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1 **SCHEDULING STATUS:** S5

2

3 **PROPRIETARY NAME (and dosage form):**

4 **SOLIAN[®] 50 mg** (tablets)

5 **SOLIAN[®] 200 mg** (tablets)

6

7 **COMPOSITION:**

8 SOLIAN 50 mg: Each tablet contains 50 mg Amisulpride.

9 SOLIAN 200 mg: Each tablet contains 200 mg Amisulpride.

10 The excipients are hypromellose, lactose monohydrate, magnesium stearate,
11 microcrystalline cellulose and sodium starch glycolate.

12

13 **PHARMACOLOGICAL CLASSIFICATION:**

14 A 2.6.5 Tranquilizers, miscellaneous structures

15

16 **PHARMACOLOGICAL ACTION:**

17 Amisulpride binds selectively with a high affinity to human dopaminergic D₂/D₃ receptor
18 subtypes whereas it is devoid of affinity for D₁, D₄ and D₅ receptor subtypes.

19

20 Amisulpride has no affinity for serotonin, α -adrenergic, histamine H₁ and cholinergic
21 receptors. In addition amisulpride does not bind to sigma sites.

22

23 In animal studies, at high doses, amisulpride preferentially blocks the dopamine
24 receptors located in the limbic structures as compared with those in the striatum. At
25 low doses, it selectively blocks the pre-synaptic D₂/D₃ receptors, producing dopamine
26 release, responsible for its disinhibitory effects.

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28 **Pharmacokinetics:**

29 In young healthy adults, after oral administration of a 50 mg dose, there are two
30 plasma peaks, one at about one hour and one at 3 to 4 hours. The oral bioavailability
31 is about 48 %.

32
33 The volume of distribution is 5,8 l/kg and plasma protein binding is low (16 %).

34
35 Amisulpride is weakly metabolised and there is no accumulation of amisulpride and its
36 pharmacokinetic profile remains unchanged following repeated administration.

37
38 Amisulpride is excreted unchanged in the urine, renal clearance is in the order of 20 l/h
39 or 330 ml/min.

40
41 Its elimination half-life is approximately 12 hours after oral administration.

42
43 The bioavailability of amisulpride was significantly decreased after a carbohydrate rich
44 meal.

45
46 The AUC of amisulpride in renal impairment is significantly increased after a single
47 dose of 50 mg while the elimination is prolonged. No information is available at higher
48 doses or at steady state.

49
50 There is limited information on kinetics in the elderly, C_{max} , $t_{1/2}$, AUC are increased after
51 a single dose of 50 mg.

52
53 Amisulpride is very weakly dialysed.

54
55 **INDICATIONS:**

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56 SOLIAN is indicated for the treatment of patients with acute and chronic
57 schizophrenia, including patients characterised by predominant negative symptoms.

58

59 **CONTRA-INDICATIONS:**

- 60 • Hypersensitivity to amisulpride or to any of the constituents of the formulation.
- 61 • Concomitant use of other medicines that could induce or enhance the risk of
62 Torsades de Pointes and/or prolong the QT-interval (See “WARNINGS” and
63 “INTERACTIONS”).
- 64 • Congenital QT-interval prolongation.
- 65 • Concomitant prolactin-dependent tumours e.g. pituitary gland prolactinomas and
66 breast cancer.
- 67 • Pheochromocytoma.
- 68 • Children under 15 years of age.
- 69 • Pregnancy and lactation. (See “PREGNANCY AND LACTATION”).
- 70 • Women of childbearing potential unless using adequate contraception.
- 71 • Severe renal function impairment. (See “DOSAGE AND DIRECTIONS”).
- 72 • Combination with the following medications which could induce Torsades de
73 Pointes:
 - 74 ○ Class Ia antidysrhythmic agents such as quinidine disopyramide.
 - 75 ○ Class III antidysrhythmic agents such as amiodarone, sotalol.
 - 76 ○ Other medications such as bepridil, cisapride, sultopride, thioridazine,
77 methadone, IV erythromycin, IV vincamine, halofantrine, pentamidine,
78 sparfloxacin (See “INTERACTIONS”).
 - 79 ○ Combination with Levodopa (“SEE INTERACTIONS”).

80

81 **WARNINGS:**

82 Hyperglycaemia, in some cases extreme and associated with ketoacidosis or
83 hyperosmolar coma or death, has been reported with some atypical antipsychotic

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84 agents. Patients with an established diagnosis of diabetes mellitus, who are started on
85 SOLIAN, should be monitored regularly for worsening of glucose control. Patients with
86 risk factors for diabetes mellitus (e.g. obesity, family history of diabetes) who are
87 starting treatment with SOLIAN should be monitored for symptoms of hyperglycaemia
88 including polydipsia, polyuria, polyphagia and weakness. Patients who develop
89 symptoms of hyperglycaemia during treatment with SOLIAN should undergo fasting
90 blood glucose testing. In some cases, hyperglycaemia may resolve when SOLIAN is
91 discontinued. However, some patients could require continuation of anti-diabetic
92 treatment despite discontinuation of the suspect medicine.

93
94 Neuroleptic malignant syndrome: characterised by hyperthermia, muscle rigidity,
95 autonomic instability, altered consciousness and elevated creatinine phosphokinase
96 (CPK) may occur. In the event of hyperthermia, particularly with high daily doses, all
97 antipsychotic drugs including SOLIAN should be discontinued.

98
99 Patients with a history of epilepsy should be closely monitored during the treatment
100 period as SOLIAN can lower the seizure threshold.

101
102 Caution should be exercised when prescribing SOLIAN in patients with Parkinson's
103 disease since it may cause worsening of the disease. SOLIAN should be used only if
104 neuroleptic treatment cannot be avoided.

105
106 **Prolongation of the QT-interval**
107 SOLIAN induces a dose-dependent prolongation of the QT-interval (See "Side-effects
108 and Special Precautions"). This effect is known to potentiate the risk of serious
109 ventricular dysrhythmias such as Torsades de Pointes.

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111 Before any administration, and if possible according to the patient's clinical status, it is
112 recommended to monitor factors which could favour the occurrence of this rhythm
113 disorder, such as for example:

- 114 • bradycardia less than 55 bpm,
- 115 • electrolyte imbalance, in particular hypokalaemia,
- 116 • congenital prolongation of the QT-interval,
- 117 • on-going treatment with a medication likely to produce pronounced bradycardia (<
118 55 bpm), hypokalaemia, decreased intracardiac conduction, or prolongation of
119 the QT-interval.

120

121 **Stroke:**

122 In randomized clinical trials versus placebo performed in a population of elderly
123 patients with dementia and treated with certain atypical antipsychotic medicines, a 3-
124 fold increase of the risk of cerebrovascular events has been observed. The
125 mechanism of such risk increase is not known. An increase in the risk with other
126 antipsychotic medicines, or other populations of patients cannot be excluded. SOLIAN
127 should be used with caution in patients with stroke risk factors.

128

129 **Elderly patients with dementia:**

130 Elderly patients with dementia-related psychosis treated with antipsychotic medicines
131 are at an increased risk of death. Although the cause of death in clinical trials with
132 atypical antipsychotics were varied, most of the deaths appeared to be either
133 cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in
134 nature. Observational studies suggest that similar to atypical antipsychotic medicines,
135 treatment with conventional antipsychotic medicines, such as SOLIAN may increase
136 mortality.

137

138 **Venous thromboembolism**

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139 Cases of venous thromboembolism, sometimes fatal, have been reported with
140 antipsychotic medicines. Therefore, SOLIAN should be used with caution in patients
141 with risk factors for thromboembolism (See “SIDE EFFECTS AND SPECIAL
142 PRECAUTIONS”)

143

144 **INTERACTIONS:**

145 **Combinations, which are contra-indicated:**

146 Medications, which could induce Torsades de Pointes:

- 147 • Class Ia antidysrhythmic agents such as quinidine, disopyramide.
- 148 • Class III antidysrhythmic agents such as amiodarone, sotalol.
- 149 • Other medications such as bepridil, cisapride, sultopride, thioridazine,
150 methadone, IV erythromycin, IV vincamine, halofantrine, pentamidine,
151 sparfloxacin.

152

153 Levodopa: reciprocal antagonism of effects between levodopa and neuroleptics.

154

155 **Combinations not recommended:**

156 SOLIAN may enhance the central effects of alcohol.

157 Medications, which enhance the risk of Torsades de Pointes or could prolong the QT
158 intervals:

- 159 • Bradycardia-inducing medications such as beta-blockers, bradycardia-inducing
160 calcium channel blockers such as diltiazem and verapamil, clonidine, guanfacine,
161 digoxin.
- 162 • Medications, which induce hypokalaemia: hypokalaemic diuretics, stimulant
163 laxatives, IV amphotericin B, glucocorticoids, tetracosactides. Hypokalaemia
164 should be corrected.
- 165 • Neuroleptics such as pimozide, haloperidol, imipramine antidepressants, lithium.

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168 **Combinations to be taken into account:**

- 169 • CNS depressants including narcotics, anaesthetics, analgesics, sedative H₁
170 antihistamines, barbiturates, benzodiazepines and other anxiolytic medicines,
171 clonidine and derivatives.
- 172 • Antihypertensive medicines and other hypotensive medications.

173

174 **PREGNANCY AND LACTATION**

175 **Pregnancy**

176 Safety in pregnancy has not been established (See "CONTRAINDICATIONS").

177 If SOLIAN is used during pregnancy, neonates may show adverse effects of
178 amisulpiride.

179

180 **Lactation**

181 It is not known whether amisulpiride is excreted in breast milk, therefore breastfeeding
182 is contraindicated.

183

184 **DOSAGE AND DIRECTIONS FOR USE:**

185 No specific titration is required when initiating the treatment with SOLIAN and doses
186 should be adjusted according to the individual response.

187 SOLIAN can be administered once daily at oral doses up to 400 mg, higher doses
188 should be administered twice daily.

189

190

191

192 **For acute schizophrenia:**

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193 Oral doses between 400 - 800 mg/day are recommended. In individual cases, the
194 dose may be increased up to 1200 mg/day. Doses above 1200 mg/day have not been
195 evaluated for safety and therefore should not be used.

196

197 **For patients with mixed positive and negative symptoms:**

198 Doses should be adjusted to obtain optimal control of positive symptoms. Maintenance
199 treatment should be established individually with the minimum effective dose.

200

201 **For patients characterised by predominant negative symptoms:**

202 Doses between 50 - 100 mg/day are recommended. Doses should be adjusted
203 individually.

204

205 **Elderly:**

206 Particular caution should be used due to a possible risk of hypotension or sedation.

207

208 **Hepatic insufficiency:**

209 Since SOLIAN is weakly metabolised, a dosage reduction should not be necessary.

210

211 **Renal impairment:**

212 SOLIAN is eliminated by renal route. In renal insufficiency, the dose should be
213 reduced to half in patients with creatinine clearance (CR_{CL} between 30-60 ml/min and
214 to a third in patients with CR_{CL} between 10-30 ml/min.

215

216 As there is no experience in patients with severe renal impairment ($CR_{CL} < 10$ ml/min),
217 these patients should not receive SOLIAN. (See "Special Precautions").

218

219 **SIDE EFFECTS AND SPECIAL PRECAUTIONS:**

220 **Side effects:**

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221 Side effects have been ranked under headings of frequency using the following
222 convention.

223
224 Very common: ($\geq 1/10$); Common: ($\geq 1/100$; $< 1/10$); Uncommon ($\geq 1/1\ 000$; $<1/100$);
225 Rare:($\geq 1/10\ 000$; $<1/1\ 000$); Very Rare:($<1/10\ 000$); frequency not known (cannot be
226 estimated from the available data)

227

228 Clinical trial data:

229 ***Central and Peripheral Nervous system disorders:***

230 Very Common: Extrapyrarnidal symptoms (tremor, rigidity, hypersalivation, akathisia,
231 hypokinesia, dyskinesia) may occur. The incidence of extrapyramidal symptoms is
232 dose related.

233 Common: Acute dystonia (spasm torticollis, oculogyric crisis, trismus), [~~may occur~~]
234 somnolence

235 Uncommon: Tardive dyskinesia, characterised by rhythmic, involuntary movements
236 primarily of the tongue and/or face has been reported. Antiparkinsonian medication
237 may induce aggravation of these symptoms. Seizures.

238 ***Psychiatric disorders:***

239 Common: insomnia, somnolence, anxiety, agitation, orgasmic dysfunction

240 ***Endocrine disorders:***

241 Common: Increase in serum prolactin levels, which is reversible after the drug
242 discontinuation. This may result in galactorrhoea, gynaecomastia, swollen breasts and
243 erectile dysfunction.

244 ***Gastrointestinal disorders:***

245 Common: constipation, nausea, vomiting, dry mouth

246 ***Cardiovascular disorders:***

247 Common: hypotension

248 Uncommon: bradycardia

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249 **Investigations:**

250 Common: weight gain

251 Uncommon: elevation of hepatic enzymes, mainly transaminases

252 ***Metabolism and nutrition disorders:***

253 Uncommon: hyperglycaemia (See "Precautions")

254 ***Immune system disorders:***

255 Uncommon: allergic reactions

256

257 ***Post marketing:***

258 Cases of the following adverse reactions have been reported through spontaneous
259 reporting only:

260 ***Nervous system disorders:***

261 Frequency not known: neuroleptic malignant syndrome (see "WARNINGS").

262

263

264 ***Cardiac disorders:***

265 Frequency not known: QT interval prolongation and ventricular dysrhythmias such as
266 Torsade de Pointes ventricular tachycardia, which may result in ventricular fibrillation
267 or cardiac arrest, sudden death (See "WARNINGS")

268 ***Vascular disorders:***

269 Frequency not known: venous thromboembolism, including pulmonary embolism,
270 sometimes fatal, and deep vein thrombosis (See "WARNINGS")

271

272 **Special precautions:**

273 Hyperglycaemia has been reported in patients treated with some atypical antipsychotic
274 agents, including SOLIAN, therefore patients with an established diagnosis of diabetes
275 mellitus or with risk factors for diabetes who are started on SOLIAN should get
276 appropriate glycaemic monitoring. See "WARNINGS".

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277

278 SOLIAN may lower the seizure threshold. Therefore patients with a history of epilepsy
279 should be monitored during SOLIAN therapy. SOLIAN is eliminated by the renal route.
280 In cases of renal insufficiency, the dose should be decreased or intermittent treatment
281 could be considered (See "DOSAGE AND DIRECTIONS FOR USE").

282

283 In elderly patients, SOLIAN, should be used with particular caution because of a
284 possible risk of hypotension or sedation.

285

286

287

288 **Effects on ability to drive or to use machines:**

289 Even when used as recommended, SOLIAN may cause somnolence so that the ability
290 to drive vehicles or operate machinery can be impaired. (See "Side effects")

291

292 **Lactose:** Since SOLIAN tablets contain lactose, patients with rare hereditary
293 problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose
294 malabsorption, should not take this medicine.

295

296 **KNOWN SYMPTOMS OF OVERDOSAGE AND PARTICULARS OF ITS** 297 **TREATMENT:**

298 Experience with SOLIAN in overdose is limited. Exaggeration of the known
299 pharmacological effects of SOLIAN has been reported including drowsiness and
300 sedation, coma, hypotension and extrapyramidal symptoms.

301 In case of acute overdose, the possibility of multiple drug intake should be
302 considered.

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304 Since SOLIAN is weakly dialysed, haemodialysis should not be used to eliminate the
305 drug.

306
307 There is no specific antidote. Appropriate supportive measures should therefore be
308 instituted: close supervision of vital functions and continuous cardiac monitoring (risk
309 of prolongation of QT-interval) until the patient recovers.

310
311 If severe extrapyramidal symptoms occur, anticholinergic agents should be
312 administered.

313
314 **IDENTIFICATION:**
315 SOLIAN 50 mg: Round, white, flat-faced breakable tablet with a scored line on one
316 side and a mark AMI 50 on the other side.

317
318 SOLIAN 200 mg: Round, white, flat-faced breakable tablet with a scored line on one
319 side and a mark AMI 200 on the other side.

320
321 **PRESENTATION:**
322 Blisters of 10 tablets packed in cartons of 30 and 150.

323
324 **STORAGE INSTRUCTIONS:**
325 Store at or below 25 °C in a dry place.
326 KEEP OUT OF REACH OF CHILDREN.

327
328 **REGISTRATION NUMBERS:**
329 SOLIAN 50 mg: 34/2.6.5/0116
330 SOLIAN 200 mg: 34/2.6.5/0117

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333

334

335 **NAME AND BUSINESS ADDRESS OF THE HOLDER OF THE CERTIFICATE OF**

336 **REGISTRATION:**

337 **sanofi-aventis south africa (pty) ltd**

338 2 Bond Street

339 MIDRAND

340 1685

341 South Africa

342

343 **DATE OF PUBLICATION OF THIS PACKAGE INSERT:**

344 25 October 2012