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CAPSULES

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OTC – Natural Supplement Diabetes Support

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DESCRIPTION

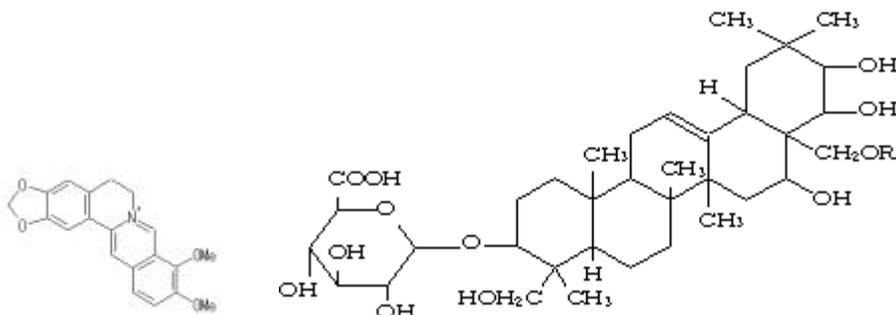
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JULVELIN is a natural antihyperglycemic agent which improves glucose tolerance in patients with type 2 diabetes, lowering both basal and postprandial plasma glucose. Its composition is formulated from natural products Berberine and Hcl 200mg, Gymnema sylvestre 100mg, Pycnogenol 100mg, Alpha Lipoic Acid 100mg.

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Berberine HCL

Gymnemic Acid

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JULVELIN is brownish to white to off-white powder (60 mesh) with a solubility of 2.5mg/ml in pH 5.2 water. Each JULVELIN capsule contains 500mg of the formulated natural components. Each capsule shell contains gelatin, titanium dioxide and FD&C Blue top white base No. 1.

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CLINICAL PHARMACOLOGY

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Mechanism of Action

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JULVELIN is a natural antihyperglycemic agent which improves glucose tolerance in patients with type 2 diabetes, lowering both basal and postprandial plasma glucose. Its pharmacologic mechanisms of action are different from other classes of oral antihyperglycemic agents. JULVELIN decreases hepatic glucose production, decreases intestinal absorption of glucose, and improves insulin sensitivity by increasing peripheral glucose uptake and utilization. Increased tissue glucose uptake, liver and muscle glycogen synthesis, inhibition of enzymes involved in glucose production and enhanced glucose oxidation.

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26 JULVELIN with Berberine Acutely Inhibits Insulin Secretion from β -Cells through 3',5'-Cyclic
27 Adenosine 5'-Monophosphate Signaling Pathway. Berberine, a hypoglycemic agent, has recently
28 been shown to activate AMP-activated protein kinase (AMPK) contributing to its beneficial
29 metabolic effects in peripheral tissues.

30 However, whether berberine exerts a regulatory effect on β -cells via AMPK or other signaling
31 pathways and counteracts glucolipotoxicity remains uncertain. In the present study, the impact of
32 berberine on β -cell function was investigated *in vivo* and *in vitro*. In high-fat-fed rats, berberine
33 treatment for 6 wk significantly decreased plasma glucose and insulin levels before and after an
34 oral glucose challenge along with the reduction of body weight and improvement of blood lipid
35 profile. In accordance with the *in vivo* results, berberine acutely decreased glucose-stimulated
36 insulin secretion (GSIS) and palmitate-potentiated insulin secretion in MIN6 cells and rat islets.
37 However, pretreated with berberine for 24 h augmented the response of MIN6 cells and rat islets
38 to glucose and attenuated the glucolipotoxicity. Berberine acutely increased AMPK activity in
39 MIN6 cells. However, compound C, an AMPK inhibitor, completely reversed troglitazone-
40 suppressed GSIS, not berberine-suppressed GSIS. Otherwise, berberine decreased cAMP-raising
41 agent-potentiated insulin secretion in MIN6 cells and rat islets. These results suggest that the
42 activation of AMPK is required for troglitazone-suppressed GSIS, whereas cAMP signaling pathway
43 contributes, at least in part, to the regulatory effect of berberine on insulin secretion.

44

45 The action of berberine was compared with metformin and troglitazone (TZD) with regard to the
46 glucose-lowering action *in vitro*. HepG2 cell line, phenotypically similar to human hepatocytes, was
47 used for glucose consumption (GC) studies. Cell proliferation was measured by
48 methylthiotetrazole (MTT) assay. In moderate high glucose concentration (11.1 mmol/L), GC of
49 HepG2 cells was increased by 32% to 60% ($P < .001$ to $P < .0001$) with 5×10^{-6} mol/L to 1×10^{-4}
50 mol/L berberine, which was comparable to that with 1×10^{-3} mol/L metformin. The glucose-
51 lowering effect of berberine decreased as the glucose concentration increased. The maximal
52 potency was reached in the presence of 5.5 mmol/L glucose, and it was abolished when the
53 glucose concentration increased to 22.2 mmol/L. The effect was not dependent on insulin
54 concentration, which was similar to that of metformin and was different from that of TZD, whose
55 glucose-lowering effect is insulin dependent. TZD had a better antihyperglycemic potency than
56 metformin when insulin was added ($P < .001$). In the meantime, a significant toxicity of the drug to
57 HepG2 cells was also observed. The β TC3 cell line was used for insulin release testing, and no
58 secretagogue effect of berberine was observed. These observations suggest that berberine is able
59 to exert a glucose-lowering effect in hepatocytes, which is insulin independent and similar to that
60 of metformin, but has no effect on insulin secretion.

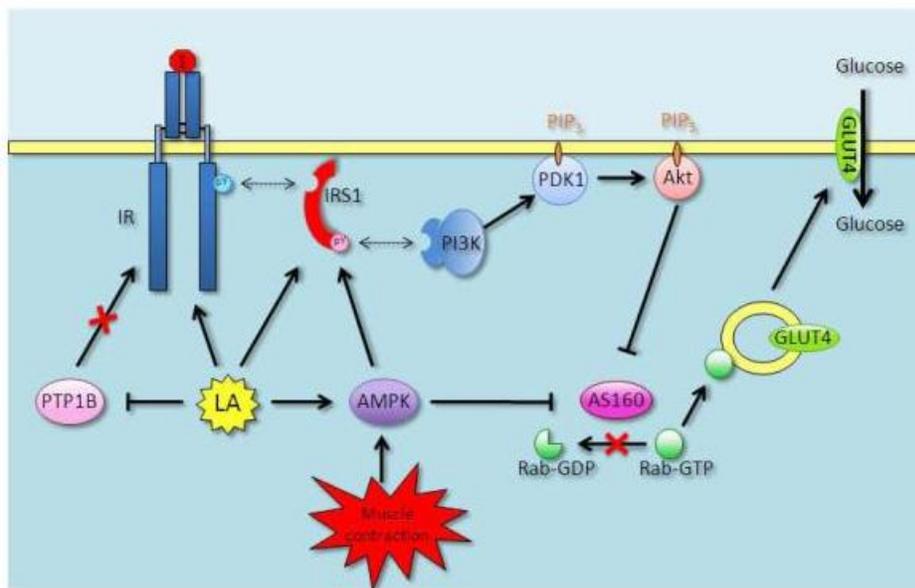
61 Gymnemic acids from JULVELIN are found to be antidiabetic, and insulinotropic. The active
62 principles which have been identified as glycosides (several gymnemic acids) suggest that the
63 topical and selective anaesthetic effect of the acids from plant might result from the reaction of
64 the receptor sites between glycosides and the sweet substances. Gymnemic acids inhibited glucan
65 formation by streptococcus mutans *in vivo* and also markedly inhibited the activity of
66 glucosyltransferase from bacterial coat increasing capillary fragility.

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69 Insulin pathway and glucose handling

70 The interaction of Alpha Lipoic Acid (LA) and intracellular signaling is perceived to account for LA's
71 beneficial effects observed at 24 hours post-administration, a time point that is much delayed
72 from the plasma LA Tmax of ~1 hour. This temporal difference is interesting in light of the rapid
73 metabolism of LA and suggests a different mode of action versus other stimuli that LA mimics. For
74 example, in cultured cells, insulin induced glucose uptake after 10 min. and a maximal effect after
75 30 min. while LA required 1 hour to induce its maximal effect on glucose uptake, which could be
76 achieved by insulin in half the time. This delay is even evident when comparing the
77 phosphorylation of Akt on Ser473 as induced by insulin versus LA. Such a delay suggests that the
78 effect of LA on glucose handling is not direct but necessitates the activation of additional
79 mediator(s), and also supports the notion that LA or DHLA modulates the IR/PI3K/Akt pathway at
80 different levels.



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82 In skeletal muscle, LA is proposed to recruit GLUT4 from its storage site in the Golgi to the
83 sarcolemma, so that glucose uptake is stimulated by the local increase in transporter abundance.
84 Evidence from cell culture experiments supports the involvement of the insulin-signaling cascade
85 in LA-stimulated translocation of GLUT1 and GLUT4. Klip's group investigated the effects of R- and
86 S-LA on glucose uptake in L6 myotubes and 3T3-L1 adipocytes. R-LA stimulated larger and more
87 rapid glucose uptake than did S-LA or the racemic mixture, and when used in conjunction with
88 insulin, enhanced its glucose uptake action. The cellular distribution of GLUT1 and GLUT4 glucose
89 transporters responded to R-LA in a similar fashion as seen with insulin, and glucose uptake in
90 response to all forms of LA was PI3K-dependent, as determined by use of the inhibitory
91 compound, LY294002. Using the same cell culture models, Moini et al. showed that R-LA
92 stimulated glucose transport for up to 6 hours. While S-LA and the racemic mixture produced the
93 same effect, DHLA did not. R-LA also resulted in tyrosine phosphorylation of the insulin receptor,
94 and glucose uptake was PI3K dependent, as shown by using wortmannin.

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96 Pharmacokinetics

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98 Absorption

99 JULVELIN IS well absorbed from an oral dose, with about 70 percent ending up in the
100 bloodstream. After single oral-dose administration, the maximum observed plasma concentration
101 (C_{max}) of JULVELIN is achieved between 60 minutes and 2 hours (median time of 1 hours).
102 Absolute bioavailability of JULVELIN I following oral dosing has not been determined. The rate and
103 extent of absorption of JULVELIN are not influenced by food

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106 **Distribution**

107 The mean apparent volume of distribution following oral administration is approximately 52 L,
108 indicating that JULVELIN is distributed into tissues. At therapeutic concentrations, 94% of JULVELIN
109 in plasma is bound to proteins. In which radioactivity rapidly appears in liver, kidneys and other
110 tissues, including the articular cartilage.

111 **Metabolism**

112 JULVELIN metabolism occurs both in nervous tissue and in the liver principally by the cytochrome
113 P450. JULVELIN by oral administration since the P-gp is expressed in intestinal cells and the
114 significant first-pass extraction by P450-dependent processes may severely limit its oral
115 bioavailability.

116

117 **Elimination**

118 Following a single dose of 440mg JULVELIN in normal weight and obese subjects, fecal and urine
119 excretion of the unabsorbed product was found to be the major route of elimination.
120 Approximately 86% (range 68% - 95%) of the administered radiolabeled JULVELIN was excreted in
121 urine and feces over a 7 day collection period with the majority of the dose (72% excreted in the
122 Urine.

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125 **Special Populations**

126 *Geriatrics:* In studies no difference has been experienced on geriatrics then normal adult
127 population.

128 *Pediatrics:* After administration of a single oral JULVELIN with food, geometric mean JULVELIN C_{max}
129 and AUC differed less than 5% between pediatric type 2 diabetic patients (12 to 16 years of age)
130 and gender- and weight-matched healthy adults (20 to 45 years of age), all with normal renal
131 function.

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134 *Gender:* JULVELIN pharmacokinetic parameters did not differ significantly between normal
135 subjects and patients with type 2 diabetes when analyzed according to gender (males =
136 19, females = 16). Similarly, in controlled clinical studies in patients with type 2 diabetes,
137 the antihyperglycemic effect of JULVELIN was comparable in males and females.

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140 **CLINICAL STUDIES**

141 The efficacy and safety of JULVELIN in the treatment of Diabetes Mellitus has been evaluated in 3
 142 clinical trials (see table 1) of up to 16-week duration, involving over 1260 participants. JULVELIN,
 143 when taken as needed up to three times per day, was shown to be effective in improving
 144 sensitivity to insulin and lowering blood sugar levels. Clinical studies also showed significantly
 145 superior to placebo and similar to metformin.

146

147 In a double-blind, placebo-controlled, multicenter U.S. clinical trial involving obese patients with
 148 type 2 diabetes whose hyperglycemia was not adequately controlled with dietary management
 149 alone (baseline fasting plasma glucose [FPG] of approximately 240 mg/dL), treatment with Julvelin
 150 (up to 2640 mg/day) for 16 weeks resulted in significant mean net reductions in fasting and
 151 postprandial plasma glucose (PPG) and hemoglobin A1c (HbA1c) compared to the placebo group
 152 (see Table 1).

153

154 **Table 1**

	Summary of Mean Changes from Baseline in HbA1c fasting Plasma Glucose (FPG) at Final visit (16 week Study)			
	Placebo	Julvelin 440 mg		
		2 capsules One Daily	2 capsules Twice Daily	2 capsules 3 X Daily
	N=342	N=286	N=362	N=274
Hemoglobin A1c (%)				
Baseline	8.2	8.3	8.4	8.4
Change at mid study point (8wk)	-0.100	-0.700	-0.800	-0.720
Change at Final visit - 16 wk	-0.100	-1.120	-1.300	-1.420
Final A1c	8.10	7.18	7.10	6.98
FPG (mg/dL)				
Baseline	242.0	240.0	241.0	243.0
Change at mid study point (8wk)	-12.0	-47.0	-52.0	-57.6
Change at Final visit - 16 wk	-12.8	-52.0	-68.0	-64.9
	229.20	188.00	173.00	178.10
Mg of Julvelin per day		880	1760	2640

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156

157 A 40-week, double-blind, placebo-controlled study of JULVELIN and glyburide, alone and in
 158 combination, was conducted in obese patients with type 2 diabetes who had failed to achieve
 159 adequate glycemic control while on maximum doses of glyburide (baseline FPG of approximately
 160 240 mg/dL) (see Table 2). Patients randomized to the combination arm started therapy with
 161 JULVELIN 440 mg and glyburide 20 mg. At the end of each week of the first four weeks of the trial,
 162 these patients had their dosages of JULVELIN increased by 440 mg if they had failed to reach target
 163 fasting plasma glucose. After week four, such dosage adjustments were made monthly, although
 164 no patient was allowed to exceed JULVELIN 2640 mg. Patients in the JULVELIN only arm (JULVELIN
 165 plus placebo) followed the same titration schedule. At the end of the trial, approximately 70% of
 166 the patients in the combination group were taking JULVELIN 2640 mg/glyburide 20 mg or

167 JULVELIN 2640 mg/glyburide 20 mg. Patients randomized to continue on glyburide experienced
 168 worsening of glycemic control, with mean increases in HbA1c and FPG of 0.2% and 13.2 mg/dL,
 169 respectively. In contrast, those randomized to JULVELIN (up to 2640 mg/day) experienced a slight
 170 improvement, with mean reductions in HbA1c and FPG of -1.37% and 48.3 mg/dL, respectively.
 171 The combination of JULVELIN and glyburide was effective in reducing HbA1c and FPG levels of -
 172 1.42% and 68.4 mg/dL,, respectively. Compared to results of glyburide treatment alone, the net
 173 differences with combination treatment were 1.8% -68 mg/dL, respectively (see Table 2).

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177 **Table 2**

	Summary of Study showing Mean Changes from Baseline in FPG, HA1c and Body Weight at final 40 week study with Combined Julvelin/Glyburide vs Glyburide or Julvelin monotherapy		
	Julvelin 440mg	Glyburide 20mg	Julvelin/Glyburide *
Daily Dosage (mg)	2640	20	2640/20
	N=182	N=157	N=217
Hemoglobin A1c (%)			
Baseline	8.3	8.4	8.4
Change at Final visit - 40 wk	-1.370	0.200	-1.420
Final A1c	6.93	8.60	6.98
FPG (mg/dL)			
Baseline	240.0	240.6	239.2
Change at Final visit - 40 wk	-48.3	13.2	-68.4
	191.70	253.80	170.80
Body weight			
Baseline	203.0	205.0	202.0
Change at Final visit - 40 wk	0.4	-0.2	-12

* Combined Julvelin/Glyburide 440mg and 20mg respectfully

178

179 The magnitude of the decline in fasting blood glucose concentration following the institution of
 180 GLUCOPHAGE (metformin hydrochloride tablets) therapy was proportional to the level of fasting
 181 hyperglycemia. Patients with type 2 diabetes with higher fasting glucose concentrations
 182 experienced greater declines in plasma glucose and glycosylated hemoglobin. The mean change in
 183 Body weight was not significant in any of the three groups.

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187 **Other Clinical Trail evidence**

188 Garvan scientist Dr Jiming Ye says: "Our studies in animal models of diabetes show that berberine
 189 acts in part by activating an enzyme in the muscle and liver that is involved in improving sensitivity

190 of the tissue to insulin – this in turn helps lower blood sugar levels. In addition it seems berberine
191 can help reduce body weight”. Current medicines for treating type 2 diabetes include metformin
192 and the TZD group of drugs. However a large number of patients cannot tolerate metformin and
193 the TZDs can cause undesirable weight gain. Therefore it is critical to develop new therapies to
194 treat type 2 diabetes which is a growing health problem

195 Research on use of berberine for diabetes began with Ni Yanxi and his colleagues in Changchun (a
196 large city in Jilin Province) with diabetes treatments. As an introduction to a 1995 English language
197 publication on this subject (presenting their earlier clinical data from 1983-1987), they wrote (5):
198 "It was found by accident that berberine had the therapeutic effect on the decrease of blood
199 glucose when the authors used berberine to treat diarrhea in patients who suffered from
200 diabetes."

201 Dietary therapy was first introduced to the patients for one month. For those who still had high
202 fasting blood sugar, berberine was administered orally at a dose of 300, 400, or 500 mg each time,
203 three times daily, adjusting the dosage according to the blood glucose levels; this treatment was
204 followed for 1-3 months. A control group without diabetes was similarly treated, with no effect on
205 blood sugar. For the diabetic patients, it was reported that patients had less thirst, consumed less
206 water and urinated less, had improved strength, and had lower blood pressure; the symptoms
207 declined in correspondence with declining blood glucose levels. Laboratory studies suggest that
208 berberine may have at least two functions in relation to reducing blood sugar: inhibiting
209 absorption of sugars from the intestine and enhancing production of insulin. As relayed by Ni in his
210 review of the literature, clinical experience with berberine has shown that doses of 2 grams per
211 day produced no side effects.

212 Berberine has been shown to regulate glucose and lipid metabolism in vitro and in vivo. This pilot
213 study was to determine the efficacy and safety of berberine in the treatment of type 2 diabetes
214 mellitus patients. In study A, 36 adults with newly diagnosed type 2 diabetes mellitus were
215 randomly assigned to treatment with berberine or metformin (0.5 g 3 times a day) in a 3-month
216 trial. The hypoglycemic effect of berberine was similar to that of metformin. Significant decreases
217 in hemoglobin A1c (from 9.5%±0.5% to 7.5%±0.4%, P<.01), fasting blood glucose (from 10.6±/
218 0.9 mmol/L to 6.9±/0.5 mmol/L, P<.01), postprandial blood glucose (from 19.8±/1.7 to 11.1±/0.9
219 mmol/L, P<.01), and plasma triglycerides (from 1.13±/0.13 to 0.89±/0.03 mmol/L, P<.05) were
220 observed in the berberine group. In study B, 48 adults with poorly controlled type 2 diabetes
221 mellitus were treated supplemented with berberine in a 3-month trial. Berberine acted by
222 lowering fasting blood glucose and postprandial blood glucose from 1 week to the end of the trial.
223 Hemoglobin A1c decreased from 8.1%±/0.2% to 7.3%±/0.3% (P<.001). Fasting plasma insulin and
224 homeostasis model assessment of insulin resistance index were reduced by 28.1% and 44.7%
225 (P<.001), respectively. Total cholesterol and low-density lipoprotein cholesterol were decreased
226 significantly as well. During the trial, 20 (34.5%) patients experienced transient gastrointestinal
227 adverse effects. Functional liver or kidney damages were not observed for all patients. In
228 conclusion, this pilot study indicates that berberine is a potent oral hypoglycemic agent with
229 beneficial effects on lipid metabolism.

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233 **INDICATIONS AND USAGE**

234 JULVELIN is a natural antihyperglycemic agent which improves glucose tolerance in patients with
235 type 2 diabetes, lowering both basal and postprandial plasma glucose.

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239 **CONTRAINDICATIONS**

240 Hypersensitivity to active components.

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243

244 **WARNINGS**

245

246 In most human studies, JULVELIN has been well tolerated for 30 to 160 days.

247 Side effects may include upset stomach, drowsiness, insomnia, headache, skin reactions, sun
248 sensitivity, and nail toughening. There are rare reports of abdominal pain, loss of appetite,
249 vomiting, nausea, flatulence (gas), constipation, heartburn, and diarrhea. Based on several human
250 cases, temporary increases in blood pressure and heart rate, as well as palpitations, may occur
251 with berberine products. Based on animal research, berberine theoretically may increase the risk
252 for eye cataract formation.

253

254 **PRECAUTIONS**

255 None Known in pre and post marketing clinical studies.

256 **MISUSE POTENTIAL**

257 No potential for misuse has been experienced in pre marketing clinical studies or during post
258 marketing events.

259 **USE IN SPECIAL POPULATIONS**

260 **Pregnancy**

261 No adequate and well controlled studies with JULVELIN have been conducted in pregnant women.
262 Because animal reproductive studies are not always predicative of human response JULVELIN
263 during pregnancy is not recommended.

264

265 **Nursing Mothers**

266 It is not known if JULVELIN is secreted in human milk. Therefore, JULVELIN should not be taken by
267 nursing women.

268

269

270 **Pediatric Use**

271 JULVELIN has not been studied in pediatric patients below the age of 12 years. There is not enough
272 scientific evidence to recommend the use of JULVELIN in children. Avoid in newborns due to
273 potential for increase in free bilirubin, jaundice, and development of kernicterus (brain damage
274 caused by severe newborn jaundice).

275

276 **Geriatric Use**

277 Clinical studies of JULVELIN included significant number of patients aged 65 years and older which
278 determined the resonance was similar to younger patients.

279

280 **ADVERSE REACTIONS**

281 **Clinical Studies Experience**

282 Because clinical trials are conducted under widely varying conditions, adverse reaction rates
283 observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of
284 another drug and may not reflect the rates observed in practice. When taken as recommended in
285 the placebo-controlled clinical trials, the following adverse events were reported (see Table 3) for
286 JULVELIN:

287

288

289 **Table 3**

Adverse Event	Summary of Adverse Reactions in case studies over 40 week trial with JULEVIN 440mg			
	Placebo (N=348)	2 capsules /day (N=1400)	3 capsules /day (N=853)	4 capsules /day (N=472)
Nausea	3.0%	2.0%	1.0%	3.0%
Vomitting	2.0%	2.0%	2.0%	3.0%
Headache	1.0%	2.0%	2.7%	2.4%
Skin Irritation	1.0%	3.0%	3.2%	2.9%
Facial Flushing	3.0%	3.0%	3.0%	4.0%
Loss os appetite	3.0%	2.0%	5.2%	6.8%
Abdominal tingling effect	2.0%	4.0%	2.0%	3.8%
Hypertension	3.0%	4.6%	2.8%	3.8%

290

291

292 Berberine has been reported to cause nausea, vomiting, hypertension (high blood pressure),
293 abnormal sensations such as numbness or tingling; however, clinical evidence of such adverse
294 effects is not prominent in the literature. Rare adverse effects including headache, skin irritation,
295 facial flushing, headache, bradycardia (slowed heart rate) have also been reported with the use of
296 berberine. Use cautiously in individuals with hypotension (low blood pressure), as berberine may
297 have antihypertensive effects.

298 Patients with cardiovascular disease should also use caution as berberine has been associated with
299 the development of ventricular arrhythmias in subjects with congestive heart failure. Although not
300 well studied in humans, berberine may also theoretically cause delays in small intestinal transit
301 time or increase the risk of bleeding.

302 Patients with leukopenia (abnormally low white blood cell count) should use cautiously due to the
303 potential for development of leukopenia symptoms.

304

305 **DRUG-DRUG INTERACTIONS**

306 JULVELIN may counter or prevent irregular heartbeat. Caution is advised when taking JULVELIN
307 with other agents that alter heart rate.

308 JULVELIN may decrease the efficacy of tetracycline; in theory, JULVELIN may decrease the efficacy
309 of other agents with antibacterial activity.

310 Berberine bisulfate may stimulate platelet formation, and berberine may have an antiheparin
311 action. Thus, berberine may interact with certain drugs that increase the risk of bleeding, and
312 reduce their effectiveness. Some examples include aspirin, anticoagulants ("blood thinners") such
313 as warfarin (Coumadin®) or heparin, anti-platelet drugs such as clopidogrel (Plavix®), and non-
314 steroidal anti-inflammatory drugs (NSAIDs) such as ibuprofen (Motrin®, Advil®) or naproxen
315 (Naprosyn®, Aleve®). However, berberine may be hepatoprotective (liver protective) when
316 administered before toxic doses of acetaminophen.

317 JULVELIN may lower blood sugar levels. Caution is advised when using medications that may also
318 lower blood sugar. Patients taking drugs for diabetes by mouth or insulin should be monitored
319 closely by a qualified healthcare professional, including a pharmacist. Medication adjustments may
320 be necessary.

321 JULVELIN may decrease total and LDL cholesterol, as well as triglycerides. Caution is advised in
322 patients taking any cholesterol-lowering agents.

323 There may be additive hypotensive (blood pressure lowering) effects and bradycardia (slowed
324 heart rate) when combining JULVELIN with agents that lower blood pressure. Caution is advised.

325 JULVELIN may modulate the expression and function of PGP-170 in hepatoma cells. In theory,
326 JULVELIN may interact with antineoplastic agents.

327 Berberine and berberine sulfate have anti-inflammatory effects and may interact with COX-2
328 inhibitors. COX-2 inhibitor drugs include celecoxib (Celebrex®) and rofecoxib (Vioxx®).

329

330

331 **OVERDOSAGE**

332 Single doses up to 7 grams have not presented any more adverse events than normal dosages.
333 From clinical studies the likelihood of overdosing is unknown and unlikely.

334

335 **DOSAGE AND ADMINISTRATION**

336 JULVELIN recommended starting dose of 3 capsules per day and may be increased up to 4 capsules
337 depending on the level of Sugar Levels.

338

339 **Use with Food**

340 JULVELIN may be taken without regard to food. The safety and effectiveness of JULVELIN beyond 3
341 years have not been determined at this time.

342

343 **USE IN SPECIAL POPULATIONS**

344 **Geriatrics**

345 No dose adjustment is required in patients >65 years of age.

346

347

348 **HOW SUPPLIED**

349 JULVELIN is a dark –blue hard-gelatin capsule containing powder.

350 JULVELIN 500 mg capsules: Dark –blue two piece No. 0 opaque hard –gelatin capsule. – Bottle
351 containing 90 capsules.

352

353 **Storage Conditions**

354 Store at 25°C (77°F) excursions permitted to 15° to 30°C (59° to 86°F) Keep bottle tightly closed.

355 JULVELIN should not be used after the given expiration date stamped on the top of the lid of each
356 bottle.

357 Distributed by:



358

359 Firstmed Pharma, Inc
360 Division of Firstmed Holding Corporation
361 Dothan, AL 33601

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363 325278

364 Revised May 2007

