$\textbf{REVLIMID}^{\circledR} \ (\textbf{lenalidomide})$

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
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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® (lenalidomide).
17	Special Prescribing Requirements
18	BECAUSE OF THIS POTENTIAL TOXICITY AND TO AVOID FETAL
19	EXPOSURE TO REVLIMID® (lenalidomide), REVLIMID® (lenalidomide) IS
20	ONLY AVAILABLE UNDER A SPECIAL RESTRICTED DISTRIBUTION
21	PROGRAM. THIS PROGRAM IS CALLED "RevAssist®." UNDER THIS
22	PROGRAM, ONLY PRESCRIBERS AND PHARMACISTS REGISTERED WITH
23	THE PROGRAM CAN PRESCRIBE AND DISPENSE THE PRODUCT. IN
24 25	ADDITION, REVLIMID [®] (lenalidomide) MUST ONLY BE DISPENSED TO PATIENTS WHO ARE REGISTERED AND MEET ALL THE CONDITIONS OF
26	THE RevAssist® PROGRAM.
20	THE REVASSIST TROOKAIVI.
27	PLEASE SEE THE FOLLOWING INFORMATION FOR PRESCRIBERS,
28	FEMALE PATIENTS, AND MALE PATIENTS ABOUT THIS RESTRICTED
29	DISTRIBUTION PROGRAM.
30	RevAssist® PROGRAM DESCRIPTION
31	Prescribers
32 33 34	REVLIMID [®] (lenalidomide) can be prescribed only by licensed prescribers who are registered in the RevAssist [®] program and understand the potential risk of teratogenicity 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® (lenalidomide) therapy, during
37	REVLIMID® (lenalidomide) therapy, during dose interruptions and for 4 weeks
38	following discontinuation of REVLIMID® (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
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- for at least 24 consecutive months (i.e., who have had menses at some time in the preceding 24 consecutive months) are considered to be females of childbearing potential.
- Before prescribing REVLIMID[®] (lenalidomide), females of childbearing potential should have 2 negative pregnancy tests (sensitivity of at least 50 mIU/mL). The first test should be performed within 10-14 days, and the second test within 24 hours prior to prescribing REVLIMID[®] (lenalidomide). A prescription for REVLIMID[®] (lenalidomide) for a female of childbearing potential must not be issued by the prescriber until negative pregnancy tests have been verified by the prescriber.
- Male Patients: It is not known whether lenalidomide is present in the semen of patients receiving the drug. Therefore, males receiving REVLIMID[®] (lenalidomide) must always use a latex condom during any sexual contact with females of childbearing potential even if they have undergone a successful vasectomy.
 - Once treatment has started and during dose interruptions, pregnancy testing for females of childbearing potential should occur weekly during the first 4 weeks of use, then pregnancy testing should be repeated every 4 weeks in females with regular menstrual cycles. If menstrual cycles are irregular, the pregnancy testing should occur every 2 weeks. Pregnancy testing and counseling should be performed if a patient misses her period or if there is any abnormality in her pregnancy test or in her menstrual bleeding. REVLIMID[®] (lenalidomide) treatment must be discontinued during this evaluation.
- Pregnancy test results should be verified by the prescriber and the pharmacist prior to dispensing any prescription.
- 68 If pregnancy does occur during REVLIMID[®] (lenalidomide) treatment, REVLIMID[®] (lenalidomide) must be discontinued immediately.
- Any suspected fetal exposure to REVLIMID[®] (lenalidomide) should be reported to the FDA via the MedWatch number at 1-800-FDA-1088 and also to Celgene Corporation at 1-888-423-5436. The patient should be referred to an obstetrician/gynecologist experienced in reproductive toxicity for further evaluation and counseling.
- 74 Female Patients



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

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

Male Patients

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- REVLIMID[®] (lenalidomide) should be used in sexually active males when the PATIENT MEETS ALL OF THE FOLLOWING CONDITIONS:
- he understands and can reliably carry out instructions.
- he is capable of complying with the mandatory contraceptive measures that are appropriate for men, patient registration, and patient survey as described in the RevAssist® program.
- he has received and understands both oral and written warnings of the potential risks
 of taking lenalidomide and exposing a fetus to the drug.



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

HEMATOLOGIC TOXICITY (NEUTROPENIA AND THROMBOCYTOPENIA)

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

DEEP VENOUS THROMBOSIS AND PULMONARY EMBOLISM

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

You can get the information about REVLIMID[®] (lenalidomide) and the RevAssist[®] program on the internet at <u>www.REVLIMID.com</u> or by calling the manufacturer's toll free number 1-888-423-5436.



DESCRIPTION

- 147 REVLIMID® (lenalidomide), a thalidomide analogue, is an immunomodulatory agent
- with antiangiogenic and antineoplastic properties. The chemical name is 3-(4-amino-1-
- oxo 1,3-dihydro-2*H*-isoindol-2-yl) piperidine-2,6-dione and it has the following chemical
- 150 structure:

Chemical Structure of Lenalidomide

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- 3-(4-amino-1-oxo 1,3-dihydro-2*H*-isoindol-2-yl) piperidine-2,6-dione
- The empirical formula for lenalidomide is $C_{13}H_{13}N_3O_3$ and the gram molecular weight is
- 155 259.3.
- Lenalidomide is an off-white to pale-yellow solid powder. It is soluble in organic
- solvent/water mixtures, and buffered aqueous solvents. Lenalidomide is more soluble in
- organic solvents and low pH solutions. Solubility was significantly lower in less acidic
- buffers, ranging from about 0.4 to 0.5 mg/ml. Lenalidomide has an asymmetric carbon
- atom and can exist as the optically active forms S(-) and R(+), and is produced as a
- racemic mixture with a net optical rotation of zero.
- REVLIMID[®] (lenalidomide) is available in 5 mg, 10 mg, 15 mg and 25 mg capsules for
- oral administration. Each capsule contains lenalidomide as the active ingredient and the
- 164 following inactive ingredients: lactose anhydrous, microcrystalline cellulose,
- 165 croscarmellose sodium, and magnesium stearate. The 5 mg and 25 mg capsule shell
- 166 contains gelatin, titanium dioxide and black ink. The 10 mg capsule shell contains
- gelatin, FD&C blue #2, yellow iron oxide, titanium dioxide and black ink. The 15 mg
- capsule shell contains gelatin, FD&C blue #2, titanium dioxide and black ink.

CLINICAL PHARMACOLOGY

Mechanism of Action

- 171 The mechanism of action of lenalidomide remains to be fully characterized.
- 172 Lenalidomide possesses antineoplastic, immunomodulatory and antiangiogenic
- properties. Lenalidomide inhibited the secretion of pro-inflammatory cytokines and
- increased the secretion of antiinflammatory cytokines from peripheral blood mononuclear
- cells. Lenalidomide inhibited cell proliferation with varying effectiveness (IC50s) in
- some but not all cell lines. Of cell lines tested, lenalidomide was effective in inhibiting
- growth of Namalwa cells (a human B cell lymphoma cell line with a deletion of one
- chromosome 5) but was much less effective in inhibiting growth of KG-1 cells (human
- myeloblastic cell line, also with a deletion of one chromosome 5) and other cell lines
- without chromosome 5 deletions. Lenalidomide inhibited the growth of multiple



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