

Aranesp®
(darbepoetin alfa)
For Injection

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6 **DESCRIPTION**

7 Aranesp® is an erythropoiesis stimulating protein, closely related to erythropoietin, that is
8 produced in Chinese hamster ovary (CHO) cells by recombinant DNA technology. Aranesp® is a
9 165-amino acid protein that differs from recombinant human erythropoietin in containing
10 5 N-linked oligosaccharide chains, whereas recombinant human erythropoietin contains 3
11 chains. The two additional N-glycosylation sites result from amino acid substitutions in the
12 erythropoietin peptide backbone. The additional carbohydrate chains increase the approximate
13 molecular weight of the glycoprotein from 30,000 to 37,000 daltons. Aranesp® is formulated as a
14 sterile, colorless, preservative-free protein solution for intravenous (IV) or subcutaneous (SC)
15 administration.

16 **Single-dose vials** are available containing 25, 40, 60, 100, 150, 200, 300, or 500 mcg of
17 Aranesp®.

18 **Single-dose prefilled syringes** are available containing 25, 40, 60, 100, 150, 200, 300, or
19 500 mcg of Aranesp®. To reduce the risk of accidental needlesticks to users, each prefilled
20 syringe is equipped with a needle guard that covers the needle during disposal.

21 Single-dose vials and prefilled syringes are available in two formulations that contain excipients
22 as follows:

23 **Polysorbate solution** Each 1 mL contains 0.05 mg polysorbate 80, and is formulated at
24 pH 6.2 ± 0.2 with 2.12 mg sodium phosphate monobasic monohydrate, 0.66 mg sodium
25 phosphate dibasic anhydrous, and 8.18 mg sodium chloride in Water for Injection, USP
26 (to 1 mL).

27 **Albumin solution** Each 1 mL contains 2.5 mg albumin (human), and is formulated at
28 pH 6.0 ± 0.3 with 2.23 mg sodium phosphate monobasic monohydrate, 0.53 mg sodium
29 phosphate dibasic anhydrous, and 8.18 mg sodium chloride in Water for Injection, USP
30 (to 1 mL).

31 **CLINICAL PHARMACOLOGY**

32 **Mechanism of Action**

33 Aranesp® stimulates erythropoiesis by the same mechanism as endogenous erythropoietin.
34 A primary growth factor for erythroid development, erythropoietin is produced in the kidney and
35 released into the bloodstream in response to hypoxia. In responding to hypoxia, erythropoietin
36 interacts with progenitor stem cells to increase red blood cell (RBC) production. Production of
37 endogenous erythropoietin is impaired in patients with chronic renal failure (CRF), and
38 erythropoietin deficiency is the primary cause of their anemia. Increased hemoglobin levels are
39 not generally observed until 2 to 6 weeks after initiating treatment with Aranesp® (see **DOSAGE**
40 **AND ADMINISTRATION: Dose Adjustment**). In patients with cancer receiving concomitant
41 chemotherapy, the etiology of anemia is multifactorial.

42 **Pharmacokinetics**

43 The pharmacokinetics of Aranesp® were studied in patients with CRF and cancer patients
44 receiving chemotherapy.

45 Over the therapeutic range of 0.45 to 4.5 mcg/kg,
46 AUC) were linear with respect to dose, and no evidence
47 of an expected < 2-fold increase in blood levels when compared
48 Following SC administration, absorption is slow and
49 patients, which reflected the rate of absorption, was
50 IV administration to these patients, Aranesp® serum
51 a distribution half-life of approximately 1.4 hours and
52 SC administration in CRF patients' peak concentration
53 (hours), whereas cancer patients' peak concentration
54 When administered by IV administration, the terminal
55 half-life is longer than Epoetin alfa. The bioavailability of Aranesp®
56 after SC administration is 37% (range: 30% to 50%).

57 **CLINICAL STUDIES**

58 Throughout this section of the package insert, the A
59 nephrology and cancer clinical programs are designed

60 **Chronic Renal Failure Patients**

61 The safety and effectiveness of Aranesp® have been
62 studied in patients with CRF, and two studies assessed the
63 safety and efficacy of Aranesp® in adult patients with CRF who
64 had hemoglobin concentrations in the range of 8 to 10 g/dL
65 (erythropoietins).

66 **De Novo Use of Aranesp®**

67 In two open-label studies, Aranesp® or Epoetin alfa
68 were used to treat anemia in CRF patients who had not been
69 treated with erythropoietin. Study N1 evaluated CRF patients re-
70 quiring dialysis (predialysis patients). In both studies,
71 0.45 mcg/kg administered once weekly. The starting
72 dose was 0.45 mcg/kg administered once weekly. The starting
73 dose was 0.45 mcg/kg administered once weekly. The starting
74 dose was 0.45 mcg/kg administered once weekly. The starting
75 dose was 0.45 mcg/kg administered once weekly. The starting
76 dose was 0.45 mcg/kg administered once weekly. The starting
77 dose was 0.45 mcg/kg administered once weekly. The starting
78 dose was 0.45 mcg/kg administered once weekly. The starting
79 dose was 0.45 mcg/kg administered once weekly. The starting

80 In Study N1, the hemoglobin target was achieved by
81 84% (95% CI: 66%, 95%) of patients treated with Aranesp®
82 The mean increase in hemoglobin over the initial 4
83 weeks of treatment was 1.38 g/dL (95% CI: 0.82 g/dL, 1.37 g/dL).

84 In Study N2, the primary efficacy endpoint was a
85 129 patients treated with Aranesp® and 92% (95%
86 CI: 85%, 95%) of patients treated with Epoetin alfa. The mean increase in hemoglobin
87 over 4 weeks of Aranesp® treatment was 1.38 g/dL (95%
88 CI: 0.82 g/dL, 1.37 g/dL).

88 **Conversion From Other Recombinant Erythropoietins**

89 Two studies (N3 and N4) were conducted in adult
90 patients with CRF who were converted from other recombinant erythropoietins and compared

91 erythropoietins to maintain hemoglobin concentrations within a study target range of 9 to 13 g/dL.
 92 (Note: The recommended hemoglobin target is lower than the target range of these studies. See
 93 **DOSSAGE AND ADMINISTRATION**: General for recommended clinical hemoglobin target.) CRF
 94 patients who had been receiving stable doses of other recombinant erythropoietins were
 95 randomized to Aranesp[®] or to continue with their prior erythropoietin at the previous dose and
 96 schedule. For patients randomized to Aranesp[®], the initial weekly dose was determined on the
 97 basis of the previous total weekly dose of recombinant erythropoietin. Study N3 was a double-
 98 blind study conducted in North America, in which 169 hemodialysis patients were randomized to
 99 treatment with Aranesp[®] and 338 patients continued on Epoetin alfa. Study N4 was an open-
 100 label study conducted in Europe and Australia in which 347 patients were randomized to
 101 treatment with Aranesp[®] and 175 patients were randomized to continue on Epoetin alfa or
 102 Epoetin beta. Of the 347 patients randomized to Aranesp[®], 92% were receiving hemodialysis
 103 and 8% were receiving peritoneal dialysis.
 104 In Study N3, a median weekly dose of 0.53 mcg/kg Aranesp[®] (25th, 75th percentiles: 0.30,
 105 0.93 mcg/kg) was required to maintain hemoglobin in the study target range. In Study N4, a
 106 median weekly dose of 0.41 mcg/kg Aranesp[®] (25th, 75th percentiles: 0.26, 0.65 mcg/kg) was
 107 required to maintain hemoglobin in the study target range.

108 **Cancer Patients Receiving Chemotherapy**

109 The safety and effectiveness of Aranesp[®] in reducing the requirement for RBC transfusions in
 110 patients undergoing chemotherapy was assessed in a randomized, placebo-controlled, double-
 111 blind, multinational study (C-1). This study was conducted in anemic (Hgb \leq 11 g/dL) patients with
 112 advanced, small cell or non-small cell lung cancer, who received a platinum-containing
 113 chemotherapy regimen. Patients were randomized to receive Aranesp[®] 2.25 mcg/kg (n = 156) or
 114 placebo (n = 158) administered as a single weekly SC injection for up to 12 weeks. The dose
 115 was escalated to 4.5 mcg/kg/week at week six, in subjects with an inadequate response to
 116 treatment, defined as less than 1 g/dL hemoglobin increase. There were 67 patients in the
 117 Aranesp[®] arm who had their dose increased from 2.25 to 4.5 mcg/kg/week, at any time during the
 118 treatment period.

119 Efficacy was determined by a reduction in the proportion of patients who were transfused over the
 120 12 week treatment period. A significantly lower proportion of patients in the Aranesp[®] arm, 29%
 121 (95% CI: 20%, 33%) required transfusion compared to 60% (95% CI: 52%, 68%), in the placebo
 122 arm (Kaplan-Meier estimate of proportion, p < 0.001 by Cochran-Mantel-Haenszel test). Of the
 123 67 patients who received a dose increase, 28% had a 2 g/dL increase in hemoglobin over
 124 baseline, generally occurring between weeks 8 to 13. Of the 89 patients who did not receive a
 125 dose increase, 69% had a 2 g/dL increase in hemoglobin over baseline, generally occurring
 126 between weeks 6 to 13.

127 Studies were conducted that evaluated doses of Aranesp[®] ranging from 0.5 mcg/kg to 8.0 mcg/kg
 128 administered weekly. Data from these studies indicate that there is a dose response relationship
 129 with respect to hemoglobin response. The minimally effective starting dose with respect to
 130 reducing transfusion requirements was 1.5 mcg/kg/week, with a plateau observed at 4.5
 131 mcg/kg/week.

132 **INDICATIONS AND USAGE**

133 Aranesp[®] is indicated for the treatment of anemia associated with chronic renal failure, including
 134 patients on dialysis and patients not on dialysis, and for the treatment of anemia in patients with
 135 non-myeloid malignancies where anemia is due to the effect of concomitantly administered
 136 chemotherapy.

137 **CONTRAINDICATIONS**

Aranesp[®] is contraindicated in patients with:

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- uncontrolled hypertension
- known hypersensitivity to the active substance or any of the excipients

138 **WARNINGS**

139 **Cardiovascular Events, Hemoglobin, and Rate of Rise of Hemoglobin**

140 Aranesp[®] and other erythropoietic therapies may increase the risk of cardiovascular events,
 141 including death. The higher risk of cardiovascular events may be associated with higher
 142 hemoglobin and/or higher rates of rise of hemoglobin. The hemoglobin level should be managed
 143 carefully to avoid exceeding a target level of 12 g/dL.

144 In a clinical trial of Epoetin alfa (rHuEPO) treatment in hemodialysis patients with clinically evident
 145 cardiac disease, patients were randomized to a target hemoglobin of either 14 \pm 1 g/dL or
 146 10 \pm 1 g/dL.² Higher mortality (35% versus 29%) was observed in the 634 patients randomized to
 147 a target hemoglobin of 14 g/dL than in the 631 patients assigned a target hemoglobin of 10 g/dL.
 148 The reason for the increased mortality observed in this study is unknown; however, the incidence
 149 of nonfatal myocardial infarction, vascular access thrombosis, and other thrombotic events was
 150 also higher in the group randomized to a target hemoglobin of 14 g/dL.

151 In patients treated with Aranesp[®] or other recombinant erythropoietins in Aranesp[®] clinical trials,
 152 increases in hemoglobin greater than approximately 1.0 g/dL during any 2-week period were
 153 associated with increased incidence of cardiac arrest, neurologic events (including seizures and
 154 stroke), exacerbations of hypertension, congestive heart failure, vascular
 155 thrombotic/ischemic/infarction, acute myocardial infarction, and fluid overload/edema. It is
 156 recommended that the dose of Aranesp[®] be decreased if the hemoglobin increase exceeds
 157 1.0 g/dL in any 2-week period, because of the association of excessive rate of rise of hemoglobin
 158 with these events.

159 **Hypertension**

160 Patients with uncontrolled hypertension should not be treated with Aranesp[®]; blood pressure
 161 should be controlled adequately before initiation of therapy. Blood pressure may rise during
 162 treatment of anemia with Aranesp[®] or Epoetin alfa. In Aranesp[®] clinical trials, approximately 40%
 163 of patients with CRF required initiation or intensification of antihypertensive therapy during the
 164 early phase of treatment when the hemoglobin was increasing. Hypertensive encephalopathy
 165 and seizures have been observed in patients with CRF treated with Aranesp[®] or Epoetin alfa.

166 Special care should be taken to closely monitor and control blood pressure in patients treated
 167 with Aranesp[®]. During Aranesp[®] therapy, patients should be advised of the importance of
 168 compliance with antihypertensive therapy and dietary restrictions. If blood pressure is difficult to
 169 control by pharmacologic or dietary measures, the dose of Aranesp[®] should be reduced or
 170 withheld (see **DOSSAGE AND ADMINISTRATION**: Dose Adjustment). A clinically significant
 171 decrease in hemoglobin may not be observed for several weeks.

172 **Seizures**

173 Seizures have occurred in patients with CRF participating in clinical trials of Aranesp[®] and
 174 Epoetin alfa. During the first several months of therapy, blood pressure and the presence of
 175 premonitory neurologic symptoms should be monitored closely. While the relationship between
 176 seizures and the rate of rise of hemoglobin is uncertain, it is recommended that the dose of
 177 Aranesp[®] be decreased if the hemoglobin increase exceeds 1.0 g/dL in any 2-week period.

178 **Thrombotic Events and Increased Mortality**

179 An increased incidence of thrombotic events has been observed in patients treated with
 180 erythropoietic agents. In patients with cancer who received Aranesp[®], pulmonary emboli,

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181 thrombocytopenia and thrombosis occurred more frequently than in placebo controls (see
 182 **ADVERSE REACTIONS: Cancer Patients Receiving Chemotherapy, Table 4).**
 183 In a randomized controlled study with another erythropoietic product in 939 women with
 184 metastatic breast cancer receiving chemotherapy, patients received either weekly Epoetin alfa or
 185 placebo for up to a year. This study was designed to prevent anemia (maintain hemoglobin
 186 levels between 12 and 14 g/dL or hct 36 to 42%). Treatment with Epoetin alfa was associated
 187 with a higher rate of fatal thrombotic events (1.1% Epoetin alfa versus 0.2% placebo) in the first 4
 188 months of the study. Mortality at one year, the primary endpoint of the study, was higher for the
 189 Epoetin alfa group (76% Epoetin alfa versus 70% placebo, p = 0.012). (see **PRECAUTIONS:**
 190 **Tumor Growth Factor Potential**). Until further information is available, the recommended target
 191 hemoglobin should not exceed 12 g/dL in men or women.

192 **Pure Red Cell Aplasia**
 193 Pure red cell aplasia (PRCA), in association with neutralizing antibodies to native erythropoietin
 194 has been observed in patients treated with recombinant erythropoietins. This has been reported
 195 predominantly in patients with CRF. PRCA has been reported in a limited number of subjects
 196 exposed to other recombinant erythropoietin products prior to exposure to Aranesp[®]; therefore,
 197 the contribution of Aranesp[®] to the development of PRCA is unclear. Any patient with loss of
 198 response to Aranesp[®] should be evaluated for the etiology of loss of effect (see **PRECAUTIONS:**
 199 **General**). Aranesp[®] should be discontinued in any patient with evidence of PRCA, and the
 200 patient evaluated for the presence of binding and neutralizing antibodies to Aranesp[®], native
 201 erythropoietin, and any other recombinant erythropoietin administered to the patient. Amgen may
 202 be contacted to assist in this evaluation. In patients with PRCA secondary to neutralizing
 203 antibodies to erythropoietin, Aranesp[®] should not be administered.

204 **Albumin (Human)**
 205 Aranesp[®] is supplied in two formulations with different excipients, one containing polysorbate 80
 206 and another containing albumin (human), a derivative of human blood (see **DESCRIPTION**),
 207 Based on effective donor screening and product manufacturing processes, Aranesp[®] formulated
 208 with albumin carries an extremely remote risk for transmission of viral diseases. A theoretical risk
 209 for transmission of Creutzfeldt-Jakob disease (CJD) also is considered extremely remote. No
 210 cases of transmission of viral diseases or CJD have ever been identified for albumin.

211 **PRECAUTIONS**

212 **General**
 213 The safety and efficacy of Aranesp[®] therapy have not been established in patients with
 214 underlying hematologic diseases (e.g., hemolytic anemia, sickle cell anemia, thalassemia,
 215 porphyria).

216 **Lack of Loss of Response to Aranesp[®]**
 217 A lack of response or failure to maintain a hemoglobin response with Aranesp[®] doses within the
 218 recommended dosing range should prompt a search for causative factors. Deficiencies of folic
 219 acid or vitamin B₁₂ should be excluded or corrected. Depending on the clinical setting,
 220 intercurrent infections, inflammatory or malignant processes, osteoblasts cysts, occult blood
 221 loss, hemolysis, severe aluminum toxicity, and bone marrow fibrosis may compromise an
 222 erythropoietic response. In the absence of another etiology, the patient should be evaluated for
 223 evidence of PRCA and sera should be tested for the presence of antibody to recombinant
 224 erythropoietins.

225 **Hematology**
 226 Sufficient time should be allowed to determine a patient's responsiveness to a dosage of
 227 Aranesp[®] before adjusting the dose. Because of the time required for erythropoiesis and the
 228 RBC half-life, an interval of 2 to 6 weeks may occur between the time of a dose adjustment
 229 (initiation, increase, decrease, or discontinuation) and a significant change in hemoglobin.
 230 In order to prevent the hemoglobin from exceeding the recommended target (12 g/dL) or rising
 231 too rapidly (greater than 1.0 g/dL in 2 weeks), the guidelines for dose and frequency of dose
 232 adjustments should be followed (see **WARNINGS** and **DOSAGE AND ADMINISTRATION:**
 233 **Dose Adjustment**).

234 **Allergic Reactions**
 235 There have been rare reports of potentially serious allergic reactions, including skin rash and
 236 urticaria, associated with Aranesp[®]. Symptoms have recurred with rechallenge, suggesting a
 237 causal relationship exists in some instances. If a serious allergic or anaphylactic reaction occurs,
 238 Aranesp[®] should be immediately and permanently discontinued and appropriate therapy should
 239 be administered.

240 **Patients With CRF Not Requiring Dialysis**
 241 Patients with CRF not yet requiring dialysis may require lower maintenance doses of Aranesp[®]
 242 than patients receiving dialysis. Though predialysis patients generally receive less frequent
 243 monitoring of blood pressure and laboratory parameters than dialysis patients, predialysis
 244 patients may be more responsive to the effects of Aranesp[®], and require judicious monitoring of
 245 blood pressure and hemoglobin. Renal function and fluid and electrolyte balance should also be
 246 closely monitored.

247 **Dialysis Management**
 248 Therapy with Aranesp[®] results in an increase in RBCs and a decrease in plasma volume, which
 249 could reduce dialysis efficiency; patients who are marginally dialyzed may require adjustments in
 250 their dialysis prescription.

251 **Tumor Growth Factor Potential**
 252 Aranesp[®] is a growth factor that primarily stimulates RBC production. Erythropoietin receptors
 253 are also found on the surfaces of normal, non-hematopoietic tissues and some malignant cell
 254 lines and tumor biopsy specimens. However, it is not known if these receptors are functional.
 255 The possibility that Aranesp[®] can act as a growth factor for any tumor type, particularly myeloid
 256 malignancies, has not been evaluated.

257 In a randomized, placebo-controlled study in 314 anemic subjects with advanced lung cancer
 258 randomized to either Aranesp[®] or placebo, statistically significant differences in time-to-
 259 progression (TTP) or overall survival (OS) were not observed; however, the study was not
 260 designed to detect or exclude clinically meaningful differences in either TTP or OS (see
 261 **CLINICAL STUDIES**).

262 Two additional studies explored the effect on survival and/or disease progression following
 263 administrations of two other erythropoietic products (i.e. Epoetin alfa and Epoetin beta) with higher
 264 hemoglobin targets. The first study was a randomized controlled study in 939 women with
 265 metastatic breast cancer receiving chemotherapy where patients received either weekly Epoetin
 266 alfa or placebo for up to a year. This study was designed to prevent anemia (maintain
 267 hemoglobin levels between 12 and 14 g/dL or hct 36 to 42%). Mortality at 12 months was
 268 significantly higher in the Epoetin alfa arm (see **WARNINGS: Thrombotic Events** and
 269 **Increased Mortality**). This difference was observed primarily in the first 4 months of the study
 270 with more deaths attributed to breast cancer progression in the Epoetin alfa group (9% Epoetin

271 alpha versus 3% placebo). Due to insufficient monitoring and data collection, reliable comparisons
 272 cannot be made concerning the effect of Epoetin alfa on overall time to disease progression,
 273 progression-free survival, and overall survival. The second study was a randomized controlled
 274 study in 351 head and neck cancer patients where Epoetin beta or placebo was administered to
 275 achieve target hemoglobins of 14 and 15 g/dL for women and men, respectively. Local/regional
 276 progression-free survival was significantly shorter (median of 406 days Epoetin beta vs 745 days
 277 placebo, $p = 0.04$) in patients receiving Epoetin beta.

278 There is insufficient information to establish whether use of Epoetin products, including Aranesp,[®]
 279 have an adverse effect on time to tumor progression or progression-free survival.

280 These studies permitted or required dosing to achieve a hemoglobin level greater than 12 g/dL.
 281 Until further information is available, the recommended target hemoglobin should not exceed 12
 282 g/dL in men or women.

Laboratory Tests

283 After initiation of Aranesp[®] therapy, the hemoglobin should be determined weekly until it has
 284 stabilized and the maintenance dose has been established (see **DOSAGE AND**
 285 **ADMINISTRATION**). After a dose adjustment, the hemoglobin should be determined weekly for
 286 at least 4 weeks, until it has been determined that the hemoglobin has stabilized in response to
 287 the dose change. The hemoglobin should then be monitored at regular intervals.

288 In order to ensure effective erythropoiesis, iron status should be evaluated for all patients before
 289 and during treatment, as the majority of patients will eventually require supplemental iron therapy.
 290 Supplemental iron therapy is recommended for all patients whose serum ferritin is below
 291 100 mcg/L or whose serum transferrin saturation is below 20%.

Information for Patients

292 Patients should be informed of the possible side effects of Aranesp[®] and be instructed to report
 293 them to the prescribing physician. Patients should be informed of the signs and symptoms of
 294 allergic drug reactions and be advised of appropriate actions. Patients should be counseled on
 295 the importance of compliance with their Aranesp[®] treatment, dietary and dialysis prescriptions,
 296 and the importance of judicious monitoring of blood pressure and hemoglobin concentration
 297 should be stressed.

298 It is recommended that Aranesp[®] should be administered by a healthcare professional. In those
 299 rare cases where it is determined that a patient can safely and effectively administer Aranesp[®] at
 300 home, appropriate instruction on the proper use of Aranesp[®] should be provided for patients and
 301 their caregivers, including careful review of the accompanying "Information for Patients" insert.
 302 Patients and caregivers should also be cautioned against the reuse of needles, syringes, or drug
 303 product, and be thoroughly instructed in their proper disposal. A puncture-resistant container for
 304 the disposal of used syringes and needles should be made available to the patient.

Drug Interactions

305 No formal drug interaction studies of Aranesp[®] have been performed.

Carcinogenesis, Mutagenesis, and Impairment of Fertility

306 **Carcinogenicity:** The carcinogenic potential of Aranesp[®] has not been evaluated in long-term
 307 animal studies. Aranesp[®] did not alter the proliferative response of non-hematological cells in
 308 *in vitro* or *in vivo*. In toxicity studies of approximately 6 months duration in rats and dogs, no
 309 tumorigenic or unexpected mitogenic responses were observed in any tissue type. Using a panel
 310 of human tissues, the *in vitro* tissue binding profile of Aranesp[®] was identical to Epoetin alfa.
 311 Neither molecule bound to human tissues other than those expressing the erythropoietin
 312 receptor.

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317 **Mutagenicity:** Aranesp[®] was negative in the *in vitro* bacterial and CHO cell assays to detect
 318 mutagenicity and in the *in vivo* mouse micronucleus assay to detect clastogenicity.

319 **Impairment of Fertility:** When administered intravenously to male and female rats prior to and
 320 during mating, reproductive performance, fertility, and sperm assessment parameters were not
 321 affected at any doses evaluated (up to 10 mcg/kg/dose, administered 3 times weekly). An
 322 increase in post implantation fetal loss was seen at doses equal to or greater than
 323 0.5 mcg/kg/dose, administered 3 times weekly.

Pregnancy Category C

324 When Aranesp[®] was administered intravenously to rats and rabbits during gestation, no evidence
 325 of a direct embryotoxic, fetotoxic, or teratogenic outcome was observed at doses up to
 326 20 mcg/kg/day. The only adverse effect observed was a slight reduction in fetal weight, which
 327 occurred at doses causing exaggerated pharmacological effects in the dams (1 mcg/kg/day and
 328 higher). No deleterious effects on uterine implantation were seen in either species. No
 329 significant placental transfer of Aranesp[®] was observed in rats. An increase in post implantation
 330 fetal loss was observed in studies assessing fertility (see **PRECAUTIONS: Carcinogenesis,**
 331 **Mutagenesis, and Impairment of Fertility**).

332 **Intravenous injection of Aranesp[®] to female rats every other day from day 6 of gestation through**
 333 **day 23 of lactation at doses of 2.5 mcg/kg/dose and higher resulted in offspring (F1 generation)**
 334 **with decreased body weights, which correlated with a low incidence of deaths, as well as delayed**
 335 **eye opening and delayed preputial separation. No adverse effects were seen in the F2 offspring.**

336 There are no adequate and well-controlled studies in pregnant women. Aranesp[®] should be used
 337 during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers

338 It is not known whether Aranesp[®] is excreted in human milk. Because many drugs are excreted
 339 in human milk, caution should be exercised when Aranesp[®] is administered to a nursing woman.

Pediatric Use

340 The safety and efficacy of Aranesp[®] in pediatric patients have not been established.
 341 Pharmacokinetic data, obtained in 14 subjects, suggest that the pharmacokinetics in children
 342 between the ages of 5 and 18 years with nonhematologic malignancies were similar to those
 343 seen in adults with nonhematologic malignancies.

Geriatric Use

344 Of the 1598 CRF patients in clinical studies of Aranesp[®], 42% were age 65 and over, while
 345 15% were 75 and over. Of the 873 cancer patients in clinical studies receiving Aranesp[®] and
 346 concomitant chemotherapy, 45% were age 65 and over, while 14% were 75 and over. No overall
 347 differences in safety or efficacy were observed between older and younger patients.

ADVERSE REACTIONS

General

348 Because clinical trials are conducted under widely varying conditions, adverse reaction rates
 349 observed in the clinical trials of Aranesp[®] cannot be directly compared to rates in the clinical trials
 350 of other drugs and may not reflect the rates observed in practice.

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Chronic Renal Failure Patients

358 In all studies, the most frequently reported serious adverse reactions with Aranesp[®] were
 359 vascular access thrombosis, congestive heart failure, sepsis, and cardiac arrhythmia. The most
 360 commonly reported adverse reactions were infection, hypertension, hypotension, myalgia,
 361 headache, and diarrhea. (see WARNINGS: Cardiovascular Events, Hemoglobin, and Rate of
 362 Rise of Hemoglobin, and Hypertension). The most frequently reported adverse reactions
 363 resulting in clinical intervention (e.g., discontinuation of Aranesp[®], adjustment in dosage, or the
 364 need for concomitant medication to treat an adverse reaction symptom) were hypotension,
 365 hypertension, fever, myalgia, nausea, and chest pain.
 366
 367 The data described below reflect exposure to Aranesp[®] in 1598 CRF patients, including 675
 368 exposed for at least 6 months, of whom 185 were exposed for greater than 1 year. Aranesp[®] was
 369 evaluated in active-controlled (n = 823) and uncontrolled studies (n = 775).
 370 The rates of adverse events and association with Aranesp[®] are best assessed in the results from
 371 studies in which Aranesp[®] was used to stimulate erythropoiesis in patients anemic at study
 372 baseline (n = 348), and, in particular, the subset of these patients in randomized controlled trials
 373 (n = 276). Because there were no substantive differences in the rates of adverse reactions
 374 between these subpopulations, or between these subpopulations and the entire population of
 375 patients treated with Aranesp[®], data from all 1598 patients were pooled.
 376 The population encompassed an age range from 18 to 91 years. Fifty-seven percent of the
 377 patients were male. The percentages of Caucasian, Black, Asian, and Hispanic patients were
 378 83%, 14%, 3%, and 1%, respectively. The median weekly dose of Aranesp[®] was 0.45 mcg/kg
 379 (25th, 75th percentiles: 0.29, 0.66 mcg/kg).
 380 Some of the adverse events reported are typically associated with CRF, or recognized
 381 complications of dialysis, and may not necessarily be attributable to Aranesp[®] therapy. No
 382 important differences in adverse event rates between treatment groups were observed in
 383 controlled studies in which patients received Aranesp[®] or other recombinant erythropoietins.
 384 The data in Table 1 reflect those adverse events occurring in at least 5% of patients treated with
 385 Aranesp[®].

Table 1. Adverse Events Occurring in ≥ 5% of CRF Patients

Event	Patients Aranesp [®] (n = 1598)	Treated With
APPLICATION SITE		
Injection-site Pain	7%	
BODY AS A WHOLE		
Peripheral Edema	11%	
Fatigue	9%	
Fever	9%	
Death	7%	
Chest Pain, Unspecified	6%	
Fluid Overload	6%	
Access Infection	6%	
Influenza-like Symptoms	6%	
Access Hemorrhage	6%	
Ashtenia	5%	
CARDIOVASCULAR		
Hypertension	23%	
Hypotension	22%	
Cardiac Arrhythmias/Cardiac Arrest	10%	
Angina Pectoris/Cardiac Chest Pain	8%	
Thrombosis Vascular Access	8%	
Congestive Heart Failure	6%	
CNS/PNS		
Headache	16%	
Dizziness	8%	
GASTROINTESTINAL		
Diarrhea	16%	
Vomiting	15%	
Nausea	14%	
Abdominal Pain	12%	
Constipation	5%	
MUSCULO-SKELETAL		
Myalgia	21%	
Arthralgia	11%	
Limb Pain	10%	
Back Pain	8%	

(Continued)

Table 1. Adverse Events Occurring In ≥ 5% of CRF Patients (Continued)

Event	Patients Treated With Aranesp® (n = 1598)
RESISTANCE MECHANISM	
Infection [*]	27%
RESPIRATORY	
Upper Respiratory Infection	14%
Dyspnea	12%
Cough	10%
Bronchitis	6%
SKIN AND APPENDAGES	
Puritus	8%

* Infection includes sepsis, bacteremia, pneumonia, peritonitis, and abscess.

386 The incidence rates for other clinically significant events are shown in Table 2.

Table 2. Percent Incidence of Other Clinically Significant Events in CRF Patients

Event	Patients Treated With Aranesp® (n = 1598)
Acute Myocardial Infarction	2%
Seizure	1%
Stroke	1%
Transient Ischemic Attack	1%

Thrombotic Events

387 Vascular access thrombosis in hemodialysis patients occurred in clinical trials at an annualized rate of 0.22 events per patient year of Aranesp® therapy. Rates of thrombotic events (e.g., vascular access thrombosis, venous thrombosis, and pulmonary emboli) with Aranesp therapy were similar to those observed with other recombinant erythropoietins in these trials; the median duration of exposure was 12 weeks.

Cancer Patients Receiving Chemotherapy

393 The data described below reflect the exposure to Aranesp® in 873 cancer patients. Aranesp® was evaluated in seven studies that were active-controlled and/or placebo-controlled studies of up to 63 months duration. The Aranesp®-treated patient demographics were as follows: median age of 63 years (range of 20 to 91 years); 40% male; 88% Caucasian, 5% Hispanic, 4% Black, and 3% Asian. Over 90% of patients had locally advanced or metastatic cancer, with the remainder having early stage disease. Patients with solid tumors (e.g., lung, breast, colon, ovarian cancers), and lymphoproliferative malignancies (e.g., lymphoma, multiple myeloma) were enrolled in the clinical studies. All of the 873 Aranesp®-treated subjects also received concomitant cyclic chemotherapy.

394 The most frequently reported serious adverse events included death (10%), fever (4%), pneumonia (3%), dehydration (3%), vomiting (2%), and dyspnea (2%). The most commonly reported adverse events were fatigue, edema, nausea, vomiting, diarrhea, fever and dyspnea (see Table 3). Except for those events listed in Tables 3 and 4, the incidence of adverse events

407 in clinical studies occurred at a similar rate compared with patients who received placebo and
408 were generally consistent with the underlying disease and its treatment with chemotherapy. The
409 most frequently reported reasons for discontinuation of Aranesp® were progressive disease,
410 death, discontinuation of the chemotherapy, asthma, dyspnea, pneumonia, and gastrointestinal
411 hemorrhage. No important differences in adverse event rates between treatment groups were
412 observed in controlled studies in which patients received Aranesp® or other recombinant
413 erythropoietins.

414 Table 3. Adverse Events Occurring in ≥ 5% of Patients Receiving Chemotherapy

Event	Aranesp® (n = 873)	Placebo (n = 221)
BODY AS A WHOLE		
Fatigue	33%	30%
Edema	21%	10%
Fever	19%	16%
CNS/PNS		
Dizziness	14%	8%
Headache	12%	9%
GASTROINTESTINAL		
Diarrhea	22%	12%
Constipation	18%	17%
METABOLIC/NUTRITION		
Dehydration	5%	3%
MUSCULO-SKELETAL		
Arthralgia	13%	6%
Myalgia	8%	5%
SKIN AND APPENDAGES		
Rash	7%	3%

Table 4. Incidence of Other Clinically Significant Adverse Events in Patients Receiving Chemotherapy

Event	All Aranesp® (n = 873)	Placebo (n = 221)
Hypertension	3.7%	3.2%
Seizures/Convulsions ^a	0.6%	0.5%
Thrombotic Events	6.2%	4.1%
Pulmonary Embolism	1.3%	0.0%
Thrombosis ^b	5.6%	4.1%

^a Seizures/Convulsions include the preferred terms: Convulsions, Convulsions Grand Mal, and Convulsions Local.
^b Thrombosis includes: Thrombophlebitis, Thrombophlebitis Deep, Thrombosis Venous, Thrombosis Venous Deep, Thromboembolism, and Thrombosis.

416 Thrombotic and Cardiovascular Events

417 Overall, the incidence of thrombotic events was 6.2% for Aranesp® and 4.1% for placebo.
 418 However, the following events were reported more frequently in Aranesp®-treated patients than in
 419 placebo controls: pulmonary embolism, thromboembolism, thrombosis, and thrombophlebitis
 420 (deep and/or superficial). In addition, edema of any type was more frequently reported in
 421 Aranesp®-treated (21%) patients than in patients who received placebo (10%).

422 Immunogenicity

423 As with all therapeutic proteins, there is a potential for immunogenicity. The incidence of antibody
 424 development in patients receiving Aranesp® has not been adequately determined.
 425 Radioimmunoprecipitation assays were performed on sera from 1534 CRF and 833 cancer
 426 patients treated with Aranesp® in clinical studies. High-titer antibodies were not detected in
 427 patients with CRF, but assay sensitivity may be inadequate to reliably detect lower titers.
 428 Antibodies were detected by radioimmunoprecipitation in sera from three cancer patients;
 429 neutralizing activity, possibly related to antibodies, was detected in one of these three patients.
 430 There was no evidence of PRCA in that patient (see WARNINGS: Pure Red Cell Aplasia).

The incidence of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody positivity in an assay may be influenced by several factors including sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to Aranesp®, with the incidence of antibodies to other products may be misleading.

431 OVERDOSAGE

432 The maximum amount of Aranesp® that can be safely administered in single or multiple doses
 433 has not been determined. Doses over 3.0 mcg/kg/week for up to 28 weeks have been
 434 administered to CRF patients. Doses up to 8.0 mcg/kg every week and 15.0 mcg/kg every 3
 435 weeks have been administered to cancer patients for up to 12-16 weeks. Excessive use and
 436 rate of rise in hemoglobin concentration, however, have been associated with adverse events
 437 (see WARNINGS and DOSAGE AND ADMINISTRATION: Dose Adjustment). In the event of

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438 polycythemia, Aranesp® should be temporarily withheld (see DOSAGE AND ADMINISTRATION:
 439 Dose Adjustment). If clinically indicated, phlebotomy may be performed.

440 DOSAGE AND ADMINISTRATION

441 General

442 **IMPORTANT:** Aranesp® dosing regimens are different for each of the indications
 443 described in this section of the package insert. Due to the longer serum half-life,
 444 Aranesp® should be administered less frequently than Epoetin alfa (for example, where
 445 Epoetin alfa is administered three times a week, Aranesp® should be administered weekly).
 446 Aranesp® should be administered under the supervision of a healthcare professional.

447 Aranesp® is supplied in either vials or in prefilled syringes with UltraSafe® Needle Guards.
 448 Following administration of Aranesp® from the prefilled syringe, the UltraSafe® Needle Guard
 449 should be activated to prevent accidental needle sticks.

450 Chronic Renal Failure Patients

451 Aranesp® is administered either IV or SC as a single weekly injection. The dose should be
 452 started and slowly adjusted as described below based on hemoglobin levels. If a patient fails to
 453 respond or maintain a response, other etiologies should be considered and evaluated (see
 454 PRECAUTIONS: General and Laboratory Tests). When Aranesp® therapy is initiated or
 455 adjusted, the hemoglobin should be followed weekly until stabilized and monitored at least
 456 monthly thereafter.

457 For patients who respond to Aranesp® with a rapid increase in hemoglobin (e.g., more than
 458 1.0 g/dL in any 2-week period), the dose of Aranesp® should be reduced (see DOSAGE AND
 459 ADMINISTRATION: Dose Adjustment) because of the association of excessive rate of rise of
 460 hemoglobin with adverse events (see WARNINGS: Cardiovascular Events, Hemoglobin, and
 461 Rate of Rise of Hemoglobin).

462 The dose should be adjusted for each patient to achieve and maintain a target hemoglobin level
 463 not to exceed 12 g/dL.

464 Starting Dose

465 Correction of Anemia

466 The recommended starting dose of Aranesp® for the correction of anemia in CRF patients is
 467 0.45 mcg/kg body weight, administered as a single IV or SC injection once weekly. Because of
 468 individual variability, doses should be titrated to not exceed a target hemoglobin concentration of
 469 12 g/dL (see DOSAGE AND ADMINISTRATION: Dose Adjustment). For many patients, the
 470 appropriate maintenance dose will be lower than this starting dose. Predialysis patients, in
 471 particular, may require lower maintenance doses. Also, some patients have been treated
 472 successfully with a SC dose of Aranesp® administered once every 2 weeks.

473 Conversion From Epoetin alfa to Aranesp®

474 The starting weekly dose of Aranesp® should be estimated on the basis of the weekly Epoetin
 475 alfa dose at the time of substitution (see Table 5). Because of individual variability, doses should
 476 then be titrated to maintain the target hemoglobin. Due to the longer serum half-life, Aranesp®
 477 should be administered less frequently than Epoetin alfa. Aranesp® should be administered once
 478 a week if a patient was receiving Epoetin alfa 2 to 3 times weekly. Aranesp® should be
 479 administered once every 2 weeks if a patient was receiving Epoetin alfa once per week. The
 480 route of administration (IV or SC) should be maintained.

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Table 5. Estimated Aranesp® Starting Doses (mcg/week)
Based on Previous Epoetin alfa Dose (Units/week)

Previous Weekly (Units/week)	Epoetin alfa Dose	Weekly Aranesp® Dose (mcg/week)
< 2,500		6.25
2,500 to 4,999		12.5
5,000 to 10,999		25
11,000 to 17,999		40
18,000 to 33,999		60
34,000 to 89,999		100
≥ 90,000		200

Dose Adjustment

481 The dose should be adjusted for each patient to achieve and maintain a target hemoglobin not to
 482 exceed 12 g/dL.
 483
 484 Increases in dose should not be made more frequently than once a month. If the hemoglobin is
 485 increasing and approaching 12 g/dL, the dose should be reduced by approximately 25%. If the
 486 hemoglobin continues to increase, doses should be temporarily withheld until the hemoglobin
 487 begins to decrease, at which point therapy should be reinitiated at a dose approximately 25%
 488 below the previous dose. If the hemoglobin increases by more than 1.0 g/dL in a 2-week period,
 489 the dose should be decreased by approximately 25%.
 490 If the increase in hemoglobin is less than 1.0 g/dL over 4 weeks and iron stores are adequate
 491 (see **PRECAUTIONS: Laboratory Tests**), the dose of Aranesp® may be increased
 492 by approximately 25% of the previous dose. Further increases may be made at 4-week intervals
 493 until the specified hemoglobin is obtained.

Maintenance Dose

494
 495 Aranesp® dosage should be adjusted to maintain a target hemoglobin not to exceed 12 g/dL. If
 496 the hemoglobin exceeds 12 g/dL, the dose may be adjusted as described above. Doses must be
 497 individualized to ensure that hemoglobin is maintained at an appropriate level for each patient.

Cancer Patients Receiving Chemotherapy

498
 499 The recommended starting dose for Aranesp® is 2.25 mcg/kg administered as a weekly SC
 500 injection.

501 The dose should be adjusted for each patient to achieve and maintain a target hemoglobin. If
 502 there is less than a 1.0 g/dL increase in hemoglobin after 6 weeks of therapy, the dose of
 503 Aranesp® should be increased up to 4.5 mcg/kg. If hemoglobin increases by more than 1.0 g/dL
 504 in a 2-week period or if the hemoglobin exceeds 12 g/dL, the dose should be reduced by
 505 approximately 25%. If the hemoglobin exceeds 13 g/dL, doses should be temporarily withheld
 506 until the hemoglobin falls to 12 g/dL. At this point, therapy should be reinitiated at a dose
 507 approximately 25% below the previous dose.

Preparation and Administration of Aranesp®

508
 509 Do not shake Aranesp® or leave vials or syringes exposed to bright light. After removing the vials
 510 or prefilled syringes from the cartons, keep them covered to protect from room light until

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511 administration. Vigorous shaking or exposure to light may denature Aranesp® causing it to
 512 become biologically inactive. Always store vials or prefilled syringes of Aranesp® in their carton
 513 until use.

514 Parenteral drug products should be inspected visually for particulate matter and discoloration
 515 prior to administration. Do not use any vials or prefilled syringes exhibiting particulate matter or
 516 discoloration.

517 Do not dilute Aranesp®.

518 Do not administer Aranesp® in conjunction with other drug solutions.

519 Aranesp® is packaged in single-dose vials and prefilled syringes and contains no preservative.
 520 Discard any unused portion. Do not pool unused portions from the vials or prefilled
 521 syringes. Do not use the vial or prefilled syringe more than one time.

522 Following administration of Aranesp® from the prefilled syringe, activate the UltraSafe® Needle
 523 Guard. Place your hands behind the needle, grasp the guard with one hand, and slide the guard
 524 forward until the needle is completely covered and the guard clicks into place. NOTE: If an
 525 audible click is not heard, the needle guard may not be completely activated. The prefilled
 526 syringe should be disposed of by placing the entire prefilled syringe with guard activated into an
 527 approved puncture-proof container.

528 See the accompanying "Information for Patients" leaflet for complete instructions on the
 529 preparation and administration of Aranesp® for patients.

HOW SUPPLIED

530 Aranesp® is available in single-dose vials in two solutions, an albumin solution and a polysorbate
 531 solution. The words "Albumin Free" appear on the polysorbate container labels and the package
 532 main panels as well as other panels as space permits. Aranesp® albumin solution is also
 533 available in single-dose prefilled syringes supplied with a 27 gauge, ½ inch needle. To reduce
 534 the risk of accidental needlesticks to users, each prefilled syringe is equipped with an UltraSafe®
 535 Needle Guard that covers the needle during disposal. Aranesp® is available in the following
 536 packages:
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538 Single-dose Vial, Polysorbate Solution

1 Vial/Pack, 4 Packs/Case	4 Vials/Pack, 4 Packs/Case	4 Vials/Pack, 10 Packs/Case
200 mcg/1 mL (NDC 55513-006-01)	200 mcg/1 mL (NDC 55513-006-04)	25 mcg/1 mL (NDC 55513-002-04)
300 mcg/1 mL (NDC 55513-110-01)	300 mcg/1 mL (NDC 55513-110-04)	40 mcg/1 mL (NDC 55513-003-04)
500 mcg/1 mL (NDC 55513-008-01)		60 mcg/1 mL (NDC 55513-004-04)
		100 mcg/1 mL (NDC 55513-005-04)
		150 mcg/0.75 mL (NDC 55513-053-04)

539 Single-dose Vial, Albumin Solution

1 Vial/Pack, 4 Packs/Case	4 Vials/Pack, 4 Packs/Case	4 Vials/Pack, 10 Packs/Case
200 mcg/1 mL (NDC 55513-014-01)	200 mcg/1 mL (NDC 55513-014-04)	25 mcg/1 mL (NDC 55513-010-04)
300 mcg/1 mL (NDC 55513-015-01)	300 mcg/1 mL (NDC 55513-015-04)	40 mcg/1 mL (NDC 55513-011-04)
500 mcg/1 mL (NDC 55513-016-01)		60 mcg/1 mL (NDC 55513-012-04)
		100 mcg/1 mL (NDC 55513-013-04)
		150 mcg/0.75 mL (NDC 55513-054-04)

541 Single-dose Prefilled Syringe (SingleJect®) With a 27 gauge, ½ inch Needle With an UltraSafe™ Needle Guard, Polysorbate Solution

1 Syringe/Pack, 4 Packs/Case	4 Syringes/Pack, 4 Packs/Case	4 Syringes/Pack, 10 Packs/Case
200 mcg/0.4 mL (NDC 55513-028-01)	200 mcg/0.4 mL (NDC 55513-028-04)	25 mcg/0.42 mL (NDC 55513-057-04)
300 mcg/0.6 mL (NDC 55513-111-01)	300 mcg/0.6 mL (NDC 55513-111-04)	40 mcg/0.4 mL (NDC 55513-021-04)
500 mcg/1 mL (NDC 55513-032-01)		60 mcg/0.3 mL (NDC 55513-023-04)
		100 mcg/0.5 mL (NDC 55513-025-04)
		150 mcg/0.3 mL (NDC 55513-027-04)

543 Single-dose Prefilled Syringe (SingleJect®) With a 27 gauge, ½ inch Needle With an UltraSafe™ Needle Guard, Albumin Solution

1 Syringe/Pack, 4 Packs/Case	4 Syringes/Pack, 4 Packs/Case	4 Syringes/Pack, 10 Packs/Case
200 mcg/0.4 mL (NDC 55513-044-01)	200 mcg/0.4 mL (NDC 55513-044-04)	25 mcg/0.42 mL (NDC 55513-058-04)
300 mcg/0.6 mL (NDC 55513-046-01)	300 mcg/0.6 mL (NDC 55513-046-04)	40 mcg/0.4 mL (NDC 55513-037-04)
500 mcg/1 mL (NDC 55513-048-01)		60 mcg/0.3 mL (NDC 55513-039-04)
		100 mcg/0.5 mL (NDC 55513-041-04)
		150 mcg/0.3 mL (NDC 55513-043-04)

545 **Storage**
546 Store at 2° to 8°C (36° to 46°F). Do not freeze or shake. Protect from light.

547 REFERENCES

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- 551
- 552

Rx only

553 This product, or its use, may be covered by one or more US Patents, including US Patent
554 No. 5,618,696, in addition to others including patents pending.

555 **Manufactured by:**

556 Amgen Manufacturing, Limited, a subsidiary of Amgen Inc.
557 One Amgen Center Drive
558 Thousand Oaks, CA 91320-1799
559

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