

1 **REVLIMID<sup>®</sup> (lenalidomide)**

2 5 mg, 10 mg, 15 mg and 25 mg capsules

3 **WARNINGS:**

- 4 1. **POTENTIAL FOR HUMAN BIRTH DEFECTS**  
5 2. **HEMATOLOGIC TOXICITY (NEUTROPENIA AND**  
6 **THROMBOCYTOPENIA)**  
7 3. **DEEP VENOUS THROMBOSIS AND PULMONARY EMBOLISM**  
8

9 **POTENTIAL FOR HUMAN BIRTH DEFECTS**

10 **WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS**

11 **LENALIDOMIDE IS AN ANALOGUE OF THALIDOMIDE. THALIDOMIDE IS**  
12 **A KNOWN HUMAN TERATOGEN THAT CAUSES SEVERE LIFE-**  
13 **THREATENING HUMAN BIRTH DEFECTS. IF LENALIDOMIDE IS TAKEN**  
14 **DURING PREGNANCY, IT MAY CAUSE BIRTH DEFECTS OR DEATH TO AN**  
15 **UNBORN BABY. FEMALES SHOULD BE ADVISED TO AVOID PREGNANCY**  
16 **WHILE TAKING REVLIMID<sup>®</sup> (lenalidomide).**

17 **Special Prescribing Requirements**

18 **BECAUSE OF THIS POTENTIAL TOXICITY AND TO AVOID FETAL**  
19 **EXPOSURE TO REVLIMID<sup>®</sup> (lenalidomide), REVLIMID<sup>®</sup> (lenalidomide) IS**  
20 **ONLY AVAILABLE UNDER A SPECIAL RESTRICTED DISTRIBUTION**  
21 **PROGRAM. THIS PROGRAM IS CALLED "REVASSIST<sup>SM</sup>". UNDER THIS**  
22 **PROGRAM, ONLY PRESCRIBERS AND PHARMACISTS REGISTERED WITH**  
23 **THE PROGRAM CAN PRESCRIBE AND DISPENSE THE PRODUCT. IN**  
24 **ADDITION, REVLIMID MUST ONLY BE DISPENSED TO PATIENTS WHO**  
25 **ARE REGISTERED AND MEET ALL THE CONDITIONS OF THE**  
26 **REVASSIST<sup>SM</sup> PROGRAM .**

27 **PLEASE SEE THE FOLLOWING INFORMATION FOR PRESCRIBERS,**  
28 **FEMALE PATIENTS, AND MALE PATIENTS ABOUT THIS RESTRICTED**  
29 **DISTRIBUTION PROGRAM.**

30 **REVASSIST<sup>SM</sup> PROGRAM DESCRIPTION**

31 **Prescribers**

32 **REVLIMID<sup>®</sup> (lenalidomide) can be prescribed only by licensed prescribers who are**  
33 **registered in the RevAssist<sup>SM</sup> program and understand the potential risk of teratogenicity**  
34 **if lenalidomide is used during pregnancy.**

35 Effective contraception must be used by female patients of childbearing potential for at  
36 least 4 weeks before beginning REVLIMID<sup>®</sup> (lenalidomide) therapy, during  
37 REVLIMID<sup>®</sup> (lenalidomide) therapy, during dose interruptions and for 4 weeks  
38 following discontinuation of REVLIMID<sup>®</sup> (lenalidomide) therapy. Reliable contraception  
39 is indicated even where there has been a history of infertility, unless due to hysterectomy  
40 or because the patient has been postmenopausal naturally for at least 24 consecutive  
41 months. Two reliable forms of contraception must be used simultaneously unless  
42 continuous abstinence from heterosexual sexual contact is the chosen method. Females of  
43 childbearing potential should be referred to a qualified provider of contraceptive  
44 methods, if needed. Sexually mature females who have not undergone a hysterectomy,  
45 have not had a bilateral oophorectomy or who have not been postmenopausal naturally  
46 for at least 24 consecutive months (i.e., who have had menses at some time in the  
47 preceding 24 consecutive months) are considered to be females of childbearing potential.

48 **Before prescribing REVLIMID<sup>®</sup> (lenalidomide)**, females of childbearing potential  
49 should have 2 negative pregnancy tests (sensitivity of at least 50 mIU/mL). The first test  
50 should be performed within 10 – 14 days, and the second test within 24 hours prior to  
51 prescribing REVLIMID<sup>®</sup> (lenalidomide). A prescription for REVLIMID<sup>®</sup> (lenalidomide)  
52 for a female of childbearing potential must not be issued by the prescriber until negative  
53 pregnancy tests have been verified by the prescriber.

54 *Male Patients:* It is not known whether lenalidomide is present in the semen of patients  
55 receiving the drug. Therefore, males receiving REVLIMID<sup>®</sup> (lenalidomide) must always  
56 use a latex condom during any sexual contact with females of childbearing potential even  
57 if they have undergone a successful vasectomy.

58 **Once treatment has started and during dose interruptions**, pregnancy testing for  
59 females of childbearing potential should occur weekly during the first 4 weeks of use,  
60 then pregnancy testing should be repeated every 4 weeks in females with regular  
61 menstrual cycles. If menstrual cycles are irregular, the pregnancy testing should occur  
62 every 2 weeks. Pregnancy testing and counseling should be performed if a patient misses  
63 her period or if there is any abnormality in her pregnancy test or in her menstrual  
64 bleeding. REVLIMID<sup>®</sup> (lenalidomide) treatment must be discontinued during this  
65 evaluation.

66 Pregnancy test results should be verified by the prescriber and the pharmacist prior to  
67 dispensing any prescription.

68 If pregnancy does occur during REVLIMID<sup>®</sup> (lenalidomide) treatment, REVLIMID<sup>®</sup>  
69 (lenalidomide) must be discontinued immediately.

70 Any suspected fetal exposure to REVLIMID<sup>®</sup> (lenalidomide) should be reported to the  
71 FDA via the MedWatch number at 1-800-FDA-1088 and also to Celgene Corporation at  
72 1-888-423-5436. The patient should be referred to an obstetrician/gynecologist  
73 experienced in reproductive toxicity for further evaluation and counseling.

74 **Female Patients**

75 REVLIMID<sup>®</sup> (lenalidomide) should be used in females of childbearing potential only  
76 when the patient MEETS ALL OF THE FOLLOWING CONDITIONS (i.e., she is  
77 unable to become pregnant while on lenalidomide therapy):

- 78 • she understands and can reliably carry out instructions.
- 79 • she is capable of complying with the mandatory contraceptive measures, pregnancy  
80 testing, patient registration, and patient survey as described in the RevAssist<sup>SM</sup>  
81 program.
- 82 • she has received and understands both oral and written warnings of the potential risks  
83 of taking lenalidomide during pregnancy and of exposing a fetus to the drug.
- 84 • she has received both oral and written warnings of the risk of possible contraception  
85 failure and of the need to use two reliable forms of contraception simultaneously,  
86 unless continuous abstinence from heterosexual sexual contact is the chosen method.  
87 Sexually mature females who have not undergone a hysterectomy or who have not  
88 been postmenopausal for at least 24 consecutive months (i.e., who have had menses at  
89 some time in the preceding 24 consecutive months), or had a bilateral oophorectomy  
90 are considered to be females of childbearing potential.
- 91 • she acknowledges, in writing, her understanding of these warnings and of the need for  
92 using two reliable methods of contraception for 4 weeks prior to beginning  
93 lenalidomide therapy, during lenalidomide therapy, during dose interruptions and for  
94 4 weeks after discontinuation of lenalidomide therapy.
- 95 • she has had two negative pregnancy tests with a sensitivity of at least 50 mIU/mL,  
96 within 10-14 days and 24 hours prior to beginning therapy.
- 97 • if the patient is between 12 and 18 years of age, her parent or legal guardian must  
98 have read the educational materials and agreed to ensure compliance with the above.

99 **Male Patients**

100 REVLIMID<sup>®</sup> (lenalidomide) should be used in sexually active males when the PATIENT  
101 MEETS ALL OF THE FOLLOWING CONDITIONS:

- 102 • he understands and can reliably carry out instructions.
- 103 • he is capable of complying with the mandatory contraceptive measures that are  
104 appropriate for men, patient registration, and patient survey as described in the  
105 RevAssist<sup>SM</sup> program.
- 106 • he has received and understands both oral and written warnings of the potential risks  
107 of taking lenalidomide and exposing a fetus to the drug.

- 108 • he has received both oral and written warnings of the risk of possible contraception  
109 failure and that it is unknown whether lenalidomide is present in semen. He has been  
110 instructed that he must always use a latex condom during any sexual contact with  
111 females of childbearing potential, even if he has undergone a successful vasectomy.
- 112 • he acknowledges, in writing, his understanding of these warnings and of the need to  
113 use a latex condom during any sexual contact with females of childbearing potential,  
114 even if he has undergone a successful vasectomy. Females of childbearing potential  
115 are considered to be sexually mature females who have not undergone a  
116 hysterectomy, have not had a bilateral oophorectomy or who have not been  
117 postmenopausal for at least 24 consecutive months (i.e., who have had menses at any  
118 time in the preceding 24 consecutive months).
- 119 • if the patient is between 12 and 18 years of age, his parent or legal guardian must  
120 have read the educational material and agreed to ensure compliance with the above.

121 **HEMATOLOGIC TOXICITY (NEUTROPENIA AND THROMBOCYTOPENIA)**

122 **This drug is associated with significant neutropenia and thrombocytopenia. Eighty**  
123 **percent of patients with del 5q myelodysplastic syndromes had to have a dose**  
124 **delay/reduction during the major study. Thirty-four percent of patients had to have**  
125 **a second dose delay/reduction. Grade 3 or 4 hematologic toxicity was seen in 80%**  
126 **of patients enrolled in the study. Patients on therapy for del 5q myelodysplastic**  
127 **syndromes should have their complete blood counts monitored weekly for the first 8**  
128 **weeks of therapy and at least monthly thereafter. Patients may require dose**  
129 **interruption and/or reduction. Patients may require use of blood product support**  
130 **and/or growth factors. (SEE DOSAGE AND ADMINISTRATION)**

131 **DEEP VENOUS THROMBOSIS AND PULMONARY EMBOLISM**

132 **This drug has demonstrated a significantly increased risk of deep venous**  
133 **thrombosis (DVT) and pulmonary embolism (PE) in patients with multiple**  
134 **myeloma who were treated with REVLIMID<sup>®</sup> (lenalidomide) combination therapy.**  
135 **Patients and physicians are advised to be observant for the signs and symptoms of**  
136 **thromboembolism. Patients should be instructed to seek medical care if they develop**  
137 **symptoms such as shortness of breath, chest pain, or arm or leg swelling. It is not**  
138 **known whether prophylactic anticoagulation or antiplatelet therapy prescribed in**  
139 **conjunction with REVLIMID<sup>®</sup> (lenalidomide) may lessen the potential for venous**  
140 **thromboembolic events. The decision to take prophylactic measures should be done**  
141 **carefully after an assessment of an individual patient's underlying risk factors.**

142

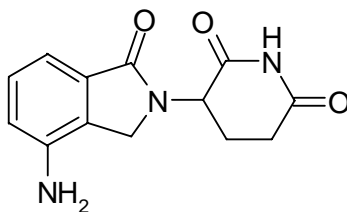
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144 **You can get the information about REVLIMID<sup>®</sup> and the RevAssist<sup>SM</sup> program on**  
145 **the internet at [www.REVLIMID.com](http://www.REVLIMID.com) or by calling the manufacturer's toll free**  
146 **number 1-888-423-5436.**

## 147 DESCRIPTION

148 REVLIMID<sup>®</sup> (lenalidomide), a thalidomide analogue, is an immunomodulatory agent  
149 with anti-angiogenic and anti-neoplastic properties. The chemical name is 3-(4-amino-1-  
150 oxo 1,3-dihydro-2*H*-isoindol-2-yl) piperidine-2,6-dione and it has the following chemical  
151 structure:

### 152 Chemical Structure of Lenalidomide



153

154 3-(4-amino-1-oxo 1,3-dihydro-2*H*-isoindol-2-yl) piperidine-2,6-dione

155 The empirical formula for lenalidomide is C<sub>13</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>, and the gram molecular weight is  
156 259.3.

157 Lenalidomide is an off-white to pale-yellow solid powder. It is soluble in organic  
158 solvent/water mixtures, and buffered aqueous solvents. Lenalidomide is more soluble in  
159 organic solvents and low pH solutions. Solubility was significantly lower in less acidic  
160 buffers, ranging from about 0.4 to 0.5 mg/ml. Lenalidomide has an asymmetric carbon  
161 atom and can exist as the optically active forms S(-) and R(+), and is produced as a  
162 racemic mixture with a net optical rotation of zero.

163 REVLIMID<sup>®</sup> (lenalidomide) is available in 5 mg, 10 mg, 15 mg and 25 mg capsules for  
164 oral administration. Each capsule contains lenalidomide as the active ingredient and the  
165 following inactive ingredients: lactose anhydrous, microcrystalline cellulose,  
166 croscarmellose sodium, and magnesium stearate. The 5 mg and 25 mg capsule shell  
167 contains gelatin, titanium dioxide and black ink. The 10 mg capsule shell contains  
168 gelatin, FD&C blue #2, yellow iron oxide, titanium dioxide and black ink. The 15 mg  
169 capsule shell contains gelatin, FD&C blue #2, titanium dioxide and black ink.

## 170 CLINICAL PHARMACOLOGY

### 171 Mechanism of Action:

172 The mechanism of action of lenalidomide remains to be fully characterized.  
173 Lenalidomide possesses anti-neoplastic, immunomodulatory and antiangiogenic  
174 properties. Lenalidomide inhibited the secretion of pro-inflammatory cytokines and  
175 increased the secretion of anti-inflammatory cytokines from peripheral blood  
176 mononuclear cells. Lenalidomide inhibited cell proliferation with varying effectiveness  
177 (IC<sub>50</sub>s) in some but not all cell lines. Of cell lines tested, lenalidomide was effective in

178 inhibiting growth of Namalwa cells (a human B cell lymphoma cell line with a deletion  
179 of one chromosome 5) but was much less effective in inhibiting growth of KG-1 cells  
180 (human myeloblastic cell line, also with a deletion of one chromosome 5) and other cell  
181 lines without chromosome 5 deletions. Lenalidomide inhibited the growth of multiple  
182 myeloma cells from patients, as well as MM.1S cells (a human multiple myeloma cell  
183 line), by inducing cell cycle arrest and apoptosis.

184 Lenalidomide inhibited the expression of cyclooxygenase-2 (COX-2) but not COX-1 in  
185 vitro.

## 186 **Pharmacokinetics and Drug Metabolism:**

### 187 **Absorption:**

188 Lenalidomide, in healthy volunteers, is rapidly absorbed following oral administration  
189 with maximum plasma concentrations occurring between 0.625 and 1.5 hours post-dose.  
190 Co-administration with food does not alter the extent of absorption (AUC) but does  
191 reduce the maximal plasma concentration (C<sub>max</sub>) by 36%. The pharmacokinetic  
192 disposition of lenalidomide is linear. C<sub>max</sub> and AUC increase proportionately with  
193 increases in dose. Multiple dosing at the recommended dose-regimen does not result in  
194 drug accumulation.

195 Pharmacokinetic sampling in myelodysplastic syndromes (MDS) patients was not  
196 performed. In multiple myeloma patients maximum plasma concentrations occurred  
197 between 0.5 and 4.0 hours post-dose both on Days 1 and 28. AUC and C<sub>max</sub> values  
198 increase proportionally with dose following single and multiple doses. Exposure (AUC)  
199 in multiple myeloma patients is 57% higher than in healthy male volunteers.

## 200 **Pharmacokinetic Parameters:**

### 201 **Distribution:**

202 In vitro (<sup>14</sup>C)-lenalidomide binding to plasma proteins is approximately 30%.

### 203 **Metabolism and Excretion:**

204 The metabolic profile of lenalidomide in humans has not been studied. In healthy  
205 volunteers, approximately two-thirds of lenalidomide is eliminated unchanged through  
206 urinary excretion. The process exceeds the glomerular filtration rate and therefore is  
207 partially or entirely active. Half-life of elimination is approximately 3 hours.

### 208 **Special Populations:**

209 *Patients with Renal Insufficiency:* The pharmacokinetics of lenalidomide in MDS patients  
210 with renal dysfunction has not been determined. In multiple myeloma patients, those with  
211 mild renal impairment had an AUC 56% greater than those with normal renal function.  
212 (See **PRECAUTIONS: Renal Impairment**).

213 *Patients with Hepatic Disease:* The pharmacokinetics of lenalidomide in patients with  
214 hepatic impairment have not been studied.

215 *Age:* The effects of age on the pharmacokinetics of lenalidomide have not been studied.

216 *Pediatric:* No pharmacokinetic data are available in patients below the age of 18 years.

217 *Gender:* The effects of gender on the pharmacokinetics of lenalidomide have not been  
218 studied.

219 *Race:* Pharmacokinetic differences due to race have not been studied.

## 220 CLINICAL STUDIES

### 221 Myelodysplastic Syndromes (MDS) with a Deletion 5q Cytogenetic Abnormality

222 The efficacy and safety of REVLIMID<sup>®</sup> (lenalidomide) were evaluated in patients with  
223 transfusion dependent anemia in Low- or Intermediate-1- risk MDS with a 5q (q31-33)  
224 cytogenetic abnormality in isolation or with additional cytogenetic abnormalities, at a  
225 dose of 10 mg once daily or 10 mg once daily for 21 days every 28 days in an open-label,  
226 single arm, multi-center study. The major study was not designed nor powered to  
227 prospectively compare the efficacy of the 2 dosing regimens. Sequential dose reductions  
228 to 5 mg daily and 5 mg every other day, as well as dose delays, were allowed for toxicity.

229 This major study enrolled 148 patients who had RBC transfusion dependent anemia.  
230 RBC-transfusion dependence was defined as having received  $\geq 2$  units of RBCs within 8  
231 weeks prior to study treatment. The study enrolled patients with absolute neutrophil  
232 counts (ANC)  $\geq 500$  cells/mm<sup>3</sup>, platelet counts  $\geq 50,000$ /mm<sup>3</sup>, serum creatinine  $\leq 2.5$   
233 mg/dL, serum SGOT/AST or SGPT/ALT  $\leq 3.0$  x upper limit of normal (ULN), and  
234 serum direct bilirubin  $\leq 2.0$  mg/dL. Granulocyte colony-stimulating factor was permitted  
235 for patients who developed neutropenia or fever in association with neutropenia. Baseline  
236 patient and disease-related characteristics are summarized in Table 1.

| <b>Table 1: Baseline Demographic and Disease-Related Characteristics</b> |                            |
|--|----------------------------|
|  | <b>Overall<br/>(N=148)</b> |
| <b>Age (years)</b>   |                            |
| Median   | 71.0                       |
| Min, Max   | 37.0, 95.0                 |
| <b>Gender</b>  |                            |
|  | <b>n (%)</b>               |
| Male   | 51 (34.5)                  |
| Female   | 97 (65.5)                  |
| <b>Race</b>  |                            |
|  | <b>n (%)</b>               |
| White  | 143 (96.6)                 |
| Other  | 5 (3.4)                    |
| <b>Duration of MDS (years)</b>   |                            |
| Median   | 2.5                        |
| Min, Max   | 0.1, 20.7                  |
| <b>Del 5 (q31-33) Cytogenetic Abnormality</b>                            |                            |
|  | <b>n (%)</b>               |
| Yes  | 148 (100.0)                |
| Other cytogenetic abnormalities  | 37 ( 25.2)                 |
| <b>IPSS Score [a]</b>  |                            |
|  | <b>n (%)</b>               |
| Low (0)  | 55 (37.2)                  |
| Intermediate-1 (0.5-1.0)   | 65 (43.9)                  |
| Intermediate-2 (1.5-2.0)   | 6 ( 4.1)                   |
| High ( $\geq 2.5$ )  | 2 ( 1.4)                   |
| Missing  | 20 (13.5)                  |

| FAB Classification [b] from central review | n  | (%)    |
|--|----|--------|
| RA   | 77 | (52.0) |
| RARS                                       | 16 | (10.8) |
| RAEB                                       | 30 | (20.3) |
| CMM1                                       | 3  | (2.0)  |

[a] IPSS Risk Category: Low (combined score = 0), Intermediate-1 (combined score = 0.5 to 1.0), Intermediate-2 (combined score = 1.5 to 2.0), High (combined score  $\geq$  2.5); Combined score = (Marrow blast score + Karyotype score + Cytopenia score)

[b] French-American-British (FAB) classification of MDS.

237 The frequency of RBC-transfusion independence was modified from the International  
 238 Working Group (IWG) response criteria for MDS. RBC transfusion independence was  
 239 defined as the absence of any RBC transfusion during any consecutive “rolling” 56 days  
 240 (8 weeks) during the treatment period.

241 Transfusion independence was seen in 99/148 (67%) patients (95% CI [59, 74]). The  
 242 median duration from the date when RBC transfusion independence was first declared  
 243 (i.e., the last day of the 56-day RBC transfusion-free period) to the date when an  
 244 additional transfusion was received after the 56-day transfusion-free period among the 99  
 245 responders was 44 weeks (range of 0 to >67 weeks).

246 Ninety percent of patients who achieved a transfusion benefit did so by completion of  
 247 three months in the study.

248 RBC-transfusion independence rates were unaffected by age or gender.

249 The dose of REVLIMID<sup>®</sup> (lenalidomide) was reduced or interrupted at least once due to  
 250 an adverse event in 118 (79.7%) of the 148 patients; the median time to the first dose  
 251 reduction or interruption was 21 days (mean, 35.1 days; range, 2-253 days), and the  
 252 median duration of the first dose interruption was 22 days (mean, 28.5 days; range, 2-265  
 253 days). A second dose reduction or interruption due to adverse events was required in 50  
 254 (33.8%) of the 148 patients. The median interval between the first and second dose  
 255 reduction or interruption was 51 days (mean, 59.7 days; range, 15-205 days) and the  
 256 median duration of the second dose interruption was 21 days (mean, 26 days; range, 2-  
 257 148 days).

258 Granulocyte colony-stimulating factors were permitted for patients who developed  
 259 neutropenia or fever in association with neutropenia.

## 260 **Multiple Myeloma**

261 Two randomized studies (Studies 1 and 2) were conducted to evaluate the efficacy and  
 262 safety of REVLIMID<sup>®</sup> (lenalidomide). These multicenter, multinational, double-blind,  
 263 placebo-controlled studies compared REVLIMID<sup>®</sup> (lenalidomide) plus oral pulse high-  
 264 dose dexamethasone therapy to dexamethasone therapy alone, in patients with multiple  
 265 myeloma who had received at least one prior treatment.

266 In both studies, patients in the REVLIMID<sup>®</sup> (lenalidomide)/dexamethasone group took  
 267 25 mg of REVLIMID<sup>®</sup> (lenalidomide) orally once daily on Days 1 to 21 and a matching  
 268 placebo capsule once daily on Days 22 to 28 of each 28-day cycle. Patients in the  
 269 placebo/dexamethasone group took 1 placebo capsule on Days 1 to 28 of each 28-day



270 cycle. Patients in both treatment groups took 40 mg of dexamethasone orally once daily  
271 on Days 1 to 4, 9 to 12, and 17 to 20 of each 28-day cycle for the first 4 cycles of therapy.  
272 The dose of dexamethasone was reduced to 40 mg orally once daily on Days 1 to 4 of  
273 each 28-day cycle after the first 4 cycles of therapy. In both studies, treatment was to  
274 continue until disease progression.

275 In both studies, dose adjustments were allowed based on clinical and laboratory findings.  
276 Sequential dose reductions to 15 mg daily, 10 mg daily and 5 mg daily were allowed for  
277 toxicity. (See DOSAGE AND ADMINISTRATION Section).

278 Table 2 summarizes the baseline patient and disease characteristics in the two studies. In  
279 both studies, baseline demographic and disease-related characteristics were comparable  
280 between the REVLIMID<sup>®</sup> (lenalidomide)/dexamethasone and placebo/dexamethasone  
281 groups.

282 **Table 2 Baseline Demographic and Disease-related Characteristics - Studies 1 and 2**

|   | Study 1               |                      | Study 2               |                      |
|---|-----------------------|----------------------|-----------------------|----------------------|
|   | REVLIMID/Dex<br>N=170 | Placebo/Dex<br>N=171 | REVLIMID/Dex<br>N=176 | Placebo/Dex<br>N=175 |
| <b>Patient Characteristics</b>                    |                       |                      |                       |                      |
| Age (years)                                       |                       |                      |                       |                      |
| Median  | 64                    | 62                   | 63                    | 64                   |
| Min, Max  | 36, 86                | 37, 85               | 33, 84                | 40, 82               |
| Sex   |                       |                      |                       |                      |
| Male  | 102 (60%)             | 101 (59%)            | 104 (59%)             | 103 (59%)            |
| Female  | 68 (40%)              | 70 (41%)             | 72 (41%)              | 72 (41%)             |
| Race/Ethnicity                                    |                       |                      |                       |                      |
| White   | 134 (79%)             | 143 (84%)            | 172 (98%)             | 175 (100%)           |
| Other   | 36 (21%)              | 28 (16%)             | 4 (2%)                | 0 (0%)               |
| ECOG Performance Status 0-1                       | 151 (89%)             | 163 (95%)            | 150 (85%)             | 144 (82%)            |
| <b>Disease Characteristics</b>                    |                       |                      |                       |                      |
| Baseline Multiple Myeloma Stage<br>(Durie-Salmon) |                       |                      |                       |                      |
| I   | 2%                    | 2%                   | 6%                    | 5%                   |
| II  | 31%                   | 31%                  | 28%                   | 33%                  |
| III   | 67%                   | 67%                  | 65%                   | 63%                  |
| Baseline Creatinine (mg/dL)                       |                       |                      |                       |                      |
| Median  | 1.0                   | 1.0                  | 0.9                   | 0.9                  |
| Min, Max  | 0.4, 2.6              | 0.5, 2.4             | 0.3, 2.3              | 0.5, 2.3             |
| B2-microglobulin (mg/L)                           |                       |                      |                       |                      |
| Median  | 3.7                   | 3.3                  | 3.4                   | 3.3                  |
| Min, Max  | 1.1, 45               | 1.3, 15.2            | 1.0, 14.4             | 1.3, 25.3            |
| <b>Number of Prior Therapies</b>                  |                       |                      |                       |                      |
| No. of Prior Antimyeloma<br>Therapies             |                       |                      |                       |                      |
| 1   | 38%                   | 37%                  | 32%                   | 33%                  |
| ≥ 2   | 62%                   | 63%                  | 68%                   | 67%                  |
| <b>Types of Prior Therapies</b>                   |                       |                      |                       |                      |
| Stem Cell Transplantation                         | 60%                   | 60%                  | 56%                   | 54%                  |
| Thalidomide                                       | 42%                   | 46%                  | 30%                   | 38%                  |
| Dexamethasone                                     | 80%                   | 70%                  | 66%                   | 69%                  |
| Bortezomib  | 11%                   | 12%                  | 5%                    | 4%                   |
| Melphalan   | 34%                   | 31%                  | 56%                   | 52%                  |
| Doxorubicin                                       | 55%                   | 52%                  | 56%                   | 57%                  |

283

284 The primary efficacy endpoint in both studies was time to progression (TTP). TTP was  
 285 defined as the time from randomization to the first occurrence of progressive disease or  
 286 death due to progressive disease.

287  
 288 Preplanned interim analyses of both studies showed that the combination of REVLIMID<sup>®</sup>  
 289 (lenalidomide)/dexamethasone was significantly superior to dexamethasone alone for  
 290 TTP. The studies were unblinded to allow patients in the placebo/dexamethasone group  
 291 to receive treatment with the REVLIMID<sup>®</sup> (lenalidomide)/dexamethasone combination.

292  
 293 Table 3 summarizes TTP and response rates based on the best response assessments for  
 294 Studies 1 and 2.

295  
 296 **Table 3: Summary of Efficacy Analysis — Studies 1 and 2**

|                                       | <u>Study 1</u>                 |                      | <u>Study 2</u>        |                      |
|---------------------------------------|--------------------------------|----------------------|-----------------------|----------------------|
|                                       | REVLIMID/Dex<br>N=170          | Placebo/Dex<br>N=171 | REVLIMID/Dex<br>N=176 | Placebo/Dex<br>N=175 |
| <b>TTP</b>                            |                                |                      |                       |                      |
| Censored<br>n (%)                     | 115 (68)                       | 61 (36)              | 133 (76)              | 78 (45)              |
| Median TTP in<br>weeks<br>[95% CI]    | 37.1<br>[28, NE <sup>2</sup> ] | 19.9<br>[16, 22]     | NE <sup>2</sup>       | 20<br>[19.9, 21.6]   |
| Hazard Ratio <sup>3</sup><br>[95% CI] | 0.356 [0.257,0.494]            |                      | 0.392 [0.274,0.562]   |                      |
| Log-rank Test<br>p-Value <sup>1</sup> | <0.0001                        |                      | <0.0001               |                      |
| <b>Response</b>                       |                                |                      |                       |                      |
| Complete<br>Response (CR)<br>n (%)    | 14 (8)                         | 1 (1)                | 14 (8)                | 1 (1)                |
| Partial<br>Responses<br>(RR/PR) n (%) | 76 (44)                        | 27 (16)              | 76 (43)               | 33 (19)              |
| Overall<br>Response<br>n (%)          | 90 (53)                        | 28 (16)              | 90 (51)               | 34 (19)              |
| p-value                               | <0.0001                        |                      | <0.0001               |                      |
| Odds Ratio<br>[95% CI]                | 5.5 [3.3, 9.1]                 |                      | 4.3 [2.7, 7.0]        |                      |

297  
 298 <sup>1</sup> The p-value is based on a one-tailed unstratified log rank test.

299 <sup>2</sup> NE, Not Estimable due to short follow-up.

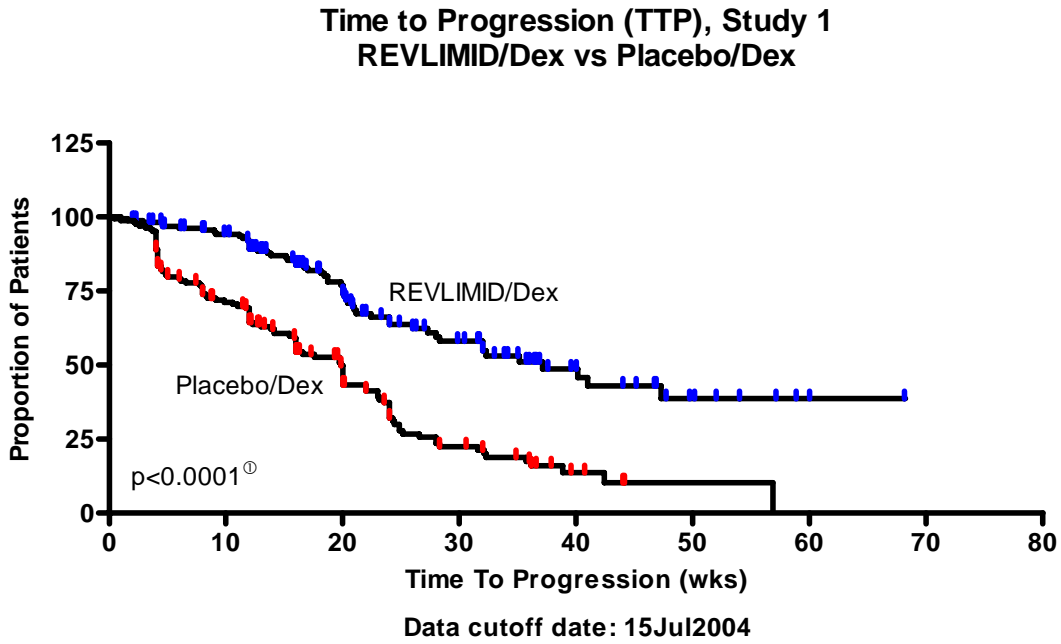
300 <sup>3</sup> Hazard Ratio of Revlimid/Dexamethasone to Placebo/Dexamethasone

301  
 302 Figures 1 and 2 depict the Kaplan-Meier estimates of TTP in Studies 1 and 2,  
 303 respectively.

304  
 305

306  
307  
308

Figure 1: Kaplan-Meier Estimate of Time to Progression — Study 1

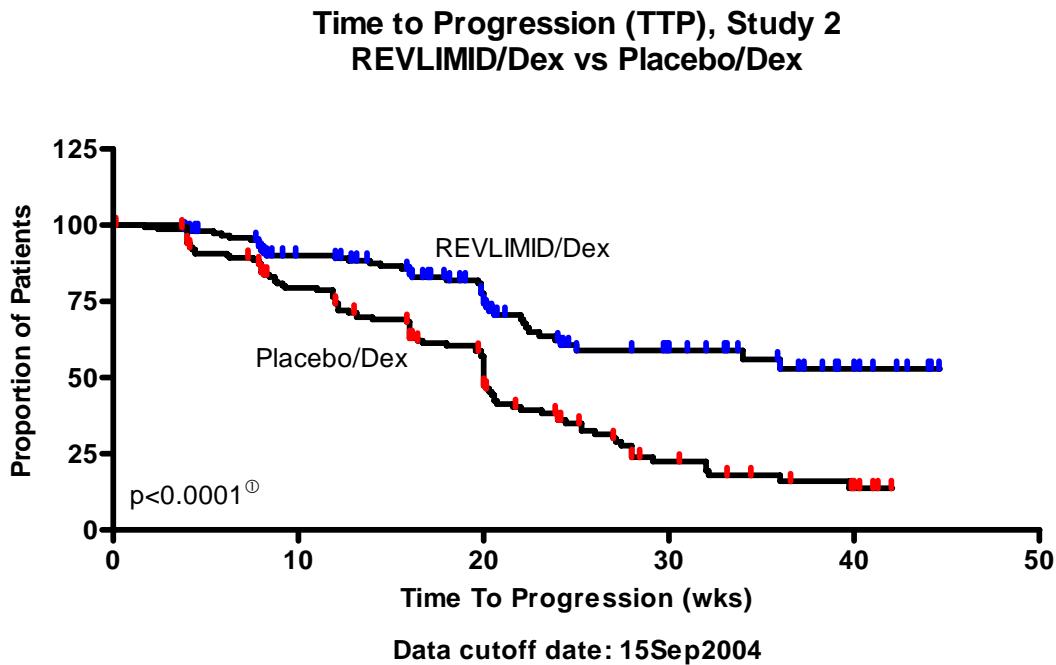


<sup>Ⓛ</sup> p-value from log-rank test

309  
310  
311  
312

The median duration of Study 1 follow-up was 20.1 weeks.

313 Figure 2: Kaplan-Meier Estimate of Time to Progression — Study 2  
314



① p-value from log-rank test

315

316 The median duration of Study 2 follow-up was 22.3 weeks.

317 **INDICATIONS AND USAGE:**

318 REVLIMID<sup>®</sup> (lenalidomide) is indicated for the treatment of patients with transfusion-  
319 dependent anemia due to Low- or Intermediate-1-risk myelodysplastic syndromes  
320 associated with a deletion 5q cytogenetic abnormality with or without additional  
321 cytogenetic abnormalities.

322 REVLIMID<sup>®</sup> (lenalidomide) in combination with dexamethasone is indicated for the  
323 treatment of multiple myeloma patients who have received at least one prior therapy.

324 **CONTRAINDICATIONS:**

325 **Pregnancy Category X: (See ‘BOXED WARNING’)**

326 Due to its structural similarities to thalidomide, a known human teratogen, lenalidomide  
327 is contraindicated in pregnant women and women capable of becoming pregnant. (See  
328 **BOXED WARNINGS**.) When there is no alternative, females of childbearing potential  
329 may be treated with lenalidomide provided adequate precautions are taken to avoid  
330 pregnancy. Females must commit either to abstain continuously from heterosexual  
331 sexual intercourse or to use two methods of reliable birth control, including at least one  
332 highly effective method (e.g., IUD, hormonal contraception, tubal ligation, or partner’s

333 vasectomy) and one additional effective method (e.g., latex condom, diaphragm, or  
334 cervical cap), beginning 4 weeks prior to initiating treatment with REVLIMID<sup>®</sup>  
335 (lenalidomide), during therapy with REVLIMID<sup>®</sup> (lenalidomide), during therapy delay,  
336 and continuing for 4 weeks following discontinuation of REVLIMID<sup>®</sup> (lenalidomide)  
337 therapy. If hormonal or IUD contraception is medically contraindicated, two other  
338 effective or highly effective methods may be used.

339 Females of childbearing potential being treated with REVLIMID<sup>®</sup> (lenalidomide) should  
340 have pregnancy testing (sensitivity of at least 50 mIU/mL). The first test should be  
341 performed within 10-14 days and the second test within 24 hours prior to beginning  
342 REVLIMID<sup>®</sup> (lenalidomide) therapy and then weekly during the first month of  
343 REVLIMID<sup>®</sup> (lenalidomide), then monthly thereafter in women with regular menstrual  
344 cycles or every 2 weeks in women with irregular menstrual cycles. Pregnancy testing  
345 and counseling should be performed if a patient misses her period or if there is any  
346 abnormality in menstrual bleeding. If pregnancy occurs, REVLIMID<sup>®</sup> (lenalidomide)  
347 must be immediately discontinued. Under these conditions, the patient should be referred  
348 to an obstetrician / gynecologist experienced in reproductive toxicity for further  
349 evaluation and counseling.

350 REVLIMID<sup>®</sup> (lenalidomide) is contraindicated in any patients who have demonstrated  
351 hypersensitivity to the drug or its components.

## 352 **WARNINGS:**

### 353 **Pregnancy Category X: (See ‘BOXED WARNING’ and CONTRAINDICATIONS)**

354 REVLIMID<sup>®</sup> (lenalidomide) is an analogue of thalidomide. Thalidomide is a known  
355 human teratogen that causes life-threatening human birth defects. REVLIMID<sup>®</sup>  
356 (lenalidomide) may cause fetal harm when administered to a pregnant female. Females of  
357 childbearing potential should be advised to avoid pregnancy while on REVLIMID<sup>®</sup>  
358 (lenalidomide). Two effective contraceptive methods should be used during therapy,  
359 during therapy interruptions and for at least 4 weeks after completing therapy.

360 There are no adequate and well-controlled studies in pregnant females.

361 Because of this potential toxicity and to avoid fetal exposure to REVLIMID<sup>®</sup>  
362 (lenalidomide), REVLIMID<sup>®</sup> (lenalidomide) is only available under a special restricted  
363 distribution program. This program is called "RevAssist<sup>SM</sup>".

364 Lenalidomide has been shown to have an embryocidal effect in rabbits at a dose of 50  
365 mg/kg (approximately 120 times the human dose of 10 mg based on body surface area).

366 An embryo-fetal development study in rats revealed no teratogenic effects at the highest  
367 dose of 500 mg/kg (approximately 600 times the human dose of 10 mg based on body  
368 surface area). At 100, 300 or 500 mg/kg/day there was minimal maternal toxicity that  
369 included slight, transient, reduction in mean body weight gain and food intake. However

370 this animal model may not adequately address the full spectrum of the potential embryo-  
371 fetal developmental effects of lenalidomide.

372 A pre- and post-natal development study in rats revealed few adverse effects on the  
373 offspring of female rats treated with lenalidomide at doses up to 500 mg/kg  
374 (approximately 600 times the human dose of 10 mg based on body surface area). The  
375 male offspring exhibited slightly delayed sexual maturation and the female offspring had  
376 slightly lower body weight gains during gestation when bred to male offspring.

377 Reproductive effects of lenalidomide have not been thoroughly assessed. The structural  
378 similarity of lenalidomide to thalidomide, a known human teratogen, suggests a potential  
379 risk to the developing fetus.

#### 380 **HEMATOLOGIC TOXICITY (NEUTROPENIA AND THROMBOCYTOPENIA):**

381 **This drug is associated with significant neutropenia and thrombocytopenia.**

382 **Eighty percent of patients with del 5q MDS had to have a dose delay or reduction**  
383 **during the major study for the indication. Thirty-four percent of patients had to**  
384 **have a second dose delay/reduction. Grade 3 or 4 hematologic toxicity was seen in**  
385 **80% of patients enrolled in the study. In the 48% of patients who developed Grade**  
386 **3 or 4 neutropenia, the median time to onset was 42 days (range, 14 – 411 days), and**  
387 **the median time to documented recovery was 17 days (range, 2 – 170 days). In the**  
388 **54% of patients who developed Grade 3 or 4 thrombocytopenia, the median time to**  
389 **onset was 28 days (range, 8 - 290 days), and the median time to documented**  
390 **recovery was 22 days (range, 5 – 224 days). Patients on therapy for del 5q**  
391 **myelodysplastic syndromes should have their complete blood counts monitored**  
392 **weekly for the first 8 weeks of therapy and at least monthly thereafter. Patients**  
393 **may require dose interruption and/or reduction. Patients may require use of blood**  
394 **product support and/or growth factors. See DOSAGE AND ADMINISTRATION.**

395 **In the pooled multiple myeloma studies Grade 3 and 4 hematologic toxicities were**  
396 **more frequent in patients treated with the combination of REVLIMID<sup>®</sup>**  
397 **(lenalidomide) and dexamethasone than in patients treated with dexamethasone**  
398 **alone. See ADVERSE REACTIONS Table 7. Patients on therapy should have their**  
399 **complete blood counts monitored every 2 weeks for the first 12 weeks and then**  
400 **monthly thereafter. Patients may require dose interruption and/or dose reduction.**  
401 **See DOSAGE AND ADMINISTRATION**

#### 402 **DEEP VENOUS THROMBOSIS AND PULMONARY EMBOLISM:**

403 **This drug has demonstrated a significantly increased risk of DVT and PE in**  
404 **patients with multiple myeloma who were treated with REVLIMID<sup>®</sup> (lenalidomide)**  
405 **combination therapy. Patients and physicians are advised to be observant for the**  
406 **signs and symptoms of thromboembolism. Patients should be instructed to seek**  
407 **medical care if they develop symptoms such as shortness of breath, chest pain, or**  
408 **arm or leg swelling. It is not known whether prophylactic anticoagulation or**

409 **antiplatelet therapy prescribed in conjunction with REVLIMID<sup>®</sup> (lenalidomide)**  
410 **may lessen the potential for venous thromboembolic events. The decision to take**  
411 **prophylactic measures should be done carefully after an assessment of an individual**  
412 **patient's underlying risk factors. See ADVERSE REACTIONS Table 7.**

413

#### 414 **PRECAUTIONS:**

##### 415 **General:**

416 No formal studies have been conducted in patients with renal impairment. This drug is  
417 known to be excreted by the kidney, and the risk of adverse reactions to this drug may be  
418 greater in patients with impaired renal function.

##### 419 **Information for Patients:**

420 Patients should be counseled on lenalidomide's potential risk of teratogenicity due to its  
421 structural similarity to thalidomide. Patients may only acquire a prescription for  
422 REVLIMID<sup>®</sup> (lenalidomide) therapy through a controlled distribution program  
423 (RevAssist<sup>SM</sup>) through contracted pharmacies. Female patients of childbearing potential  
424 will be educated and counseled on the requirements of the RevAssist<sup>SM</sup> program and the  
425 precautions to be taken to preclude fetal exposure to REVLIMID<sup>®</sup> (lenalidomide).  
426 Patients should become familiar with the REVLIMID<sup>®</sup> RevAssist<sup>SM</sup> educational  
427 materials, Patient Medication Guide, and direct any questions to their physician or  
428 pharmacist prior to starting REVLIMID<sup>®</sup> (lenalidomide) therapy.

##### 429 **Laboratory tests:**

430 The MDS clinical study enrolled patients with absolute neutrophil counts (ANC)  $\geq 500$   
431 cells/mm<sup>3</sup>, platelet counts  $\geq 50,000$ /mm<sup>3</sup>, serum creatinine  $\leq 2.5$  mg/dL, serum  
432 SGOT/AST or SGPT/ALT  $\leq 3.0$  x upper limit of normal (ULN), and serum direct  
433 bilirubin  $\leq 2.0$  mg/dL. A complete blood cell count (CBC), including white blood cell  
434 count with differential, platelet count, hemoglobin, and hematocrit should be performed  
435 weekly for the first 8 weeks of REVLIMID<sup>®</sup> (lenalidomide) treatment and monthly  
436 thereafter to monitor for cytopenias.

437 The multiple myeloma studies 1 and 2 enrolled patients with absolute neutrophil counts  
438 (ANC)  $\geq 1000$  cells/mm<sup>3</sup>, platelet counts  $\geq 75,000$ /mm<sup>3</sup>, serum creatinine  $\leq 2.5$  mg/dL,  
439 serum SGOT/AST or SGPT/ALT  $\leq 3.0$  x upper limit of normal (ULN), and serum direct  
440 bilirubin  $\leq 2.0$  mg/dL. A CBC should be performed every two weeks for the first three  
441 months and at least monthly thereafter to monitor for cytopenias.

##### 442 **Drug Interactions:**

443 Results from human in vitro metabolism studies and nonclinical studies show that  
444 REVLIMID<sup>®</sup> (lenalidomide) is neither metabolized by nor inhibits or induces the



445 cytochrome P450 pathway suggesting that lenalidomide is not likely to cause or be  
446 subject to P450-based metabolic drug interactions in man.

447 Co-administration of multiple doses of 10 mg of lenalidomide had no effect on the single  
448 dose pharmacokinetics of R- and S- **warfarin**. Co-administration of single 25-mg dose  
449 **warfarin** had no effect on the pharmacokinetics of total lenalidomide. Expected changes  
450 in laboratory assessments of PT and INR were observed after **warfarin** administration,  
451 but these changes were not affected by concomitant lenalidomide administration.

452 When **digoxin** was co-administered with lenalidomide the **digoxin** AUC was not  
453 significantly different, however, the **digoxin** C<sub>max</sub> was increased by 14%. Periodic  
454 monitoring of **digoxin** plasma levels, in accordance with clinical judgment and based on  
455 standard clinical practice in patients receiving this medication, is recommended during  
456 administration of lenalidomide.

#### 457 **Carcinogenesis, mutagenesis, impairment of fertility:**

458 Carcinogenicity: Carcinogenicity studies with lenalidomide have not been conducted.

459 Mutagenesis: Lenalidomide did not induce mutation in the Ames test, chromosome  
460 aberrations in cultured human peripheral blood lymphocytes, or mutation at the  
461 thymidine kinase (tk) locus of mouse lymphoma L5178Y cells. Lenalidomide did not  
462 increase morphological transformation in Syrian Hamster Embryo assay or induce  
463 micronuclei in the polychromatic erythrocytes of the bone marrow of male rats.

464 Fertility: A fertility and early embryonic development study in rats, with administration  
465 of lenalidomide up to 500 mg/kg (approximately 600 times the human dose of 10 mg,  
466 based on body surface area) produced no parental toxicity and no adverse effects on  
467 fertility.

#### 468 **Pregnancy:**

#### 469 **Pregnancy Category X: (See ‘BOXED WARNINGS’ and CONTRAINDICATIONS)**

470 Because of the structural similarity to thalidomide, a known human teratogen, and the  
471 lack of sufficient information regarding lenalidomide’s teratogenic potential,  
472 REVLIMID<sup>®</sup> (lenalidomide) is contraindicated in females who are or may become  
473 pregnant and who are not using the two required types of birth control or who are not  
474 continually abstaining from reproductive heterosexual sexual intercourse. REVLIMID<sup>®</sup>  
475 (lenalidomide) should not be used by females who are pregnant or who could become  
476 pregnant while taking the drug. If pregnancy does occur during treatment, the drug  
477 should be immediately discontinued. Under these conditions, the patient should be  
478 referred to an obstetrician / gynecologist experienced in reproductive toxicity for further  
479 evaluation and counseling. Any suspected fetal exposure to REVLIMID<sup>®</sup> (lenalidomide)  
480 should be reported to the FDA via the MedWatch program at 1-800-FDA-1088 and also  
481 to Celgene Corporation at 1-888-423-5436.

482 **Use in Nursing Mothers:**

483 It is not known whether this drug is excreted in human milk. Because many drugs are  
484 excreted in human milk and because of the potential for adverse reactions in nursing  
485 infants from lenalidomide, a decision should be made whether to discontinue nursing or  
486 to discontinue the drug, taking into account the importance of the drug to the mother.

487 **Pediatric Use:**

488 Safety and effectiveness in pediatric patients below the age of 18 have not been  
489 established.

490 **Geriatric Use:**

491 REVLIMID<sup>®</sup> (lenalidomide) has been used in del 5q MDS clinical trials in patients up to  
492 95 years of age.

493 Of the 148 patients with del 5q MDS enrolled in the major study, 38% were age 65 and  
494 over, while 33% were age 75 and over. Although the overall frequency of adverse events  
495 (100%) was the same in patients over 65 years of age as in younger patients, the  
496 frequency of serious adverse events was higher in patients over 65 years of age than in  
497 younger patients (54% vs. 33%). A greater proportion of patients over 65 years of age  
498 discontinued from the clinical studies because of adverse events than the proportion of  
499 younger patients (27% vs. 16%). No differences in efficacy were observed between  
500 patients over 65 years of age and younger patients.

501 REVLIMID<sup>®</sup> (lenalidomide) has been used in multiple myeloma (MM) clinical trials in  
502 patients up to 86 years of age.

503

504 Of the 692 MM patients enrolled in Studies 1 and 2, 45% were age 65 or over while 12%  
505 of patients were age 75 and over. The percentage of patients age 65 or over was not  
506 significantly different between the REVLIMID<sup>®</sup> (lenalidomide)/dexamethasone and  
507 placebo/dexamethasone groups. Of the 346 patients who received REVLIMID<sup>®</sup>  
508 (lenalidomide)/dexamethasone, 46% were age 65 and over. In both studies, patients > 65  
509 years of age were more likely than patients ≤ 65 years of age to experience diarrhea,  
510 fatigue, pulmonary embolism, and syncope following use of REVLIMID<sup>®</sup>  
511 (lenalidomide). No differences in efficacy were observed between patients over 65 years  
512 of age and younger patients.

513

514 This drug is known to be substantially excreted by the kidney, and the risk of toxic  
515 reactions to this drug may be greater in patients with impaired renal function. Because  
516 elderly patients are more likely to have decreased renal function, care should be taken in  
517 dose selection, and it would be prudent to monitor renal function.

518 **Renal Impairment:**

519 This drug is known to be substantially excreted by the kidney, and the risk of toxic  
 520 reactions to this drug is expected to be greater in patients with impaired renal function.  
 521 Patients with renal insufficiency were excluded from the clinical trials, and those who  
 522 developed renal insufficiency during the clinical trials had the drug held. Care should be  
 523 taken in dose selection, and it would be prudent to monitor renal function.

524 **ADVERSE REACTIONS:**

525 **Myelodysplastic Syndromes**

526 A total of 148 patients received at least 1 dose of 10 mg lenalidomide in the del 5q MDS  
 527 clinical study. At least one adverse event was reported in all of the 148 patients who were  
 528 treated with the 10 mg starting dose of REVLIMID<sup>®</sup> (lenalidomide). The most frequently  
 529 reported adverse events were related to blood and lymphatic system disorders, skin and  
 530 subcutaneous tissue disorders, gastrointestinal disorders, and general disorders and  
 531 administrative site conditions. (See **PRECAUTIONS**)

532 Thrombocytopenia (61.5%; 91/148) and neutropenia (58.8%; 87/148) were the most  
 533 frequently reported adverse events observed. The next most common adverse events  
 534 observed were diarrhea (48.6%; 72/148), pruritis (41.9%; 62/148), rash (35.8%; 53/148)  
 535 and fatigue (31.1%; 46/148). Table 4 summarizes the adverse events that were reported  
 536 in  $\geq 5\%$  of the REVLIMID<sup>®</sup> (lenalidomide) treated patients in the del 5q MDS clinical  
 537 study. Table 5 summarizes the most frequently observed Grade 3 and Grade 4 adverse  
 538 reactions regardless of relationship to treatment with REVLIMID<sup>®</sup> (lenalidomide). In the  
 539 single-arm studies conducted, it is often not possible to distinguish adverse events that are  
 540 drug-related and those that reflect the patient's underlying disease.

| Table 4 Summary of adverse events reported in $\geq 5\%$ of the REVLIMID <sup>®</sup> (lenalidomide) treated patients in del 5q MDS Clinical Study |                       |
|--|-----------------------|
| System organ class/ Preferred term [a]   | 10 mg Overall (N=148) |
| PATIENTS WITH AT LEAST ONE ADVERSE EVENT   | 148 (100.0)           |
| <b>BLOOD AND LYMPHATIC SYSTEM DISORDERS</b>  |                       |
| THROMBOCYTOPENIA   | 91 ( 61.5)            |
| NEUTROPENIA  | 87 ( 58.8)            |
| ANEMIA NOS   | 17 ( 11.5)            |
| LEUKOPENIA NOS   | 12 ( 8.1)             |
| FEBRILE NEUTROPENIA  | 8 ( 5.4)              |
| <b>SKIN AND SUBCUTANEOUS TISSUE DISORDERS</b>  |                       |
| PRURITUS   | 62 ( 41.9)            |
| RASH NOS   | 53 ( 35.8)            |
| DRY SKIN   | 21 ( 14.2)            |
| CONTUSION  | 12 ( 8.1)             |
| NIGHT SWEATS   | 12 ( 8.1)             |
| SWEATING INCREASED   | 10 ( 6.8)             |
| ECCHYMOSIS   | 8 ( 5.4)              |
| ERYTHEMA   | 8 ( 5.4)              |
| <b>GASTROINTESTINAL DISORDERS</b>  |                       |
| DIARRHEA NOS   | 72 ( 48.6)            |
| CONSTIPATION   | 35 ( 23.6)            |
| NAUSEA   | 35 ( 23.6)            |
| ABDOMINAL PAIN NOS   | 18 ( 12.2)            |
| VOMITING NOS   | 15 ( 10.1)            |
| ABDOMINAL PAIN UPPER   | 12 ( 8.1)             |
| DRY MOUTH  | 10 ( 6.8)             |
| LOOSE STOOLS   | 9 ( 6.1)              |
| <b>RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS</b>   |                       |
| NASOPHARYNGITIS  | 34 ( 23.0)            |

|   |            |
|---|------------|
| COUGH   | 29 ( 19.6) |
| DYSPNEA NOS   | 25 ( 16.9) |
| PHARYNGITIS   | 23 ( 15.5) |
| EPISTAXIS   | 22 ( 14.9) |
| DYSPNOEA EXERTIONAL   | 10 ( 6.8)  |
| RHINITIS NOS  | 10 ( 6.8)  |
| BRONCHITIS NOS  | 9 ( 6.1)   |
| <b>GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS</b> |            |
| FATIGUE   | 46 ( 31.1) |
| PYREXIA   | 31 ( 20.9) |
| EDEMA PERIPHERAL  | 30 ( 20.3) |
| ASTHENIA  | 22 ( 14.9) |
| EDEMA NOS   | 15 ( 10.1) |
| PAIN NOS  | 10 ( 6.8)  |
| RIGORS  | 9 ( 6.1)   |
| CHEST PAIN  | 8 ( 5.4)   |
| <b>MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS</b>      |            |
| ARTHRALGIA  | 32 ( 21.6) |
| BACK PAIN   | 31 ( 20.9) |
| MUSCLE CRAMP  | 27 ( 18.2) |
| PAIN IN LIMB  | 16 ( 10.8) |
| MYALGIA   | 13 ( 8.8)  |
| PERIPHERAL SWELLING   | 12 ( 8.1)  |
| <b>NERVOUS SYSTEM DISORDERS</b>                             |            |
| DIZZINESS   | 29 ( 19.6) |
| HEADACHE  | 29 ( 19.6) |
| HYPOASTHESIA  | 10 ( 6.8)  |
| DYSGEUSIA   | 9 ( 6.1)   |
| PERIPHERAL NEUROPATHY NOS                                   | 8 ( 5.4)   |
| <b>INFECTIONS AND INFESTATIONS</b>                          |            |
| UPPER RESPIRATORY TRACT INFECTION NOS                       | 22 ( 14.9) |
| PNEUMONIA NOS   | 17 ( 11.5) |
| URINARY TRACT INFECTION NOS                                 | 16 ( 10.8) |
| SINUSITIS NOS   | 12 ( 8.1)  |
| CELLULITIS  | 8 ( 5.4)   |
| <b>METABOLISM AND NUTRITION DISORDERS</b>                   |            |
| HYPOKALAEMIA  | 16 ( 10.8) |
| ANOREXIA  | 15 ( 10.1) |
| HYPOMAGNESAEMIA   | 9 ( 6.1)   |
| <b>INVESTIGATIONS</b>                                       |            |
| ALANINE AMINOTRANSFERASE INCREASED                          | 12 ( 8.1)  |
| <b>PSYCHIATRIC DISORDERS</b>                                |            |
| INSOMNIA  | 15 ( 10.1) |
| DEPRESSION  | 8 ( 5.4)   |
| <b>VASCULAR DISORDERS</b>                                   |            |
| HYPERTENSION NOS  | 9 ( 6.1)   |
| <b>RENAL AND URINARY DISORDERS</b>                          |            |
| DYSURIA   | 10 ( 6.8)  |
| <b>CARDIAC DISORDERS</b>                                    |            |
| PALPITATIONS  | 8 ( 5.4)   |
| <b>ENDOCRINE DISORDERS</b>                                  |            |
| ACQUIRED HYPOTHYROIDISM                                     | 10 ( 6.8)  |

NOS, not otherwise specified

[a] System organ classes and preferred terms are coded using the MedDRA dictionary. System organ classes and preferred terms are listed in descending order of frequency for the Overall column.

A patient with multiple occurrences of an AE is counted only once in the AE category.

541

| <b>Table 5 Most Frequently Observed Grade 3 and 4 Adverse Events [1]<br/>Regardless of Relationship to Study Drug Treatment</b> |                          |
|---|--------------------------|
| <b>Preferred term [2]</b>   | <b>10 mg<br/>(N=148)</b> |
| PATIENTS WITH AT LEAST ONE GR 3 / 4 AE  | 131 (88.5)               |
| NEUTROPENIA   | 79 (53.4)                |
| THROMBOCYTOPENIA  | 74 (50.0)                |
| PNEUMONIA NOS   | 11 ( 7.4)                |
| RASH NOS  | 10 ( 6.8)                |
| ANAEMIA NOS   | 9 ( 6.1)                 |
| LEUKOPENIA NOS  | 8 ( 5.4)                 |
| FATIGUE   | 7 ( 4.7)                 |

|   |          |
|---|----------|
| DYSPNEA   | 7 ( 4.7) |
| BACK PAIN   | 7 ( 4.7) |
| FEBRILE NEUTROPENIA   | 6 ( 4.1) |
| NAUSEA  | 6 ( 4.1) |
| DIARRHEA NOS  | 5 ( 3.4) |
| PYREXIA   | 5 ( 3.4) |
| SEPSIS  | 4 ( 2.7) |
| DIZZINESS   | 4 ( 2.7) |
| GRANULOCYTOPENIA  | 3 ( 2.0) |
| CHEST PAIN  | 3 ( 2.0) |
| PULMONARY EMBOLISM  | 3 ( 2.0) |
| RESPIRATORY DISTRESS  | 3 ( 2.0) |
| PRURITUS  | 3 ( 2.0) |
| PANCYTOPENIA  | 3 ( 2.0) |
| MUSCLE CRAMP  | 3 ( 2.0) |
| RESPIRATORY TRACT INFECTION   | 2 ( 1.4) |
| UPPER RESPIRATORY TRACT INFECTION   | 2 ( 1.4) |
| ASTHENIA  | 2 ( 1.4) |
| MULTI-ORGAN FAILURE   | 2 ( 1.4) |
| EPISTAXIS   | 2 ( 1.4) |
| HYPOXIA   | 2 ( 1.4) |
| PLEURAL EFFUSION  | 2 ( 1.4) |
| PNEUMONITIS NOS   | 2 ( 1.4) |
| PULMONARY HYPERTENSION NOS  | 2 ( 1.4) |
| VOMITING NOS  | 2 ( 1.4) |
| SWEATING INCREASED  | 2 ( 1.4) |
| ARTHRALGIA  | 2 ( 1.4) |
| PAIN IN LIMB  | 2 ( 1.4) |
| HEADACHE  | 2 ( 1.4) |
| SYNCOPE   | 2 ( 1.4) |
| [1] Adverse events with frequency $\geq 1\%$ in the 10 mg Overall group. Grade 3 and 4 are based on National Cancer Institute Common Toxicity Criteria version 2. |          |
| [2] Preferred Terms are coded using the MedDRA dictionary. A patient with multiple occurrences of an AE is counted only once in the Preferred Term category.      |          |

542 In other clinical studies of REVLIMID<sup>®</sup> (lenalidomide) in MDS patients, the following  
543 serious adverse events (regardless of relationship to study drug treatment) not described  
544 in Table 4 or 5 were reported:

545 **Blood and lymphatic system disorders:** warm type hemolytic anemia, splenic  
546 infarction, bone marrow depression NOS, coagulopathy, hemolysis NOS, hemolytic  
547 anemia NOS, refractory anemia

548 **Cardiac disorders:** cardiac failure congestive, atrial fibrillation, angina pectoris, cardiac  
549 arrest, cardiac failure NOS, cardio-respiratory arrest, cardiomyopathy NOS, myocardial  
550 infarction, myocardial ischemia, atrial fibrillation aggravated, bradycardia NOS,  
551 cardiogenic shock, pulmonary edema NOS, supraventricular arrhythmia NOS,  
552 tachyarrhythmia, ventricular dysfunction

553 **Ear and labyrinth disorders:** vertigo

554 **Endocrine disorders:** Basedow's disease

555 **Gastrointestinal disorders:** gastrointestinal hemorrhage NOS, colitis ischemic,  
556 intestinal perforation NOS, rectal hemorrhage, colonic polyp, diverticulitis NOS,  
557 dysphagia, gastritis NOS, gastroenteritis NOS, gastroesophageal reflux disease,  
558 obstructive inguinal hernia, irritable bowel syndrome, melena, pancreatitis due to biliary  
559 obstruction, pancreatitis NOS, perirectal abscess, small intestinal obstruction NOS, upper  
560 gastrointestinal hemorrhage

561 **General disorders and administration site conditions:** disease progression NOS, fall,  
562 gait abnormal, intermittent pyrexia, nodule, rigors, sudden death

563 **Hepatobiliary disorders:** hyperbilirubinemia, cholecystitis acute NOS, cholecystitis  
564 NOS, hepatic failure

565 **Immune system disorders:** hypersensitivity NOS

566 **Infections and infestations:** infection NOS, bacteremia, central line infection, clostridial  
567 infection NOS, ear infection NOS, *Enterobacter* sepsis, fungal infection NOS, herpes  
568 viral infection NOS, influenza, kidney infection NOS, *Klebsiella* sepsis, lobar pneumonia  
569 NOS, localized infection, oral infection, *Pseudomonas* infection NOS, septic shock,  
570 sinusitis acute NOS, sinusitis NOS, *Staphylococcal* infection, urosepsis

571 **Injury, poisoning and procedural complications:** femur fracture, transfusion reaction,  
572 cervical vertebral fracture, femoral neck fracture, fractured pelvis NOS, hip fracture,  
573 overdose NOS, post procedural hemorrhage, rib fracture, road traffic accident, spinal  
574 compression fracture

575 **Investigations:** blood creatinine increased, culture NOS negative, hemoglobin decreased,  
576 liver function tests NOS abnormal, troponin I increased

577 **Metabolism and nutrition disorders:** dehydration, gout, hypernatremia, hypoglycemia  
578 NOS

579 **Musculoskeletal and connective tissue disorders:** arthritis NOS, arthritis NOS  
580 aggravated, gouty arthritis, neck pain, chondrocalcinosis pyrophosphate

581 **Neoplasms benign, malignant and unspecified:** acute leukemia NOS, acute myeloid  
582 leukemia NOS, bronchoalveolar carcinoma, lung cancer metastatic, lymphoma NOS,  
583 prostate cancer metastatic

584 **Nervous system disorders:** cerebrovascular accident, aphasia, cerebellar infarction,  
585 cerebral infarction, depressed level of consciousness, dysarthria, migraine NOS, spinal  
586 cord compression NOS, subarachnoid hemorrhage NOS, transient ischemic attack

587 **Psychiatric disorders:** confusional state

588 **Renal and urinary disorders:** renal failure NOS, hematuria, renal failure acute,  
589 azotemia, calculus ureteric, renal mass NOS

590 **Reproductive system and breast disorders:** pelvic pain NOS

591 **Respiratory, thoracic and mediastinal disorders:** bronchitis NOS, chronic obstructive  
592 airways disease exacerbated, respiratory failure, dyspnea exacerbated, interstitial lung  
593 disease, lung infiltration NOS, wheezing

594 **Skin and subcutaneous tissue disorders:** acute febrile neutrophilic dermatosis

595 **Vascular system disorders:** deep vein thrombosis, hypotension NOS, aortic disorder,  
596 ischemia NOS, thrombophlebitis superficial, thrombosis

597 **Multiple Myeloma**

598

599 Data were evaluated from 691 patients in two studies who received at least one dose of  
600 REVLIMID<sup>®</sup> (lenalidomide)/dexamethasone (346 patients) or placebo/dexamethasone  
601 (345 patients). In the REVLIMID<sup>®</sup> (lenalidomide) /dexamethasone treatment group, 151  
602 patients (45%) underwent at least one dose interruption with or without a dose reduction  
603 of REVLIMID<sup>®</sup> (lenalidomide) compared to 21% in the placebo/dexamethasone  
604 treatment group. Of these patients who had one dose interruption with or without a dose  
605 reduction, 50% in the REVLIMID<sup>®</sup> (lenalidomide) /dexamethasone treatment group  
606 underwent at least one additional dose interruption with or without a dose reduction  
607 compared to 21% in the placebo/dexamethasone treatment group. Most adverse events  
608 and Grade 3/4 adverse events were more frequent in patients who received the  
609 combination of REVLIMID<sup>®</sup> (lenalidomide)/dexamethasone compared to  
610 placebo/dexamethasone.

611

612 Table 6 summarizes the number and percentage of patients with Grade 1-4 adverse events  
613 reported in  $\geq 10\%$  of patients in either treatment group in Studies 1 and 2.

614

| Table 6: Number of Patients with Adverse Events Reported in at Least 10% of Patients<br>in Either Treatment Group in Studies 1 and 2<br>(Safety population) |              |             |
|---|--------------|-------------|
| System organ class/ Preferred term  | Revlimid/Dex | Placebo/Dex |
|   | N=346        | (N=345)     |
|   | n (%)        | n (%)       |
| Subjects with at least one adverse event  | 346 (100.0)  | 344 (99.7)  |
| BLOOD AND LYMPHATIC SYSTEM DISORDERS  |              |             |
| NEUTROPENIA   | 96 (27.7)    | 16 (4.6)    |
| ANAEMIA NOS   | 84 (24.3)    | 60 (17.4)   |
| THROMBOCYTOPENIA  | 59 (17.1)    | 34 (9.9)    |
| EYE DISORDERS   |              |             |
| VISION BLURRED  | 51 (14.7)    | 36 (10.4)   |
| GASTROINTESTINAL DISORDERS  |              |             |
| CONSTIPATION  | 134 (38.7)   | 64 (18.6)   |
| DIARRHOEA NOS   | 101 (29.2)   | 85 (24.6)   |
| NAUSEA  | 76 (22.0)    | 66 (19.1)   |
| DYSPEPSIA   | 48 (13.9)    | 46 (13.3)   |
| VOMITING NOS  | 35 (10.1)    | 28 (8.1)    |
| GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS  |              |             |
| FATIGUE   | 133 (38.4)   | 129 (37.4)  |
| ASTHENIA  | 81 (23.4)    | 86 (24.9)   |
| PYREXIA   | 80 (23.1)    | 67 (19.4)   |
| OEDEMA PERIPHERAL   | 73 (21.1)    | 65 (18.8)   |
| INFECTIONS AND INFESTATIONS   |              |             |
| UPPER RESPIRATORY TRACT INFECTION NOS   | 47 (13.6)    | 43 (12.5)   |
| PNEUMONIA NOS   | 39 (11.3)    | 26 (7.5)    |
| INVESTIGATIONS  |              |             |
| WEIGHT DECREASED  | 63 (18.2)    | 48 (13.9)   |
| METABOLISM AND NUTRITION DISORDERS  |              |             |
| HYPERGLYCAEMIA NOS  | 52 (15.0)    | 49 (14.2)   |
| ANOREXIA  | 47 (13.6)    | 30 (8.7)    |
| HYPOKALAEMIA  | 39 (11.3)    | 18 (5.2)    |
| MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS   |              |             |
| MUSCLE CRAMP  | 104 (30.1)   | 71 (20.6)   |
| BACK PAIN   | 53 (15.3)    | 49 (14.2)   |
| MUSCLE WEAKNESS NOS   | 52 (15.0)    | 53 (15.4)   |
| ARTHRALGIA  | 36 (10.4)    | 51 (14.8)   |
| NERVOUS SYSTEM DISORDERS  |              |             |
| HEADACHE  | 74 (21.4)    | 74 (21.4)   |
| DIZZINESS   | 72 (20.8)    | 53 (15.4)   |
| TREMOR  | 68 (19.7)    | 24 (7.0)    |
| DYSGEUSIA   | 46 (13.3)    | 32 (9.3)    |
| PARAESTHESIA  | 40 (11.6)    | 43 (12.5)   |
| PSYCHIATRIC DISORDERS   |              |             |
| INSOMNIA  | 111 (32.1)   | 128 (37.1)  |
| RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS   |              |             |
| DYSPNOEA NOS  | 70 (20.2)    | 53 (15.4)   |
| COUGH   | 50 (14.5)    | 71 (20.6)   |
| SKIN AND SUBCUTANEOUS TISSUE DISORDERS  |              |             |
| RASH NOS  | 55 (15.9)    | 28 (8.1)    |
| VASCULAR DISORDERS  |              |             |
| DEEP VEIN THROMBOSIS <sup>a</sup>   | 27 (7.8)     | 11 (3.2)    |
| PULMONARY EMBOLISM <sup>a</sup>   | 11 (3.2)     | 3 (0.9)     |

<sup>a</sup> See WARNINGS



617

618 Table 7 summarizes the Grade 3/4 adverse events reported in  $\geq 2\%$  of patients in either  
 619 treatment group in Studies 1 and 2.

**Table 7: Adverse Events with NCI CTC Grades 3 and 4 Reported In At Least 2% of Patients by Preferred Term and Treatment Group - (Safety Population)**

| System organ class/ Preferred term                          | Revlimid/Dex (N=346) |                  | Placebo/Dex (N=345) |                  |
|---|----------------------|------------------|---------------------|------------------|
|   | Grade 3<br>n (%)     | Grade 4<br>n (%) | Grade 3<br>n (%)    | Grade 4<br>n (%) |
| Patients with at least one Grade 3 or 4 AE                  | 225 ( 65.0)          | 25 ( 7.2)        | 186 ( 53.9)         | 31 ( 9.0)        |
| <b>BLOOD AND LYMPHATIC SYSTEM DISORDERS</b>                 |                      |                  |                     |                  |
| NEUTROPENIA   | 60 ( 17.3)           | 13 ( 3.8)        | 8 ( 2.3)            | 2 ( 0.6)         |
| THROMBOCYTOPENIA  | 31 ( 9.0)            | 4 ( 1.2)         | 16 ( 4.6)           | 3 ( 0.9)         |
| ANAEMIA NOS   | 25 ( 7.2)            | 4 ( 1.2)         | 10 ( 2.9)           | 2 ( 0.6)         |
| LEUKOPENIA NOS  | 12 ( 3.5)            | 0 ( 0.0)         | 1 ( 0.3)            | 0 ( 0.0)         |
| LYMPHOPENIA   | 8 ( 2.3)             | 0 ( 0.0)         | 4 ( 1.2)            | 0 ( 0.0)         |
| <b>CARDIAC DISORDERS</b>                                    |                      |                  |                     |                  |
| ATRIAL FIBRILLATION   | 9 ( 2.6)             | 1 ( 0.3)         | 2 ( 0.6)            | 1 ( 0.3)         |
| <b>GASTROINTESTINAL DISORDERS</b>                           |                      |                  |                     |                  |
| DIARRHOEA NOS   | 8 ( 2.3)             | 0 ( 0.0)         | 2 ( 0.6)            | 0 ( 0.0)         |
| CONSTIPATION  | 7 ( 2.0)             | 0 ( 0.0)         | 1 ( 0.3)            | 0 ( 0.0)         |
| <b>GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS</b> |                      |                  |                     |                  |
| FATIGUE   | 20 ( 5.8)            | 1 ( 0.3)         | 13 ( 3.8)           | 0 ( 0.0)         |
| ASTHENIA  | 14 ( 4.0)            | 0 ( 0.0)         | 16 ( 4.6)           | 0 ( 0.0)         |
| PYREXIA   | 4 ( 1.2)             | 0 ( 0.0)         | 8 ( 2.3)            | 0 ( 0.0)         |
| <b>INFECTIONS AND INFESTATIONS</b>                          |                      |                  |                     |                  |
| PNEUMONIA NOS   | 18 ( 5.2)            | 4 ( 1.2)         | 15 ( 4.3)           | 3 ( 0.9)         |
| <b>METABOLISM AND NUTRITION DISORDERS</b>                   |                      |                  |                     |                  |
| HYPERGLYCAEMIA NOS  | 22 ( 6.4)            | 4 ( 1.2)         | 19 ( 5.5)           | 7 ( 2.0)         |
| HYPOCALCAEMIA   | 8 ( 2.3)             | 5 ( 1.4)         | 4 ( 1.2)            | 1 ( 0.3)         |
| HYPOKALAEMIA  | 9 ( 2.6)             | 1 ( 0.3)         | 5 ( 1.4)            | 0 ( 0.0)         |
| <b>MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS</b>      |                      |                  |                     |                  |
| MUSCLE WEAKNESS NOS   | 18 ( 5.2)            | 0 ( 0.0)         | 10 ( 2.9)           | 0 ( 0.0)         |
| <b>NERVOUS SYSTEM DISORDERS</b>                             |                      |                  |                     |                  |
| SYNCOPE   | 7 ( 2.0)             | 0 ( 0.0)         | 3 ( 0.9)            | 0 ( 0.0)         |
| NEUROPATHY NOS  | 7 ( 2.0)             | 0 ( 0.0)         | 2 ( 0.6)            | 0 ( 0.0)         |
| <b>PSYCHIATRIC DISORDERS</b>                                |                      |                  |                     |                  |
| DEPRESSION  | 9 ( 2.6)             | 0 ( 0.0)         | 5 ( 1.4)            | 1 ( 0.3)         |
| CONFUSIONAL STATE   | 6 ( 1.7)             | 0 ( 0.0)         | 8 ( 2.3)            | 0 ( 0.0)         |
| <b>RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS</b>      |                      |                  |                     |                  |
| DYSPNOEA NOS  | 6 ( 1.7)             | 3 ( 0.9)         | 7 ( 2.0)            | 1 ( 0.3)         |
| <b>VASCULAR DISORDERS</b>                                   |                      |                  |                     |                  |
| DEEP VEIN THROMBOSIS <sup>a</sup>                           | 23 ( 6.6)            | 1 ( 0.3)         | 9 ( 2.6)            | 1 ( 0.3)         |
| PULMONARY EMBOLISM <sup>a</sup>                             | 2 ( 0.6)             | 9 ( 2.6)         | 1 ( 0.3)            | 2 ( 0.6)         |

620 <sup>a</sup> See WARNINGS

621

622 **Thrombotic Events (See WARNINGS)**

623 In the pooled analysis, thrombotic or thromboembolic events, including deep vein  
624 thrombosis, pulmonary embolism, thrombosis, and intracranial venous sinus thrombosis  
625 were reported more frequently in patients treated with the REVLIMID<sup>®</sup>  
626 (lenalidomide)/dexamethasone combination. The number of patients experiencing a  
627 thrombotic event in the combination arm were 43/346 (12%) compared with those in the  
628 placebo/dexamethasone arm 14/345 (4%).

629 In these and other clinical studies of REVLIMID<sup>®</sup> (lenalidomide) in patients with  
630 multiple myeloma, the following serious adverse events (considered related to study drug  
631 treatment) not described in Table 7 were reported:

632 **Blood and lymphatic system disorders:** pancytopenia, anemia NOS aggravated

633 **Cardiac disorders:** cardiac failure congestive, atrial flutter, pulmonary edema

634 **Endocrine disorders:** adrenal insufficiency NOS, acquired hypothyroidism

635 **Eye disorders:** blindness

636 **Gastrointestinal disorders:** abdominal pain NOS, colitis pseudomembranous, gastritis  
637 NOS, gastrointestinal hemorrhage NOS, peptic ulcer hemorrhage, upper gastrointestinal  
638 hemorrhage

639 **General disorders and administration site conditions:** performance status decreased

640 **Hepatobiliary disorders:** hepatic failure, hepatitis toxic

641 **Infections and infestations:** bronchopneumonia NOS, cellulitis, *Pneumocystis carinii*  
642 pneumonia, sepsis NOS, bursitis infective NOS, cellulitis staphylococcal, *Enterobacter*  
643 bacteremia, *Escherichia* sepsis, gastrointestinal infection NOS, herpes zoster, herpes  
644 zoster ophthalmic, infection NOS, lung infection NOS, neutropenic sepsis, pneumonia  
645 bacterial NOS, pneumonia cytomegaloviral, pneumonia pneumococcal, pneumonia primary  
646 atypical, pneumonia staphylococcal, septic shock, streptococcal sepsis, subacute  
647 endocarditis, urinary tract infection NOS

648 **Investigations:** International normalized ratio increased, weight decreased, blood  
649 creatinine increased, body temperature increased, c-reactive protein increased,  
650 hemoglobin decreased, white blood cell count decreased

651 **Metabolism and nutrition disorders:** dehydration, diabetes mellitus NOS, diabetes with  
652 hyperosmolarity, diabetic ketoacidosis

653 **Musculoskeletal and connective tissue disorders:** myopathy steroid, back pain,  
654 myopathy

655 **Nervous system disorders:** dizziness, memory impairment, brain edema, cerebral  
656 infarction, cerebral ischemia, cerebrovascular accident, encephalitis NOS, intracranial  
657 hemorrhage NOS, intracranial venous sinus thrombosis NOS, leukoencephalopathy,  
658 somnolence, tremor

659 **Psychiatric disorders:** mental status changes, delirium, delusion NOS, insomnia,  
 660 psychotic disorder NOS

661 **Renal and urinary disorders:** Fanconi syndrome acquired, hematuria, renal failure  
 662 acute, renal failure NOS, renal tubular necrosis, urinary retention

663 **Respiratory, thoracic and mediastinal disorders:** bronchopneumopathy, hypoxia

664 **Skin and subcutaneous tissue disorders:** rash NOS, skin desquamation NOS

665 **Vascular system disorders:** phlebitis NOS, venous thrombosis NOS limb, circulatory  
 666 collapse, hypertension NOS, hypotension NOS, orthostatic hypotension, peripheral  
 667 ischemia

668 **OVERDOSAGE**

669 No cases of overdose have been reported during the clinical studies.

670 **DOSAGE AND ADMINISTRATION**

671 **Myelodysplastic Syndromes**

672 The recommended starting dose of REVLIMID<sup>®</sup> (lenalidomide) is 10 mg daily with  
 673 water. Patients should not break, chew or open the capsules. Dosing is continued or  
 674 modified based upon clinical and laboratory findings.

675 This drug is known to be substantially excreted by the kidney, and the risk of toxic  
 676 reactions to this drug may be greater in patients with impaired renal function. Because  
 677 elderly patients are more likely to have decreased renal function, care should be taken in  
 678 dose selection, and it would be prudent to monitor renal function.

679 **Dose Adjustments During Treatment:**

680 Patients who are dosed initially at 10 mg and who experience thrombocytopenia should  
 681 have their dosage adjusted as follows:

682 **Platelet counts**

683 **If thrombocytopenia develops WITHIN 4 weeks of starting treatment at 10 mg daily**

| <b>If baseline <math>\geq 100,000/\text{mcL}</math></b>                      |  |
|--|--|
| When Platelets   | Recommended Course                         |
| Fall to $< 50,000/\text{mcL}$  | Interrupt REVLIMID <sup>®</sup> treatment  |
| Return to $\geq 50,000/\text{mcL}$   | Resume REVLIMID <sup>®</sup> at 5 mg daily |
| <b>If baseline <math>&lt; 100,000/\text{mcL}</math></b>                      |  |
| When Platelets   | Recommended Course                         |
| Fall to 50% of the baseline value  | Interrupt REVLIMID <sup>®</sup> treatment  |
| If baseline $\geq 60,000/\text{mcL}$ and returns to $\geq 50,000/\text{mcL}$ | Resume REVLIMID <sup>®</sup> at 5 mg daily |

If baseline <60,000/mcL and returns to  $\geq 30,000$ /mcL Resume REVLIMID<sup>®</sup> at 5 mg daily

684

685 **If thrombocytopenia develops AFTER 4 weeks of starting treatment at 10 mg daily**

| When Platelets  | Recommended Course                         |
|---|--|
| <30,000/mcL or <50,000/mcL and platelet transfusions      | Interrupt REVLIMID <sup>®</sup> treatment  |
| Return to $\geq 30,000$ /mcL (without hemostatic failure) | Resume REVLIMID <sup>®</sup> at 5 mg daily |

686

Patients who experience thrombocytopenia at 5 mg daily should have their dosage adjusted as follows:

688

**If thrombocytopenia develops during treatment at 5 mg daily**

| When Platelets  | Recommended Course                                   |
|---|--|
| <30,000/mcL or <50,000/mcL and platelet transfusions      | Interrupt REVLIMID <sup>®</sup> treatment            |
| Return to $\geq 30,000$ /mcL (without hemostatic failure) | Resume REVLIMID <sup>®</sup> at 5 mg every other day |

689

Patients who are dosed initially at 10 mg and experience neutropenia should have their dosage adjusted as follows:

691

**Neutrophil counts (ANC)<sup>+</sup>**

692

**If neutropenia develops WITHIN 4 weeks of starting treatment at 10 mg daily**

**If baseline ANC  $\geq 1,000$ /mcL**

| When Neutrophils            | Recommended Course                         |
|-----------------------------|--|
| Fall to <750/mcL            | Interrupt REVLIMID <sup>®</sup> treatment  |
| Return to $\geq 1,000$ /mcL | Resume REVLIMID <sup>®</sup> at 5 mg daily |

**If baseline ANC <1,000/mcL**

| When Neutrophils          | Recommended Course                         |
|---------------------------|--|
| Fall to <500/mcL          | Interrupt REVLIMID <sup>®</sup> treatment  |
| Return to $\geq 500$ /mcL | Resume REVLIMID <sup>®</sup> at 5 mg daily |

693

694 **If neutropenia develops AFTER 4 weeks of starting treatment at 10 mg daily**

| When Neutrophils   | Recommended Course                         |
|--|--|
| <500/mcL for $\geq 7$ days or <500/mcL associated with fever ( $\geq 38.5^\circ\text{C}$ ) | Interrupt REVLIMID <sup>®</sup> treatment  |
| Return to $\geq 500$ /mcL  | Resume REVLIMID <sup>®</sup> at 5 mg daily |

695

Patients who experience neutropenia at 5 mg daily should have their dosage adjusted as follows:

696

697 **If neutropenia develops during treatment at 5 mg daily**

| When Neutrophils   | Recommended Course                                   |
|--|--|
| <500/mcL for ≥7 days or <500/mcL associated with fever (≥38.5°C) | Interrupt REVLIMID <sup>®</sup> treatment            |
| Return to ≥500/mcL   | Resume REVLIMID <sup>®</sup> at 5 mg every other day |

698 + Absolute neutrophil count  
699

700 **Multiple Myeloma**

701 The recommended starting dose of REVLIMID<sup>®</sup> (lenalidomide) is 25 mg/day with water  
702 orally administered as a single 25 mg capsule on Days 1-21 of repeated 28-day cycles.  
703 Patients should not break, chew or open the capsules. The recommended dose of  
704 dexamethasone is 40 mg/day on Days 1-4, 9-12, and 17-20 of each 28-day cycle for the  
705 first 4 cycles of therapy and then 40 mg/day orally on Days 1-4 every 28 days. Dosing is  
706 continued or modified based upon clinical and laboratory findings.

707 The effect of substituting lesser strengths of REVLIMID<sup>®</sup> (lenalidomide) to achieve a 25  
708 mg capsule dose is unknown.

709 **Dose Adjustments During Treatment:**

710 Dose modification guidelines, as summarized below are recommended to manage Grade  
711 3 or 4 neutropenia or thrombocytopenia or other Grade 3 or 4 toxicity judged to be  
712 related to lenalidomide.

713 **Platelet counts**

714 **Thrombocytopenia**

| When Platelets                       | Recommended Course   |
|--------------------------------------|--|
| Fall to <30,000/mcL                  | Interrupt REVLIMID <sup>®</sup> treatment, follow CBC weekly                                   |
| Return to ≥30,000/mcL                | Restart REVLIMID <sup>®</sup> at 15 mg daily   |
| For each subsequent drop <30,000/mcL | Interrupt REVLIMID <sup>®</sup> treatment  |
| Return to ≥30,000/mcL                | Resume REVLIMID <sup>®</sup> at 5 mg less than the previous dose. Do not dose below 5 mg daily |

715 **Neutrophil counts (ANC)**

716 **Neutropenia**

| When Neutrophils  | Recommended Course  |
|---|---|
| Fall to <1000/mcL   | Interrupt REVLIMID <sup>®</sup> treatment, add G-CSF, follow CBC weekly |
| Return to ≥1,000/mcL and neutropenia is the only toxicity | Resume REVLIMID <sup>®</sup> at 25 mg daily.                            |
| Return to ≥1,000/mcL and if other toxicity                | Resume REVLIMID <sup>®</sup> at 15 mg                                   |

|   |   |
|---|---|
|   | daily   |
| For each subsequent drop <1,000/mcL<br>Return to ≥1,000/mcL | Interrupt REVLIMID <sup>®</sup> treatment<br>Resume REVLIMID <sup>®</sup> at 5 mg less<br>than the previous dose. Do not dose<br>below 5 mg daily |

717

718 **Other Grade 3/4 Toxicities**

719 For other Grade 3/4 toxicities judged to be related to lenalidomide, hold treatment and  
720 restart at next lower dose level when toxicity has resolved to ≤ Grade 2.

721 **HOW SUPPLIED**

722 REVLIMID<sup>®</sup> (lenalidomide) 5 mg, 10 mg, 15 mg and 25 mg capsules will be supplied  
723 through the RevAssist<sup>SM</sup> program. (See INFORMATION FOR PATIENTS)

724 REVLIMID<sup>®</sup> (lenalidomide) is supplied as:

725 White opaque capsules imprinted “REV” on one half and “5 mg” on the other half in  
726 black ink:

727 5 mg bottles of 30 (NDC 59572-405-30)

728 5 mg bottles of 100 (NDC 59572-405-00)

729 Blue/green and pale yellow opaque capsules imprinted “REV” on one half and “10 mg”  
730 on the other half in black ink:

731 10 mg bottles of 30 (NDC 59572-410-30)

732 10 mg bottles of 100 (NDC 59572-410-00)

733 Powder blue and white opaque capsules imprinted “REV” on one half and “15 mg” on  
734 the other half in black ink:

735 15 mg bottles of 21 (NDC 59572-415-21)

736 15 mg bottles of 100 (NDC 59572-415-00)

737 White opaque capsules imprinted “REV” on one half and “25 mg” on the other half in  
738 black ink:

739 25 mg bottles of 25 (NDC 59572-425-25)

740 25 mg bottles of 100 (NDC 59572-425-00)

741 **Storage and Dispensing**

742 Dispense no more than a 28-day supply.

743 Store at 25 °C (77 °F); excursions permitted to 15-30 °C (59-86 °F). [See USP Controlled  
744 Room Temperature].

745 Rx only.

746 Manufactured for Celgene Corporation

747 86 Morris Avenue

748 Summit, NJ 07901

749 **Important Information and Warnings for All Patients Taking REVLIMID<sup>®</sup>**  
750 **(lenalidomide)**

751 **WARNING: POTENTIAL FOR HUMAN BIRTH DEFECTS.**

752 **LENALIDOMIDE IS AN ANALOGUE OF THALIDOMIDE. THALIDOMIDE IS**  
753 **A KNOWN HUMAN TERATOGEN THAT CAUSES LIFE-THREATENING**  
754 **HUMAN DEFECTS. IF LENALIDOMIDE IS TAKEN DURING PREGNANCY,**  
755 **IT MAY CAUSE BIRTH DEFECTS OR DEATH TO AN UNBORN BABY.**  
756 **FEMALES SHOULD BE ADVISED TO AVOID PREGNANCY WHILE ON**  
757 **LENALIDOMIDE.**

758 **All Patients**

- 759 • The patient understands that birth defects may occur with the use of REVLIMID<sup>®</sup>  
760 (lenalidomide).
- 761 • The patient has been warned by his/her doctor that an unborn baby may have birth  
762 defects and can even die, if a female is pregnant or becomes pregnant while taking  
763 REVLIMID<sup>®</sup> (lenalidomide).
- 764 • REVLIMID<sup>®</sup> (lenalidomide) will be prescribed ONLY for the patient and must NOT  
765 be shared with ANYONE, even someone who has similar symptoms.
- 766 • REVLIMID<sup>®</sup> (lenalidomide) must be kept out of the reach of children and should  
767 NEVER be given to females who are able to have children.
- 768 • The patient cannot donate blood while taking REVLIMID<sup>®</sup> (lenalidomide).
- 769 • The patient has read the REVLIMID<sup>®</sup> (lenalidomide) patient brochure and  
770 understands the contents, including other possible health problems from REVLIMID<sup>®</sup>  
771 (lenalidomide), “side effects.”
- 772 • The patient’s doctor has answered any questions the patient has asked.
- 773 • The patient must participate in a telephone survey and patient registry, while taking  
774 REVLIMID<sup>®</sup> (lenalidomide).

775 **Female Patients of Childbearing Potential**

- 776 • The patient must not take REVLIMID<sup>®</sup> (lenalidomide) if she is pregnant, breast-  
777 feeding a baby, or able to get pregnant and not using the required two methods of  
778 birth control.
- 779 • The patient confirms that she is not now pregnant, nor will she try to become  
780 pregnant during REVLIMID<sup>®</sup> (lenalidomide) therapy, during therapy interruption and  
781 for at least 4 weeks after she has completely finished taking REVLIMID<sup>®</sup>  
782 (lenalidomide).
- 783 • If the patient is able to become pregnant, she must use at least one highly effective  
784 method and one additional effective method of birth control (contraception) AT THE  
785 SAME TIME:
- |     |   |            |                                 |
|-----|---|------------|---------------------------------|
| 786 | At least one highly effective method                          | <u>AND</u> | One additional effective method |
| 787 | IUD   |            | Latex condom                    |
| 788 | Hormonal (birth control pills, injections, patch or implants) |            | Diaphragm                       |
| 789 | Tubal ligation  |            | Cervical cap                    |
| 790 | Partner's vasectomy   |            |                                 |
- 791 • These birth control methods must be used for at least 4 weeks before beginning  
792 REVLIMID<sup>®</sup> (lenalidomide) therapy, during REVLIMID<sup>®</sup> (lenalidomide) therapy,  
793 during therapy interruption and for 4 weeks following discontinuation of  
794 REVLIMID<sup>®</sup> (lenalidomide) therapy.
- 795 • The patient must use these birth control methods unless she completely abstains from  
796 heterosexual sexual contact.
- 797 • If a hormonal method (birth control pills, injections, patch or implants) or IUD is not  
798 medically possible for the patient, she may use another highly effective method or  
799 two barrier methods AT THE SAME TIME.
- 800 • The patient must have a pregnancy test done by her doctor within 10-14 days and 24  
801 hours before REVLIMID<sup>®</sup> (lenalidomide) therapy, then weekly during the first 4  
802 weeks of REVLIMID<sup>®</sup> (lenalidomide) therapy.
- 803 • Thereafter, the patient must have a pregnancy test every 4 weeks if she has regular  
804 menstrual cycles, or every 2 weeks if her cycles are irregular while she is taking  
805 REVLIMID<sup>®</sup> (lenalidomide).
- 806 • The patient must immediately stop taking REVLIMID<sup>®</sup> (lenalidomide) and inform  
807 her doctor:



- 808           ○ If she becomes pregnant while taking the drug
- 809           ○ If she misses her menstrual period, or experiences unusual menstrual
- 810           bleeding
- 811           ○ If she stops using birth control
- 812           ○ If she thinks FOR ANY REASON that she may be pregnant
- 813           ○ The patient understands that if her doctor is not available, she can call 1-
- 814           888-668-2528 for information on emergency contraception

815   **Female Patients Not of Childbearing Potential**

- 816           • The patient certifies that she is not now pregnant, nor of childbearing potential as
- 817           she has been postmenopausal naturally for at least 24 months (been through the
- 818           change of life); or she has had a hysterectomy or bilateral oophorectomy.
- 819           • The patient or guardian certifies that a prepubertal female child is not now
- 820           pregnant, nor is of childbearing potential as menstruation has not yet begun,
- 821           and/or the child will not be engaging in heterosexual sexual contact for at least 4
- 822           weeks before REVLIMID<sup>®</sup> (lenalidomide) therapy, during REVLIMID<sup>®</sup>
- 823           (lenalidomide) therapy, during therapy interruption and for at least 4 weeks after
- 824           stopping therapy.

825   **Male Patients**

- 826           • The patient has been told by his doctor that he must NEVER have unprotected
- 827           sexual contact with a female who can become pregnant.
- 828           • Because it is not known whether REVLIMID<sup>®</sup> (lenalidomide) is present in semen,
- 829           his doctor has explained that he must either completely abstain from sexual
- 830           contact with females who are pregnant or able to become pregnant, or he must use
- 831           a latex condom EVERY TIME he engages in any sexual contact with females
- 832           who are pregnant or may become pregnant while he is taking REVLIMID<sup>®</sup>
- 833           (lenalidomide) and for 4 weeks after he stops taking the drug, even if he has had a
- 834           successful vasectomy.
- 835           • The patient should inform his doctor:
  - 836           ○ If he has had unprotected sexual contact with a female who can become
  - 837           pregnant
  - 838           ○ If he thinks FOR ANY REASON, that his sexual partner may be pregnant.
  - 839           ○ The patient understands that if his doctor is not available, he can call 1-
  - 840           888-668-2528 for information on emergency contraception.

- 841 • The patient cannot donate semen or sperm while taking REVLIMID®  
842 (lenalidomide).

843

844 **Information for patients and caregivers:**

845 **MEDICATION GUIDE**

846 **REVLIMID®** (rev-li-mid)

847 (lenalidomide)

848 Read the Medication Guide that comes with REVLIMID® before you start taking it and  
849 each time you get a new prescription. There may be new information. This Medication  
850 Guide does not take the place of talking to your healthcare provider about your medical  
851 condition or your treatment.

852

853 **What is the most important information I should know about REVLIMID®?**

- 854 • **REVLIMID® is only for patients who understand and agree to all of the**  
855 **instructions in the REVASSIST<sup>SM</sup> program.**

- 856 • **REVLIMID® may cause serious side effects including:**

- 857 **1. birth defects**  
858 **2. low white blood cells and platelets**  
859 **3. blood clots in veins and in the lungs**

860

- 861 **1. Possible birth defects (deformed babies) or death of an unborn baby.** Female  
862 patients who are pregnant or who plan to become pregnant must not take  
863 REVLIMID®.

864 **REVLIMID® is similar to the medicine thalidomide (THALOMID®).** We know  
865 thalidomide causes life-threatening birth defects. REVLIMID® has not been tested in  
866 pregnant women. REVLIMID® has harmed unborn animals in animal testing.

867 **Female patients must not get pregnant:**

- 868 • for 4 weeks before starting REVLIMID®  
869 • while taking REVLIMID®  
870 • during dose interruptions of REVLIMID®  
871 • for 4 weeks after stopping REVLIMID®

872 **It is not known if REVLIMID® passes into semen, so:**

- 873 • Male patients, including those who have had a vasectomy, must use a latex  
874 condom during any sexual contact with a pregnant female or a female that can

875 become pregnant while taking REVLIMID<sup>®</sup> and for 4 weeks after stopping  
876 REVLIMID<sup>®</sup>.

877 **If you get pregnant while taking REVLIMID<sup>®</sup>, stop taking it right away and call**  
878 **your healthcare provider. Female partners of males taking REVLIMID<sup>®</sup> should**  
879 **call their healthcare provider right away if they get pregnant.** Healthcare  
880 providers and patients should report all cases of pregnancy to:

- 881 • FDA MedWatch at 1-800-FDA-1088, and
- 882 • Celgene Corporation at 1-888-423-5436

883 **2. Low white blood cells (neutropenia) and low platelets (thrombocytopenia).**

884 REVLIMID<sup>®</sup> causes low white blood cells and low platelets in most patients. You  
885 may need a blood transfusion or certain medicines if your blood counts drop too low.  
886 If you are being treated for del 5q myelodysplastic syndromes (MDS) your blood  
887 counts should be checked weekly during the first 8 weeks of treatment with  
888 REVLIMID<sup>®</sup>, and at least monthly thereafter. If you are being treated for multiple  
889 myeloma, your blood counts should be checked every 2 weeks for the first 12 weeks  
890 and then at least monthly thereafter.

891 **3. An increased chance for blood clots in veins and in the lungs.** Call your healthcare  
892 provider or get emergency medical care right away if you get the following signs or  
893 symptoms:

- 894 • shortness of breath
  - 895 • chest pain
  - 896 • arm or leg swelling
- 897

898 ***What is REVLIMID<sup>®</sup> and what is it used for?***

899 REVLIMID<sup>®</sup> is a medicine taken by mouth to treat certain patients who have  
900 myelodysplastic syndromes (MDS). Patients with MDS have bone marrow that does not  
901 produce enough mature blood cells. This causes a lack of healthy blood cells that can  
902 function properly in the body. There are different types of MDS. REVLIMID<sup>®</sup> is for the  
903 type of MDS with a chromosome problem where part of chromosome 5 is missing. This  
904 type of MDS is known as deletion 5q MDS. Patients with this type of MDS may have  
905 low red blood cell counts that require treatment with blood transfusions.

906 REVLIMID<sup>®</sup> is also used with dexamethasone to treat patients with multiple myeloma  
907 who have already had another treatment. Multiple myeloma is a cancer of plasma cells.  
908 Plasma cells are found in the bone marrow. Plasma cells produce a protein called  
909 antibodies. Some antibodies can attack and kill disease causing germs. Patients with this  
910 type of cancer may have low blood cell counts and immune problems giving them a  
911 higher chance for getting infections such as pneumonia. The bones can be affected  
912 leading to bone pain and breaks (fractures).

913

914 REVLIMID<sup>®</sup> can only be:

- 915 • prescribed by healthcare providers who are registered in the RevAssist<sup>SM</sup> program
- 916 • dispensed by a pharmacy that is registered in the RevAssist<sup>SM</sup> program
- 917 • given to patients who are registered in the RevAssist<sup>SM</sup> program and who agree to do
- 918 everything required in the program

919 REVLIMID<sup>®</sup> has not been studied in children under 18 years of age.

920 **Who should not take REVLIMID<sup>®</sup>?**

- 921 • **Do not take REVLIMID<sup>®</sup> if you are pregnant, plan to become pregnant, or**
- 922 **become pregnant during REVLIMID<sup>®</sup> treatment.** REVLIMID<sup>®</sup> may cause birth
- 923 defects. See “What is the most important information I should know about
- 924 REVLIMID<sup>®</sup>?”
- 925 • **Do not take REVLIMID<sup>®</sup> if you are allergic to anything in it.** See the end of this
- 926 Medication Guide for a complete list of ingredients in REVLIMID<sup>®</sup>.

927 ***What should I tell my healthcare provider before taking REVLIMID<sup>®</sup>?***

928 Tell your healthcare provider about all of your medical conditions, including if you:

- 929 • **are pregnant or breastfeeding.** REVLIMID<sup>®</sup> must not be used by women who are
- 930 pregnant or breastfeeding.

931 **Tell your healthcare provider about all the medicines you take including**

932 **prescription and non-prescription medicines, vitamins and herbal supplements.** It is

933 possible that REVLIMID<sup>®</sup> and other medicines may affect each other causing serious

934 side effects.

935 Know the medicines you take. Keep a list of them to show your healthcare provider and

936 pharmacist.

937 ***How should I take REVLIMID<sup>®</sup>?***

- 938 • Take REVLIMID<sup>®</sup> exactly as prescribed. You must also follow all the instructions of
- 939 the RevAssist<sup>SM</sup> program. Before prescribing REVLIMID<sup>®</sup>, your healthcare provider
- 940 will:
- 941 • explain the RevAssist<sup>SM</sup> program to you
- 942 • have you sign the Patient-Physician Agreement Form

943 **You will not be prescribed REVLIMID<sup>®</sup> if you cannot agree to or follow all of the**

944 **instructions of the RevAssist<sup>SM</sup> program.**

945 You will get no more than a 28-day supply of REVLIMID<sup>®</sup> at one time. This is to make

946 sure you follow the RevAssist<sup>SM</sup> program.

- 947 • Swallow REVLIMID<sup>®</sup> capsules whole with water once a day. **Do not break, chew,**  
948 **or open your capsules.**
- 949 • If you miss a dose of REVLIMID<sup>®</sup>, take it as soon as you remember that day. If you  
950 miss taking your dose for the entire day, go back to taking your regular dose the next  
951 day. Do **not** take 2 doses at the same time.
- 952 • If you take too much REVLIMID<sup>®</sup> or overdose, call your healthcare provider or  
953 poison control center right away.
- 954 • You will have regular blood tests during your treatment with REVLIMID<sup>®</sup>. If you are  
955 being treated for del 5q myelodysplastic syndromes (MDS) you should have your  
956 blood tested every week during your first 8 weeks of treatment, and at least monthly  
957 after that. If you are being treated for multiple myeloma, your blood counts should be  
958 checked every two weeks for the first 12 weeks and then at least monthly after that.  
959 Your healthcare provider may adjust your dose of REVLIMID<sup>®</sup> or interrupt your  
960 treatment based on the results of your blood tests and on your general condition.
- 961 • Female patients who can get pregnant will get regular pregnancy testing.
- 962 • get a pregnancy test weekly for 4 weeks.
- 963 • Female patients who can become pregnant must agree to use 2 separate forms of  
964 effective birth control at the same time, 4 weeks before, while taking, and for 4 weeks  
965 after stopping REVLIMID<sup>®</sup>.
- 966 • Male patients, even those who have had a vasectomy, must agree to use a latex  
967 condom during sexual contact with a pregnant female or a female who can become  
968 pregnant.
- 969 **What should I avoid while taking REVLIMID<sup>®</sup>?**
- 970 • **Do not get pregnant while taking REVLIMID<sup>®</sup>** and for 4 weeks after stopping  
971 REVLIMID<sup>®</sup>. See “What is the most important information I should know about  
972 REVLIMID<sup>®</sup>?”
- 973 • **Do not breastfeed while taking REVLIMID<sup>®</sup>**. We do not know if REVLIMID<sup>®</sup>  
974 passes into your milk and harms your baby.
- 975 • **Do not share REVLIMID<sup>®</sup> with other people.** It may cause birth defects and other  
976 serious problems.
- 977 • **Do not give blood** while you take REVLIMID<sup>®</sup> and for 4 weeks after stopping  
978 REVLIMID<sup>®</sup>. If someone who is pregnant gets your donated blood, her baby may be  
979 exposed to REVLIMID<sup>®</sup> and may be born with birth defects.

- 980 • **Male patients should not donate sperm** while taking REVLIMID<sup>®</sup> and for 4 weeks  
981 after stopping REVLIMID<sup>®</sup>. If a female who is trying to become pregnant gets your  
982 sperm, her baby may be exposed to REVLIMID<sup>®</sup> and may be born with birth defects.

983

984 **What are the possible side effects of REVLIMID<sup>®</sup>?**

985 • **REVLIMID<sup>®</sup> may cause serious side effects including:**

- 986 • birth defects  
987 • low white blood cells and platelets  
988 • blood clots in veins and in the lungs

989 See “What is the most important information I should know about REVLIMID<sup>®</sup>?”

990 Other common side effects of REVLIMID<sup>®</sup> are:

- 991 • diarrhea  
992 • itching  
993 • rash  
994 • tiredness

995 Tell your healthcare provider about any side effect that bothers you or that does not go  
996 away.

997 These are not all the side effects with REVLIMID<sup>®</sup>. Ask your healthcare provider or  
998 pharmacist for more information.

999 **How should I store REVLIMID<sup>®</sup>?**

1000 Store REVLIMID<sup>®</sup> at room temperature, 59° to 86°F (15° to 30° C).

1001 **Keep REVLIMID<sup>®</sup> and all medicines out of the reach of children.**

1002 ***General information about the safe and effective use of REVLIMID<sup>®</sup>***

1003 Medicines are sometimes prescribed for conditions that are not mentioned in Medication  
1004 Guides. **Do not** take REVLIMID<sup>®</sup> for conditions for which it was not prescribed. **Do not**  
1005 give REVLIMID<sup>®</sup> to other people, even if they have the same symptoms you have. It  
1006 may harm them.

1007 This Medication Guide provides a summary of the most important information about  
1008 REVLIMID<sup>®</sup>. If you would like more information, talk with your healthcare provider.  
1009 You can ask your healthcare provider or pharmacist for information about REVLIMID<sup>®</sup>  
1010 that is written for health professionals. You can also call 1-888-423-5436 or visit  
1011 [www.REVLIMID.com](http://www.REVLIMID.com).

1012 ***What are the ingredients in REVLIMID<sup>®</sup>?***

- 1013 REVLIMID<sup>®</sup> (lenalidomide) capsules contain 5 mg, 10 mg, 15mg or 25 mg of  
1014 lenalidomide and are available as gelatin capsules for oral administration.
- 1015 The inactive ingredients of REVLIMID<sup>®</sup> capsules are: lactose anhydrous,  
1016 microcrystalline cellulose, croscarmellose sodium, and magnesium stearate.
- 1017 The 5 mg and 25 mg capsule shells contain gelatin, titanium dioxide and black ink. The  
1018 10 mg capsule shell contains gelatin, FD&C blue #2, yellow iron oxide, titanium dioxide  
1019 and black ink. The 15 mg capsule shell contains gelatin, FD&C blue #2, titanium dioxide  
1020 and black ink.
- 1021 Manufactured for Celgene Corporation
- 1022 Summit, NJ 07901
- 1023 This Medication Guide has been approved by the US Food and Drug Administration.



59572-405-30

OSG00495

NDC 59572-405-30

  
**Revlimid**<sup>®</sup>  
*(lenalidomide) capsules*

**5 mg**

**WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.**

*Rx only*

**30 Capsules**

Store at 25°C (77°F); excursions permitted to 15–30°C (59–86°F).

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for dosing and administration.

12/05 BT40530.002



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NDC 59572-405-00

Store at 25°C (77°F); excursions permitted to 15–30°C (59–86°F).



  
**Revlimid**<sup>®</sup>  
*(lenalidomide) capsules*

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for  
dosing and administration.

**5 mg**

12/05 BT40500.002

**WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.**



OSG00496

*Rx only*

**100 Capsules**

© 2005 Celgene Corporation



59572-410-30

OSG00497

NDC 59572-410-30

  
**Revlimid**<sup>®</sup>  
*(lenalidomide) capsules*

**10 mg**

WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.

*Rx only*

**30 Capsules**

Store at 25°C (77°F); excursions  
permitted to 15–30°C (59–86°F).

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for  
dosing and administration.

12/05 BT41030.002



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NDC 59572-410-00

Store at 25°C (77°F); excursions permitted to 15–30°C (59–86°F).



  
**Revlimid**<sup>®</sup>  
*(lenalidomide) capsules*

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for  
dosing and administration.

**10 mg**

12/05 BT41000.002

**WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.**



OSG00498

*Rx only*

**100 Capsules**

© 2005 Celgene Corporation

FPO



NDC 59572-XXX-XX

  
**Revlimid**<sup>®</sup>  
(lenalidomide) capsules

**15 mg**

WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.

*Rx only*

21 Capsules

Store at 25°C (77°F); excursions  
permitted to 15–30°C (59–86°F).

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for  
dosing and administration.

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FPO

NDC 59572-XXX-XX

  
**Revlimid**<sup>®</sup>  
*(lenalidomide) capsules*

**15 mg**

WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.

*Rx only*

100 Capsules

Store at 25°C (77°F); excursions permitted to 15–30°C (59–86°F).

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for dosing and administration.

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FPO

NDC 59572-XXX-XX

Store at 25°C (77°F); excursions permitted to 15–30°C (59–86°F).

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for  
dosing and administration.


10/05 BTXXXXX.001

**Revlimid<sup>®</sup>**  
*(lenalidomide) capsules*

**25 mg**

**WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.**

**Rx only**      **25 Capsules**

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FPO

NDC 59572-XXX-XX

  
**Revlimid**<sup>®</sup>  
*(lenalidomide) capsules*

**25 mg**

WARNING: POTENTIAL FOR HUMAN  
BIRTH DEFECTS.

*Rx only*

100 Capsules

Store at 25°C (77°F); excursions  
permitted to 15–30°C (59–86°F).

Manufactured for  
Celgene Corporation  
86 Morris Avenue  
Summit, NJ 07901

See prescribing information for  
dosing and administration.

10/05 BTXXXXX.001



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