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*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE
ONUREG (azacitidine) tablets, for oral use
Initial U.S. Approval: 2004

ONUREG (azacitidine) tablets are indicated for continued treatment of adult patients with acute myeloid leukemia who achieved first complete remission (CR) or complete remission with incomplete blood count recovery (CRi) following intensive induction chemotherapy and are not able to complete intensive curative therapy (1).

2 DOSAGE AND ADMINISTRATION

2.1 Important Administration Information

MNZ/ONUREG (azacitidine) tablets, for oral use

The recommended dosage of ONUREG is 300 mg orally once daily with or without food on Days 1 through 14 of each 28-day cycle. Increase monitoring to every other week for the first 2 cycles after any dose reduction. If the absolute neutrophil count (ANC) is less than 0.5 G/L on Day 1 of a cycle, do not administer ONUREG (azacitidine). Delay the start of the cycle until the ANC is 0.5 G/L or more.

Instruct patients on the following:

- Do not split, crush, or chew ONUREG tablets.
- Take a dose about the same time each day.
- If a dose of ONUREG is missed, take the dose as soon as possible on the same day, and resume the normal schedule the following day. Do not take 2 doses on the same day.
- If a dose is vomited, do not take another dose on the same day. Resume the normal schedule the following day.

ONUREG is a hazardous drug. Follow applicable special handling and disposal procedures.

2.2 Recommended Dosage

The recommended dosage of ONUREG is 300 mg orally once daily on Days 1 through 14 of each 28-day cycle. Increase monitoring to every other week for the first 2 cycles after any dose reduction. If the absolute neutrophil count (ANC) is less than 0.5 G/L on Day 1 of a cycle, do not administer ONUREG (azacitidine). Delay the start of the cycle until the ANC is 0.5 G/L or more.

Instruct patients on the following:

- Do not split, crush, or chew ONUREG tablets.
- Take a dose about the same time each day.
- If a dose of ONUREG is missed, take the dose as soon as possible on the same day, and resume the normal schedule the following day. Do not take 2 doses on the same day.
- If a dose is vomited, do not take another dose on the same day. Resume the normal schedule the following day.

ONUREG is a hazardous drug. Follow applicable special handling and disposal procedures.

2.3 Monitoring and Dosage Modifications for Adverse Reactions

Monitor complete blood count every other week for the first 2 cycles and prior to the start of each cycle thereafter. Increase monitoring to every other week for the 2 cycles after any dose reduction. Withhold and then resume at same or reduced dose or discontinue ONUREG based on severity.

The most common adverse reactions (≥ 10%) are nausea, vomiting, diarrhea, fatigue/asthenia, constipation, pneumonia, abdominal pain, arthralgia, decreased appetite, febrile neutropenia, dizziness, and pain in extremity.

To report SUSPECTED ADVERSE REACTIONS, contact Celgene Corporation at 1-888-423-5436 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

Lactation: Advise not to breastfeed (8.2).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

*Sections or subsections omitted from the full prescribing information are not listed.
Table 1: Recommended Dosage Modifications for Adverse Reactions

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>Severity</th>
<th>Recommended Dosage Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myelosuppression [see Warnings and Precautions (5.2)]</td>
<td>Neutrophils less than 0.5 Gi/L on Cycle Day 1</td>
<td>First Occurrence • Interrupt treatment. Resume at the same dose once neutrophils return to 0.5 Gi/L or higher.</td>
</tr>
<tr>
<td></td>
<td>Neutrophils less than 1 Gi/L with fever at anytime</td>
<td>First Occurrence • Interrupt treatment. Resume at the same dose once neutrophils return to 1 Gi/L or higher. Occurrence in 2 Consecutive Cycles • Interrupt treatment. After neutrophils return to 1 Gi/L or higher, resume at reduced dose of 200 mg. • If a patient continues to experience febrile neutropenia after dose reduction, reduce the treatment duration by 7 days. • If febrile neutropenia reoccurs after dose and schedule reduction, discontinue ONUREG.</td>
</tr>
<tr>
<td></td>
<td>Platelets less than 50 Gi/L with bleeding</td>
<td>First Occurrence • Interrupt dose. Resume at the same dose once platelets return to 50 Gi/L or higher. Occurrence in 2 Consecutive Cycles • Interrupt dose. After platelets return to 50 Gi/L or higher, resume at reduced dose of 200 mg. • If a patient continues to experience thrombocytopenia with bleeding after dose reduction, reduce the treatment duration by 7 days. • If thrombocytopenia with bleeding reoccurs after dose and schedule reduction, discontinue ONUREG.</td>
</tr>
<tr>
<td>Grade 3 or 4 Nausea or Vomiting</td>
<td>Interrupt dose. Resume at the same dose once toxicity has resolved to Grade 1 or lower. • If toxicity reoccurs, interrupt dose until resolved to Grade 1 or lower. Resume at reduced dose of 200 mg. • If a patient continues to experience the toxicity after dose reduction, reduce the treatment duration by 7 days. • If the toxicity continues or reoccurs after dose and schedule reduction, discontinue ONUREG.</td>
<td></td>
</tr>
<tr>
<td>Grade 3 or 4 Diarrhea</td>
<td>Interrupt dose. Resume at the same dose once toxicity has resolved to Grade 1 or lower. • If toxicity reoccurs, interrupt dose until resolved to Grade 1 or lower. Resume at reduced dose of 200 mg. • If a patient continues to experience the toxicity after dose reduction, reduce the treatment duration by 7 days. • If the toxicity continues or reoccurs after dose and schedule reduction, discontinue ONUREG.</td>
<td></td>
</tr>
<tr>
<td>Other Adverse Reactions [see Adverse Reactions (6.1)]</td>
<td>Grade 3 or 4</td>
<td>Interrupt dose and provide medical support. Resume at the same dose once toxicity has resolved to Grade 1 or lower. • If toxicity re-occurs, interrupt dose until resolved to Grade 1 or lower. Resume at reduced dose of 200 mg. • If a patient continues to experience the toxicity after dose reduction, reduce the treatment duration by 7 days. • If the toxicity continues or reoccurs after dose and schedule reduction, discontinue ONUREG.</td>
</tr>
</tbody>
</table>

3. DOSAGE FORMS AND STRENGTHS

Tablets:
- 200 mg, pink, oval, film-coated tablet with debossed “200” on one side and “ONU” on the other side.
- 300 mg, brown, oval, film-coated tablet with debossed “300” on one side and “ONU” on the other side.

4. CONTRAINDICATIONS

ONUREG is contraindicated in patients with known severe hypersensitivity to azacitidine or its components [see Adverse Reactions (6.2), Description (11)].

5. WARNINGS AND PRECAUTIONS

5.1 Risks of Substitution with Other Azacitidine Products

Due to substantial differences in the pharmacokinetic parameters [see Clinical Pharmacology (12.3)], the recommended dose and schedule for ONUREG are different from those for the intravenous or subcutaneous azacitidine products. Treatment of patients using intravenous or subcutaneous azacitidine at the recommended dosage of ONUREG may result in a fatal adverse reaction. Treatment of patients using ONUREG at the doses recommended for intravenous or subcutaneous azacitidine may not be effective. Do not substitute ONUREG for intravenous or subcutaneous azacitidine [see Dosage and Administration (2.1)].

5.2 Myelosuppression

New or worsening Grade 3 or 4 neutropenia and thrombocytopenia occurred in 49% and 22% of patients who received ONUREG, respectively. Febrile neutropenia occurred in 12%. A dose reduction was required for 7% and 2% of patients due to neutropenia and thrombocytopenia, respectively. Less than 1% of patients discontinued ONUREG due to either neutropenia or thrombocytopenia. Monitor complete blood counts and modify the dosage as recommended [see Dosage and Administration (2.2, 2.3)]. Provide standard supportive care, including hematopoietic growth factors, if myelosuppression occurs.

5.3 Increased Early Mortality in Patients with Myelodysplastic Syndromes

In AZA-MDS-003 (NCT01566695), 216 patients with red blood cell transfusion-dependent anemia and thrombocytopenia due to myelodysplastic syndromes were randomized to ONUREG or placebo. One-hundred and seven patients received a median of 5 cycles of ONUREG 300 mg daily for 21 days of a 28-day cycle. Enrollment was discontinued early due to a higher incidence of early fatal and/or serious adverse reactions in patients who received ONUREG compared with placebo. The most frequent fatal adverse reaction was sepsis. The safety and effectiveness of ONUREG for treatment of myelodysplastic syndromes have not been established. Treatment of patients with myelodysplastic syndromes with ONUREG is not recommended outside of controlled trials.

5.4 Embryo-Fetal Toxicity

Based on the mechanism of action and findings in animals, ONUREG can cause fetal harm when administered to a pregnant woman. Azacitidine administered to pregnant rats via a single intraperitoneal dose less than the recommended human daily dose of oral azacitidine on a mg/m² basis caused fetal death and anomalies. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with ONUREG and for at least 6 months after the last dose. Advise males with female partners of reproductive potential to use effective contraception during treatment with ONUREG and for at least 3 months after the last dose [see Use in Specific Populations (8.1, 8.3)].

6. ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:
- Myelosuppression [see Warnings and Precautions (5.2)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Acute Myeloid Leukemia

The safety of ONUREG was evaluated in QUAZAR [see Clinical Studies (14)]. Patients received ONUREG 300 mg (N=238) or placebo (N=233) orally once daily on Days 1 through 14 of each 28-day cycle. Among patients who received ONUREG, 71% were exposed for 6 months or longer, and 49% were exposed for greater than one year. The median duration of exposure to ONUREG was 11.6 months (range: 0.5 to 74.3 months) and the median number of cycles was 12 (range: 1 to 82 cycles).

Serious adverse reactions occurred in 15% of patients who received ONUREG. Serious adverse reactions in ≥ 2% of patients who received ONUREG were pneumonia (8%) and febrile neutropenia (7%). One fatal adverse reaction (sepsis) occurred in a patient who received ONUREG.

Permanent discontinuation of ONUREG due to an adverse reaction occurred in 8% of patients. Adverse reactions which resulted in permanent discontinuation of ONUREG in > 1% of patients included nausea (2.1%), diarrhea (1.7%), and vomiting (1.3%).
Interruptions of ONUREG due to an adverse reaction occurred in 35% of patients. Adverse reactions which required an interruption of ONUREG in > 5% of patients included neutropenia (20%), thrombocytopenia (8%), and nausea (6%).

Dose reductions of ONUREG due to an adverse reaction occurred in 14% of patients. Adverse reactions which required a dose reduction in > 1% of patients included neutropenia (6%), diarrhea (3.4%), thrombocytopenia (1.7%), and nausea (1.7%).

The most common (≥ 10%) adverse reactions were nausea, vomiting, diarrhea, fatigue/asthenia, constipation, pneumonia, abdominal pain, arthralgia, decreased appetite, febrile neutropenia, dizziness, and pain in extremity.

Table 2 summarizes the adverse reactions in QUAZAR.

### Table 2: Adverse Reactions (≥ 5%) in Patients with AML Who Received ONUREG with a Difference Between Arms of > 2% Compared to Placebo in QUAZAR

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>ONUREG (N=236)</th>
<th>Placebo (N=233)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grade 0-2</td>
<td>Grade 3 or 4</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nausea</td>
<td>65</td>
<td>3</td>
</tr>
<tr>
<td>Vomiting</td>
<td>60</td>
<td>3</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>50</td>
<td>5</td>
</tr>
<tr>
<td>Constipation</td>
<td>39</td>
<td>1</td>
</tr>
<tr>
<td>Abdominal pain*</td>
<td>22</td>
<td>2</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fatigue/asthenia*</td>
<td>44</td>
<td>4</td>
</tr>
<tr>
<td>Infections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pneumonia*</td>
<td>27</td>
<td>9</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arthralgia</td>
<td>14</td>
<td>1</td>
</tr>
<tr>
<td>Pain in extremity</td>
<td>11</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decreased appetite</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>Blood and lymphatic disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Febrile neutropenia</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dizziness</td>
<td>11</td>
<td>0</td>
</tr>
</tbody>
</table>

*Grouped term includes abdominal pain, abdominal pain upper, abdominal discomfort, and gastrointestinal pain.

**Grouped term includes fatigue and asthenia.

Broad term includes influenza, pneumonia, respiratory tract infection, respiratory tract infection viral, bronchopulmonary aspergillosis, lung infection, Staphylococcal infection, staphylococcal pneumonia, lower respiratory tract infection, lung abscess, Pneumocystis jirovecii pneumonia, pneumonia bacterial, pneumonia fungal, Pseudomomas infection, hemoptysis, productive cough, pleural effusion, atelectasis, pleuritic pain, rales, Enterobacter test positive, and Hemophilus test positive.

Clinically relevant adverse reactions that did not meet criteria for inclusion in Table 2 were weight decreased (4%) in patients who received ONUREG.

**Neutropenia, thrombocytopenia, and anemia of any grade occurred in 74%, 65%, and 25% of patients who received ONUREG.** Table 3 summarizes select Grades 3 or 4 hematological laboratory abnormalities in QUAZAR.

### Table 3: Selected Hematological Laboratory Abnormalities That Worsened from Baseline in Patients Who Received ONUREG in QUAZAR

<table>
<thead>
<tr>
<th>Laboratory Abnormality</th>
<th>ONUREG</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline Grade 0-2 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neutropenia</td>
<td>223</td>
<td>199 (49)</td>
</tr>
<tr>
<td>Thrombocytopenia</td>
<td>222</td>
<td>46 (21)</td>
</tr>
<tr>
<td>Anemia</td>
<td>229</td>
<td>10 (4)</td>
</tr>
<tr>
<td>Post-Baseline Grade 3 or 4 n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neutropenia</td>
<td>217</td>
<td>50 (23)</td>
</tr>
<tr>
<td>Thrombocytopenia</td>
<td>212</td>
<td>22 (10)</td>
</tr>
<tr>
<td>Anemia</td>
<td>223</td>
<td>7 (3)</td>
</tr>
</tbody>
</table>

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of intravenous or subcutaneous azacitidine. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

- Hypersensitivity reaction
- Interstitial lung disease
- Tumor lysis syndrome
- Sweet's syndrome (acute febrile neutrophilic dermatosis)
- Necrotizing fasciitis (including fatal cases)
- Differentiation syndrome

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

**Risk Summary**

Based on its mechanism of action [see Clinical Pharmacology (12.1)] and findings in animals, ONUREG can cause fetal harm when administered to a pregnant woman. There are no available data on ONUREG use in pregnant women to evaluate for a drug-associated risk. Azacitidine was teratogenic and caused embryo-fetal lethality in animals at doses less than the recommended human daily dose of oral azacitidine on a mg/m² basis [see Data]. Advise pregnant women of the potential risk to the fetus.

The estimated background of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

**Data**

Animal Data

No reproductive or developmental toxicity studies have been conducted with oral azacitidine.

Early embryotoxicity studies in mice revealed a 44% frequency of intraperitoneal embryonal death (increased resorption) after a single intraperitoneal injection of 6 mg/m² azacitidine (at doses less than the recommended human daily dose of oral azacitidine on a mg/m² basis) on gestation Day 10. Developmental abnormalities in the brain have been detected in mice given azacitidine on or before gestation Day 15 at doses of approximately 3 to 12 mg/m² (at doses less than the recommended human daily dose on a mg/m² basis).

In rats, azacitidine was clearly embryotoxic when given an intraperitoneal injection on gestation Days 4 to 6 (postimplantation) at a dose of 6 mg/m² (at doses less than the recommended human daily dose on a mg/m² basis), although treatment in the preimplantation period (on gestation Days 1 to 3) had no adverse effect on the embryos. Azacitidine caused multiple fetal abnormalities in rats after a single intraperitoneal dose of 3 to 12 mg/m² (at doses less than the recommended human daily dose on a mg/m² basis) given on gestation Days 9, 10, 11, or 12. In this study, azacitidine caused fetal death when administered at 3 to 12 mg/m² on gestation Days 9 and 10; average live animals per litter was reduced to 9% of control at the highest dose on gestation Day 9. Fetal anomalies included: CNS anomalies (exencephaly/encephalocele), limb anomalies (micromelia, club foot, syndactyly, oligodactyly), and others (micrognathia, gastrochisis, edema, and rib abnormalities).

8.2 Lactation

**Risk Summary**

There are no data regarding the presence of azacitidine in human milk or the effects on the breastfed child or milk production. Because of the potential for serious adverse reactions in the breastfed child, advise women not to breastfeed during treatment with ONUREG and for 1 week after the last dose.

8.3 Females and Males of Reproductive Potential

ONUREG can cause embryo-fetal harm when administered to pregnant women [see Use in Specific Populations (8.1)].

**Pregnancy Testing**

Pregnancy testing is recommended for females of reproductive potential before starting ONUREG.

**Contraception**

**Females**

Advise females of reproductive potential to use effective contraception during treatment with ONUREG and for at least 6 months after the last dose.

**Males**

Advise males with female partners of reproductive potential to use effective contraception starting ONUREG.

**Infertility**

Based on animal data, ONUREG may impair male or female fertility [see Nonclinical Toxicology (13.1)].

8.4 Pediatric Use

The safety and effectiveness of ONUREG in pediatric patients have not been established.

8.5 Geriatric Use

Of the 238 patients in QUAZAR who received ONUREG, 72% were 65 years of age or older, while 12% were 75 years of age or older. No overall differences in safety or effectiveness of ONUREG were observed between these patients and younger patients.

8.6 Renal Impairment

Monitor patients with severe renal impairment (creatinine clearance [ClCr] 15 to 29 mL/min calculated by Cockcroft-Gault formula) more frequently for adverse reactions and modify the ONUREG dosage for adverse reactions [see Dosage and Administration (2.3)].
8.7 Hematologic Impairment

ONUREG has not been studied in patients with pre-existing severe hematologic impairment (total bilirubin > 3 x ULN).

A recommended dosage of ONUREG has not been established for patients with moderate hematologic impairment (total bilirubin > 1.5 to 3 x ULN).

No dose adjustment of ONUREG is recommended for patients with mild hepatic impairment (total bilirubin ≤ ULN and AST > ULN, or total bilirubin 1 to 1.5 x ULN and any AST) [see Clinical Pharmacology (12.3)].

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Azacitidine is a pyrimidine nucleoside analog of cytidine that inhibits DNA/RNA methyltransferases. Azacitidine is incorporated into DNA and RNA following cellular uptake and enzymatic biotransformation to nucleotide triphosphates.

Incorporation of azacitidine into the DNA of cancer cells in vitro, including acute myeloid leukemia cells, inhibited DNA methyltransferases, reduced DNA methylation and altered gene expression, including re-expression of genes regulating tumor suppression and cell differentiation. Incorporation of azacitidine into the RNA of cancer cells, including leukemic cells, inhibited RNA methyltransferases, reduced RNA methylation, decreased RNA stability and decreased protein synthesis.

Antileukemic activity of azacitidine was demonstrated by reduction of cell viability and induction of apoptosis in AML cell lines in vitro. Azacitidine decreased tumor burden and increased survival in leukemic tumor models in vivo.

12.2 Pharmacodynamics

Greater reduction in global DNA methylation was observed with higher azacitidine plasma exposure in patients with AML administered ONUREG for 14 days of a 28-day cycle. Greater reduction in global DNA methylation was observed with higher azacitidine plasma exposure in patients with AML administered ONUREG for 14 days of a 28-day cycle.

12.3 Pharmacokinetics

The systemic exposure of azacitidine is approximately dose proportional over the dose range of 120 mg to 600 mg once daily of ONUREG (0.4 to 2 times the recommended dosage). Following a single 300 mg dose of ONUREG, the mean (coefficient of variation (CV%)) Cmax of azacitidine was 145 ng/mL (64%) and the mean AUC of azacitidine was 242 ng h/mL (65%). No accumulation was observed following ONUREG 300 mg once daily.

Absorption

The mean oral bioavailability is approximately 11% relative to subcutaneous administration. The median time to peak plasma concentration of azacitidine is 1 hour.

Effect of Food

A high-fat, high-calorie meal (approximately 800 to 1000 calories, 50% fat) did not affect AUC0-12 h and decreased Cmax by 21%.
excluded if they were candidates for hematopoietic stem cell transplantation at the time of screening.

A total of 472 patients who completed induction with or without consolidation therapy were randomized 1:1 to receive ONUREG 300 mg (n=238) or placebo (n=234) orally on Days 1 through 14 of each 28-day cycle. Randomization was stratified by age at time of induction therapy (55 to 64 vs. ≥ 65 years), cytogenetic risk category at time of induction therapy (intermediate risk vs. poor risk), prior history of MDS/CMML (yes vs. no), and received consolidation therapy following induction therapy (yes vs. no). Baseline demographic and disease characteristics are shown in Table 4.

Table 4: Baseline Demographics and Disease-Related Characteristics in QUAZAR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>ONUREG (N=238)</th>
<th>Placebo (N=234)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (years)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median (Min, Max)</td>
<td>68.0 (55, 86)</td>
<td>68.0 (55, 82)</td>
</tr>
<tr>
<td>Age Category, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 65 years</td>
<td>66 (28)</td>
<td>68 (29)</td>
</tr>
<tr>
<td>65 years to &lt; 75 years</td>
<td>144 (61)</td>
<td>142 (61)</td>
</tr>
<tr>
<td>≥ 75 years</td>
<td>28 (12)</td>
<td>24 (10)</td>
</tr>
<tr>
<td>Sex, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>118 (50)</td>
<td>127 (54)</td>
</tr>
<tr>
<td>Female</td>
<td>120 (50)</td>
<td>107 (46)</td>
</tr>
<tr>
<td>Race, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>216 (91)</td>
<td>197 (84)</td>
</tr>
<tr>
<td>Black or African American</td>
<td>2 (1)</td>
<td>6 (3)</td>
</tr>
<tr>
<td>Asian</td>
<td>6 (3)</td>
<td>20 (9)</td>
</tr>
<tr>
<td>Other</td>
<td>12 (5)</td>
<td>11 (5)</td>
</tr>
<tr>
<td>Not Collected or Reported</td>
<td>2 (1)</td>
<td>0 (0)</td>
</tr>
<tr>
<td>ECOG Performance Status, n (%)</td>
<td></td>
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<tr>
<td>0</td>
<td>116 (49)</td>
<td>111 (47)</td>
</tr>
<tr>
<td>1</td>
<td>101 (42)</td>
<td>106 (45)</td>
</tr>
<tr>
<td>2</td>
<td>21 (9)</td>
<td>15 (6)</td>
</tr>
<tr>
<td>3</td>
<td>0 (0)</td>
<td>2 (1)</td>
</tr>
<tr>
<td>Cyto genetic Risk Status at Diagnosis, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate Risk</td>
<td>203 (85)</td>
<td>203 (87)</td>
</tr>
<tr>
<td>Poor Risk</td>
<td>35 (15)</td>
<td>31 (13)</td>
</tr>
<tr>
<td>Initial AML Classification, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AML with recurrent genetic abnormalities</td>
<td>39 (16)</td>
<td>46 (20)</td>
</tr>
<tr>
<td>AML with myelodysplasia-related changes</td>
<td>49 (21)</td>
<td>42 (18)</td>
</tr>
<tr>
<td>Therapy related myeloid neoplasms</td>
<td>2 (1)</td>
<td>0 (0)</td>
</tr>
<tr>
<td>AML not otherwise specified</td>
<td>148 (62)</td>
<td>145 (62)</td>
</tr>
<tr>
<td>Missing</td>
<td>0 (0)</td>
<td>1 (&lt; 1)</td>
</tr>
<tr>
<td>Type of AML, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary (de novo)</td>
<td>213 (89)</td>
<td>216 (92)</td>
</tr>
<tr>
<td>Secondary</td>
<td>25 (11)</td>
<td>18 (8)</td>
</tr>
</tbody>
</table>

AML=Acute Myeloid Leukemia, MDS=Myelodysplastic Syndrome, CMML=Chronic Myelomonocytic Leukemia, ECOG=Eastern Cooperative Oncology Group, CR=Morphologic Complete Remission, CRi=Morphologic complete remission with incomplete blood count recovery.

1 Intermediate risk was defined as normal cytogenetics +8, t(9;11), or Other undefined.

2 Poor risk was defined as Complex (≥ 3 abnormalities): -7; 7q-; 11q23 - non t(9;11); inv(3); t(3;3); t(6;9); or t(9;22).


The efficacy of ONUREG was established on the basis of overall survival (OS). The trial demonstrated a statistically significant improvement in OS for patients randomized to ONUREG compared to placebo. A subgroup analysis showed consistency in the OS benefit for patients in either CR or CRi. The efficacy results are summarized in Table 5 and Figure 1.

Figure 1: Kaplan-Meier Curve for Overall Survival (ITT Population) in QUAZAR

![Kaplan-Meier Curve](image-url)
15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied
ONUREG tablets are available as:
• 200 mg: pink, oval, film-coated tablets with debossed “200” on one side and “ONU” on the other side.
• 300 mg: brown, oval, film-coated tablets with debossed “300” on one side and “ONU” on the other side.

Table 6 lists the package configurations and strengths.

Table 6: ONUREG Package Configurations and NDC Numbers

<table>
<thead>
<tr>
<th>Package Configuration</th>
<th>Tablet Strength</th>
<th>NDC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottles of 14 with two desiccant canisters</td>
<td>200 mg</td>
<td>59572-730-14</td>
</tr>
<tr>
<td>Bottles of 14 with two desiccant canisters</td>
<td>300 mg</td>
<td>59572-740-14</td>
</tr>
</tbody>
</table>

Storage
Store bottles at 20ºC to 25ºC (68ºF to 77ºF); excursions permitted between 15ºC to 30ºC (59ºF to 86ºF) [see USP Controlled Room Temperature].

Keep bottle tightly closed.

Store and dispense in the original bottle (with two desiccant canisters).

Handling and Disposal
ONUREG is a hazardous drug. Follow applicable special handling and disposal procedures.1

If powder comes in contact with skin, immediately and thoroughly wash with soap and water. If powder comes in contact with mucous membranes, immediately flush the area with water.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Myelosuppression
Advise patients of the risk of myelosuppression with ONUREG and of the need to monitor complete blood counts before and during treatment [see Warnings and Precautions (5.2)].

Gastrointestinal Toxicity
Advise patients of the risk of gastrointestinal toxicity with ONUREG and of the potential need to use anti-emetic or anti-diarrheal medications during treatment [see Adverse Reactions (6.1)].

Embryo-Fetal Toxicity
Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to inform their healthcare provider of a known or suspected pregnancy [see Warnings and Precautions (5.4), Use in Specific Populations (8.1)].

Advise females of reproductive potential to use effective contraception during treatment with ONUREG and for at least 6 months after the last dose [see Use in Specific Populations (8.3)].

Advise males with female partners of reproductive potential to use effective contraception during treatment with ONUREG and for at least 3 months after the last dose [see Use in Specific Populations (8.3)].

Lactation
Advise women not to breastfeed during treatment with ONUREG and for 1 week after the last dose [see Use in Specific Populations (8.2)].

Administration
Advise patients to take ONUREG with or without food at about the same time each day and how to make up a missed or vomited dose. Advise patients to swallow tablets whole. Advise patients not to cut, split, crush, or chew the tablets [see Dosage and Administration (2.2)].

Storage Instructions
Advise patients to keep ONUREG in the original container. Advise patients to keep the container tightly closed with both desiccant canisters inside and to not eat the desiccant canisters [see How Supplied/Storage and Handling (16)].

Manufactured by: Celgene Corporation
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86 Morris Avenue
Summit, NJ 07901

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ONUP1001
Patient Information
ONUREG® (on-u-reg)
(azacitidine) tablets, for oral use

What is ONUREG?
ONUREG is a prescription medicine used for continued treatment of adults with acute myeloid leukemia (AML) who:

- had a first complete remission (CR) following intensive induction chemotherapy with or without recovery of your blood cell counts, and
- who are not able to complete intensive curative therapy.

It is not known if ONUREG is safe and effective in children under 18 years of age.

Do not take ONUREG if you:
- are allergic to azacitidine or any of the ingredients in ONUREG. See the end of this leaflet for a complete list of ingredients in ONUREG.

Before taking ONUREG, tell your healthcare provider about all of your medical conditions, including if you:
- have kidney or liver problems.
- are pregnant or plan to become pregnant. ONUREG can harm your unborn baby.

Females who are able to become pregnant:
- Your healthcare provider should perform a pregnancy test before you start treatment with ONUREG.
- You should use effective birth control (contraception) during treatment and for at least 6 months after your last dose of ONUREG.
- Tell your healthcare provider right away if you become pregnant during treatment with ONUREG.

Males with a female sexual partner who can become pregnant:
- You should use effective birth control (contraception) during treatment and for at least 3 months after your last dose of ONUREG.

- are breastfeeding or plan to breastfeed. It is not known if ONUREG passes into your breast milk. Do not breastfeed during treatment and for 1 week after your last dose of ONUREG.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How should I take ONUREG?
- Take ONUREG exactly as your healthcare provider tells you to take it.
- Your healthcare provider will prescribe an anti-nausea medicine for you to take to help prevent nausea and vomiting during your treatment with ONUREG.
  - Take the anti-nausea medicine 30 minutes before each dose of ONUREG.
  - Your healthcare provider may decide to stop the anti-nausea medicine after your second cycle of ONUREG, if you do not have any nausea or vomiting.
- Take ONUREG by mouth 1 time each day beginning on Day 1 through Day 14 of each 28-day cycle.
- Take ONUREG with or without food at about the same time each day.
- Swallow ONUREG tablets whole. Do not cut, split, crush, or chew the tablets.
- If the powder from ONUREG tablets comes in contact with your skin, wash the area well right away with soap and water.
- If the powder from ONUREG tablets comes in contact with your eyes or mouth (mucous membranes), flush the area right away with water.
- If you miss a dose of ONUREG, or if you do not take your dose at the usual time, take the dose as soon as possible that day. Take your next dose at the regular time the next day. Do not take 2 doses on the same day to make up for a missed dose.
- If you vomit after taking a dose of ONUREG, do not take another dose on the same day. Take your next dose at the regular time the next day.

What are the possible side effects of ONUREG?
ONUREG can cause serious side effects, including:
- New or worsening low white blood cell counts (neutopenia). New or worsening low white blood cell counts are common but can also be severe during treatment with ONUREG. If your white blood cell counts become very low, you are at increased risk for infections. Your healthcare provider will check your white blood cell counts before and during treatment with ONUREG. Your healthcare provider may prescribe a medicine to help increase your white blood cell count if needed.
Tell your healthcare provider right away if you get any of the following symptoms:
- fever or chills
- feeling very tired or weak
- body aches
- unusual headaches

New or worsening low platelet counts (thrombocytopenia). Low platelet counts are common but can also be severe during treatment with ONUREG. Your healthcare provider will check your platelet counts before and during treatment with ONUREG. Tell your healthcare provider right away if you have any unusual bruising or bleeding. Your healthcare provider may change your dose or tell you to stop taking ONUREG if you have low blood cell counts.

ONUREG may cause fertility problems in males and females, which may affect your ability to have children. Talk with your healthcare provider if you have concerns about fertility.

The most common side effects of ONUREG include:
- nausea and vomiting. See “How should I take ONUREG?”
- diarrhea. You may need to be treated with anti-diarrheal medicines.
- pneumonia
- joint pain
- decreased appetite
- pain in arms or legs
- dizziness
- tiredness or weakness
- constipation
- stomach area (abdominal) pain

These are not all of the possible side effects of ONUREG. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store ONUREG?
- Store bottles of ONUREG tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Store ONUREG tablets in the original bottle.
- Bottles of ONUREG contain 2 drying agent (desiccant) canisters. Do not eat the desiccant canisters.
- Keep the ONUREG bottle tightly closed.
- Talk to your healthcare provider about how to safely throw away (dispose of) any unused or expired ONUREG.

General information about the safe and effective use of ONUREG.
Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use ONUREG for a condition for which it was not prescribed. Do not give ONUREG to other people, even if they have the same symptoms you have. It may harm them. You can ask your pharmacist or healthcare provider for information about ONUREG that is written for health professionals.

What are the ingredients in ONUREG?
Active ingredient: azacitidine

Inactive ingredients:
Each core tablet contains: croscarmellose sodium, magnesium stearate, mannitol, and silicified microcrystalline cellulose.
The pink 200 mg tablet coating contains: hypromellose, iron oxide red, lactose monohydrate, polyethylene glycol, titanium dioxide, and triacetin.
The brown 300 mg tablet coating contains: black iron oxide, hypromellose, iron oxide red, iron oxide yellow, lactose monohydrate, polyethylene glycol, titanium dioxide, and triacetin.

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For more information, go to www.ONUREG.com or call 1-888-423-5436.