diclofenac.
Enzyme inhibitors
 CYP2C9 inhibitors
 Caution is required when co-administering diclofenac with CYP2C9 inhibitors (such as voriconazole). This could result in a significant increase in peak plasma concentrations and exposure to diclofenac.
Lithium
 Diclofenac may increase plasma concentrations of co-administered lithium. Monitoring of serum lithium levels is recommended.
Digoxin
 Diclofenac may increase plasma concentrations of co-administered digoxin. Monitoring of serum digoxin levels is recommended.

Diuretics and antihypertensive agents
 As with other NSAIDs, co-administration of diclofenac may reduce the antihypertensive effects of diuretics and antihypertensive agents (e.g. beta blockers, angiotensin-converting-enzyme (ACE) inhibitors). The combination should not take therefore be administered with caution, and especially elderly patients – should have their blood pressure monitored regularly. Patients should be adequately hydrated, and attention should be paid to monitoring renal function on initiating combination therapy, and regularly thereafter, particularly with diuretics and ACE inhibitors due to the increased risk of nephrotoxicity (see "Warnings and precautions").
Ciclosporin and tacrolimus
 Diclofenac, like other NSAIDs, may increase the nephrotoxicity of ciclosporin and tacrolimus due to the effect on renal prostaglandins. It should therefore be given at doses lower than those that would be used in patients not receiving ciclosporin or tacrolimus.
Drugs known to cause hyperkalaemia
 Concomitant treatment with potassium-sparing diuretics, ciclosporin, tacrolimus or trimethoprim may be associated with increased plasma potassium levels, which should therefore be monitored frequently (see "Warnings and precautions").
Quinolone antibiotics
 There have been isolated reports of convulsions that may have been due to concomitant use of quinolones and NSAIDs.

Anticipated interactions to be considered
Other NSAIDs and corticosteroids
 Concomitant administration of diclofenac with other systemic NSAIDs or with corticosteroids may increase the frequency of gastrointestinal adverse 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").

Anticipated interactions to be considered
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 CYP2C9 inducers
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