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APPROVAL PACKAGE FOR:

**APPLICATION NUMBER
20-430/S-003**

Final Printed Labeling

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ORGARAN[®] (danaparoid sodium) Injection



Manufactured by Organon Inc.

West Orange, NJ 07052

5310150 7/2001

25 **ORGARAN[®]**

26 **(danaparoid sodium) Injection**

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28

SPINAL/EPIDURAL HEMATOMAS

When neuraxial anesthesia (epidural/spinal anesthesia) or spinal puncture is employed, patients anticoagulated or scheduled to be anticoagulated with low molecular weight heparins or heparinoids for prevention of thromboembolic complications are at risk of developing an epidural or spinal hematoma which can result in long-term or permanent paralysis.

The risk of these events is increased by the use of indwelling epidural catheters for administration of analgesia or by the concomitant use of drugs affecting hemostasis such as non steroidal anti-inflammatory drugs (NSAIDs), platelet inhibitors, or other anticoagulants. The risk also appears to be increased by traumatic or repeated epidural or spinal puncture.

Patient should be frequently monitored for signs and symptoms of neurological impairment. If neurologic compromise is noted, urgent treatment is necessary.

The physician should consider the potential benefit versus risk before intervention in patients anticoagulated or to be anticoagulated for thromboprophylaxis (see also **WARNINGS, Hemorrhage and PRECAUTIONS, Drug Interactions**).

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30 **DESCRIPTION**

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32 ORGARAN[®] (danaparoid sodium) Injection is a sterile, glycosaminoglycuronan antithrombotic
33 agent. The active components of ORGARAN[®], isolated from porcine intestinal mucosa, are
34 heparan sulfate (~84%), dermatan sulfate (~12%) and a small amount of chondroitin sulfate

35 (~4%). The average molecular weight is approximately 5500 Daltons.

36

37 ORGARAN[®] is intended for subcutaneous injection. Each prefilled syringe or ampule contains
38 750 anti-Xa units in 0.6 mL solution. ORGARAN[®] Injection is made isotonic with sodium
39 chloride, adjusted to pH 7 with hydrochloric acid, or sodium hydroxide. ORGARAN[®] Injection
40 contains 0.15% (w/v) sodium sulfite to prevent discoloration of the solution. The structural
41 formula of the main repeating disaccharide units is as follows:

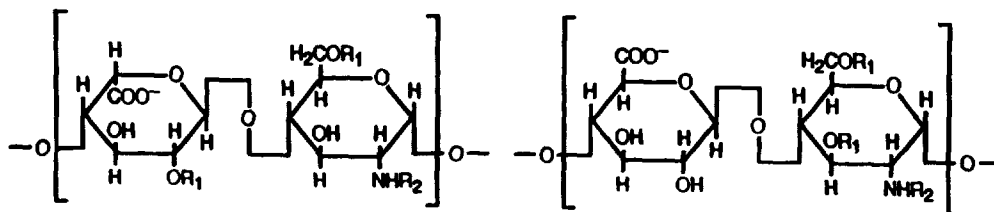
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43 Structural Formula:

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45 Main Repeating Disaccharide Units:

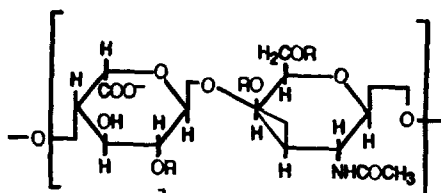
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47 Heparan Sulfate: R₁= H or SO₃⁻, R₂= COCH₃ or SO₃⁻

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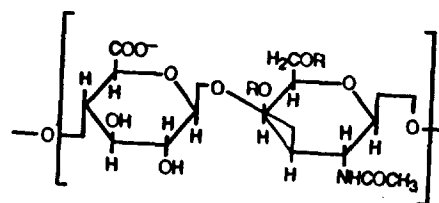
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50 Dermatan Sulfate

51 R = H or SO₃⁻

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Chondroitin Sulfate

53 **CLINICAL PHARMACOLOGY**

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55 **Pharmacodynamics**

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57 Effect on Coagulation Factors

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59 ORGARAN[®] (danaparoid sodium) Injection is an antithrombotic agent. ORGARAN[®] prevents
60 fibrin formation in the coagulation pathway via thrombin generation inhibition by anti-Xa and
61 anti-IIa (thrombin) effects. The anti-Xa: anti-IIa activity ratio is greater than 22. Inactivation of
62 factor Xa is mediated by antithrombin-III (AT-III) while factor IIa inactivation is mediated by
63 both AT-III and heparin cofactor II (HC II). ORGARAN[®] has only minor effect on platelet
64 function and platelet aggregability.

65

66 Measurements of Hemostasis

67

68 Because of its predominant anti-Xa activity, ORGARAN[®] has little effect on clotting assays
69 (e.g., prothrombin time [PT], partial thromboplastin time [PTT]). ORGARAN[®] has minimal
70 effect on fibrinolytic activity and bleeding time.

71

72 **Pharmacokinetics**

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74 The pharmacokinetics of ORGARAN[®] (danaparoid sodium) Injection have been described by
75 monitoring its biological activity (plasma anti-Xa activity) since no specific chemical assay
76 methods are currently available for the components of ORGARAN[®].

77

78 By subcutaneous route of administration, ORGARAN[®] was approximately 100% bioavailable,
79 compared with the same dose administered intravenously. The maximum anti-Xa activity (T_{max})
80 occurred at approximately two to five hours.

81

82 For single subcutaneous doses of 750, 1500, 2250, and 3250 anti-Xa units of ORGARAN[®] the
83 mean peak plasma anti-Xa activities were 102.4, 206.1, 283.9, and 403.4 mU/mL, respectively.
84 The mean value for the terminal half-life ($T_{1/2}$) was about 24 hours and the clearance was 0.36
85 L/hour. Clearance was affected by body surface area in that the higher the body surface, the faster
86 the clearance. ORGARAN[®] is mainly eliminated via the kidneys. In patients with severely
87 impaired renal function, the half-life of elimination of plasma anti-Xa activity may be prolonged,
88 therefore, monitoring such patients carefully is recommended.

89

90 **Special Populations**

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92 Geriatrics

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94 There are insufficient pharmacokinetic data to determine if the absorption, distribution, and
95 elimination of ORGARAN[®] (danaparoid sodium) Injection are different in elderly (≥ 65 years)
96 subjects when compared with younger subjects.

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98 Pediatrics

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100 The safety and efficacy of ORGARAN[®] in pediatric patients have not been established.

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102 Race

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104 There is no information to determine the effect of race on the pharmacokinetics of ORGARAN[®].

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106 Hepatic Insufficiency

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108 No formal studies were conducted to evaluate the effect of hepatic disease on the disposition of
109 ORGARAN[®].

110

111 Renal Insufficiency

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113 No formal studies were conducted to evaluate the effect of renal disease on the disposition of
114 ORGARAN[®] although ORGARAN[®] is mainly eliminated by the kidneys. In patients with
115 severely impaired renal function, the half-life of elimination of plasma anti-Xa activity may be
116 prolonged, therefore, careful monitoring of such patients is recommended (see
117 **PRECAUTIONS**).

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119 Drug-Drug Interactions

120

121 In clinical studies for the prophylaxis of DVT, no significant drug interactions have been noted in
122 the following drugs: digoxin, cloxacillin, ticarcillin, chlorthalidone, and pentobarbital (see
123 **PRECAUTIONS**).

124

125 ORGARAN[®] should be used with caution in patients receiving oral anticoagulants and/or platelet
126 inhibitors. Monitoring of anticoagulants by Prothrombin Time and Thrombotest is unreliable
127 within 5 hours after ORGARAN[®] administration (see **PRECAUTIONS**).

128

129 **Clinical Studies**

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131 In a European multicenter double-blind trial, ORGARAN[®] (danaparoid sodium) Injection was
132 compared with placebo in 196 patients undergoing elective hip replacement surgery. The
133 administration of ORGARAN[®] for 7 to 14 days post-operatively significantly reduced the overall
134 incidence of DVT to 15% (15/98 patients) compared to the incidence of 57% (56/98 patients)
135 observed with placebo.

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Number (%) of Patients with DVT*
Intent-to-Treat

	ORGARAN® N=98	Placebo N=98	p-value ^a
Proximal; N (%)	8 (8)	26 (27)	0.001
Distal; N (%)	14 (14)	51 (52)	<0.001
Overall; N (%)	15 (15)	56 (57)	<0.001

144 *A patient may be counted more than once (proximal and/or distal)

145 ^aUsing the Cochran Mantel-Haenszel test

146

147 In a United States multicenter trial, ORGARAN® was compared with warfarin in 396 patients
148 undergoing elective hip replacement. A significant reduction in the overall incidence of DVT was
149 observed with ORGARAN® (14.6%; 29/199 patients) compared with warfarin (26.9%; 53/197
150 patients), p=0.003.

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Number (%) of Patients with DVT^a
Intent-to-Treat

	ORGARAN® N=199	Warfarin N=197	p-value ^b
Proximal ^c ; N (%)	3 (1.5)	8 (4.1)	0.13
Distal ^d ; N (%)	28 (14.1)	49 (24.9)	0.007
Overall ^e ; N (%)	29 (14.6)	53 (26.9)	0.003

155

156 ^a By positive venogram only

157 ^b Using the Cochran Mantel-Haenszel test

158 ^c Popliteal, iliac, and femoral

159 ^d Calf

160 ^e A patient may be counted more than once (proximal and distal)

161

162 INDICATIONS AND USAGE

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164 ORGARAN® (danaparoid sodium) Injection is indicated for the prophylaxis of post-operative
165 deep venous thrombosis (DVT), which may lead to pulmonary embolism (PE), in patients
166 undergoing elective hip replacement surgery.

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169 **CONTRAINDICATIONS**

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171 ORGARAN[®] (danaparoid sodium) Injection is contraindicated in the following conditions:
172 severe hemorrhagic diathesis, e.g., hemophilia and idiopathic thrombocytopenic purpura; active
173 major bleeding state, including hemorrhagic stroke in the acute phase; hypersensitivity to
174 ORGARAN[®]; Type II thrombocytopenia associated with a positive *in vitro* test for antiplatelet
175 antibody in the presence of ORGARAN[®] Injection. ORGARAN[®] is contraindicated in patients
176 with known hypersensitivity to pork products.

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179 **WARNINGS**

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181 **General**

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183 ORGARAN[®] (danaparoid sodium) Injection is not intended for intramuscular administration.
184 Since a specific standard for the anti-Xa activity of ORGARAN[®] is used, the anti-Xa unit activity
185 of ORGARAN[®] is not equivalent to that described for heparin or low molecular weight heparin.
186 Therefore, ORGARAN[®] cannot be dosed interchangeably (unit for unit) with either heparin or
187 any low molecular weight heparin.

188

189 **Miscellaneous**

190

191 ORGARAN[®] (danaparoid sodium) Injection contains sodium sulfite which may cause allergic-
192 type reactions, including anaphylactic symptoms and life-threatening or less severe asthmatic
193 episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general
194 population is unknown and probably low. Sulfite sensitivity is seen more frequently in asthmatic
195 than in non-asthmatic patients.

196

197 **Hemorrhage**

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199 Hemorrhage can occur at virtually any site in patients receiving ORGARAN[®] (danaparoid
200 sodium) Injection. An unexplained fall in hematocrit and/or fall in blood pressure should lead to
201 serious consideration of a hemorrhagic event. ORGARAN[®], like anticoagulants, should be used
202 with extreme caution in disease states in which there is increased risk of hemorrhage, such as
203 severe uncontrolled hypertension, acute bacterial endocarditis, congenital or acquired bleeding
204 disorders, active ulcerative and angiodysplastic gastrointestinal disease, non-hemorrhagic stroke,
205 shortly after brain, spinal or ophthalmological surgery and post-operative indwelling epidural
206 catheter use.

207

208 **Spinal or epidural hematomas can occur with the associated use of low molecular weight**
209 **heparins or heparinoids and neuraxial (spinal/epidural) anesthesia or spinal puncture**
210 **which can result in long-term or permanent paralysis. The risk of these events is higher**
211 **with the use of post-operative indwelling epidural catheters or concomitant use of**
212 **additional drugs affecting hemostasis such as NSAIDs (see boxed WARNING).**

213

214

215 **PRECAUTIONS**

216

217 **General**

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219 The risks and benefits of ORGARAN[®] (danaparoid sodium) Injection should be carefully
220 considered before use in patients with severely impaired renal function or hemorrhagic disorders
221 (see **DOSAGE AND ADMINISTRATION**).

222

223 **Laboratory Tests**

224 ORGARAN[®] (danaparoid sodium) Injection has only a small effect on factor IIa (thrombin)

225 activity, therefore, when administered at recommended prophylaxis doses, routine coagulation
226 tests (e.g., Prothrombin Time [PT], Activated Partial Thromboplastin Time [APTT], Kaolin
227 Cephalin Clotting Time [KCCT], Whole Blood Clotting Time [WBCT], and Thrombin Time
228 [TT]) are relatively insensitive measures of ORGARAN[®] activity and, therefore, unsuitable for
229 monitoring.

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231 Periodic complete blood counts, including platelet count, and stool occult blood tests are
232 recommended during the course of treatment with ORGARAN[®].

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234 **Thrombocytopenia**

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236 ORGARAN[®] (danaparoid sodium) Injection shows a low cross-reactivity with antiplatelet
237 antibodies in individuals with Type II heparin-induced thrombocytopenia. No cases of white clot
238 syndrome or cases of Type II thrombocytopenia have been reported in clinical studies for the
239 prophylaxis of DVT in patients receiving multiple doses of ORGARAN[®] up to 14 days.

240

241 **Drug Interactions**

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243 In clinical studies for the prophylaxis of DVT, no clinically significant drug interactions have
244 been noted in the following drugs: digoxin, cloxacillin, ticarcillin, chlorthalidone, and
245 pentobarbital.

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247 ORGARAN[®] (danaparoid sodium) Injection should be used with caution in patients receiving
248 oral anticoagulants and/or platelet inhibitors. Monitoring of anticoagulant activity of oral
249 anticoagulants by Prothrombin Time and Thrombotest is unreliable within 5 hours after
250 ORGARAN[®] Injection administration.

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252 **Carcinogenesis, Mutagenesis, Impairment of Fertility**

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254 No long term studies in animals have been performed to evaluate the carcinogenic potential of
255 ORGARAN[®] (danaparoid sodium) Injection. ORGARAN[®] was not genotoxic in the Ames test,
256 the *in vitro* CHL/HGPRT forward gene mutation assay, the *in vitro* CHO cell chromosome
257 aberration test, the *in vitro* HeLa cell unscheduled DNA synthesis (UDS) test or the *in vivo*
258 mouse micronucleus test. ORGARAN[®] at intravenous doses of up to 1090 anti-Xa units/kg/day
259 was found to have no effect on fertility or reproductive performance of male and female rats.
260 This dose is 5.9 times the recommended human subcutaneous dose based on body surface area
261 (50 kg body weight and 1.46 m² body surface area assumed).

262

263 **Pregnancy**

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265 Teratogenic Effects-Pregnancy Category B

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267 Teratology studies have been performed in pregnant rats at intravenous doses up to 1600 anti-Xa
268 units/kg/day (8.7 times the recommended human dose based on body surface area) and pregnant
269 rabbits at intravenous doses up to 780 anti-Xa units/kg/day (6 times the recommended human
270 dose based on body surface area) and have not revealed evidence of impaired fertility or harm to
271 the fetus due to ORGARAN[®] (danaparoid sodium) Injection. There are, however, no adequate
272 and well-controlled studies in pregnant women. Because animal reproduction studies are not
273 always predictive of human response, this drug should be used during pregnancy only if clearly
274 needed.

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276 **Nursing Mothers**

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278 It is not known whether ORGARAN[®] (danaparoid sodium) Injection is excreted in breast milk.
279 Because many drugs are excreted in human milk, caution should be exercised when
280 ORGARAN[®] is administered to a nursing woman.

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282 **Pediatric Use**

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Safety and effectiveness of ORGARAN[®] (danaparoid sodium) Injection in pediatric patients have not been established.

Geriatric Use

Of the total number of patients undergoing elective hip replacement surgery who received ORGARAN[®] (danaparoid sodium) Injection in clinical studies, 62% (397/645 patients) were ≥65 years and 22% (141/645 patients) were ≥75 years old. No overall differences in safety and effectiveness of ORGARAN[®] were observed between elderly (≥65 years) subjects and younger subjects. Other reported clinical experience with ORGARAN[®] has not identified differences in response between the elderly and younger patients, but greater sensitivity of some older individuals to ORGARAN[®] cannot be ruled out.

ORGARAN[®] is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

ADVERSE REACTIONS

The following table summarizes adverse bleeding events that occurred in clinical trials which studied ORGARAN[®] (danaparoid sodium) Injection compared to placebo, warfarin, and others (heparin, heparin/DHE, acetylsalicylic acid, dextran, and low molecular weight heparins).

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Blood Loss and Transfusions
DVT and PE Prophylaxis for Orthopedic Hip Surgery
All Patients Treated

Blood Loss and Transfusions	Total N	ORGARAN®	Placebo	Warfarin	Other ^a
		(n) Mean±SD	(n) Mean±SD	(n) Mean±SD	(n) Mean±SD
Total (728 Males: 1675 Females)					
Intraoperative Blood Loss(mL)					
Males	596	(330) 694±555	(27) 586±737	(141) 689±499	(98) 754±661
Females	1259	(686) 486±430	(66) 416±252	(219) 471±306	(288) 530±456
Postoperative Blood Loss(mL)					
Males	580	(318) 954±879	(45) 908±812	(88) 817±585	(129) 1056±1055
Females	1256	(639) 700±778	(122) 715±520	(80) 619±352	(415) 798±779
Transfusions (units PRBCs)					
Males	462	(258) 2.6±1.8	(35) 2.7±1.4	(87) 2.5±1.4	(82) 2.9±2.1
Females	1152	(604) 2.6±1.7	(92) 2.8±1.4	(177) 2.1±1.1	(279) 2.8±2.0

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318 ^a"Other" includes the following active reference agents: heparin, heparin/DHE, acetylsalicylic acid, dextran, and low
319 molecular weight heparins.
320 Total N = Total number of patients with available data across all treatment groups.
321 n= The number of patients with available data in each respective treatment group and by gender.

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Other

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328 The following table summarizes adverse events that occurred at a frequency greater than, or
329 equal to, 2% of patients in clinical trials for the prophylaxis of DVT and PE following elective

330 hip surgery which studied ORGARAN® (danaparoid sodium) Injection compared to placebo,
 331 warfarin, and others (dextran, heparin/DHE, aspirin).

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Incidence of Adverse Experiences (≥2%)
 DVT and PE Prophylaxis for Elective Hip Surgery
 All Patients Treated

Adverse Experience	ORGARAN® N=645 N(%)	Placebo N=135 N(%)	Warfarin N=243 N(%)	Other N=168 N(%)
Fever	143(22.2)	1(0.7)	138(56.8)	3(1.8)
Nausea	92(14.3)	3(2.2)	78(32.1)	8(4.8)
Constipation	73(11.3)	0(0.0)	70(28.8)	2(1.2)
Injection Site Pain	49(7.6)	4(3.0)	0(0.0)	34(20.2)
Rash	31(4.8)	0(0.0)	18(7.4)	2(1.2)
Pruritus	25(3.9)	1(0.7)	14(5.8)	0(0.0)
Peripheral Edema	21(3.3)	0(0.0)	19(7.8)	4(2.4)
Insomnia	20(3.1)	0(0.0)	32(13.2)	0(0.0)
Vomiting	19(2.9)	3(2.2)	20(8.2)	3(1.8)
Joint Disorder	17(2.6)	0(0.0)	15(6.2)	0(0.0)
Headache	17(2.6)	1(0.7)	13(5.3)	0(0.0)
Urinary Tract Infection	17(2.6)	1(0.7)	5(2.1)	5(3.0)
Edema	17(2.6)	0(0.0)	14(5.8)	2(1.2)
Asthenia	15(2.3)	0(0.0)	10(4.1)	1(0.6)
Dizziness	15(2.3)	0(0.0)	14(5.8)	0(0.0)
Anemia	14(2.2)	3(2.2)	5(2.1)	5(3.0)
Urinary Retention	13(2.0)	0(0.0)	14(5.8)	1(0.6)

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338 In addition, the following table summarizes adverse events that occurred at a frequency greater
 339 than, or equal to, 2% of patients in clinical trials for the prophylaxis of DVT and PE which

340 studied ORGARAN[®] compared to placebo, warfarin, and others (heparin, heparin sodium,
341 heparin calcium, enoxaparin, dalteparin, dextran, heparin/DHE, aspirin).

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345

Incidence of Adverse Experiences (≥2%)
DVT and PE Prophylaxis Indication
All Patients Treated

Adverse Experience	ORGARAN [®] N=2383 N(%)	Placebo N=276 N(%)	Warfarin N=421 N(%)	Other N=1163 N(%)
Injection Site Pain	327(13.7)	53(19.2)	0(0.0)	153(13.2)
Pain	207(8.7)	0(0.0)	202(48.0)	20(1.7)
Fever	173(7.3)	1(0.4)	150(35.6)	21(1.8)
Nausea	98(4.1)	3(1.1)	79(18.8)	13(1.1)
Urinary Tract Infection	96(4.0)	3(1.1)	27(6.4)	65(5.6)
Constipation	83(3.5)	0(0.0)	73(17.3)	3(0.3)
Rash	51(2.1)	0(0.0)	25(5.9)	5(0.4)
Infection	51(2.1)	3(1.1)	0(0.0)	47(4.0)

346

347

348 **OVERDOSAGE**

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350 **Symptoms/Treatment**

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352 Accidental overdosage following administration of ORGARAN[®] (danaparoid sodium) Injection
353 may lead to bleeding complications. The effects of ORGARAN[®] on anti-Xa activity cannot be
354 antagonized with any known agent at this time. Although protamine sulfate partially neutralizes
355 the anti-Xa activity of ORGARAN[®] and can be safely co-administered, there is no evidence that
356 protamine sulfate is capable of reducing severe non-surgical bleeding during treatment with
357 ORGARAN[®]. In the event of serious bleeding, ORGARAN[®] should be stopped and blood or
358 blood product transfusions should be administered as needed. Withdrawal of ORGARAN[®] may

359 be expected to restore the coagulation balance without rebound phenomenon.

360

361 Single subcutaneous doses of ORGARAN[®] at 3800 anti-Xa units/kg (20.5 times the
362 recommended human dose based on body surface area) and 15200 anti-Xa units/kg (82 times the
363 recommended human dose based on body surface area) were lethal to female and male rats,
364 respectively. Symptoms of acute toxicity after intravenous dosing were respiratory depression,
365 prostration and twitching.

366

367

368 **DOSAGE AND ADMINISTRATION**

369

370 **Usual Adult Dosage**

371

372 In patients undergoing hip replacement surgery, the recommended dose of ORGARAN[®]
373 (danaparoid sodium) Injection is 750 anti-Xa units twice daily administered by subcutaneous
374 injection beginning 1 to 4 hours pre-operatively, and then not sooner than two hours after
375 surgery. Treatment should be continued throughout the period of post-operative care until the risk
376 of deep vein thrombosis has diminished. The average duration of administration in clinical trials
377 was 7 to 10 days, up to 14 days. Patients with serum creatinine ≥ 2.0 mg/dL should be carefully
378 monitored.

379

380 **Use in Geriatrics**

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382 No overall differences in safety and effectiveness of ORGARAN[®] (danaparoid sodium) Injection
383 were observed in patients ≥ 65 years when compared with patients < 65 years undergoing elective
384 hip replacement surgery. No dosage adjustments are recommended in elderly patients.

385

386 **Administration**

387 ORGARAN[®] (danaparoid sodium) Injection is intended for subcutaneous administration and

388 should not be administered by intramuscular injection. Subcutaneous injection technique:
389 Patients should be lying down and ORGARAN[®] Injection administered by deep subcutaneous
390 injection using a fine needle (25 to 26 gauge) to minimize tissue trauma. Administration should
391 be alternated between the left and right anterolateral and left and right posterolateral abdominal
392 wall. The whole length of the needle should be introduced into a skin fold held gently between
393 the thumb and forefinger; the skin fold should be held throughout the injection and should
394 neither be pinched nor rubbed afterwards.

395

396 Parenteral drug products should be inspected visually for particulate matter and discoloration
397 prior to administration whenever solution and container permit.

398

399 **HOW SUPPLIED**

400

401 ORGARAN[®] (danaparoid sodium) Injection is supplied in:

402 -Ampules containing 0.6 mL (750 anti-Xa units) of danaparoid sodium:

403 boxes of 10, NDC 0052-0830-11.

404 -Disposable prefilled syringes containing 0.6 mL (750 anti-Xa units) of danaparoid sodium:

405 boxes of 10, NDC 0052-0830-61. Each ORGARAN[®] prefilled syringe is affixed with a 25
406 gauge x 5/8 inch needle.

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408 **Storage**

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410 -Ampules should be stored at temperatures of 2-30°C (36-86°F).

411 -Syringes should be stored at a refrigerated temperature of 2-8°C (36-46°F).

412 -Protect from light.

413

414 **Rx only**

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7/2001