

SCHEDULING STATUS

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1. NAME OF THE MEDICINE

FENENCE 5 mg Film-coated tablets

FENENCE 10 mg Film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each **FENENCE** 5 mg film-coated tablet contains 5 mg solifenacin succinate.

Each **FENENCE** 10 mg film-coated tablet contains 10 mg solifenacin succinate.

Contains sugar (lactose monohydrate).

Each 5 mg film-coated tablet contains 54,25 mg of lactose monohydrate (see section 4.4).

Each 10 mg film-coated tablet contains 108,5 mg of lactose monohydrate (see section 4.4).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablets

FENENCE 5 mg:

Light yellow, round, biconvex film-coated tablets.

FENENCE 10 mg:

Light pink, round, biconvex film-coated tablets with score line on one side and

plain on the other side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

FENENCE is indicated for the symptomatic treatment of overactive bladder syndrome: symptoms of urinary urgency, frequent micturition and/or urge incontinence.

4.2 Posology and method of administration

Posology

Adults, including the elderly

The recommended dose is 5 mg once daily. If needed, the dose may be increased to 10 mg once daily.

Special populations

Patients with renal impairment

No dose adjustment is necessary for patients with mild to moderate renal impairment (creatinine clearance > 30 mL /min). Patients with severe renal impairment (creatinine clearance ≤ 30 mL /min) should be treated with caution and receive not more than 5 mg once daily.

Patients with hepatic impairment

No dose adjustment is necessary for patients with mild hepatic impairment. Patients with moderate hepatic impairment should be treated with caution and receive not more than 5 mg once daily.

Potent inhibitors of cytochrome P450 3A4

The maximum dose of FENENCE should be limited to 5 mg when treated

simultaneously with ketoconazole or therapeutic doses of other potent CYP3A4-inhibitors e.g. ritonavir, nelfinavir, itraconazole.

Paediatric population

Safety and effectiveness of FENENCE in children have not yet been established. Therefore, FENENCE is not recommended for children.

Method of administration

FENENCE should be taken orally and should be swallowed whole with liquids. It can be taken with or without food, as is convenient.

4.3 Contraindications

- Hypersensitivity to solifenacin or to any of the excipients of FENENCE (see section 6.1)
- Urinary retention.
- Uncontrolled narrow angle glaucoma.
- Myasthenia gravis.
- Toxic megacolon.
- Patients undergoing haemodialysis.
- Patients with severe hepatic impairment.
- Patients with severe renal impairment ($Cl_{cr} < 30$ mL /min) and on treatment with a strong CYP3A4 inhibitor, e.g. ketoconazole (see section 4.5).
- Patients with moderate hepatic impairment and on treatment with a strong CYP3A4 inhibitor, e.g. ketoconazole (see section 4.5).
- Patients with a prolonged QT interval, either congenital or acquired.
- Pregnancy and lactation.

4.4 Special warnings and precautions for use

Other causes of frequent urination (heart failure or renal disease) should be addressed before treatment with FENENCE. If urinary tract infection is present, an appropriate antibacterial therapy should be started.

FENENCE should be used with caution in patients with:

- Significant decompensated bladder outlet obstruction at risk of urinary retention.
- Gastrointestinal obstructive disorders.
- Risk of decreased gastrointestinal motility.
- Severe renal impairment (creatinine clearance \leq 30 mL /min), and doses should not exceed 5 mg for these patients.
- Moderate hepatic impairment (Child-Pugh score of 7 to 9), and doses should not exceed 5 mg for these patients.
- Concomitant use of a potent CYP3A4 inhibitor, e.g. ketoconazole.
- Hiatus hernia/gastro-oesophageal reflux and/or who are concurrently taking medicines (such as bisphosphonates) that can cause or exacerbate oesophagitis.
- Autonomic neuropathy.

QT prolongation and Torsade de Pointes have been observed in patients with risk factors, such as pre-existing long QT syndrome and hypokalaemia (see section 4.3).

Safety and efficacy have not yet been established in patients with a neurogenic cause for detrusor overactivity.

Angioedema with airway obstruction has been reported in some patients on solifenacin. If angioedema occurs, FENENCE should be discontinued and

appropriate therapy and/or measures should be taken.

Anaphylactic reaction has been reported in some patients treated with solifenacin. In patients who develop anaphylactic reactions, FENENCE should be discontinued and appropriate therapy and/or measures should be taken.

The maximum effect of solifenacin can be determined after 4 weeks at the earliest.

Excipients: lactose intolerance

This medicine contains lactose:

Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicines and other forms of interaction

Pharmacological interactions

Concomitant administration with other medicines with anticholinergic properties may result in more pronounced therapeutic effects and side effects. An interval of approximately one week should be allowed after stopping treatment with FENENCE, before commencing other anticholinergic therapy. The therapeutic effect of FENENCE may be reduced by concomitant administration of cholinergic receptor agonists.

FENENCE can reduce the effect of medicines that stimulate the motility of the gastro-intestinal tract, such as metoclopramide and cisapride.

Pharmacokinetic interactions

In vitro studies have demonstrated that at therapeutic concentrations, solifenacin does not inhibit CYP1A1/2, 2C9, 2C19, 2D6, or 3A4 derived from human liver microsomes. Therefore, FENENCE is unlikely to alter the clearance of medicines

metabolised by these CYP enzymes.

Effect of other medicine on the pharmacokinetics of solifenacin

Since solifenacin is metabolised by CYP3A4, pharmacokinetics interactions are possible with other CYP3A4 substrates, inhibitors and inducers.

Ketoconazole and other CYP3A4 inhibitors

Simultaneous administration of ketoconazole (200 mg/day) resulted in a two-fold increase of the AUC of solifenacin, while ketoconazole at a dose of 400 mg/day resulted in a three-fold increase of the AUC of solifenacin. Therefore, the maximum dose of FENENCE should be restricted to 5 mg, when used simultaneously with ketoconazole or therapeutic doses of other potent CYP3A4 inhibitors (e.g. ritonavir, nelfinavir, itraconazole).

Simultaneous treatment of FENENCE and strong CYP3A4 inhibitors is contraindicated in patients with severe renal impairment or moderate hepatic impairment (see section 4.3).

The effects of enzyme induction on the pharmacokinetics of solifenacin and its metabolites have not been studied as well as the effect of higher affinity CYP3A4 substrates on solifenacin exposure. Since solifenacin is metabolised by CYP3A4, pharmacokinetic interactions are possible with other CYP3A4 substrates with higher affinity (e.g. verapamil, diltiazem) and CYP3A4 inducers (e.g. rifampicin, phenytoin, carbamazepine).

Effect of solifenacin on the pharmacokinetics of other medicines

Oral Contraceptives

Intake of solifenacin showed no pharmacokinetic interaction between solifenacin and combined oral contraceptives (ethinyl oestradiol /levonorgestrel), as both are

CYP3A4 substrates.

Warfarin

Intake of solifenacin did not alter the pharmacokinetics of R-warfarin (substrate for CYP3A4) or S-warfarin (substrate for CYP2C9) or their effect on the INR.

Digoxin

Intake of solifenacin showed no effects on the pharmacokinetics of digoxin.

4.6 Fertility, pregnancy and lactation

Pregnancy

FENENCE is contraindicated during pregnancy (see section 4.3).

Foetal toxicity has been shown in rodents.

Breastfeeding

Solifenacin, as in FENENCE is excreted into breast milk. It is contraindicated during lactation (see section 4.3), therefore women taking FENENCE should not breastfeed their infants.

Fertility

Animal studies do not indicate direct harmful effects on fertility, embryonal / foetal development or parturition. The potential risk for humans is unknown.

4.7 Effects on ability to drive and use machines

Since FENENCE may cause blurred vision, somnolence and fatigue (see section 4.8), the ability to drive and use machines may be negatively affected.

Line

Reference

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4.8 Undesirable effects

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Due to the pharmacological effect of solifenacin, FENENCE may cause anticholinergic side effects of mild or moderate severity in general. The frequency of anticholinergic side effects is dose related.

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The most frequently reported adverse reaction with FENENCE was dry mouth. The severity of dry mouth was generally mild.

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System Organ Class	Frequency		
Class	Frequent	Less Frequent	Frequency unknown
Infections and infestations		Urinary tract infection, cystitis	
Nervous system disorders		Somnolence, dysgeusia	
Eye disorders	Blurred vision	Dry eyes	
Respiratory, thoracic and mediastinal		Nasal dryness	

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212	disorders			
213	Gastrointestinal disorders	Dry mouth, constipation, nausea, dyspepsia, abdominal pain.	Gastro-oesophageal reflux diseases, dry throat, colonic obstruction, faecal impaction.	
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216	Skin and subcutaneous tissue disorders		Dry skin	
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219	Renal and urinary disorders		Difficulty in micturition, urinary retention	
220				
221	General disorders and administration site conditions		Fatigue, peripheral oedema	
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223				
224				

Post-marketing data

System Organ Class	Frequency		
	Frequent	Less Frequent	Frequency unknown
Immune system disorders			Anaphylactic reaction

230	Metabolism and			Decreased appetite,
231	nutrition disorders			hyperkalaemia
232	Psychiatric		Hallucinations, confusional state	Delirium
233	disorders			
234	Nervous system		Dizziness, headache	
235	disorders			
236	Eye disorders			Glaucoma
237	Cardiac disorders			Torsade de Pointes,
238				electrocardiogram QT
239				prolonged, atrial
240				fibrillation, palpitations,
241	Respiratory,			tachycardia
242	thoracic and			Dysphonia
243	mediastinal			
244	disorders			
245	Gastrointestinal		Vomiting	Ileus, abdominal
246	disorders			discomfort
247	Hepatobiliary			Liver disorder, liver

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disorders			function test abnormal
Skin and subcutaneous tissue disorders		Pruritus, rash, erythema multiforme, urticaria, angioedema	Exfoliative dermatitis
Musculoskeletal and connective tissue and bone disorders			Muscular weakness
Renal and urinary disorders			Renal impairment

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Reporting of suspected adverse reactions

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Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Health care providers are asked to report any suspected adverse reactions to SAHPRA

266 | via the “6.04 Adverse Drug Reactions Reporting Form”, found online under SAHPRA’s

267 | publications: <https://www.sahpra.org.za/Publications/Index/8>

268 |

269 **4.9 Overdose**

270 **Symptoms**

271 Overdosage with solifenacin succinate can potentially result in severe
272 anticholinergic effects.

273 In the event of overdose with FENENCE, the patient should be treated
274 with activated charcoal.

275 Standard supportive treatment should be applied, as necessary.

276 Symptoms can be treated as follows:

- 277 • Severe central anticholinergic effects such as hallucinations or
278 pronounced excitation: treat with physostigmine or carbachol.
- 279 • Convulsions or pronounced excitation: treat with benzodiazepines.
- 280 • Respiratory insufficiency: treat with artificial respiration.
- 281 • Tachycardia: treat with beta-blockers.
- 282 • Urinary retention: treat with catheterisation.
- 283 • Mydriasis: treat with pilocarpine eye drops and/or place patient in dark
284 room.

285 Specific attention should be paid to patients with known risk for QT-
286 prolongation (i.e. hypokalaemia, bradycardia and concurrent
287 administration of medicines known to prolong QT-interval) and relevant
288 pre-existing cardiac diseases (i.e. myocardial ischaemia, dysrhythmia,
289 congestive heart failure).

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291 **5. PHARMACOLOGICAL PROPERTIES**

292 **5.1 Pharmacodynamic properties**

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294 Pharmacotherapeutic group: Urinary antispasmodics ATC Code: G04B

295 D08

296 Pharmacological classification: A 5.4 Cholinolytics (anticholinergics).

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298 Solifenacin is a competitive, specific cholinergic-receptor antagonist. *In*
299 *vitro* studies demonstrated that solifenacin binds to muscarinic receptors,
300 with high affinity.

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302 **5.2 Pharmacokinetic properties**

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304 **Pharmacokinetic properties**

305 **Absorption**

306 Following the oral administration of solifenacin succinate tablets,
307 maximum solifenacin plasma concentrations (C_{max}) are reached after 3 to
308 8 hours. The t_{max} is independent of the dose. The C_{max} and area under the
309 curve (AUC) increase in proportion to the dose between 5 to 40 mg.

310 Absolute bioavailability is approximately 90 %. Food intake does not
311 affect the C_{max} and AUC of solifenacin.

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313 **Distribution**

314 The apparent volume of distribution of solifenacin following intravenous
315 administration is about 600 L. Solifenacin is largely (approximately 98 %)
316 bound to plasma proteins, primarily α_1 -acid glycoprotein.

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318 **Biotransformation**

319 Solifenacin is extensively metabolised by the liver, primarily by
320 cytochrome P450 3A4 (CYP3A4).

321 However, alternative metabolic pathways exist, that can contribute to the
322 metabolism of solifenacin. The systemic clearance of solifenacin is about
323 9,5 L /h and the terminal half-life of solifenacin is 45 - 68 hours. After oral
324 dosing, one pharmacologically active (4R-hydroxy solifenacin) and three

325 inactive metabolites (N-glucuronide, N-oxide and 4R-hydroxy-N-oxide of
326 solifenacin) have been identified in plasma in addition to solifenacin.

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328 **Elimination**

329 After a single administration of 10 mg [¹⁴C-labelled] - solifenacin, about
330 70 % of the radioactivity was detected in urine and 23 % in faeces over
331 26 days. In urine, approximately 11 % of the radioactivity is recovered as
332 unchanged medicine about 18 % as the *N*-oxide metabolite, 9 % as the
333 4*R*-hydroxy-*N*-oxide metabolite and 8 % as the 4*R*-hydroxy metabolite
334 (active metabolite).

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336 **Linearity/non-linearity**

337 Pharmacokinetics is linear in the therapeutic dose range.

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339 **Special populations**

340 **Age**

341 No dosage adjustment based on patient age is required. Studies in elderly
342 have shown that the exposure to solifenacin, expressed as the AUC, after
343 administration of solifenacin succinate (5 mg and 10 mg once daily) was
344 similar in healthy elderly subjects (aged 65 through 80 years) and healthy
345 young subjects (aged less than 55 years). The mean rate of absorption
346 expressed as t_{max} was slightly slower in the elderly and the terminal half-
347 life was approximately 20 % longer in elderly subjects. These modest
348 differences were considered not clinically significant.

349 The pharmacokinetics of solifenacin has not been established in children.

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351 **Gender**

352 The pharmacokinetics of solifenacin is not influenced by gender.

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354 **Renal impairment**

355 The AUC and C_{max} of solifenacin in mild and moderate renal impaired
356 patients, was not significantly different from that found in healthy
357 volunteers. In patients with severe renal impairment (creatinine
358 clearance ≤ 30 mL /min) exposure to solifenacin was significantly greater
359 than in the controls with increases in C_{max} of about 30 %, AUC of more
360 than 100 % and $t_{1/2}$ of more than 60 %. A statistically significant
361 relationship was observed between creatinine clearance and solifenacin
362 clearance.

363 Pharmacokinetics in patients undergoing haemodialysis has not been
364 studied.

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366 **Hepatic impairment**

367 In patients with moderate hepatic impairment the C_{max} is not affected,
368 AUC increases with 60 % and $t_{1/2}$ doubled. Pharmacokinetics of solifenacin
369 in patients with severe hepatic impairment has not been studied.

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371 **6. PHARMACEUTICAL PARTICULARS**

372 **6.1 List of excipients**

373 Tablet core:

374 Lactose monohydrate

375 Magnesium stearate

376 Maize starch

377 (Maize) starch, (partially) pregelatinised

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379 Film-coating:

380 Ready-to-use mixture consisting of:

381 Hypromellose 2910 (5 mPa*s)
382 Iron oxide red (E172) – FENENCE 10 mg
383 Iron oxide yellow (E172)
384 Macrogol 8000
385 Talc
386 Titanium dioxide (E171)

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388 **6.2 Incompatibilities**

389 Not applicable.

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391 **6.3 Shelf life**

392 36 months

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394 **6.4 Special precautions for storage**

395 Store at or below 30 °C.

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397 **6.5 Nature and contents of container**

398 FENENCE 5 mg and 10 mg film-coated tablets are packed in Transparent
399 PVC /PE /PVDC / Aluminium blisters or packed in Aluminium/ Aluminium
400 blisters. The blisters are subsequently packed into cardboard boxes in
401 pack sizes of 3, 5, 10, 20, 30, 50, 60, 90, 100 or 200 film-coated tablets.

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403 Not all pack sizes may be marketed.

404

405 **6.6 Special precautions for disposal and other handling**

406 No special requirements.

407

408 **7. HOLDER OF CERTIFICATE OF REGISTRATION**

409 Austell Pharmaceuticals (Pty) Ltd
410 1 Sherborne Road
411 Parktown
412 JOHANNESBURG
413 2193
414 South Africa
415 Tel: 0860287835

416

417 **8. REGISTRATION NUMBERS**

418 FENENCE 5 mg: 49/5.4/0329

419 FENENCE 10 mg: 49/5.4/0330

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421 **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE**

422 **AUTHORISATION**

423 19 October 2021

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425 **10. DATE OF REVISION OF THE TEXT**

426 25 December 2021

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