ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
1. **NAME OF THE MEDICINAL PRODUCT**

   Lenalidomide Accord 2.5 mg hard capsules
   Lenalidomide Accord 5 mg hard capsules
   Lenalidomide Accord 7.5 mg hard capsules
   Lenalidomide Accord 10 mg hard capsules
   Lenalidomide Accord 15 mg hard capsules
   Lenalidomide Accord 20 mg hard capsules
   Lenalidomide Accord 25 mg hard capsules

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

   **Lenalidomide Accord 2.5 mg hard capsules**
   Each hard capsule contains 2.5 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 36 mg of lactose.

   **Lenalidomide Accord 5 mg hard capsules**
   Each hard capsule contains 5 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 33 mg of lactose.

   **Lenalidomide Accord 7.5 mg hard capsules**
   Each hard capsule contains 7.5 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 50 mg of lactose.

   **Lenalidomide Accord 10 mg hard capsules**
   Each hard capsule contains 10 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 67 mg of lactose.

   **Lenalidomide Accord 15 mg hard capsules**
   Each hard capsule contains 15 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 100 mg of lactose.

   **Lenalidomide Accord 20 mg hard capsules**
   Each hard capsule contains 20 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 134 mg of lactose.

   **Lenalidomide Accord 25 mg hard capsules**
   Each hard capsule contains 25 mg of lenalidomide.

   *Excipient with known effect*
   Each hard capsule contains 167 mg of lactose.

   For the full list of excipients, see section 6.1.
3. PHARMACEUTICAL FORM

Hard capsule (capsule)

Lenalidomide Accord 2.5 mg hard capsules
Gelatin hard capsules size “5” approximately 11.0 mm to 11.8 mm in length, grey cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “2.5 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 5 mg hard capsules
Gelatin hard capsules size “5” approximately 11.0 mm to 11.8 mm in length, opaque white cap and body with “LENALIDOMIDE” printed on cap in black and “5 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 7.5 mg hard capsules
Gelatin hard capsules size “4” approximately 14.0 mm to 14.8 mm in length, opaque lavender cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “7.5 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 10 mg hard capsules
Gelatin hard capsules size “3” approximately 15.4 mm to 16.2 mm in length, leaf green cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “10 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 15 mg hard capsules
Gelatin hard capsules size “2” approximately 17.4 mm to 18.2 mm in length, opaque orange cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “15 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 20 mg hard capsules
Gelatin hard capsules size “1” approximately 19.0 mm to 19.8 mm in length, opaque green cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “20 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 25 mg hard capsules
Gelatin hard capsules size “0” approximately 21.0 mm to 21.8 mm in length, white opaque cap and body with “LENALIDOMIDE” printed on cap in black and “25 mg” printed on body in green, containing white to off white coloured powder.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Multiple myeloma
Lenalidomide Accord as monotherapy is indicated for the maintenance treatment of adult patients with newly diagnosed multiple myeloma who have undergone autologous stem cell transplantation.

Lenalidomide Accord as combination therapy with dexamethasone, or bortezomib and dexamethasone, or melphalan and prednisone (see section 4.2) is indicated for the treatment of adult patients with previously untreated multiple myeloma who are not eligible for transplant.

Lenalidomide Accord in combination with dexamethasone is indicated for the treatment of multiple myeloma in adult patients who have received at least one prior therapy.

Myelodysplastic syndromes
Lenalidomide Accord as monotherapy is indicated for the treatment of adult patients with transfusion-dependent anaemia due to low- or intermediate-1-risk myelodysplastic syndromes associated with an isolated deletion 5q cytogenetic abnormality when other therapeutic options are insufficient or inadequate.

Mantle cell lymphoma
Lenalidomide Accord as monotherapy is indicated for the treatment of adult patients with relapsed or refractory mantle cell lymphoma (see sections 4.4 and 5.1).

Follicular lymphoma
Lenalidomide Accord in combination with rituximab (anti-CD20 antibody) is indicated for the treatment of adult patients with previously treated follicular lymphoma (Grade 1–3a).

4.2 Posology and method of administration
Lenalidomide treatment should be supervised by a physician experienced in the use of anti-cancer therapies. For all indications described below:

- Dose is modified based upon clinical and laboratory findings (see section 4.4).
- Dose adjustments, during treatment and restart of treatment, are recommended to manage Grade 3 or 4 thrombocytopenia, neutropenia, or other Grade 3 or 4 toxicity judged to be related to lenalidomide.
- In case of neutropenia, the use of growth factors in patient management should be considered.
- If less than 12 hours has elapsed since missing a dose, the patient can take the dose. If more than 12 hours has elapsed since missing a dose at the normal time, the patient should not take the dose, but take the next dose at the normal time on the following day.

Posology

Newly diagnosed multiple myeloma (NDMM)

Lenalidomide maintenance in patients who have undergone autologous stem cell transplantation (ASCT)
Lenalidomide maintenance should be initiated after adequate haematologic recovery following ASCT in patients without evidence of progression. Lenalidomide must not be started if the ANC is < 1.0 x 10⁹/L, and/or platelet counts are < 75 x 10⁹/L.

Recommended dose
The recommended starting dose is lenalidomide 10 mg orally once daily continuously (on days 1 to 28 of repeated 28-day cycles) given until disease progression or intolerance. After 3 cycles of lenalidomide maintenance, the dose can be increased to 15 mg orally once daily if tolerated.

Dose reduction steps

<table>
<thead>
<tr>
<th>Dose level -1</th>
<th>Starting dose (10 mg)</th>
<th>If dose increased (15 mg) *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dose level -2</td>
<td>5 mg (days 1-21 every 28 days)</td>
<td>5 mg</td>
</tr>
<tr>
<td>Dose level -3</td>
<td>Not applicable</td>
<td>5 mg (days 1-21 every 28 days)</td>
</tr>
<tr>
<td></td>
<td>Do not dose below 5 mg (days 1-21 every 28 days)</td>
<td></td>
</tr>
</tbody>
</table>

* After 3 cycles of lenalidomide maintenance, the dose can be increased to 15 mg orally once daily if tolerated.

Thrombocytopenia

<table>
<thead>
<tr>
<th>When platelets</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to &lt; 30 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 30 x 10⁹/L</td>
<td>Resume lenalidomide at dose level -1 once daily</td>
</tr>
<tr>
<td>For each subsequent drop below 30 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 30 x 10⁹/L</td>
<td>Resume lenalidomide at next lower dose level once daily</td>
</tr>
</tbody>
</table>

Absolute neutrophil count (ANC)-neutropenia

<table>
<thead>
<tr>
<th>When ANC</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to &lt; 0.5 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 0.5 x 10⁹/L</td>
<td>Resume lenalidomide at dose level -1 once daily</td>
</tr>
</tbody>
</table>
When ANC

<table>
<thead>
<tr>
<th>For each subsequent drop below (&lt; 0.5 \times 10^9/L)</th>
<th>Recommended course*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Returns to (\geq 0.5 \times 10^9/L)</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td></td>
<td>Resume lenalidomide at next lower dose level once daily</td>
</tr>
</tbody>
</table>

*At the physician’s discretion, if neutropenia is the only toxicity at any dose level, add granulocyte colony stimulating factor (G-CSF) and maintain the dose level of lenalidomide.

**Lenalidomide in combination with dexamethasone until disease progression in patients who are not eligible for transplant**

Lenalidomide treatment must not be started if the Absolute Neutrophil Count (ANC) is \(< 1.0 \times 10^9/L\), and/or platelet counts are \(< 50 \times 10^9/L\).

**Recommended dose**

The recommended starting dose of lenalidomide is 25 mg orally once daily on days 1 to 21 of repeated 28-day cycles.

The recommended dose of dexamethasone is 40 mg orally once daily on days 1, 8, 15 and 22 of repeated 28-day cycles. Patients may continue lenalidomide and dexamethasone therapy until disease progression or intolerance.

**Dose reduction steps**

<table>
<thead>
<tr>
<th>Staging dose</th>
<th>Lenalidomide*</th>
<th>Dexamethasone*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting dose</td>
<td>25 mg</td>
<td>40 mg</td>
</tr>
<tr>
<td>Dose level -1</td>
<td>20 mg</td>
<td>20 mg</td>
</tr>
<tr>
<td>Dose level -2</td>
<td>15 mg</td>
<td>12 mg</td>
</tr>
<tr>
<td>Dose level -3</td>
<td>10 mg</td>
<td>8 mg</td>
</tr>
<tr>
<td>Dose level -4</td>
<td>5 mg</td>
<td>4 mg</td>
</tr>
<tr>
<td>Dose level -5</td>
<td>2.5 mg</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

*Dose reduction for both medicinal products can be managed independently

- **Thrombocytopenia**

When platelets

<table>
<thead>
<tr>
<th>Falls to (&lt; 25 \times 10^9/L)</th>
<th>Recommended course*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Returns to (\geq 50 \times 10^9/L)</td>
<td>Stop lenalidomide dosing for remainder of cycle*</td>
</tr>
<tr>
<td></td>
<td>Decrease by one dose level when dosing resumed at next cycle</td>
</tr>
</tbody>
</table>

*If Dose limiting toxicity (DLT) occurs on > day 15 of a cycle, lenalidomide dosing will be interrupted for at least the remainder of the current 28-day cycle.

- **Absolute neutrophil count (ANC) - neutropenia**

When ANC

<table>
<thead>
<tr>
<th>First falls to (&lt; 0.5 \times 10^9/L)</th>
<th>Recommended course*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Returns to (\geq 1 \times 10^9/L) when neutropenia is the only observed toxicity</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Return to (\geq 0.5 \times 10^9/L) when dose-dependent haematological toxicities other than neutropenia are observed</td>
<td>Resume lenalidomide at dose level -1 once daily</td>
</tr>
<tr>
<td>For each subsequent drop below (&lt; 0.5 \times 10^9/L)</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to (\geq 0.5 \times 10^9/L)</td>
<td>Resume lenalidomide at next lower dose level once daily</td>
</tr>
</tbody>
</table>

*At the physician’s discretion, if neutropenia is the only toxicity at any dose level, add granulocyte colony stimulating factor (G-CSF) and maintain the dose level of lenalidomide.

For hematologic toxicity the dose of lenalidomide may be re-introduced to the next higher dose level (up to the starting dose) upon improvement in bone marrow function (no hematologic toxicity for at least 2 consecutive cycles: ANC \(\geq 1,5 \times 10^9/L\) with a platelet count \(\geq 100 \times 10^9/L\) at the beginning of a new cycle).

- **Lenalidomide in combination with bortezomib and dexamethasone followed by lenalidomide and dexamethasone until disease progression in patients who are not eligible for transplant**

**Initial treatment: Lenalidomide in combination with bortezomib and dexamethasone**
Lenalidomide in combination with bortezomib and dexamethasone must not be started if the ANC is < 1.0 x 10^9/L, and/or platelet counts are < 50 x 10^9/L.

The recommended starting dose is lenalidomide 25 mg orally once daily days 1-14 of each 21-day cycle in combination with bortezomib and dexamethasone. Bortezomib should be administered via subcutaneous injection (1.3 mg/m² body surface area) twice weekly on days 1, 4, 8 and 11 of each 21-day. For additional information on the dose, schedule and dose adjustments of medicinal products administered with lenalidomide, see Section 5.1 and the corresponding Summary of Product Characteristics.

Up to eight 21-day treatment cycles (24 weeks of initial treatment) are recommended.

*Continued treatment: Lenalidomide in combination with dexamethasone until progression*
Continue lenalidomide 25 mg orally once daily on days 1-21 of repeated 28-day cycles in combination with dexamethasone. Treatment should be continued until disease progression or unacceptable Toxicity.

**Dose reduction steps**

<table>
<thead>
<tr>
<th>Dose level</th>
<th>Lenalidomide&lt;sup&gt;a&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting dose</td>
<td>25 mg</td>
</tr>
<tr>
<td>Dose level -1</td>
<td>20 mg</td>
</tr>
<tr>
<td>Dose level -2</td>
<td>15 mg</td>
</tr>
<tr>
<td>Dose level -3</td>
<td>10 mg</td>
</tr>
<tr>
<td>Dose level -4</td>
<td>5 mg</td>
</tr>
<tr>
<td>Dose level -5</td>
<td>2.5 mg</td>
</tr>
</tbody>
</table>

<sup>a</sup> Dose reduction for all products can be managed independently

**Thrombocytopenia**

<table>
<thead>
<tr>
<th>When platelets</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to &lt; 30 x 10^9/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 50 x 10^9/L</td>
<td>Resume lenalidomide at dose level -1 daily</td>
</tr>
<tr>
<td>For each subsequent drop below 30 x 10^9/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 50 x 10^9/L</td>
<td>Resume lenalidomide at next lower dose level daily</td>
</tr>
</tbody>
</table>

**Absolute neutrophil count (ANC) - neutropenia**

<table>
<thead>
<tr>
<th>When ANC</th>
<th>Recommended course&lt;sup&gt;a&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>First falls to &lt; 0.5 x 10^9/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 1 x 10^9/L when neutropenia is the only observed toxicity</td>
<td>Resume lenalidomide at starting dose once daily</td>
</tr>
<tr>
<td>Returns to ≥ 0.5 x 10^9/L when dose-dependent haematological toxicities other than neutropenia are observed</td>
<td>Resume lenalidomide at dose level -1 daily</td>
</tr>
<tr>
<td>For each subsequent drop below &lt; 0.5 x 10^9/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 0.5 x 10^9/L</td>
<td>Resume lenalidomide at next lower dose level once daily</td>
</tr>
</tbody>
</table>

<sup>a</sup> At the physician’s discretion, if neutropenia is the only toxicity at any dose level, add granulocyte colony stimulating factor (G-CSF) and maintain the dose level of lenalidomide.

**Lenalidomide in combination with melphalan and prednisone followed by lenalidomide maintenance in patients who are not eligible for transplant**
Lenalidomide treatment must not be started if the ANC is < 1.5 x 10^9/L, and/or platelet counts are < 75 x 10^9/L.

*Recommended dose*
The recommended starting dose is lenalidomide 10 mg orally once daily on days 1 to 21 of repeated 28-day cycles for up to 9 cycles, melphalan 0.18 mg/kg orally on days 1 to 4 of repeated 28-day cycles, prednisone 2 mg/kg orally on days 1 to 4 of repeated 28-day cycles. Patients who complete 9 cycles or who are unable to complete the combination therapy due to intolerance are treated with lenalidomide monotherapy as follows: 10 mg orally once daily on days 1 to 21 of repeated 28-day cycles given until disease progression.
- **Dose reduction steps**

<table>
<thead>
<tr>
<th></th>
<th>Lenalidomide</th>
<th>Melphalan</th>
<th>Prednisone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting dose</td>
<td>10 mg(^a)</td>
<td>0.18 mg/kg</td>
<td>2 mg/kg</td>
</tr>
<tr>
<td>Dose level -1</td>
<td>7.5 mg</td>
<td>0.14 mg/kg</td>
<td>1 mg/kg</td>
</tr>
<tr>
<td>Dose level -2</td>
<td>5 mg</td>
<td>0.10 mg/kg</td>
<td>0.5 mg/kg</td>
</tr>
<tr>
<td>Dose level -3</td>
<td>2.5 mg</td>
<td>Not applicable</td>
<td>0.25 mg/kg</td>
</tr>
</tbody>
</table>

\(^a\)If neutropenia is the only toxicity at any dose level, add granulocyte colony stimulating factor (G-CSF) and maintain the dose level of lenalidomide.

- **Thrombocytopenia**

<table>
<thead>
<tr>
<th>When platelets</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>First falls to &lt; 25 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 25 x 10⁹/L</td>
<td>Resume lenalidomide and melphalan at dose level -1</td>
</tr>
</tbody>
</table>

| For each subsequent drop below 30 x 10⁹/L | Interrupt lenalidomide treatment |
| Returns to ≥ 30 x 10⁹/L | Resume lenalidomide at next lower dose level (dose level -2 or -3) once daily. |

- **Absolute neutrophil count (ANC) - neutropenia**

<table>
<thead>
<tr>
<th>When ANC</th>
<th>Recommended course(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First falls to &lt; 0.5 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 0.5 x 10⁹/L when neutropenia is the only observed toxicity</td>
<td>Resume lenalidomide at starting dose once daily</td>
</tr>
<tr>
<td>Returns to ≥ 0.5 x 10⁹/L when dose-dependent haematological toxicities other than neutropenia are observed</td>
<td>Resume lenalidomide at dose level -1 once daily</td>
</tr>
<tr>
<td>For each subsequent drop below &lt; 0.5 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 0.5 x 10⁹/L</td>
<td>Resume lenalidomide at next lower dose level once daily.</td>
</tr>
</tbody>
</table>

\(^a\)At the physician’s discretion, if neutropenia is the only toxicity at any dose level, add granulocyte colony stimulating factor (G-CSF) and maintain the dose level of lenalidomide.

**Multiple myeloma with at least one prior therapy**

Lenalidomide treatment must not be started if the ANC < 1.0 x 10⁹/L, and/or platelet counts < 75 x 10⁹/L or, dependent on bone marrow infiltration by plasma cells, platelet counts < 30 x 10⁹/L

**Recommended dose**

The recommended starting dose of lenalidomide is 25 mg orally once daily on days 1 to 21 of repeated 28-day cycles. The recommended dose of dexamethasone is 40 mg orally once daily on days 1 to 4, 9 to 12, and 17 to 20 of each 28-day cycle for the first 4 cycles of therapy and then 40 mg once daily on days 1 to 4 every 28 days.

Prescribing physicians should carefully evaluate which dose of dexamethasone to use, taking into account the condition and disease status of the patient.

- **Dose reduction steps**

<table>
<thead>
<tr>
<th></th>
<th>25 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting dose</td>
<td></td>
</tr>
<tr>
<td>Dose level -1</td>
<td>15 mg</td>
</tr>
<tr>
<td>Dose level -2</td>
<td>10 mg</td>
</tr>
<tr>
<td>Dose level -3</td>
<td>5 mg</td>
</tr>
</tbody>
</table>

- **Thrombocytopenia**

<table>
<thead>
<tr>
<th>When platelets</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>First falls to &lt; 30 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 30 x 10⁹/L</td>
<td>Resume lenalidomide at dose level -1</td>
</tr>
<tr>
<td>For each subsequent drop below 30 x 10⁹/L</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to ≥ 30 x 10⁹/L</td>
<td>Resume lenalidomide at next lower dose level (dose level -2 or -3) once daily. Do not dose below 5 mg once daily.</td>
</tr>
</tbody>
</table>
### Absoluto neutrophil count (ANC) - neutropenia

<table>
<thead>
<tr>
<th>When ANC</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>First falls to $&lt; 0.5 \times 10^9/L$</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to $\geq 0.5 \times 10^9/L$ when neutropenia is the only observed toxicity</td>
<td>Resume lenalidomide at starting dose once daily</td>
</tr>
<tr>
<td>Returns to $\geq 0.5 \times 10^9/L$ when dose-dependent haematological toxicities other than neutropenia are observed</td>
<td>Resume lenalidomide at dose level -1 once daily</td>
</tr>
<tr>
<td>For each subsequent drop below $&lt; 0.5 \times 10^9/L$</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to $\geq 0.5 \times 10^9/L$</td>
<td>Resume lenalidomide at the next lower dose level (dose level -1, -2 or -3) once daily. Do not dose below 5 mg once daily.</td>
</tr>
</tbody>
</table>

*At the physician’s discretion, if neutropenia is the only toxicity at any dose level, add granulocyte colony stimulating factor (G-CSF) and maintain the dose level of lenalidomide.*

### Myelodysplastic syndromes (MDS)

Lenalidomide treatment must not be started if the ANC $< 0.5 \times 10^9/L$ and/or platelet counts $< 25 \times 10^9/L$.

#### Recommended dose

The recommended starting dose of lenalidomide is 10 mg orally once daily on days 1 to 21 of repeated 28-day cycles.

- **Dose reduction steps**

<table>
<thead>
<tr>
<th>Starting dose</th>
<th>10 mg once daily on days 1 to 21 every 28 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dose level -1</td>
<td>5 mg once daily on days 1 to 28 every 28 days</td>
</tr>
<tr>
<td>Dose level -2</td>
<td>2.5 mg once daily on days 1 to 28 every 28 days</td>
</tr>
<tr>
<td>Dose level -3</td>
<td>2.5 mg every other day 1 to 28 every 28 days</td>
</tr>
</tbody>
</table>

- **Thrombocytopenia**

<table>
<thead>
<tr>
<th>When platelets</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to $&lt; 25 \times 10^9/L$</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to $\geq 25 \times 10^9/L$ to $&lt; 50 \times 10^9/L$ on at least 2 occasions for $\geq 7$ days or when the platelet count recovers to $\geq 50 \times 10^9/L$ at any time</td>
<td>Resume lenalidomide at the next lower dose level (dose level -1, -2 or -3)</td>
</tr>
</tbody>
</table>

- **Absolute neutrophil count (ANC) - neutropenia**

<table>
<thead>
<tr>
<th>When ANC</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to $&lt; 0.5 \times 10^9/L$</td>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Returns to $\geq 0.5 \times 10^9/L$</td>
<td>Resume lenalidomide at the next lower dose level (dose level -1, -2 or -3)</td>
</tr>
</tbody>
</table>

### Discontinuation of lenalidomide

Patients without at least a minor erythroid response within 4 months of therapy initiation, demonstrated by at least a 50% reduction in transfusion requirements or, if not transfused, a 1g/dl rise in haemoglobin, should discontinue lenalidomide treatment.

### Mantle cell lymphoma (MCL)

#### Recommended dose

The recommended starting dose of lenalidomide is 25 mg orally once daily on days 1 to 21 of repeated 28-day cycles.

- **Dose reduction steps**

<table>
<thead>
<tr>
<th>Starting dose</th>
<th>25 mg once daily on days 1 to 21, every 28 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dose Level -1</td>
<td>20 mg once daily on days 1 to 21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -2</td>
<td>15 mg once daily on days 1 to 21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -3</td>
<td>10 mg once daily on days 1 to 21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -4</td>
<td>5 mg once daily on days 1 to 21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -5</td>
<td>2.5 mg once daily on days 1 to 21, every 28 days(^1)</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>5 mg every other day on days 1 to 21, every 28 days</td>
</tr>
</tbody>
</table>
\(^1\) - In countries where the 2.5 mg capsule is available.

- **Thrombocytopenia**

<table>
<thead>
<tr>
<th>When platelets</th>
<th>Recommended course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to &lt; 50 x 10^9/L</td>
<td>Interrupt lenalidomide treatment and conduct Complete Blood Count (CBC) at least every 7 days</td>
</tr>
<tr>
<td>Returns to ≥ 60 x 10^9/L</td>
<td>Resume lenalidomide at next lower level (dose level -1)</td>
</tr>
</tbody>
</table>
For each subsequent drop below 50 x 10^9/L

<table>
<thead>
<tr>
<th>Returns to ≥60 x 10^9/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interrupt lenalidomide treatment and conduct the CBC at least every 7 days</td>
</tr>
<tr>
<td>Resume lenalidomide at next lower level (dose level -2, -3, -4 or -5). Do not dose below dose level -5</td>
</tr>
</tbody>
</table>

**Absolute neutrophil count (ANC) - neutropenia**

<table>
<thead>
<tr>
<th>When ANC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to &lt; 1 x 10^9/L for at least 7 days or Falls to &lt; 1 x 10^9/L with associated fever (body temperature ≥ 38.5°C) or Falls to &lt; 0.5 x 10^9/L</td>
</tr>
<tr>
<td>Returns to ≥ 1 x 10^9/L.</td>
</tr>
</tbody>
</table>

For each subsequent drop below 1 x 10^9/L for at least 7 days or drop to < 1 x 10^9/L with associated fever (body temperature ≥ 38.5°C) or drop to < 0.5 x 10^9/L

<table>
<thead>
<tr>
<th>Returns to ≥1 x 10^9/L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interrupt lenalidomide treatment</td>
</tr>
<tr>
<td>Resume Lenalidomide at next lower dose level (dose level -2, -3, -4, -5). Do not dose below dose level -5</td>
</tr>
</tbody>
</table>

**Follicular lymphoma (FL)**

Lenalidomide treatment must not be started if the ANC is < 1 x 10^9/L, and/or platelet count < 50 x 10^9/L, unless secondary to lymphoma infiltration of bone marrow.

**Recommended dose**

The recommended starting dose of lenalidomide is 20 mg, orally once daily on days 1 to 21 of repeated 28-day cycles for up to 12 cycles of treatment. The recommended starting dose of rituximab is 375 mg/m² intravenously (IV) every week in Cycle 1 (days 1, 8, 15, and 22) and day 1 of every 28-day cycle for cycles 2 through 5.

**Dose reduction steps**

<table>
<thead>
<tr>
<th>Starting dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 mg once daily on days 1-21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -1</td>
</tr>
<tr>
<td>15 mg once daily on days 1-21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -2</td>
</tr>
<tr>
<td>10 mg once daily on days 1-21, every 28 days</td>
</tr>
<tr>
<td>Dose Level -3</td>
</tr>
<tr>
<td>5 mg once daily on days 1-21, every 28 days</td>
</tr>
</tbody>
</table>

For dose adjustments due to toxicity with rituximab, refer to the corresponding summary of product characteristics.

**Thrombocytopenia**

<table>
<thead>
<tr>
<th>When platelets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls to &lt; 50 x 10^9/L</td>
</tr>
<tr>
<td>Interrupt lenalidomide treatment and conduct CBC at least every 7 days</td>
</tr>
<tr>
<td>Returns to ≥ 50 x 10^9/L</td>
</tr>
<tr>
<td>Resume at next lower dose level (dose level -1)</td>
</tr>
<tr>
<td>For each subsequent drop below 50 x 10^9/L</td>
</tr>
<tr>
<td>Interrupt lenalidomide treatment and conduct CBC at least every 7 days</td>
</tr>
<tr>
<td>Returns to ≥ 50 x 10^9/L</td>
</tr>
<tr>
<td>Resume lenalidomide at next lower dose level (dose level -2, -3). Do not dose below dose level -3.</td>
</tr>
</tbody>
</table>
**Absolute neutrophil count (ANC) - neutropenia**

<table>
<thead>
<tr>
<th>When ANC</th>
<th>Recommended course *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Falls &lt; 1.0 x 10^9/L for at least 7 days or</td>
<td>Interrupt lenalidomide treatment and conduct CBC at least every 7 days</td>
</tr>
<tr>
<td>Falls to &lt; 1.0 x 10^9/L with associated fever (body temperature ≥ 38.5°C) or</td>
<td></td>
</tr>
<tr>
<td>Falls to &lt; 0.5 x 10^9/L</td>
<td></td>
</tr>
<tr>
<td>Returns to ≥ 1.0 x 10^9/L</td>
<td>Resume lenalidomide at next lower dose level (dose level -1)</td>
</tr>
<tr>
<td>For each subsequent drop below 1.0 x 10^9/L for at least 7 days or</td>
<td>Interrupt lenalidomide treatment and conduct CBC at least every 7 days</td>
</tr>
<tr>
<td>drop to &lt; 1.0 x 10^9/L with associated fever (body temperature ≥ 38.5°C) or</td>
<td></td>
</tr>
<tr>
<td>drop to &lt; 0.5 x 10^9/L</td>
<td></td>
</tr>
<tr>
<td>Returns to ≥1.0 x 10^9/L</td>
<td>Resume lenalidomide at next lower dose level (dose level -2, -3). Do not dose below dose level-3</td>
</tr>
</tbody>
</table>

* At the physician’s discretion, if neutropenia is the only toxicity at any dose level, add G-CSF

**Mantle cell lymphoma (MCL) or follicular lymphoma (FL)**

**Tumour lysis syndrome (TLS)**

All patients should receive TLS prophylaxis (allopurinol, rasburicase or equivalent as per institutional guidelines) and be well hydrated (orally) during the first week of the first cycle or for a longer period if clinically indicated. To monitor for TLS, patients should have a chemistry panel drawn weekly during the first cycle and as clinically indicated.

Lenalidomide may be continued (maintain dose) in patients with laboratory TLS or Grade 1 clinical TLS, or at the physician’s discretion, reduce dose by one level and continue lenalidomide. Vigorous intravenous hydration should be provided and appropriate medical management according to the local standard of care, until correction of electrolyte abnormalities. Rasburicase therapy may be needed to reduce hyperuricaemia. Hospitalisation of the patient will be at physician’s discretion.

In patients with Grade 2 to 4 clinical TLS, interrupt lenalidomide and obtain a chemistry panel weekly or as clinically indicated. Vigorous intravenous hydration should be provided and appropriate medical management according to the local standard of care, until correction of electrolyte abnormalities. Rasburicase therapy and hospitalisation will be at physician’s discretion. When the TLS resolves to Grade 0, restart lenalidomide at next lower dose per physician’s discretion (see section 4.4).

**Tumour flare reaction**

At the physician’s discretion, lenalidomide may be continued in patients with Grade 1 or 2 tumour flare reaction (TFR) without interruption or modification. At the physician’s discretion, therapy with non-steroidal anti-inflammatory drugs (NSAIDs), limited duration corticosteroids, and/or narcotic analgesics may be administered. In patients with Grade 3 or 4 TFR, withhold treatment with lenalidomide and initiate therapy with NSAIDs, corticosteroids and/or narcotic analgesics. When TFR resolves to ≤ Grade 1, restart lenalidomide treatment at the same dose level for the rest of the cycle. Patients may be treated for management of symptoms per the guidance for treatment of Grade 1 and 2 TFR (see section 4.4).

**All indications**

For other Grade 3 or 4 toxicities judged to be related to lenalidomide, treatment should be stopped and only restarted at next lower dose level when toxicity has resolved to ≤ Grade 2 depending on the physician’s discretion.

Lenalidomide interruption or discontinuation should be considered for Grade 2 or 3 skin rash. Lenalidomide must be discontinued for angioedema, anaphylactic reaction, Grade 4 rash, exfoliative or bullous rash, or if Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN) or Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) is suspected and should not be resumed following discontinuation from these reactions.

**Special populations**

- **Paediatric population**

Lenalidomide Accord should not be used in children and adolescents from birth to less than 18 years because of safety concerns (see section 5.1).

- **Elderly**
Currently available pharmacokinetic data are described in section 5.2. Lenalidomide has been used in clinical trials in multiple myeloma patients up to 91 years of age, in myelodysplastic syndromes patients up to 95 years of age and in mantle cell lymphoma patients up to 88 years of age (see section 5.1).

Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection and it would be prudent to monitor renal function.

**Newly diagnosed multiple myeloma: patients who are not eligible for transplant**

Patients with newly diagnosed multiple myeloma aged 75 years and older should be carefully assessed before treatment is considered (see section 4.4).

For patients older than 75 years of age treated with lenalidomide in combination with dexamethasone, the starting dose of dexamethasone is 20 mg once daily on days 1, 8, 15 and 22 of each 28-day treatment cycle.

No dose adjustment is proposed for patients older than 75 years who are treated with lenalidomide in combination with melphalan and prednisone.

In patients with newly diagnosed multiple myeloma aged 75 years and older who received lenalidomide, there was a higher incidence of serious adverse reactions and adverse reactions that led to treatment discontinuation.

Lenalidomide combined therapy was less tolerated in newly diagnosed multiple myeloma patients older than 75 years of age compared to the younger population. These patients discontinued at a higher rate due to intolerance (Grade 3 or 4 adverse events and serious adverse events), when compared to patients < 75 years.

**Multiple myeloma: patients with at least one prior therapy**

The percentage of multiple myeloma patients aged 65 or over was not significantly different between the lenalidomide/dexamethasone and placebo/dexamethasone groups. No overall difference in safety or efficacy was observed between these patients and younger patients, but greater pre-disposition of older individuals cannot be ruled out.

**Myelodysplastic syndromes**

For myelodysplastic syndromes patients treated with lenalidomide, no overall difference in safety and efficacy was observed between patients aged over 65 and younger patients.

**Mantle cell lymphoma**

For mantle cell lymphoma patients treated with lenalidomide, no overall difference in safety and efficacy was observed between patients aged 65 years or over compared with patients aged under 65 years of age.

**Follicular lymphoma**

For follicular lymphoma patients treated with lenalidomide in combination with rituximab, the overall rate of adverse events is similar for patients aged 65 years or over compared with patients under 65 years of age. No overall difference in efficacy was observed between the two age groups.

- **Patients with renal impairment**

Lenalidomide is primarily excreted by the kidney; patients with greater degrees of renal impairment can have impaired treatment tolerance (see section 4.4). Care should be taken in dose selection and monitoring of renal function is advised.

No dose adjustments are required for patients with mild renal impairment and multiple myeloma myelodysplastic syndromes, mantle cell lymphoma, or follicular lymphoma. The following dose adjustments are recommended at the start of therapy and throughout treatment for patients with moderate or severe impaired renal function or end stage renal disease.

There are no phase 3 trial experiences with End Stage Renal Disease (ESRD) (CLcr < 30 mL/min, requiring dialysis).

**Multiple myeloma**

<table>
<thead>
<tr>
<th>Renal function (CLcr)</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Myelodysplastic syndromes

<table>
<thead>
<tr>
<th>Renal function (CLcr)</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate renal impairment (30 ≤ CLcr &lt; 50 mL/min)</td>
<td>Starting dose 5 mg once daily (days 1 to 21 of repeated 28-day cycles)</td>
</tr>
<tr>
<td></td>
<td>Dose level -1* 2.5 mg once daily (days 1 to 28 of repeated 28-day cycles)</td>
</tr>
<tr>
<td></td>
<td>Dose level -2* 2.5 mg once every other day (days 1 to 28 of repeated 28-day cycles)</td>
</tr>
<tr>
<td>Severe renal impairment (CLcr &lt; 30 mL/min, not requiring dialysis)</td>
<td>Starting dose 2.5 mg once daily (days 1 to 21 of repeated 28-day cycles)</td>
</tr>
<tr>
<td></td>
<td>Dose level -1* 2.5 mg every other day (days 1 to 28 of repeated 28-day cycles)</td>
</tr>
<tr>
<td></td>
<td>Dose level -2* 2.5 mg twice a week (days 1 to 28 of repeated 28-day cycles)</td>
</tr>
<tr>
<td>End Stage Renal Disease (ESRD) (CLcr &lt; 30 mL/min, requiring dialysis)</td>
<td>Starting dose 2.5 mg once daily (days 1 to 21 of repeated 28-day cycles)</td>
</tr>
<tr>
<td></td>
<td>Dose level -1* 2.5 mg every other day (days 1 to 28 of repeated 28-day cycles)</td>
</tr>
<tr>
<td></td>
<td>Dose level -2* 2.5 mg twice a week (days 1 to 28 of repeated 28-day cycles)</td>
</tr>
</tbody>
</table>

- Recommended dose reduction steps during treatment and restart of treatment to manage Grade 3 or 4 neutropenia or thrombocytopenia, or other Grade 3 or 4 toxicity judged to be related to lenalidomide, as described above.

### Mantle cell lymphoma

<table>
<thead>
<tr>
<th>Renal function (CLcr)</th>
<th>Dose adjustment (days 1 to 21 of repeated 28-day cycles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate renal impairment (30 ≤ CLcr &lt; 50 mL/min)</td>
<td>10 mg once daily¹</td>
</tr>
<tr>
<td>Severe renal impairment (CLcr &lt; 30 mL/min, not requiring dialysis)</td>
<td>7.5 mg once daily²</td>
</tr>
<tr>
<td></td>
<td>15 mg every other day</td>
</tr>
<tr>
<td>End Stage Renal Disease (ESRD) (CLcr &lt; 30 mL/min, requiring dialysis)</td>
<td>5 mg once daily. On dialysis days, the dose should be administered following dialysis.</td>
</tr>
</tbody>
</table>

¹ The dose may be escalated to 15 mg once daily after 2 cycles if patient is not responding to treatment and is tolerating the treatment.

² In countries where the 7.5 mg capsule is available.
**Follicular lymphoma**

<table>
<thead>
<tr>
<th>Renal function (CLcr)</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate renal impairment (30 ≤ CLcr &lt; 60 mL/min)</td>
<td>10 mg once daily&lt;sup&gt;1, 2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Severe renal impairment (CLcr &lt; 30 mL/min, not requiring dialysis)</td>
<td>5 mg once daily</td>
</tr>
<tr>
<td>End Stage Renal Disease (ESRD) (CLcr &lt; 30 mL/min, requiring dialysis)</td>
<td>5 mg once daily. On dialysis days, the dose should be administered following dialysis.</td>
</tr>
</tbody>
</table>

<sup>1</sup> The dose may be escalated to 15 mg once daily after 2 cycles if the patient has tolerated therapy.

<sup>2</sup> For patients on a starting dose of 10 mg, in case of dose reduction to manage Grade 3 or 4 neutropenia or thrombocytopenia, or other Grade 3 or 4. Toxicity judged to be related to lenalidomide do not dose below 5 mg every other day or 2.5 mg once daily.

After initiation of lenalidomide therapy, subsequent lenalidomide dose modification in renally impaired patients should be based on individual patient treatment tolerance, as described above.

- **Patients with hepatic impairment**
  Lenalidomide has not formally been studied in patients with impaired hepatic function and there are no specific dose recommendations.

**Method of administration**

Oral use.

Lenalidomide Accord hard capsules should be taken orally at about the same time on the scheduled days. The capsules should not be opened, broken or chewed. The capsules should be swallowed whole, preferably with water, either with or without food.

It is recommended to press only on one end of the capsule to remove it from the blister thereby reducing the risk of capsule deformation or breakage.

### 4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
- Women who are pregnant.
- Women of childbearing potential unless all of the conditions of the Pregnancy Prevention Programme are met (see sections 4.4 and 4.6).

#### 4.4 Special warnings and precautions for use

**When lenalidomide is given in combination with other medicinal products, the corresponding Summary of Product Characteristics must be consulted prior to initiation of treatment.**

**Pregnancy warning**

Lenalidomide is structurally related to thalidomide. Thalidomide is a known human teratogenic active substance that causes severe life-threatening birth defects. Lenalidomide induced in monkeys’ malformations similar to those described with thalidomide (see sections 4.6 and 5.3). If lenalidomide is taken during pregnancy, a teratogenic effect of lenalidomide in humans is expected.

The conditions of the Pregnancy Prevention Programme must be fulfilled for all patients unless there is reliable evidence that the patient does not have childbearing potential.

**Criteria for women of non-childbearing potential**

A female patient or a female partner of a male patient is considered to have childbearing potential unless she meets at least one of the following criteria:

- Age ≥ 50 years and naturally amenorrhoic for ≥ 1 year (Amenorrhoea following cancer therapy or during breast-feeding does not rule out childbearing potential).
- Premature ovarian failure confirmed by a specialist gynaecologist
- Previous bilateral salpingo-oophorectomy, or hysterectomy
- XY genotype, Turner syndrome, uterine agenesis.

Counselling
For women of childbearing potential, lenalidomide is contraindicated unless all of the following are met:
- She understands the expected teratogenic risk to the unborn child
- She understands the need for effective contraception, without interruption, at least 4 weeks before starting treatment, throughout the entire duration of treatment, and at least 4 weeks after the end of treatment
- Even if a woman of childbearing potential has amenorrhea she must follow all the advice on effective contraception
- She should be capable of complying with effective contraceptive measures
- She is informed and understands the potential consequences of pregnancy and the need to rapidly consult if there is a risk of pregnancy
- She understands the need to commence the treatment as soon as lenalidomide is dispensed following a negative pregnancy test
- She understands the need and accepts to undergo pregnancy testing at least every 4 weeks except in case of confirmed tubal sterilisation
- She acknowledges that she understands the hazards and necessary precautions associated with the use of lenalidomide.

For male patients taking lenalidomide, pharmacokinetic data has demonstrated that lenalidomide is present in human semen at extremely low levels during treatment and is undetectable in human semen 3 days after stopping the substance in the healthy subject (see section 5.2). As a precaution and taking into account special populations with prolonged elimination time such as renal impairment, all male patients taking lenalidomide must meet the following conditions:
- Understand the expected teratogenic risk if engaged in sexual activity with a pregnant woman or a woman of childbearing potential
- Understand the need for the use of a condom if engaged in sexual activity with a pregnant woman or a woman of childbearing potential not using effective contraception (even if the man has had a vasectomy), during treatment and for at least 7 days after dose interruptions and/or cessation of treatment.
- Understand that if his female partner becomes pregnant whilst he is taking lenalidomide or shortly after he has stopped taking lenalidomide, he should inform his treating physician immediately and that it is recommended to refer the female partner to a physician specialised or experienced in teratology for evaluation and advice.

The prescriber must ensure that for women of childbearing potential:
- The patient complies with the conditions of the Pregnancy Prevention Programme, including confirmation that she has an adequate level of understanding
- The patient has acknowledged the aforementioned conditions.

Contraception
Women of childbearing potential must use at least one effective method of contraception for at least 4 weeks before therapy, during therapy, and until at least 4 weeks after lenalidomide therapy and even in case of dose interruption unless the patient commits to absolute and continuous abstinence confirmed on a monthly basis. If not established on effective contraception, the patient must be referred to an appropriately trained health care professional for contraceptive advice in order that contraception can be initiated.

The following can be considered to be examples of suitable methods of contraception:
- Implant
- Levonorgestrel-releasing intrauterine system (IUS)
- Medroxyprogesterone acetate depot
- Tubal sterilisation
- Sexual intercourse with a vasectomised male partner only; vasectomy must be confirmed by two negative semen analyses
- Ovulation inhibitory progesterone-only pills (i.e. desogestrel)
Because of the increased risk of venous thromboembolism in patients with multiple myeloma taking lenalidomide in combination therapy, and to a lesser extent in patients with multiple myeloma, myelodysplastic syndromes and mantle cell lymphoma taking lenalidomide monotherapy, combined oral contraceptive pills are not recommended (see also section 4.5).

If a patient is currently using combined oral contraception the patient should switch to one of the effective methods listed above. The risk of venous thromboembolism continues for 4–6 weeks after discontinuing combined oral contraception. The efficacy of contraceptive steroids may be reduced during co-treatment with dexamethasone (see section 4.5).

Implants and levonorgestrel-releasing intrauterine systems are associated with an increased risk of infection at the time of insertion and irregular vaginal bleeding. Prophylactic antibiotics should be considered particularly in patients with neutropenia.

Copper-releasing intrauterine devices are generally not recommended due to the potential risks of infection at the time of insertion and menstrual blood loss which may compromise patients with neutropenia or thrombocytopenia.

**Pregnancy testing**

According to local practice, medically supervised pregnancy tests with a minimum sensitivity of 25 mIU/mL must be performed for women of childbearing potential as outlined below. This requirement includes women of childbearing potential who practice absolute and continuous abstinence. Ideally, pregnancy testing, issuing a prescription and dispensing should occur on the same day. Dispensing of lenalidomide to women of childbearing potential should occur within 7 days of the prescription.

**Prior to starting treatment**

A medically supervised pregnancy test should be performed during the consultation, when lenalidomide is prescribed, or in the 3 days prior to the visit to the prescriber once the patient had been using effective contraception for at least 4 weeks. The test should ensure the patient is not pregnant when she starts treatment with lenalidomide.

**Follow-up and end of treatment**

A medically supervised pregnancy test should be repeated at least every 4 weeks, including at least 4 weeks after the end of treatment, except in the case of confirmed tubal sterilisation. These pregnancy tests should be performed on the day of the prescribing visit or in the 3 days prior to the visit to the prescriber.

**Additional precautions**

Patients should be instructed never to give this medicinal product to another person and to return any unused capsules to their pharmacist at the end of treatment for safe disposal.

Patients should not donate blood, semen or sperm during treatment (including during dose interruptions) and for at least 7 days following discontinuation of lenalidomide.

Healthcare professionals and caregivers should wear disposable gloves when handling the blister or capsule. Women who are pregnant or suspect they may be pregnant should not handle the blister or capsule (see section 6.6).

**Educational materials, prescribing and dispensing restrictions**

In order to assist patients in avoiding foetal exposure to lenalidomide, the marketing authorisation holder will provide educational material to health care professionals to reinforce the warnings about the expected teratogenicity of lenalidomide, to provide advice on contraception before therapy is started, and to provide guidance on the need for pregnancy testing. The prescriber must inform male and female patients about the expected teratogenic risk and the strict pregnancy prevention measures as specified in the Pregnancy Prevention Programme and provide patients with appropriate patient educational brochure, patient card and/or equivalent tool in accordance to the national implemented patient card system. A national controlled distribution system has been implemented in collaboration with each National Competent Authority. The controlled distribution system includes the use of a patient card and/or equivalent tool for prescribing and/or dispensing controls, and the collecting of detailed data relating to the indication in order to monitor closely the off-label use within the national territory. Ideally, pregnancy testing, issuing a prescription and dispensing should occur on the same day. Dispensing of lenalidomide to women of childbearing potential should occur within 7 days of the prescription and
following a medically supervised negative pregnancy test result. Prescriptions for women of childbearing potential can be for a maximum duration of treatment of 4 weeks according to the approved indications dosing regimens (see section 4.2), and prescriptions for all other patients can be for a maximum duration of treatment of 12 weeks.

Other special warnings and precautions for use

**Myocardial infarction**
Myocardial infarction has been reported in patients receiving lenalidomide, particularly in those with known risk factors and within the first 12 months when used in combination with dexamethasone. Patients with known risk factors – including prior thrombosis – should be closely monitored, and action should be taken to try to minimize all modifiable risk factors (eg. smoking, hypertension, and hyperlipidaemia).

**Venous and arterial thromboembolic events**
In patients with multiple myeloma, the combination of lenalidomide with dexamethasone is associated with an increased risk of venous thromboembolism (predominantly deep vein thrombosis and pulmonary embolism). The risk of venous thromboembolism was seen to a lesser extent with lenalidomide in combination with melphalan and prednisone.

In patients with multiple myeloma, myelodysplastic syndromes and mantle cell lymphoma, treatment with lenalidomide monotherapy was associated with a lower risk of venous thromboembolism (predominantly deep vein thrombosis and pulmonary embolism) than in patients with multiple myeloma treated with lenalidomide in combination therapy (see sections 4.5 and 4.8).

In patients with multiple myeloma, the combination of lenalidomide with dexamethasone is associated with an increased risk of arterial thromboembolism (predominantly myocardial infarction and cerebrovascular event) and was seen to a lesser extent with lenalidomide in combination with melphalan and prednison. The risk of arterial thromboembolism is lower in patients with multiple myeloma treated with lenalidomide monotherapy than in patients with multiple myeloma treated with lenalidomide in combination therapy.

Consequently, patients with known risk factors for thromboembolism – including prior thrombosis – should be closely monitored. Action should be taken to try to minimize all modifiable risk factors (e.g. smoking, hypertension, and hyperlipidaemia). Concomitant administration of erythropoietic agents or previous history of thromboembolic events may also increase thrombotic risk in these patients. Therefore, erythropoietic agents, or other agents that may increase the risk of thrombosis, such as hormone replacement therapy, should be used with caution in multiple myeloma patients receiving lenalidomide with dexamethasone. A haemoglobin concentration above 12 g/dl should lead to discontinuation of erythropoietic agents.

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, arm or leg swelling. Prophylactic antithrombotic medicines should be recommended, especially in patients with additional thrombotic risk factors. The decision to take antithrombotic prophylactic measures should be made after careful assessment of an individual patient’s underlying risk factors.

If the patient experiences any thromboembolic events, treatment must be discontinued and standard anticoagulation therapy started. Once the patient has been stabilised on the anticoagulation treatment and any complications of the thromboembolic event have been managed, the lenalidomide treatment may be restarted at the original dose dependent upon a benefit risk assessment. The patient should continue anticoagulation therapy during the course of lenalidomide treatment.

**Pulmonary hypertension**
Cases of pulmonary hypertension, some fatal, have been reported in patients treated with lenalidomide. Patients should be evaluated for signs and symptoms of underlying cardiopulmonary disease prior to initiating and during lenalidomide therapy.

**Neutropenia and thrombocytopenia**
The major dose limiting toxicities of lenalidomide include neutropenia and thrombocytopenia. A complete blood cell count, including white blood cell count with differential count, platelet count, haemoglobin, and haematocrit should be performed at baseline, every week for the first 8 weeks of lenalidomide treatment and monthly.
thereafter to monitor for cytopenias. In mantle cell lymphoma patients, the monitoring scheme should be every 2 weeks in cycles 3 and 4, and then at the start of each cycle.

In follicular lymphoma, the monitoring scheme should be weekly for the first 3 weeks of cycle 1 (28 days), every 2 weeks during cycles 2 through 4, and then at the start of each cycle thereafter. A dose interruption and/or a dose reduction may be required (see section 4.2).

In case of neutropenia, the physician should consider the use of growth factors in patient management. Patients should be advised to promptly report febrile episodes.

Patients and physicians are advised to be observant for signs and symptoms of bleeding, including petechiae and epistaxis, especially in patients receiving concomitant medicinal products susceptible to induce bleeding (see section 4.8, Haemorrhagic disorders).

Co-administration of lenalidomide with other myelosuppressive agents should be undertaken with caution.

- Newly diagnosed multiple myeloma: patients who have undergone ASCT treated with lenalidomide maintenance

The adverse reactions from CALGB 100104 included events reported post-high dose melphalan and ASCT (HDM/ASCT) as well as events from the maintenance treatment period. A second analysis identified events that occurred after the start of maintenance treatment. In IFM 2005-02, the adverse reactions were from the maintenance treatment period only.

Overall, Grade 4 neutropenia was observed at a higher frequency in the lenalidomide maintenance arms compared to the placebo maintenance arms in the 2 studies evaluating lenalidomide maintenance in NDMM patients who have undergone ASCT (32.1% vs 26.7% [16.1% vs 1.8% after the start of maintenance treatment] in CALGB 100104 and 16.4% vs 0.7% in IFM 2005-02, respectively). Treatment-emergent AEs of neutropenia leading to lenalidomide discontinuation were reported in 2.2% of patients in CALGB 100104 and 2.4% of patients in IFM 2005-02, respectively. Grade 4 febrile neutropenia was reported at similar frequencies in the lenalidomide maintenance arms compared to placebo maintenance arms in both studies (0.4% vs 0.5% [0.4% vs 0.5% after the start of maintenance treatment] in CALGB 100104 and 0.3% vs 0% in IFM 2005-02, respectively). Patients should be advised to promptly report febrile episodes, a treatment interruption and/or dose reductions may be required (see section 4.2).

Grade 3 or 4 thrombocytopenia was observed at a higher frequency in the lenalidomide maintenance arms compared to the placebo maintenance arms in studies evaluating lenalidomide maintenance in NDMM patients who have undergone ASCT (37.5% vs 30.3% [17.9% vs 4.1% after the start of maintenance treatment] in CALGB 100104 and 13.0% vs 2.9% in IFM 2005-02, respectively). Patients and physicians are advised to be observant for signs and symptoms of bleeding, including petechiae and epistaxes, especially in patients receiving concomitant medicinal products susceptible to induce bleeding (see section 4.8, Haemorrhagic disorders).

- Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with bortezomib and dexamethasone

Grade 4 neutropenia was observed at a lower frequency in the lenalidomide in combination with bortezomib and dexamethasone (RVd) arm compared to the Rd comparator arm (2.7% vs 5.9%) in the SWOG S0777 study.

Grade 4 febrile neutropenia was reported at similar frequencies in the RVd arm and Rd arm (0.0% vs 0.4%). Patients should be advised to promptly report febrile episodes; a treatment interruption and/or dose reduction may be required (see section 4.2).

Grade 3 or 4 thrombocytopenia was observed at a higher frequency in the RVd arm compared to the Rd comparator arm (17.2 % vs 9.4%).

- Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with low dose dexamethasone

Grade 4 neutropenia was observed in the lenalidomide arms in combination with dexamethasone to a lesser extent than in the comparator arm (8.5% in the Rd [continuous treatment] and Rd18 [treatment for 18 four-week cycles] compared with 15% in the melphalan/prednisone/thalidomide arm, see section 4.8). Grade 4 febrile neutropenia episodes were consistent with the comparator arm (0.6 % in the Rd and Rd18
lenalidomide/dexamethasone-treated patients compared with 0.7% in the melphalan/prednisone/thalidomide arm, see section 4.8).

Grade 3 or 4 thrombocytopenia was observed to a lesser extent in the Rd and Rd18 arms than in the comparator arm (8.1% vs 11.1%, respectively).

- **Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with melphalan and prednisone**
  The combination of lenalidomide with melphalan and prednisone in clinical trials of newly diagnosed multiple myeloma patients is associated with a higher incidence of Grade 4 neutropenia (34.1% in melphalan, prednisone and lenalidomide arm followed by lenalidomide [MPR+R] and melphalan, prednisone and lenalidomide followed by placebo [MPR+p] treated patients compared with 7.8% in MPP+p-treated patients; see section 4.8). Grade 4 febrile neutropenia episodes were observed infrequently (1.7% in MPR+R/MPR+p treated patients compared to 0.0% in MPP+p treated patients; see section 4.8).

The combination of lenalidomide with melphalan and prednisone in multiple myeloma patients is associated with a higher incidence of Grade 3 and Grade 4 thrombocytopenia (40.4% in MPR+R/MPR+p treated patients, compared with 13.7% in MPP+p-treated patients; see section 4.8).

- **Multiple myeloma: patients with at least one prior therapy**
  The combination of lenalidomide with dexamethasone in multiple myeloma patients with at least one prior therapy is associated with a higher incidence of Grade 4 neutropenia (5.1% in lenalidomide/dexamethasone-treated patients compared with 0.6% in placebo/dexamethasone-treated patients; see section 4.8). Grade 4 febrile neutropenia episodes were observed infrequently (0.6% in lenalidomide/dexamethasone-treated patients compared to 0.0% in placebo/dexamethasone treated patients; see section 4.8).

The combination of lenalidomide with dexamethasone in multiple myeloma patients is associated with a higher incidence of Grade 3 and 4 thrombocytopenia (9.9% and 1.4%, respectively, in lenalidomide/dexamethasone-treated patients compared to 2.3% and 0.0% in placebo/dexamethasone-treated patients; see section 4.8).

  - **Myelodysplastic syndromes**
    Lenalidomide treatment in myelodysplastic syndromes patients is associated with a higher incidence of Grade 3 and 4 neutropenia and thrombocytopenia compared to patients on placebo (see section 4.8).

  - **Mantle cell lymphoma**
    Lenalidomide treatment in mantle cell lymphoma patients is associated with a higher incidence of Grade 3 and 4 neutropenia compared with patients on the control arm (see section 4.8).

  - **Follicular lymphoma**
    The combination of lenalidomide with rituximab in follicular lymphoma patients is associated with a higher incidence of Grade 3 or 4 neutropenia compared with patients on the placebo/rituximab arm. Febrile neutropenia and Grade 3 or 4 thrombocytopenia were more commonly observed in the lenalidomide/ rituximab arm (see section 4.8).

**Thyroid disorders**
Cases of hypothyroidism and cases of hyperthyroidism have been reported. Optimal control of co-morbid conditions influencing thyroid function is recommended before start of treatment. Baseline and ongoing monitoring of thyroid function is recommended.

**Peripheral neuropathy**
Lenalidomide is structurally related to thalidomide, which is known to induce severe peripheral neuropathy. There was no increase in peripheral neuropathy observed with lenalidomide in combination with dexamethasone or melphalan and prednisone or lenalidomide monotherapy or with long term use of lenalidomide for the treatment of newly diagnosed multiple myeloma.
The combination of lenalidomide with intravenous bortezomib and dexamethasone in multiple myeloma patients is associated with a higher frequency of peripheral neuropathy. The frequency was lower when bortezomib was administered subcutaneously. For additional information, see Section 4.8 and the SmPC for bortezomib.

**Tumour flare reaction and tumour lysis syndrome**
Because lenalidomide has anti-neoplastic activity, the complications of tumour lysis syndrome (TLS) may occur. Cases of TLS and tumour flare reaction (TFR), including fatal cases, have been reported (see section 4.8). The patients at risk of TLS and TFR are those with high tumour burden prior to treatment. Caution should be practiced when introducing these patients to lenalidomide. These patients should be monitored closely, especially during the first cycle or dose-escalation, and appropriate precautions taken.

- **Mantle cell lymphoma**
  Careful monitoring and evaluation for TFR is recommended. Patients with high mantle cell lymphoma International Prognostic Index (MIPI) at diagnosis or bulky disease (at least one lesion that is ≥ 7 cm in the longest diameter) at baseline may be at risk of TFR. Tumour flare reaction may mimic progression of disease (PD). Patients in studies MCL-002 and MCL-001 that experienced Grade 1 and 2 TFR were treated with corticosteroids, NSAIDs and/or narcotic analgesics for management of TFR symptoms. The decision to take therapeutic measures for TFR should be made after careful clinical assessment of the individual patient (see sections 4.2 and 4.8).

- **Follicular lymphoma**
  Careful monitoring and evaluation for TFR is recommended. Tumour flare may mimic PD. Patients who experienced Grade 1 and 2 TFR were treated with corticosteroids, NSAIDs and/or narcotic analgesics for management of TFR symptoms. The decision to take therapeutic measures for TFR should be made after careful clinical assessment of the individual patient (see sections 4.2 and 4.8).

Careful monitoring and evaluation for TLS is recommended. Patients should be well hydrated and receive TLS prophylaxis, in addition to weekly chemistry panels during the first cycle or longer, as clinically indicated (see sections 4.2 and 4.8).

**Tumour burden**
- **Mantle cell lymphoma**
  Lenalidomide is not recommended for the treatment of patients with high tumour burden if alternative treatment options are available.

**Early death**
In study MCL-002 there was overall an apparent increase in early (within 20 weeks) deaths. Patients with high tumour burden at baseline are at increased risk of early death. There were 16/81 (20%) early deaths in the lenalidomide arm and 2/28 (7%) early deaths in the control arm. Within 52 weeks corresponding figures were 32/81 (40%) and 6/28 (21%) (See section 5.1).

**Adverse events**
In study MCL-002, during treatment cycle 1, 11/81 (14%) patients with high tumour burden were withdrawn from therapy in the lenalidomide arm vs. 1/28 (4%) in the control group. The main reason for treatment withdrawal for patients with high tumour burden during treatment cycle 1 in the lenalidomide arm was adverse events, 7/11 (64%).

Patients with high tumour burden should therefore be closely monitored for adverse reactions (see Section 4.8) including signs of tumour flare reaction (TFR). Please refer to section 4.2 for dose adjustments for TFR. High tumour burden was defined as at least one lesion ≥5 cm in diameter or 3 lesions ≥3 cm.

**Allergic reactions and severe skin reactions**
Cases of allergic reactions including angioedema, anaphylactic reaction and severe cutaneous reactions including SJS, TEN and DRESS have been reported in patients treated with lenalidomide (see section 4.8). Patients should be advised of the signs and symptoms of these reactions by their prescribers and should be told to seek medical attention immediately if they develop these symptoms. Lenalidomide must be discontinued for angioedema, anaphylactic reaction, exfoliative or bullous rash, or if SJS, TEN or DRESS is suspected, and should not be resumed following discontinuation for these reactions. Interruption or discontinuation of lenalidomide should be considered for other forms of skin reaction depending on severity. Patients who had previous allergic reactions
while treated with thalidomide should be monitored closely, as a possible cross-reaction between lenalidomide and thalidomide has been reported in the literature. Patients with a history of severe rash associated with thalidomide treatment should not receive lenalidomide.

Second primary malignancies
An increase of second primary malignancies (SPM) has been observed in clinical trials in previously treated myeloma patients receiving lenalidomide/dexamethasone (3.98 per 100 person-years) compared to controls (1.38 per 100 person-years). Non-invasive SPM comprise basal cell or squamous cell skin cancers. Most of the invasive SPMs were solid tumour malignancies.

In clinical trials of newly diagnosed multiple myeloma patients not eligible for transplant, a 4.9-fold increase in incidence rate of hematologic SPM (cases of AML, MDS) has been observed in patients receiving lenalidomide in combination with melphalan and prednisone until progression (1.75 per 100 person-years) compared with melphalan in combination with prednisone (0.36 per 100 person-years).

A 2.12-fold increase in incidence rate of solid tumour SPM has been observed in patients receiving lenalidomide (9 cycles) in combination with melphalan and prednisone (1.57 per 100 person-years) compared with melphalan in combination with prednisone (0.74 per 100 person-years).

In patients receiving lenalidomide in combination with dexamethasone until progression or for 18 months, the hematologic SPM incidence rate (0.16 per 100 person-years) was not increased as compared to thalidomide in combination with melphalan and prednisone (0.79 per 100 person-years).

A 1.3-fold increase in incidence rate of solid tumour SPM has been observed in patients receiving lenalidomide in combination with dexamethasone until progression or for 18 months (1.58 per 100 person-years) compared to thalidomide in combination with melphalan and prednisone (1.19 per 100 person-years).

In newly diagnosed multiple myeloma patients receiving lenalidomide in combination with bortezomib and dexamethasone, the hematologic SPM incidence rate was 0.00 – 0.16 per 100 person-years and the incidence rate of solid tumour SPM was 0.21 – 1.04 per 100 person-years.

The increased risk of secondary primary malignancies associated with lenalidomide is relevant also in the context of NDMM after stem cell transplantation. Though this risk is not yet fully characterized, it should be kept in mind when considering and using lenalidomide in this setting.

The incidence rate of hematologic malignancies, most notably AML, MDS and B-cell malignancies (including Hodgkin’s lymphoma), was 1.31 per 100 person-years for the lenalidomide arms and 0.58 per 100 person-years for the placebo arms (1.02 per 100 person-years for patients exposed to lenalidomide after ASCT and 0.60 per 100 person-years for patients not-exposed to lenalidomide after ASCT). The incidence rate of solid tumour SPMs was 1.36 per 100 person-years for the lenalidomide arms and 1.05 per 100 person-years for the placebo arms (1.26 per 100 person-years for patients exposed to lenalidomide after ASCT and 0.60 per 100 person-years for patients not-exposed to lenalidomide after ASCT).

The risk of occurrence of hematologic SPM must be taken into account before initiating treatment with lenalidomide either in combination with melphalan or immediately following high-dose melphalan and ASCT. Physicians should carefully evaluate patients before and during treatment using standard cancer screening for occurrence of SPM and institute treatment as indicated.

Progression to acute myeloid leukaemia in low- and intermediate-1-risk MDS
- Karyotype

Baseline variables including complex cytogenetics are associated with progression to AML in subjects who are transfusion dependent and have a Del (5q) abnormality. In a combined analysis of two clinical trials of lenalidomide in low- or intermediate-1-risk myelodysplastic syndromes, subjects who had a complex cytogenetics had the highest estimated 2-year cumulative risk of progression to AML (38.6%). The estimated 2-year rate of progression to AML in patients with an isolated Del (5q) abnormality was 13.8%, compared to 17.3% for patients with Del (5q) and one additional cytogenetic abnormality.
As a consequence, the benefit/risk ratio of lenalidomide when MDS is associated with Del (5q) and complex cytogenetics is unknown.

- **TP53 status**
  A TP53 mutation is present in 20 to 25% of lower-risk MDS Del 5q patients and is associated with a higher risk of progression to acute myeloid leukaemia (AML). In a post-hoc analysis of a clinical trial of lenalidomide in low- or intermediate-1-risk myelodysplastic syndromes (MDS-004), the estimated 2-year rate of progression to AML was 27.5% in patients with IHC-p53 positivity (1% cut-off level of strong nuclear staining, using immunohistochemical assessment of p53 protein as a surrogate for TP53 mutation status) and 3.6% in patients with IHC-p53 negativity (p=0.0038) (see section 4.8)

**Progression to other malignancies in mantle cell lymphoma**
In mantle cell lymphoma, AML, B-cell malignancies and non-melanoma skin cancer (NMSC) are identified risks.

**Second primary malignancies in follicular lymphoma**
In a relapsed/refractory iNHL study which included follicular lymphoma patients, no increased risk of SPMs in the lenalidomide/rituximab arm, compared to the placebo/rituximab arm, was observed. Hematologic SPM of AML occurred in 0.29 per 100 person-years in the lenalidomide/rituximab arm compared with 0.29 per 100 person-years in patients receiving placebo/rituximab. The incidence rate of hematologic plus solid tumour SPMs (excluding non-melanoma skin cancers) was 0.87 per 100 person-years in the lenalidomide/rituximab arm, compared to 1.17 per 100 person-years in patients receiving placebo/rituximab with a median follow-up of 30.59 months (range 0.6 to 50.9 months).

Non-melanoma skin cancers are identified risks and comprise squamous cell carcinomas of skin or basal cell carcinomas.

Physicians should monitor patients for the development of SPMs. Both the potential benefit of lenalidomide and the risk of SPMs should be considered when considering treatment with lenalidomide.

**Hepatic disorders**
Hepatic failure, including fatal cases, has been reported in patients treated with lenalidomide in combination therapy: acute hepatic failure, toxic hepatitis, cytolytic hepatitis, cholestatic hepatitis, and mixed cytolytic/cholestatic hepatitis have been reported. The mechanisms of severe drug-induced hepatotoxicity remain unknown although, in some cases, pre-existing viral liver disease, elevated baseline liver enzymes, and possibly treatment with antibiotics might be risk factors.

Abnormal liver function tests were commonly reported and were generally asymptomatic and reversible upon dosing interruption. Once parameters have returned to baseline, treatment at a lower dose may be considered.

Lenalidomide is excreted by the kidneys. It is important to dose adjust patients with renal impairment in order to avoid plasma levels which may increase the risk for higher haematological adverse reactions or hepatotoxicity. Monitoring of liver function is recommended, particularly when there is a history of or concurrent viral liver infection or when lenalidomide is combined with medicinal products known to be associated with liver dysfunction.

**Infection with or without neutropenia**
Patients with multiple myeloma are prone to develop infections including pneumonia. A higher rate of infections was observed with lenalidomide in combination with dexamethasone than with MPT in patients with NDMM who are not eligible for transplant, and with lenalidomide maintenance compared to placebo in patients with NDMM who had undergone ASCT. Grade ≥ 3 infections occurred within the context of neutropenia in less than one-third of the patients. Patients with known risk factors for infections should be closely monitored. All patients should be advised to seek medical attention promptly at the first sign of infection (eg, cough, fever, etc) thereby allowing for early management to reduce severity.

**Viral reactivation**
Cases of viral reactivation have been reported in patients receiving lenalidomide, including serious cases of herpes zoster or hepatitis B virus (HBV) reactivation.
Some of the cases of viral reactivation had a fatal outcome.

Some of the cases of herpes zoster reactivation resulted in disseminated herpes zoster, meningitis herpes zoster or ophthalmic herpes zoster requiring a temporary hold or permanent discontinuation of the treatment with lenalidomide and adequate antiviral treatment.

Reactivation of hepatitis B has been reported rarely in patients receiving lenalidomide who have previously been infected with the hepatitis B virus. Some of these cases have progressed to acute hepatic failure resulting in discontinuation of lenalidomide and adequate antiviral treatment. Hepatitis B virus status should be established before initiating treatment with lenalidomide. For patients who test positive for HBV infection, consultation with a physician with expertise in the treatment of hepatitis B is recommended. Caution should be exercised when lenalidomide is used in patients previously infected with HBV, including patients who are anti-HBc positive but HBsAg negative. These patients should be closely monitored for signs and symptoms of active HBV infection throughout therapy.

Reactivation of hepatitis B has been reported rarely in patients receiving lenalidomide who have previously been infected with the hepatitis B virus. Some of these cases have progressed to acute hepatic failure resulting in discontinuation of lenalidomide and adequate antiviral treatment. Hepatitis B virus status should be established before initiating treatment with lenalidomide. For patients who test positive for HBV infection, consultation with a physician with expertise in the treatment of hepatitis B is recommended. Caution should be exercised when lenalidomide is used in patients previously infected with HBV, including patients who are anti-HBc positive but HBsAg negative. These patients should be closely monitored for signs and symptoms of active HBV infection throughout therapy.

Newly diagnosed multiple myeloma patients

There was a higher rate of intolerance (Grade 3 or 4 adverse events, serious adverse events, discontinuation) in patients with age > 75 years, ISS stage III, ECOG PS≤2 or CLcr<60 mL/min when lenalidomide is given in combination. Patients should be carefully assessed for their ability to tolerate lenalidomide in combination, with consideration to age, ISS stage III, ECOG PS≤2 or CLcr<60 mL/min (see sections 4.2 and 4.8).

Cataract

Cataract has been reported with a higher frequency in patients receiving lenalidomide in combination with dexamethasone particularly when used for a prolonged time. Regular monitoring of visual ability is recommended.

Progressive multifocal leukoencephalopathy (PML)

Cases of progressive multifocal leukoencephalopathy (PML), including fatal cases, have been reported with lenalidomide. PML was reported several months to several years after starting the treatment with lenalidomide. Cases have generally been reported in patients taking concomitant dexamethasone or prior treatment with other immunosuppressive chemotherapy. Physicians should monitor patients at regular intervals and should consider PML in the differential diagnosis in patients with new or worsening neurological symptoms, cognitive or behavioural signs or symptoms. Patients should also be advised to inform their partner or caregivers about their treatment, since they may notice symptoms that the patient is not aware of.

The evaluation for PML should be based on neurological examination, magnetic resonance imaging of the brain, and cerebrospinal fluid analysis for JC virus (JCV) DNA by polymerase chain reaction (PCR) or a brain biopsy with testing for JCV. A negative JCV PCR does not exclude PML. Additional follow-up and evaluation may be warranted if no alternative diagnosis can be established.

If PML is suspected, further dosing must be suspended until PML has been excluded. If PML is confirmed, lenalidomide must be permanently discontinued.

Lactose intolerance

Lenalidomide Accord hard capsules contain lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

4.5 Interaction with other medicinal products and other forms of interaction

Erythropoietic agents, or other agents that may increase the risk of thrombosis, such as hormone replacement therapy, should be used with caution in multiple myeloma patients receiving lenalidomide with dexamethasone (see sections 4.4 and 4.8).

Oral contraceptives

No interaction study has been performed with oral contraceptives. Lenalidomide is not an enzyme inducer. In an *in vitro* study with human hepatocytes, lenalidomide, at various concentrations tested did not induce CYP1A2, CYP2B6, CYP2C9, CYP2C19 and CYP3A4/5. Therefore, induction leading to reduced efficacy of medicinal products, including hormonal contraceptives, is not expected if lenalidomide is administered alone. However,
dexamethasone is known to be a weak to moderate inducer of CYP3A4 and is likely to also affect other enzymes as well as transporters. It may not be excluded that the efficacy of oral contraceptives may be reduced during treatment. Effective measures to avoid pregnancy must be taken (see sections 4.4 and 4.6).

**Warfarin**
Co-administration of multiple 10 mg doses of lenalidomide had no effect on the single dose pharmacokinetics of R- and S-warfarin. Co-administration of a single 25 mg dose of warfarin had no effect on the pharmacokinetics of lenalidomide. However, it is not known whether there is an interaction during clinical use (concomitant treatment with dexamethasone). Dexamethasone is a weak to moderate enzyme inducer and its effect on warfarin is unknown. Close monitoring of warfarin concentration is advised during the treatment.

**Digoxin**
Concomitant administration with lenalidomide 10 mg once daily increased the plasma exposure of digoxin (0.5 mg, single dose) by 14% with a 90% CI (confidence interval) [0.52%-28.2%]. It is not known whether the effect will be different in the clinical use (higher lenalidomide doses and concomitant treatment with dexamethasone). Therefore, monitoring of the digoxin concentration is advised during lenalidomide treatment.

**Statins**
There is an increased risk of rhabdomyolysis when statins are administered with lenalidomide, which may be simply additive. Enhanced clinical and laboratory monitoring is warranted notably during the first weeks of treatment.

**Dexamethasone**
Co-administration of single or multiple doses of dexamethasone (40 mg once daily) has no clinically relevant effect on the multiple dose pharmacokinetics of lenalidomide (25 mg once daily).

**Interactions with P-glycoprotein (P-gp) inhibitors**
*In vitro*, lenalidomide is a substrate of P-gp, but is not a P-gp inhibitor. Co-administration of multiple doses of the strong P-gp inhibitor quinidine (600 mg, twice daily) or the moderate P-gp inhibitor/substrate temsirolimus (25 mg) has no clinically relevant effect on the pharmacokinetics of lenalidomide (25 mg). Co-administration of lenalidomide does not alter the pharmacokinetics of temsirolimus.

### 4.6 Fertility, pregnancy and lactation

Due to the teratogenic potential, lenalidomide must be prescribed under a Pregnancy Prevention Programme (see section 4.4) unless there is reliable evidence that the patient does not have childbearing potential.

**Women of childbearing potential / Contraception in males and females**
Women of childbearing potential should use effective method of contraception. If pregnancy occurs in a woman treated with lenalidomide, treatment must be stopped and the patient should be referred to a physician specialised or experienced in teratology for evaluation and advice. If pregnancy occurs in a partner of a male patient taking lenalidomide, it is recommended to refer the female partner to a physician specialised or experienced in teratology for evaluation and advice.

Lenalidomide is present in human semen at extremely low levels during treatment and is undetectable in human semen 3 days after stopping the substance in the healthy subject (see section 5.2). As a precaution and taking into account special populations with prolonged elimination time such as renal impairment, all male patients taking lenalidomide should use condoms throughout treatment duration, during dose interruption and for 1 week after cessation of treatment if their partner is pregnant or of childbearing potential and has no contraception.

**Pregnancy**
Lenalidomide is structurally related to thalidomide. Thalidomide is a known human teratogenic active substance that causes severe life-threatening birth defects.

Lenalidomide induced malformation in monkeys similar to those described with thalidomide (see section 5.3). Therefore, a teratogenic effect of lenalidomide is expected and lenalidomide is contraindicated during pregnancy (see section 4.3).

**Breast-feeding**
It is not known whether lenalidomide is excreted in breast milk. Therefore breast-feeding should be discontinued during therapy with lenalidomide.

Fertility
A fertility study in rats with lenalidomide doses up to 500 mg/kg (approximately 200 to 500 times the human doses of 25 mg and 10 mg, respectively, based on body surface area) produced no adverse effects on fertility and no parental toxicity.

4.7 Effects on ability to drive and use machines

Lenalidomide has minor or moderate influence on the ability to drive and use machines. Fatigue, dizziness, somnolence, vertigo and blurred vision have been reported with the use of lenalidomide. Therefore, caution is recommended when driving or operating machines.

4.8 Undesirable effects

Summary of the safety profile

Newly diagnosed multiple myeloma: patients who have undergone ASCT treated with lenalidomide maintenance
A conservative approach was applied to determine the adverse reactions from CALGB 100104. The adverse reactions described in Table 1 included events reported post-HDM/ASCT as well as events from the maintenance treatment period. A second analysis that identified events that occurred after the start of maintenance treatment suggests that the frequencies described in Table 1 may be higher than actually observed during the maintenance treatment period. In IFM 2005-02, the adverse reactions were from the maintenance treatment period only.

The serious adverse reactions observed more frequently (≥5%) with lenalidomide maintenance than placebo were:
- Pneumonia (10.6%; combined term) from IFM 2005-02
- Lung infection (9.4% [9.4% after the start of maintenance treatment]) from CALGB 100104

In the IFM 2005-02 study, the adverse reactions observed more frequently with lenalidomide maintenance than placebo were neutropenia (60.8%), bronchitis (47.4%), diarrhoea (38.9%), nasopharyngitis (34.8%), muscle spasms (33.4%), leucopenia (31.7%), asthenia (29.7%), cough (27.3%), thrombocytopenia (23.5%), gastroenteritis (22.5%) and pyrexia (20.5%).

In the CALGB 100104 study, the adverse reactions observed more frequently with lenalidomide maintenance than placebo were neutropenia (79.0% [71.9% after the start of maintenance treatment]), thrombocytopenia (72.3% [61.6%]), diarrhoea (54.5% [46.4%]), rash (31.7% [25.0%]), upper respiratory tract infection (26.8% [26.8%]), fatigue (22.8% [17.9%]), leucopenia (22.8% [18.8%]) and anaemia (21.0% [13.8%]).

Newly diagnosed multiple myeloma patients who are not eligible for transplant receiving lenalidomide in combination with bortezomib and dexamethasone
In the SWOG S0777 study, the serious adverse reactions observed more frequently (≥ 5%) with lenalidomide in combination with intravenous bortezomib and dexamethasone than with lenalidomide in combination with dexamethasone were:
- Hypotension (6.5%), lung infection (5.7%), dehydration (5.0%)

The adverse reactions observed more frequently with lenalidomide in combination with bortezomib and dexamethasone than with lenalidomide in combination with dexamethasone were: Fatigue (73.7%), peripheral neuropathy (71.8%), thrombocytopenia (57.6%), constipation (56.1%), hypocalcaemia (50.0%).

Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with low dose dexamethasone
The serious adverse reactions observed more frequently (≥5%) with lenalidomide in combination with low dose dexamethasone (Rd and Rd18) than with melphalan, prednisone and thalidomide (MPT) were:
- Pneumonia (9.8%)
- Renal failure (including acute) (6.3%)
The adverse reactions observed more frequently with Rd or Rd18 than MPT were: diarrhoea (45.5%), fatigue (32.8%), back pain (32.0%), asthenia (28.2%), insomnia (27.6%), rash (24.3%), decreased appetite (23.1%), cough (22.7%), pyrexia (21.4%), and muscle spasms (20.5%).

**Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with melphalan and prednisone**

The serious adverse reactions observed more frequently (≥5%) with melphalan, prednisone and lenalidomide followed by lenalidomide maintenance (MPR+R) or melphalan, prednisone and lenalidomide followed by placebo (MPR+p) than melphalan, prednisone and placebo followed by placebo (MPp+p) were:

- Febrile neutropenia (6.0%)
- Anaemia (5.3%)

The adverse reactions observed more frequently with MPR+R or MPR+p than MPp+p were: neutropenia (83.3%), anaemia (70.7%), thrombocytopenia (70.0%), leucopenia (38.8%), constipation (34.0%), diarrhoea (33.3%), rash (28.9%), pyrexia (27.0%), peripheral oedema (25.0%), cough (24.0%), decreased appetite (23.7%), and asthenia (22.0%).

**Multiple myeloma: patients with at least one prior therapy**

In two phase 3 placebo-controlled studies, 353 patients with multiple myeloma were exposed to the lenalidomide/dexamethasone combination and 351 to the placebo/dexamethasone combination.

The most serious adverse reactions observed more frequently in lenalidomide/dexamethasone than placebo/dexamethasone combination were:

- Venous thromboembolism (deep vein thrombosis, pulmonary embolism) (see section 4.4)
- Grade 4 neutropenia (see section 4.4).

The observed adverse reactions which occurred more frequently with lenalidomide and dexamethasone than placebo and dexamethasone in pooled multiple myeloma clinical trials (MM-009 and MM-010) were fatigue (43.9%), neutropenia (42.2%), constipation (40.5%), diarrhoea (38.5%), muscle cramp (33.4%), anaemia (31.4%), thrombocytopenia (21.5%), and rash (21.2%).

**Myelodysplastic syndromes**

The overall safety profile of lenalidomide in patients with myelodysplastic syndromes is based on data from a total of 286 patients from one phase 2 study and one phase 3 study (see section 5.1). In the phase 2, all 148 patients were on lenalidomide treatment. In the phase 3 study, 69 patients were on lenalidomide 5 mg, 69 patients on lenalidomide 10 mg and 67 patients were on placebo during the double-blind phase of the study.

Most adverse reactions tended to occur during the first 16 weeks of therapy with lenalidomide. Serious adverse reactions include:

- Venous thromboembolism (deep vein thrombosis, pulmonary embolism) (see section 4.4)
- Grade 3 or 4 neutropenia, febrile neutropenia and Grade 3 or 4 thrombocytopenia (see section 4.4).

The most commonly observed adverse reactions which occurred more frequently in the lenalidomide groups compared to the control arm in the phase 3 study were neutropenia (76.8%), thrombocytopenia (46.4%), diarrhoea (34.8%), constipation (19.6%), nausea (19.6%), pruritus (25.4%), rash (18.1%), fatigue (18.1%) and muscle spasms (16.7%).

**Mantle cell lymphoma**

The overall safety profile of lenalidomide in patients with mantle cell lymphoma is based on data from 254 patients from a phase 2 randomised, controlled study MCL-002 (see section 5.1). Additionally, adverse drug reactions from supportive study MCL-001 have been included in table 3.

The serious adverse reactions observed more frequently in study MCL-002 (with a difference of at least 2 percentage points) in the lenalidomide arm compared with the control arm were:

- Neutropenia (3.6%)
- Pulmonary embolism (3.6%)
• Diarrhoea (3.6%)

The most frequently observed adverse reactions which occurred more frequently in the lenalidomide arm compared with the control arm in study MCL-002 were neutropenia (50.9%), anaemia (28.7%), diarrhoea (22.8%), fatigue (21.0%), constipation (17.4%), pyrexia (16.8%), and rash (including dermatitis allergic) (16.2%).

In study MCL-002 there was overall an apparent increase in early (within 20 weeks) deaths. Patients with high tumour burden at baseline are at increased risk of early death, 16/81 (20%) early deaths in the lenalidomide arm and 2/28 (7%) early deaths in the control arm. Within 52 weeks corresponding figures were 32/81 (39.5%) and 6/28 (21%) (see section 5.1).

During treatment cycle 1, 11/81 (14%) patients with high tumour burden were withdrawn from therapy in the lenalidomide arm vs. 1/28 (4%) in the control group. The main reason for treatment withdrawal for patients with high tumour burden during treatment cycle 1 in the lenalidomide arm was adverse events, 7/11 (64%). High tumour burden was defined as at least one lesion ≥5 cm in diameter or 3 lesions ≥3 cm.

Follicular lymphoma
The overall safety profile of lenalidomide in combination with rituximab in patients with previously treated follicular lymphoma is based on data from 294 patients from a Phase 3 randomised, controlled study NHL-007. Additionally, adverse drug reactions from supportive study NHL-008 have been included in Table 5.

The serious adverse reactions observed most frequently (with a difference of at least 1 percentage point) in study NHL-007 in the lenalidomide/rituximab arm compared with the placebo/rituximab arm were:

- Febrile neutropenia (2.7%)
- Pulmonary embolism (2.7%)
- Pneumonia (2.7%)

In the NHL-007 study the adverse reactions observed more frequently in the lenalidomide/rituximab arm compared with the placebo/rituximab arm (with at least 2% higher frequency between arms) were neutropenia (58.2%), diarrhoea (30.8%), leucopenia (28.8%), constipation (21.9%), cough (21.9%) and fatigue (21.9%).

Tabulated list of adverse reactions
The adverse reactions observed in patients treated with lenalidomide are listed below by system organ class and frequency. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. Frequencies are defined as: very common (≥ 1/10); common (≥ 1/100 to < 1/10); uncommon (≥ 1/1,000 to < 1/100); rare (≥ 1/10,000 to < 1/1,000); very rare (< 1/10,000), not known (cannot be estimated from the available data).

Adverse reactions have been included under the appropriate category in the table below according to the highest frequency observed in any of the main clinical trials.

Tabulated summary for monotherapy in MM
The following table is derived from data gathered during NDMM studies in patients who have undergone ASCT treated with lenalidomide maintenance. The data were not adjusted according to the longer duration of treatment in the lenalidomide-containing arms continued until disease progression versus the placebo arms in the pivotal multiple myeloma studies (see section 5.1).
Table 1. ADRs reported in clinical trials in patients with multiple myeloma treated with lenalidomide maintenance therapy

<table>
<thead>
<tr>
<th>System Organ Class/Preferred Term</th>
<th>All ADRs/Frequency</th>
<th>Grade 3-4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td>Very Common</td>
<td>Very Common</td>
</tr>
<tr>
<td></td>
<td>Pneumonia[^a,b], Upper respiratory tract infection, Neutropenic infection, Bronchitis[^c], Influenza[^d], Gastroenteritis[^e], Nasopharyngitis, Rhinitis</td>
<td>Pneumonia[^a,b], Neutropenic infection</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Infection[^a], Urinary tract infection[^a], Lower respiratory tract infection, Lung infection[^b]</td>
<td>Sepsis[^c,b], Bacteraemia, Lung infection[^b], Lower respiratory tract infection bacterial, Bronchitis[^b], Influenza[^c], Gastroenteritis[^b], Herpes zoster[^b], Infection[^b]</td>
</tr>
<tr>
<td><strong>Neoplasms Benign, Malignant and Unspecified (incl cysts and polyps)</strong></td>
<td>Common</td>
<td>Very Common</td>
</tr>
<tr>
<td></td>
<td>Myelodysplastic syndrome[^c,d]</td>
<td>Pancytopenia[^c,d]</td>
</tr>
<tr>
<td><strong>Blood and Lymphatic System Disorders</strong></td>
<td>Very Common</td>
<td>Very Common</td>
</tr>
<tr>
<td></td>
<td>Neutropenia[^a,b], Febrile neutropenia[^a,b], Thrombocytopenia[^a,b], Anaemia, Leucopenia[^c], Lymphopenia</td>
<td>Neutropenia[^a,b], Febrile neutropenia[^a,b], Thrombocytopenia[^a,b], Anaemia, Leucopenia[^c], Lymphopenia</td>
</tr>
<tr>
<td><strong>Metabolism and Nutrition Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Hypokalaemia</td>
<td>Hypokalaemia, Dehydration</td>
</tr>
<tr>
<td><strong>Nervous System Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Paraesthesia</td>
<td>Headache</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Peripheral neuropathy[^c]</td>
<td></td>
</tr>
<tr>
<td><strong>Vascular Disorders</strong></td>
<td>Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Pulmonary embolism[^a,b]</td>
<td>Deep vein thrombosis[^a,b,c,d]</td>
</tr>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Cough</td>
<td>Dyspnoea[^c]</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dyspnoea[^c], Rhinorrhoea</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrointestinal Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Diarrhoea, Constipation, Abdominal pain, Nausea</td>
<td>Diarrhoea, Vomiting, Nausea</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vomiting, Abdominal pain upper</td>
<td></td>
</tr>
<tr>
<td><strong>Hepatobiliary Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Abnormal liver function tests</td>
<td>Abnormal liver function tests</td>
</tr>
<tr>
<td><strong>Skin and Subcutaneous Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Rash, Dry skin</td>
<td>Rash, Pruritus</td>
</tr>
<tr>
<td><strong>Musculoskeletal and Connective Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Muscle spasms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Myalgia, Musculoskeletal pain</td>
<td></td>
</tr>
<tr>
<td><strong>General Disorders and Administration Site Conditions</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Fatigue, Asthenia, Pyrexia</td>
<td>Fatigue, Asthenia</td>
</tr>
</tbody>
</table>

[^a]: Adverse reactions reported as serious in clinical trials in patients with NDMM who had undergone ASCT
Applies to serious adverse drug reactions only

See section 4.8 description of selected adverse reactions

“Pneumonia” combined AE term includes the following PTs: Bronchopneumonia, Lobar pneumonia, Pneumocystis jiroveci pneumonia, Pneumonia, Pneumonia klebsiella, Pneumonia legionella, Pneumonia mycoplasmal, Pneumonia pneumococcal, Pneumonia streptococcal, Pneumonia viral, Lung disorder, Pneumonitis

“Sepsis” combined AE term includes the following PTs: Bacterial sepsis, Pneumococcal sepsis, Septic shock, Staphylococcal sepsis

“Peripheral neuropathy” combined AE term includes the following preferred terms (PTs): Neuropathy peripheral, Peripheral sensory neuropathy, Polyneuropathy

“Deep vein thrombosis” combined AE term includes the following PTs: Deep vein thrombosis, Thrombosis, Venous thrombosis

Tabulated summary for combination therapy in MM
The following table is derived from data gathered during the multiple myeloma studies with combination therapy. The data were not adjusted according to the longer duration of treatment in the lenalidomide-containing arms continued until disease progression versus the comparator arms in the pivotal multiple myeloma studies (see section 5.1).

Table 2. ADRs reported in clinical studies in patients with multiple myeloma treated with lenalidomide in combination with bortezomib and dexamethasone, dexamethasone, or melphalan and prednisone

<table>
<thead>
<tr>
<th>System Organ Class / Preferred Term</th>
<th>All ADRs/Frequency</th>
<th>Grade 3–4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and Infestations</td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Pneumonia^,◊,◊◊, Upper respiratory tract infection◊, Bacterial, viral and fungal infections (including opportunistic infections)◊, Nasopharyngitis, Pharyngitis, Bronchitis◊, Rhinitis</td>
<td>Pneumonia^,◊,◊◊, Bacterial, viral and fungal infections (including opportunistic infections)◊, Cellulitis◊, Sepsis^,◊◊, Lung infection◊◊, Bronchitis◊, Respiratory tract infection◊◊, Urinary tract infection◊◊, Enterocolitis infectious</td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Neutropenia^,◊,◊◊, Thrombocytopenia^,◊,◊◊, Anaemia◊, Haemorrhagic disorder◊, Leucopenia, Lymphopenia</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Febrile neutropenia^,◊, Pancytopenia◊</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Haemolysis, Autoimmune haemolytic anaemia, Haemolytic anaemia</td>
<td></td>
</tr>
<tr>
<td>Neoplasms Benign, Malignant and Unspecified (including cysts and polyps)</td>
<td>Uncommon</td>
<td>Common</td>
</tr>
<tr>
<td>Basal cell carcinoma◊, Squamous skin cancer^,◊,◊</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Acute myeloid leukaemia◊, Myelodysplastic syndrome◊, Squamous cell carcinoma of skin^,◊,◊</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>T-cell type acute leukaemia◊, Basal cell carcinoma◊, Tumour lysis syndrome</td>
<td></td>
</tr>
<tr>
<td>Blood and Lymphatic System Disorders</td>
<td>Very Common</td>
<td>Very Common</td>
</tr>
<tr>
<td>Neutropenia^,◊,◊◊, Thrombocytopenia^,◊,◊◊, Anaemia◊, Haemorrhagic disorder◊, Leucopenia, Lymphopenia</td>
<td>Neutropenia^,◊,◊◊, Thrombocytopenia^,◊,◊◊, Anaemia◊, Leucopenia, Lymphopenia</td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Febrile neutropenia^,◊, Pancytopenia◊</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Haemolysis, Autoimmune haemolytic anaemia, Haemolytic anaemia</td>
<td></td>
</tr>
<tr>
<td>Immune System Disorders</td>
<td>Uncommon</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Hypersensitivity^</td>
<td>Hypercoagulation, Coagulopathy</td>
<td></td>
</tr>
<tr>
<td>Endocrine Disorders</td>
<td>Common</td>
<td>Hypothyroidism</td>
</tr>
<tr>
<td>System Organ Class / Preferred Term</td>
<td>All ADRs/Frequency</td>
<td>Grade 3–4 ADRs/Frequency</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><strong>Metabolism and Nutrition Disorders</strong></td>
<td>Very Common Hypokalaemia◊◊, Hyperglycaemia, Hypoglycaemia, Hypocalcaemia◊, Hyponatraemia◊, Dehydration◊◊, Decreased appetite◊◊, Weight decreased</td>
<td>Common Hypokalaemia◊◊, Hyperglycaemia, Hypocalcaemia◊, Diabetes mellitus◊, Hypophosphataemia, Hyponatraemia◊, Hyperuricaemia, Gout, Dehydration◊◊, Decreased appetite◊◊, Weight decreased</td>
</tr>
<tr>
<td><strong>Psychiatric Disorders</strong></td>
<td>Very Common Depression, Insomnia</td>
<td>Common Depression, Insomnia</td>
</tr>
<tr>
<td></td>
<td>Uncommon Loss of libido</td>
<td></td>
</tr>
<tr>
<td><strong>Nervous System Disorders</strong></td>
<td>Very Common Peripheral neuropathies◊◊, Paraesthesia, Dizziness◊◊, Tremor, Dysgeusia, Headache</td>
<td>Very Common Peripheral neuropathies◊◊</td>
</tr>
<tr>
<td></td>
<td>Common Ataxia, Balance impaired, Syncope◊◊, Neuralgia, Dysaesthesia</td>
<td>Common Cerebrovascular accident◊, Dizziness◊◊, Syncope◊◊, Neuralgia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uncommon Intracranial haemorrhage◊, Transient ischaemic attack, Cerebral ischemia</td>
</tr>
<tr>
<td><strong>Eye Disorders</strong></td>
<td>Very Common Cataracts, Blurred vision</td>
<td>Common Cataract</td>
</tr>
<tr>
<td></td>
<td>Common Reduced visual acuity</td>
<td>Uncommon Blindness</td>
</tr>
<tr>
<td><strong>Ear and Labyrinth Disorders</strong></td>
<td>Common Deafness (Including Hypoacusis), Tinnitus</td>
<td>Common</td>
</tr>
<tr>
<td><strong>Cardiac Disorders</strong></td>
<td>Common Atrial fibrillation◊◊, Bradycardia</td>
<td>Common Myocardial infarction (including acute)◊◊, Atrial fibrillation◊◊, Congestive cardiac failure◊, Tachycardia, Cardiac failure◊◊, Myocardial ischemia◊</td>
</tr>
<tr>
<td></td>
<td>Uncommon Arrhythmia, QT prolongation, Atrial flutter, Ventricular extrasystoles</td>
<td></td>
</tr>
<tr>
<td><strong>Vascular Disorders</strong></td>
<td>Very Common Venous thromboembolic events◊, predominantly deep vein thrombosis and pulmonary embolism◊◊◊, Hypotension◊</td>
<td>Very Common Venous thromboembolic events◊, predominantly deep vein thrombosis and pulmonary embolism◊◊◊</td>
</tr>
<tr>
<td></td>
<td>Common Hypertension, Ecchymosis◊</td>
<td>Common Vasculitis, Hypotension◊◊, Hypertension</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Uncommon Ischemia, Peripheral ischemia, Intracranial venous sinus thrombosis</td>
</tr>
<tr>
<td>System Organ Class / Preferred Term</td>
<td>All ADRs/Frequency</td>
<td>Grade 3–4 ADRs/Frequency</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Dyspnoea◊◊, Epistaxis♦, Cough</td>
<td>Respiratory distress♦, Dyspnoea◊◊, Pleuritic pain◊, Hypoxia◊</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dysphonia</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrointestinal Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Diarrhoea◊◊, Constipation♦, Abdominal pain◊, Nausea, Vomiting◊, Dyspepsia, Dry mouth, Stomatitis</td>
<td>Gastrointestinal haemorrhage^, Abdominal pain◊, Constipation♦, Diarrhoea◊, Nausea, Vomiting◊</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gastrointestinal haemorrhage (including rectal haemorrhage, haemorrhoidal haemorrhage, peptic ulcer haemorrhage and gingival bleeding)^,◊,◊◊, Dysphagia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Colitis, Caecitis</td>
<td></td>
</tr>
<tr>
<td><strong>Hepatobiliary Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Alanine aminotransferase increased, Aspartate aminotransferase increased</td>
<td>Cholestasis♦, Hepatotoxicity, Hepatocellular injury◊, Alanine aminotransferase increased, Abnormal liver function tests♦</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hepatocellular injury◊, Abnormal liver function tests♦, Hyperbilirubinaemia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hepatic failure^</td>
<td></td>
</tr>
<tr>
<td><strong>Skin and Subcutaneous Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Rashes◊◊, Pruritus</td>
<td>Rashes◊</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urticaria, Hyperhidrosis, Dry skin, Skin hyperpigmentation, Eczema, Erythema</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drug rash with eosinophilia and systemic symptoms◊◊, Skin discolouration, Photosensitivity reaction</td>
<td></td>
</tr>
<tr>
<td><strong>Musculoskeletal and Connective Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Muscular weakness◊◊, Muscle spasms, Bone pain♦, Musculoskeletal and connective tissue pain and discomfort (including back pain◊◊), Pain in extremity, Myalgia, Arthralgia^</td>
<td>Muscular weakness◊◊, Bone pain♦, Musculoskeletal and connective tissue pain and discomfort (including back pain◊◊)</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Joint swelling</td>
<td></td>
</tr>
<tr>
<td><strong>Skin and Subcutaneous Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Rashes◊◊, Pruritus</td>
<td>Rashes◊</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urticaria, Hyperhidrosis, Dry skin, Skin hyperpigmentation, Eczema, Erythema</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drug rash with eosinophilia and systemic symptoms◊◊, Skin discolouration, Photosensitivity reaction</td>
<td></td>
</tr>
<tr>
<td><strong>Musculoskeletal and Connective Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Muscular weakness◊◊, Muscle spasms, Bone pain♦, Musculoskeletal and connective tissue pain and discomfort (including back pain◊◊), Pain in extremity, Myalgia, Arthralgia^</td>
<td>Muscular weakness◊◊, Bone pain♦, Musculoskeletal and connective tissue pain and discomfort (including back pain◊◊)</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Joint swelling</td>
<td></td>
</tr>
<tr>
<td>System Organ Class / Preferred Term</td>
<td>All ADRs/Frequency</td>
<td>Grade 3–4 ADRs/Frequency</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><strong>Renal and Urinary Disorders</strong></td>
<td>Very Common</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Renal failure (including acute)</td>
<td></td>
<td>Renal tubular necrosis</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haematuria^, Urinary retention, Urinary incontinence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Acquired Fanconi syndrome</td>
<td></td>
</tr>
<tr>
<td><strong>Reproductive System and Breast Disorders</strong></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Erectile dysfunction</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>General Disorders and Administration Site Conditions</strong></td>
<td>Very Common</td>
<td>Very Common</td>
</tr>
<tr>
<td>Fatigue^, Oedema (including peripheral oedema), Pyrexia^, Astenia, Influenza like illness syndrome (including pyrexia, cough, myalgia, musculoskeletal pain, headache and rigors)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td>Common</td>
</tr>
<tr>
<td>Chest pain^, Lethargy</td>
<td></td>
<td>Fatigue^</td>
</tr>
<tr>
<td><strong>Investigations</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Blood alkaline phosphatase increased</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>C-reactive protein increased</td>
<td></td>
</tr>
<tr>
<td><strong>Injury, Poisoning and Procedural Complications</strong></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Fall, Confusion^</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

^Adverse reactions reported as serious in clinical trials in patients with NDMM who had received lenalidomide in combination with bortezomib and dexamethasone

^See section 4.8 description of selected adverse reactions

^ Adverse reactions reported as serious in clinical trials in patients with multiple myeloma treated with lenalidomide in combination with dexamethasone, or with melphalan and prednisone

+ Applies to serious adverse drug reactions only

^ Squamous skin cancer was reported in clinical trials in previously treated myeloma patients with lenalidomide/dexamethasone compared to controls

** Squamous cell carcinoma of skin was reported in a clinical trial in newly diagnosed myeloma patients with lenalidomide/dexamethasone compared to controls

Tabulated summary from monotherapy

The following tables are derived from data gathered during the main studies in monotherapy for myelodysplastic syndromes and mantle cell lymphoma.

Table 3. ADRs reported in clinical trials in patients with myelodysplastic syndromes treated with lenalidomide#

<table>
<thead>
<tr>
<th>System Organ Class / Preferred Term</th>
<th>All ADRs/Frequency</th>
<th>Grade 3–4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td>Very Common</td>
<td>Very Common</td>
</tr>
<tr>
<td>Bacterial, viral and fungal infections (including opportunistic infections)</td>
<td></td>
<td>Pneumonia^</td>
</tr>
<tr>
<td>Common</td>
<td>Bacterial, viral and fungal infections (including opportunistic infections)</td>
<td>Bronchitis</td>
</tr>
<tr>
<td>System Organ Class / Preferred Term</td>
<td>All ADRs/Frequency</td>
<td>Grade 3−4 ADRs/Frequency</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>--------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><strong>Blood and Lymphatic System Disorders</strong></td>
<td>Very Common Thrombocytopenia(^\diamond), Neutropenia(^\diamond), Leucopenia</td>
<td>Very Common Thrombocytopenia(^\diamond), Neutropenia(^\diamond), Leucopenia</td>
</tr>
<tr>
<td></td>
<td>Common Thrombocytopenia(^\diamond), Neutropenia(^\diamond), Leucopenia</td>
<td>Common Febrile neutropenia(^\diamond)</td>
</tr>
<tr>
<td><strong>Endocrine Disorders</strong></td>
<td>Very Common Hypothyroidism</td>
<td></td>
</tr>
<tr>
<td><strong>Metabolism and Nutrition Disorders</strong></td>
<td>Very Common Decreased appetite</td>
<td>Common Hyperglycaemia(^\circ), Decreased appetite</td>
</tr>
<tr>
<td></td>
<td>Common Iron overload, Weight decreased</td>
<td></td>
</tr>
<tr>
<td><strong>Psychiatric Disorders</strong></td>
<td>Common Altered mood(^\circ)~</td>
<td></td>
</tr>
<tr>
<td><strong>Nervous System Disorders</strong></td>
<td>Very Common Dizziness, Headache</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Common Paraesthesia</td>
<td></td>
</tr>
<tr>
<td><strong>Cardiac Disorders</strong></td>
<td>Common Acute myocardial infarction(^\diamond), Atrial fibrillation(^\circ), Cardiac failure(^\circ)</td>
<td></td>
</tr>
<tr>
<td><strong>Vascular Disorders</strong></td>
<td>Common Hypertension, Haematoma</td>
<td>Common Venous thromboembolic events, predominantly deep vein thrombosis and pulmonary embolism(^\diamond)</td>
</tr>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td>Very Common Epistaxis(^\diamond)</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrointestinal Disorders</strong></td>
<td>Very Common Diarrhoea(^\circ), Abdominal pain (including upper), Nausea, Vomiting, Constipation</td>
<td>Common Diarrhoea(^\circ), Nausea, Toothache</td>
</tr>
<tr>
<td></td>
<td>Common Dry mouth, Dyspepsia</td>
<td></td>
</tr>
<tr>
<td><strong>Hepatobiliary Disorders</strong></td>
<td>Common Abnormal liver function tests</td>
<td>Common Abnormal liver function tests</td>
</tr>
<tr>
<td><strong>Skin and Subcutaneous Tissue Disorders</strong></td>
<td>Very Common Rashes, Dry Skin, Pruritus</td>
<td>Common Rashes, Pruritus</td>
</tr>
<tr>
<td><strong>Musculoskeletal and Connective Tissue Disorders</strong></td>
<td>Very Common Muscle spasms, Musculoskeletal pain (including back pain(^\circ) and pain in extremity), Arthralgia, Myalgia</td>
<td>Common Backpain(^\circ)</td>
</tr>
<tr>
<td><strong>Renal and Urinary Disorders</strong></td>
<td>Common Renal failure(^\circ)</td>
<td></td>
</tr>
<tr>
<td><strong>General Disorders and Administration Site Conditions</strong></td>
<td>Very Common Fatigue, Peripheral oedema, Influenza like illness syndrome (including pyrexia, cough, pharyngitis, myalgia, musculoskeletal pain, headache)</td>
<td>Common Pyrexia</td>
</tr>
<tr>
<td><strong>Injury, Poisoning and Procedural Complications</strong></td>
<td>Common Fall</td>
<td></td>
</tr>
</tbody>
</table>

\(^\diamond\)see section 4.8 description of selected adverse reactions
\(^\circ\)Adverse events reported as serious in myelodysplastic syndromes clinical trials
Altered mood was reported as a common serious adverse event in the myelodysplastic syndromes phase 3 study; it was not reported as a Grade 3 or 4 adverse event.

Algorithm applied for inclusion in the SmPC: All ADRs captured by the phase 3 study algorithm are included in the EU SmPC. For these ADRs, an additional check of the frequency of the ADRs captured by the phase 2 study algorithm was undertaken and, if the frequency of the ADRs in the phase 2 study was higher than in the phase 3 study, the event was included in the EU SmPC at the frequency it occurred in the phase 2 study.

Algorithm applied for myelodysplastic syndromes:
- Myelodysplastic syndromes phase 3 study (double-blind safety population, difference between lenalidomide 5/10mg and placebo by initial dosing regimen occurring in at least 2 subjects)
  - All treatment-emergent adverse events with ≥ 5% of subjects in lenalidomide and at least 2% difference in proportion between lenalidomide and placebo
  - All treatment-emergent Grade 3 or 4 adverse events in 1% of subjects in lenalidomide and at least 1% difference in proportion between lenalidomide and placebo
  - All treatment-emergent serious adverse events in 1% of subjects in lenalidomide and at least 1% difference in proportion between lenalidomide and placebo
- Myelodysplastic syndromes phase 2 study
  - All treatment-emergent adverse events with ≥ 5% of lenalidomide treated subjects
  - All treatment-emergent Grade 3 or 4 adverse events in 1% of lenalidomide treated subjects
  - All treatment-emergent serious adverse events in 1% of lenalidomide treated subjects

### Table 4. ADRs reported in clinical trials in patients with mantle cell lymphoma treated with lenalidomide

<table>
<thead>
<tr>
<th>System Organ Class / Preferred Term</th>
<th>All ADRs/Frequency</th>
<th>Grade 3–4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td>Very Common Bacterial, viral and fungal infections (including opportunistic infections)&lt;sup&gt;2&lt;/sup&gt;, Nasopharyngitis, Pneumonia&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Common Bacterial, viral and fungal infections (including opportunistic infections)&lt;sup&gt;2&lt;/sup&gt;, Pneumonia&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>Common Sinusitis</td>
<td></td>
</tr>
<tr>
<td><strong>Neoplasms Benign, Malignant and Unspecified (incl cysts and polyps)</strong></td>
<td>Common Tumour flare reaction</td>
<td>Common Tumour flare reaction, Squamous skin cancer&lt;sup&gt;2,5&lt;/sup&gt; Basal cell carcinoma&lt;sup&gt;2,5&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Blood and Lymphatic System Disorders</strong></td>
<td>Very Common Thrombocytopenia&lt;sup&gt;2,5&lt;/sup&gt;, Neutropenia&lt;sup&gt;2,5&lt;/sup&gt;, Leucopenia&lt;sup&gt;6&lt;/sup&gt;, Anaemia&lt;sup&gt;6&lt;/sup&gt;</td>
<td>Very Common Thrombocytopenia&lt;sup&gt;2&lt;/sup&gt;, Neutropenia&lt;sup&gt;2,5&lt;/sup&gt;, Anaemia&lt;sup&gt;6&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>Common Febrile neutropenia&lt;sup&gt;2,5&lt;/sup&gt;</td>
<td>Common Febrile neutropenia&lt;sup&gt;2,5&lt;/sup&gt;, Leucopenia&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Metabolism and Nutrition Disorders</strong></td>
<td>Very Common Decreased appetite, Weight decreased, Hypokalaemia</td>
<td>Common Dehydration&lt;sup&gt;6&lt;/sup&gt;, Hyponatraemia, Hypocalcaemia</td>
</tr>
<tr>
<td></td>
<td>Common Dehydration&lt;sup&gt;6&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td><strong>Psychiatric Disorders</strong></td>
<td>Common Insomnia</td>
<td></td>
</tr>
<tr>
<td><strong>Nervous System Disorders</strong></td>
<td>Common Dysgeusia, Headache, neuropathy peripheral</td>
<td>Common Peripheral sensory neuropathy, Lethargy</td>
</tr>
<tr>
<td><strong>Ear and Labyrinth Disorders</strong></td>
<td>Common Vertigo</td>
<td></td>
</tr>
<tr>
<td><strong>Cardiac Disorders</strong></td>
<td>Common Myocardial infarction (including acute)&lt;sup&gt;2,5&lt;/sup&gt;, Cardiac failure</td>
<td>Common Deep vein thrombosis&lt;sup&gt;2&lt;/sup&gt;, Pulmonary embolism&lt;sup&gt;2,5&lt;/sup&gt;, Hypotension&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Vascular Disorders</strong></td>
<td>Common Hypotension&lt;sup&gt;5&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>
### System Organ Class / Preferred Term

<table>
<thead>
<tr>
<th>All ADRs/Frequency</th>
<th>Grade 3–4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Very Common Dyspnoea</td>
<td>Common Dyspnoea</td>
</tr>
<tr>
<td>Gastrointestinal Disorders</td>
<td></td>
</tr>
<tr>
<td>Very Common Diarrhoea, Nausea, Vomiting, Constipation</td>
<td>Common Diarrhoea, Abdominal pain, Constipation</td>
</tr>
<tr>
<td>Common Abdominal pain</td>
<td></td>
</tr>
<tr>
<td>Skin and Subcutaneous Tissue Disorders</td>
<td></td>
</tr>
<tr>
<td>Very Common Rashes (including dermatitis allergic), Pruritus</td>
<td>Common Rashes</td>
</tr>
<tr>
<td>Common Night sweats, Dry skin</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and Connective Tissue Disorders</td>
<td></td>
</tr>
<tr>
<td>Very Common Muscle spasms, Back pain</td>
<td>Common Back pain, Muscular weakness, Arthralgia, Pain in extremity</td>
</tr>
<tr>
<td>Common Arthralgia, Pain in extremity, Muscular weakness</td>
<td></td>
</tr>
<tr>
<td>Renal and Urinary Disorders</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Common Renal failure</td>
</tr>
<tr>
<td>General Disorders and Administration Site Conditions</td>
<td></td>
</tr>
<tr>
<td>Very Common Fatigue, Asthenia, Peripheral oedema, Influenza like illness syndrome (including pyrexia, cough)</td>
<td>Common Pyrexia, Asthenia, Fatigue</td>
</tr>
<tr>
<td>Common Chills</td>
<td></td>
</tr>
</tbody>
</table>

^See section 4.8 description of selected adverse reactions

^Adverse events reported as serious in mantle cell lymphoma clinical trials Algorithm applied for mantle cell lymphoma:
- Mantle cell lymphoma controlled phase 2 study
  - All treatment-emergent adverse events with ≥ 5% of subjects in lenalidomide arm and at least 2% difference in proportion between lenalidomide and control arm
  - All treatment-emergent Grade 3 or 4 adverse events in ≥1% of subjects in lenalidomide arm and at least 1.0% difference in proportion between lenalidomide and control arm
  - All Serious treatment-emergent adverse events in ≥1% of subjects in lenalidomide arm and at least 1.0% difference in proportion between lenalidomide and control arm
- Mantle cell lymphoma single arm phase 2 study
  - All treatment-emergent adverse events with ≥ 5% of subjects
  - All Grade 3 or 4 treatment-emergent adverse events reported in 2 or more subjects
  - All Serious treatment-emergent adverse events reported in 2 or more subjects

---

**Tabulated summary for combination therapy in FL**

The following table is derived from data gathered during the main studies (NHL-007 and NHL-008) using lenalidomide in combination with rituximab for patients with follicular lymphoma.

**Table 5: ADRs reported in clinical trials in patients with follicular lymphoma treated with lenalidomide in combination with rituximab**
<table>
<thead>
<tr>
<th>System Organ Class / Preferred Term</th>
<th>All ADRs/Frequency</th>
<th>Grade 3–4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Upper respiratory tract infection</td>
<td></td>
<td>Pneumonia(^a), Sepsis(^g), Lung infection, Bronchitis, Gastroenteritis, Sinusitis, Urinary tract infection</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pneumonia(^0), Influenza, Bronchitis, Sinusitis, Urinary tract infection</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Neoplasms Benign, Malignant and Unspecified (incl cysts and polyps)</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Tumour flare(^\wedge)</td>
<td></td>
<td>Basal cell carcinoma(^\wedge,\wedge)</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Squamous Cell Carcinoma of Skin(^\wedge,\wedge)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Blood and Lymphatic System Disorders</strong></td>
<td>Very Common</td>
<td>Very Common</td>
</tr>
<tr>
<td>Neutropenia(^\wedge,\wedge)</td>
<td></td>
<td>Neutropenia(^\wedge,\wedge)</td>
</tr>
<tr>
<td>Anaemia(^\wedge)</td>
<td></td>
<td>Anaemia(^\wedge), Thrombocytopenia(^\wedge), Febrile neutropenia(^\wedge), Pancytopenia, Leucopenia(^\wedge,\wedge), Lymphopenia(^\wedge)**</td>
</tr>
<tr>
<td>Thrombocytopenia(^\wedge), Leucopenia(^\wedge)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lymphopenia(^\wedge)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Metabolism and Nutrition Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Decreased appetite, Hypokalaemia</td>
<td></td>
<td>Dehydration, Hypercalcaemia(^\wedge), Hypokalaemia, Hypophosphataemia, Hyperuricaemia</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hypophosphataemia, Dehydration</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Psychiatric Disorders</strong></td>
<td>Common</td>
<td></td>
</tr>
<tr>
<td>Depression, Insomnia</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Nervous System Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Headache, Dizziness</td>
<td></td>
<td>Syncope</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peripheral sensory neuropathy, Dysgeusia</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cardiac Disorders</strong></td>
<td>Uncommon</td>
<td>Common</td>
</tr>
<tr>
<td>Arrhythmia(^\wedge)</td>
<td></td>
<td>Pulmonary embolism(^\wedge,\wedge), Hypotension</td>
</tr>
<tr>
<td><strong>Vascular Disorders</strong></td>
<td>Common</td>
<td>Common</td>
</tr>
<tr>
<td>Hypotension</td>
<td></td>
<td>Dyspnoea(^\wedge)</td>
</tr>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Dyspnoea(^\wedge), Cough,</td>
<td></td>
<td>Dyspnoea(^\wedge)</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oropharyngeal pain, Dysphonia</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gastrointestinal Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Abdominal pain(^\wedge), Diarrhoea, Constipation, Nausea, Vomiting, Dyspepsia</td>
<td></td>
<td>Abdominal pain(^\wedge), Diarrhoea, Constipation, Stomatitis</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper abdominal pain, Stomatitis, Dry mouth</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Skin and Subcutaneous Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Rash(^\wedge), Pruritus</td>
<td></td>
<td>Rash(^\wedge), Pruritus</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry skin, Night sweats, Erythema</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Musculoskeletal and Connective Tissue Disorders</strong></td>
<td>Very Common</td>
<td>Common</td>
</tr>
<tr>
<td>Muscle spasms, Back pain, Arthralgia</td>
<td></td>
<td>Muscular weakness, Neck pain</td>
</tr>
<tr>
<td>Common</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pain in extremity, Muscular weakness, Musculoskeletal pain, Myalgia, Neck pain</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Renal and Urinary Disorders</strong></td>
<td>Common</td>
<td>Common</td>
</tr>
<tr>
<td>Acute kidney injury(^\wedge)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# System Organ Class / Preferred Term

## General Disorders and Administration Site Conditions
- **Very Common**
  - Pyrexia, Fatigue, Asthenia, Peripheral oedema
- **Common**
  - Malaise, Chills

## Investigations
- **Very Common**
  - Alanine aminotransferase increased
- **Common**
  - Weight decreased, Blood Bilirubin increased

^see section 4.8 description of selected adverse reactions

Algorithm applied for follicular lymphoma:

1. **Controlled – Phase 3 trial**:
   - o NHL-007 ADRs: All treatment-emergent AEs with ≥ 5.0% of subjects in lenalidomide/rituximab arm and at least 2.0% higher frequency (%) in Len arm compared to control arm - (Safety population)
   - o NHL-007 Gr 3/4 ADRs: All Grades 3 or Grade 4 treatment-emergent AEs with at least 1.0% subjects in lenalidomide/rituximab arm and at least 1.0% higher frequency in lenalidomide/rituximab arm compared to control arm - (safety population)
   - o NHL-007 Serious ADRs: All serious treatment-emergent AEs with at least 1.0% subjects in lenalidomide/rituximab arm and at least 1.0% higher frequency in lenalidomide/rituximab arm compared to control arm - (safety population)

2. **FL single arm - phase 3 trial**:
   - o NHL-008 ADRs: All treatment-emergent adverse events with ≥ 5.0% of subjects
   - o NHL-008 Gr 3/4 ADRs: All Grade 3/4 treatment-emergent adverse events reported in ≥ 1.0% of subjects
   - o NHL-008 Serious ADRs: All serious treatment-emergent adverse events reported in ≥ 1.0% of subjects

Adverse events reported as serious in follicular lymphoma clinical trials

* Applies to serious adverse drug reactions only
* Rash includes PT of rash and rash maculo-papular
** Leucopenia includes PT leucopenia and white blood cell count decreased
*** Lymphopenia includes PT lymphopenia and lymphocyte count decreased

---

### Tabulated summary of post-marketing adverse reactions

In addition to the above adverse reactions identified from the pivotal clinical trials, the following table is derived from data gathered from post-marketing data.

#### Table 6. ADRs reported in post-marketing use in patients treated with lenalidomide

<table>
<thead>
<tr>
<th>System Organ Class / Preferred Term</th>
<th>All ADRs/Frequency</th>
<th>Grade 3–4 ADRs/Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and Infestations</strong></td>
<td>Not Known</td>
<td>Not Known</td>
</tr>
<tr>
<td></td>
<td>Viral infections, including herpes zoster and hepatitis B virus reactivation</td>
<td>Viral infections, including herpes zoster and hepatitis B virus reactivation</td>
</tr>
<tr>
<td><strong>Neoplasms Benign, Malignant and Unspecified (incl cysts and polyps)</strong></td>
<td>Not Known</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Acquired haemophilia</td>
<td>Tumour lysis syndrome</td>
</tr>
<tr>
<td><strong>Blood and Lymphatic System Disorders</strong></td>
<td>Not Known</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Acquired haemophilia</td>
<td>Anaphylactic reaction^</td>
</tr>
<tr>
<td><strong>Immune System Disorders</strong></td>
<td>Rare</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Anaphylactic reaction^</td>
<td>Anaphylactic reaction^</td>
</tr>
<tr>
<td></td>
<td>Not Known</td>
<td>Solid organ transplant rejection</td>
</tr>
<tr>
<td><strong>Endocrine Disorders</strong></td>
<td>Common</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Hyperthyroidism</td>
<td>Pulmonary hypertension</td>
</tr>
<tr>
<td><strong>Respiratory, Thoracic and Mediastinal Disorders</strong></td>
<td>Uncommon</td>
<td>Not Known</td>
</tr>
<tr>
<td></td>
<td>Pulmonary hypertension</td>
<td>Interstitial pneumonitis</td>
</tr>
</tbody>
</table>
**Description of selected adverse reactions**

**Teratogenicity**
Lenalidomide is structurally related to thalidomide. Thalidomide is a known human teratogenic active substance that causes severe life-threatening birth defects. In monkeys, lenalidomide induced malformations similar to those described with thalidomide (see sections 4.6 and 5.3). If lenalidomide is taken during pregnancy, a teratogenic effect of lenalidomide in humans is expected.

**Neutropenia and thrombocytopenia**

**Newly diagnosed multiple myeloma: patients who have undergone ASCT treated with lenalidomide maintenance**
Lenalidomide maintenance after ASCT is associated with a higher frequency of Grade 4 neutropenia compared to placebo maintenance (32.1% vs 26.7% [16.1% vs 1.8% after the start of maintenance treatment] in CALGB 100104 and 16.4% vs 0.7% in IFM 2005-02, respectively). Treatment-emergent AEs of neutropenia leading to lenalidomide discontinuation were reported in 2.2% of patients in CALGB 100104 and 2.4% of patients in IFM 2005-02, respectively. Grade 4 febrile neutropenia was reported at similar frequencies in the lenalidomide maintenance arms compared to placebo maintenance arms in both studies (0.4% vs 0.5% [0.4% vs 0.5% after the start of maintenance treatment] in CALGB 100104 and 0.3% vs 0% in IFM 2005-02, respectively).

Lenalidomide maintenance after ASCT is associated with a higher frequency of Grade 3 or 4 thrombocytopenia compared to placebo maintenance (37.5% vs 30.3% [17.9% vs 4.1% after the start of maintenance treatment] in CALGB 100104 and 13.0% vs 2.9% in IFM 2005-02, respectively).

- **Newly diagnosed multiple myeloma patients who are not eligible for transplant receiving lenalidomide in combination with bortezomib and dexamethasone**
  Grade 4 neutropenia was observed in the RVd arm to a lesser extent than in the Rd comparator arm (2.7% vs 5.9%) in the SWOG S0777 study. Grade 4 febrile neutropenia was reported at similar frequencies in the RVd arm compared to the Rd arm (0.0% vs 0.4%).

Grade 3 or 4 thrombocytopenia was observed in the RVd arm to a greater extent than in the Rd comparator arm (17.2 % vs 9.4%).
• Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with dexamethasone

The combination of lenalidomide with dexamethasone in newly diagnosed multiple myeloma patients is associated with a lower frequency of Grade 4 neutropenia (8.5% in Rd and Rd18, compared with MPT (15%). Grade 4 febrile neutropenia was observed infrequently (0.6% in Rd and Rd18 compared with 0.7% in MPT).

The combination of lenalidomide with dexamethasone in newly diagnosed multiple myeloma patients is associated with a lower frequency of Grade 3 and 4 thrombocytopenia (8.1% in Rd and Rd18) compared with MPT (11.1%).

• Newly diagnosed multiple myeloma: patients who are not eligible for transplant treated with lenalidomide in combination with melphalan and prednisone

The combination of lenalidomide with melphalan and prednisone in newly diagnosed multiple myeloma patients is associated with a higher frequency of Grade 4 neutropenia (34.1% in MPR+R/MPR+p) compared with MPp+p (7.8%). There was a higher frequency of Grade 4 febrile neutropenia observed (1.7% in MPR+R/MPR+p compared to 0.0% in MPp+p).

The combination of lenalidomide with melphalan and prednisone in newly diagnosed multiple myeloma patients is associated with a higher frequency of Grade 3 and 4 thrombocytopenia (40.4% in MPR+R/MPR+p) compared with MPp+p (13.7%).

• Multiple myeloma: patients with at least one prior therapy

The combination of lenalidomide with dexamethasone in multiple myeloma patients is associated with a higher incidence of Grade 4 neutropenia (5.1% in lenalidomide/dexamethasone-treated patients compared with 0.6% in placebo/dexamethasone-treated patients). Grade 4 febrile neutropenia episodes were observed infrequently (0.6% in lenalidomide/dexamethasone-treated patients compared to 0.0% in placebo/dexamethasone treated patients).

The combination of lenalidomide with dexamethasone in multiple myeloma patients is associated with a higher incidence of Grade 3 and 4 thrombocytopenia (9.9% and 1.4%, respectively, in lenalidomide/dexamethasone-treated patients compared to 2.3% and 0.0% in placebo/dexamethasone-treated patients).

• Myelodysplastic syndromes patients

In myelodysplastic syndromes patients, lenalidomide is associated with a higher incidence of Grade 3 or 4 neutropenia (74.6% in lenalidomide-treated patients compared with 14.9% in patients on placebo in the phase 3 study). Grade 3 or 4 febrile neutropenia episodes were observed in 2.2% of lenalidomide-treated patients compared with 0.0% in patients on placebo). Lenalidomide is associated with a higher incidence of Grade 3 or 4 thrombocytopenia (37% in lenalidomide-treated patients compared with 1.5% in patients on placebo in the phase 3 study).

• Mantle cell lymphoma patients

In mantle cell lymphoma patients, lenalidomide is associated with a higher incidence of Grade 3 or 4 neutropenia (43.7% in lenalidomide-treated patients compared with 33.7% in patients in the control arm in the phase 2 study). Grade 3 or 4 febrile neutropenia episodes were observed in 6.0% of lenalidomide-treated patients compared with 2.4% in patients on control arm.

• Follicular lymphoma patients

The combination of lenalidomide with rituximab in follicular lymphoma is associated with a higher rate of grade 3 or grade 4 neutropenia (50.7% in lenalidomide/rituximab treated patients compared with 12.2% in placebo/rituximab treated patients). All grade 3 or 4 neutropenia were reversible through dose interruption, reduction and/or supportive care with growth factors. Additionally, febrile neutropenia was observed infrequently (2.7% in lenalidomide/rituximab treated patients compared with 0.7% in placebo/rituximab treated patients).
Lenalidomide in combination with rituximab is also associated with a higher incidence of grade 3 or 4 thrombocytopenia (1.4% in lenalidomide/rituximab treated patients compared to 0% in placebo/rituximab patients).

**Venous thromboembolism**
An increased risk of DVT and PE is associated with the use of the combination of lenalidomide with dexamethasone in patients with multiple myeloma, and to a lesser extent in patients treated with lenalidomide in combination with melphalan and prednisone or in patients with multiple myeloma, myelodysplastic syndromes and mantle cell lymphoma treated with lenalidomide monotherapy (see section 4.5). Concomitant administration of erythropoietic agents or previous history of DVT may also increase thrombotic risk in these patients.

**Myocardial infarction**
Myocardial infarction has been reported in patients receiving lenalidomide, particularly in those with known risk factors.

**Haemorrhagic disorders**
Haemorrhagic disorders are listed under several system organ classes: Blood and lymphatic system disorders; nervous system disorders (intracranial haemorrhage); respiratory, thoracic and mediastinal disorders (epistaxis); gastrointestinal disorders (gingival bleeding, haemorrhoidal haemorrhage, rectal haemorrhage); renal and urinary disorders (haematuria); injury, poisoning and procedural complications (contusion) and vascular disorders (ecchymosis).

**Allergic reactions and severe skin reactions**
Cases of allergic reactions including angioedema, anaphylactic reaction and severe cutaneous reactions including SJS, TEN and DRESS have been reported with the use of lenalidomide. A possible cross-reaction between lenalidomide and thalidomide has been reported in the literature. Patients with a history of severe rash associated with thalidomide treatment should not receive lenalidomide (see section 4.4).

**Second primary malignancies**
In clinical trials in previously treated myeloma patients with lenalidomide/dexamethasone compared to controls, mainly comprising of basal cell or squamous cell skin cancers.

**Acute myeloid leukaemia**
- **Multiple myeloma**
Cases of AML have been observed in clinical trials of newly diagnosed multiple myeloma in patients taking lenalidomide treatment in combination with melphalan or immediately following HDM/ASCT (see section 4.4). This increase was not observed in clinical trials of newly diagnosed multiple myeloma in patients taking lenalidomide in combination with dexamethasone compared to thalidomide in combination with melphalan and prednisone.

- **Myelodysplastic syndromes**
Baseline variables including complex cytogenetics and TP53 mutation are associated with progression to AML in subjects who are transfusion dependent and have a Del (5q) abnormality (see section 4.4). The estimated 2-year cumulative risk of progression to AML were 13.8% in patients with an isolated Del (5q) abnormality compared to 17.3% for patients with Del (5q) and one additional cytogenetic abnormality and 38.6% in patients with a complex karyotype.
In a post-hoc analysis of a clinical trial of lenalidomide in myelodysplastic syndromes, the estimated 2-year rate of progression to AML was 27.5 % in patients with IHC-p53 positivity and 3.6% in patients with IHC-p53 negativity (p=0.0038). In the patients with IHC-p53 positivity, a lower rate of progression to AML was observed amongst patients who achieved a transfusion independence (TI) response (11.1%) compared to a non-responder (34.8%).

**Hepatic disorders**
The following post-marketing adverse reactions have been reported (frequency unknown): acute hepatic failure and cholestasis (both potentially fatal), toxic hepatitis, cytolytic hepatitis, mixed cytolytic/cholestatic hepatitis.

**Rhabdomyolysis**
Rare cases of rhabdomyolysis have been observed, some of them when lenalidomide is administered with a statin.

**Thyroid disorders**
Cases of hypothyroidism and cases of hyperthyroidism have been reported (see section 4.4 Thyroid disorders).

**Tumour flare reaction and tumour lysis syndrome**
In study MCL-002, approximately 10% of lenalidomide-treated patients experienced TFR compared to 0% in the control arm. The majority of the events occurred in cycle 1, all were assessed as treatment-related, and the majority of the reports were grade 1 or 2. Patients with high MIPI at diagnosis or bulky disease (at least one lesion that is ≥ 7 cm in the longest diameter) at baseline may be at risk of TFR. In study MCL-002, TLS was reported for one patient in each of the two treatment arms. In the supportive study MCL-001, approximately 10% of subjects experienced TFR; all report were grade 1 or 2 in severity and all were assessed as treatment-related. The majority of the events occurred in cycle 1. There were no reports of TLS in study MCL-001 (see section 4.4).

In study NHL-007, TFR was reported in 19/146 (13.0%) of patients in the lenalidomide/rituximab arm versus 1/148 (0.7%) patients in the placebo/rituximab arm. Most TFRs (18 out of 19) reported in the lenalidomide/rituximab arm occurred during first two cycles of treatment. One FL patient in the lenalidomide/rituximab arm experienced a Grade 3 TFR event versus no patients in the placebo/rituximab arm. In study NHL-008, 7/177 (4.0%) of FL patients experienced TFR; (3 reports were Grade 1 and 4 reports were Grade 2 severity); while 1 report was considered serious. In study NHL-007, TLS occurred in 2 FL patients (1.4%) in the lenalidomide/rituximab arm and no FL patients in the placebo/rituximab arm; neither patient had a Grade 3 or 4 event. TLS occurred in 1 FL patient (0.6%) in study NHL-008. This single event was identified as a serious, Grade 3 adverse reaction. For study NHL-007 no patients had to discontinue lenalidomide/rituximab therapy due to TFR or TLS.

**Gastrointestinal disorders**
Gastrointestinal perforations have been reported during treatment with lenalidomide. Gastrointestinal perforations may lead to septic complications and may be associated with fatal outcome.

**Reporting of suspected adverse reactions**
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

### 4.9 Overdose

There is no specific experience in the management of lenalidomide overdose in patients, although in dose-ranging studies some patients were exposed to up to 150 mg, and in single-dose studies, some patients were exposed to up to 400 mg. The dose limiting toxicity in these studies was essentially haematological. In the event of overdose, supportive care is advised.

### 5. PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties
Pharmacotherapeutic group: Immunosuppressants, Other immunosuppressants. ATC code: L04AX04.

**Mechanism of action**
Lenalidomide binds directly to cereblon, a component of a cullin ring E3 ubiquitin ligase enzyme complex that includes deoxyribonucleic acid (DNA) damage-binding protein 1 (DDB1), cullin 4 (CUL4), and regulator of cullins 1 (Roc1). In haematopoietic cells, lenalidomide binding to cereblon recruits substrate proteins Aiolos and Ikaros, lymphoid transcriptional factors, leading to their ubiquitination and subsequent degradation resulting in direct cytotoxic and immunomodulatory effects.

Specifically, lenalidomide inhibits proliferation and enhances apoptosis of certain haematopoietic tumour cells (including MM plasma tumour cells, follicular lymphoma tumour cells and those with deletions of chromosome 5), enhances T cell- and Natural Killer (NK) cell-mediated immunity and increases the number of NK, T and NK T cells. In MDS Del (5q), lenalidomide selectively inhibits the abnormal clone by increasing the apoptosis of Del (5q) cells.

The combination of lenalidomide and rituximab increases ADCC and direct tumor apoptosis in follicular lymphoma cells.

The lenalidomide mechanism of action also includes additional activities such as anti-angiogenic and pro-erythropoietic properties. Lenalidomide inhibits angiogenesis by blocking the migration and adhesion of endothelial cells and the formation of microvessels, augments foetal haemoglobin production by CD34+ haematopoietic stem cells, and inhibits production of pro-inflammatory cytokines (e.g., TNF-α and IL-6) by monocytes.

Clinical efficacy and safety
Lenalidomide efficacy and safety have been evaluated in six phase 3 studies in newly diagnosed multiple myeloma, two phase 3 studies in relapsed refractory multiple myeloma, one phase 3 study and one phase 2 study in myelodysplastic syndromes and one phase 2 study in mantle cell lymphoma and one phase 3 and one phase 3b study in iNHL as described below.

Newly diagnosed multiple myeloma

- Lenalidomide maintenance in patients who have undergone ASCT

The efficacy and safety of lenalidomide maintenance was assessed in two phase 3 multicentre, randomised, double-blind 2-arm, parallel group, placebo-controlled studies: CALGB 100104 and IFM 2005-02

**CALGB 100104**

Patients between 18 and 70 years of age with active MM requiring treatment and without prior progression after initial treatment were eligible.

Patients were randomised 1:1 within 90-100 days after ASCT to receive either lenalidomide or placebo maintenance. The maintenance dose was 10 mg once daily on days 1-28 of repeated 28-day cycles (increased up to 15 mg once daily after 3 months in the absence of dose-limiting toxicity), and treatment was continued until disease progression.

The primary efficacy endpoint in the study was progression free survival (PFS) from randomisation to the date of progression or death, whichever occurred first; the study was not powered for the overall survival endpoint. In total 460 patients were randomised: 231 patients to Lenalidomide and 229 patients to placebo. The demographic and disease-related characteristics were balanced across both arms.

The study was unblinded upon the recommendations of the data monitoring committee after surpassing the threshold for a preplanned interim analysis of PFS. After unblinding, patients in the placebo arm were allowed to cross over to receive lenalidomide before disease progression.

The results of PFS at unblinding, following a preplanned interim analysis, using a cut-off of 17 December 2009 (15.5 months follow up) showed a 62% reduction in risk of disease progression or death favouring lenalidomide (HR = 0.38; 95% CI 0.27, 0.54; p <0.001). The median overall PFS was 33.9 months (95% CI NE, NE) in the lenalidomide arm versus 19.0 months (95% CI 16.2, 25.6) in the placebo arm.

The PFS benefit was observed both in the subgroup of patients with CR and in the subgroup of patients who had not achieved a CR.

The results for the study, using a cut-off of 1 February 2016, are presented in Table 7
Table 7: Summary of overall efficacy data

<table>
<thead>
<tr>
<th></th>
<th>Lenalidomide (N = 231)</th>
<th>Placebo (N = 229)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigator-assessed PFS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median(^a) PFS time, months (95% CI)(^\text{b})</td>
<td>56.9 (41.9, 71.7)</td>
<td>29.4 (20.7, 35.5)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value(^d)</td>
<td>0.61 (0.48, 0.76); &lt;0.001</td>
<td></td>
</tr>
<tr>
<td>PFS2(^c)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median(^a) PFS2 time, months (95% CI)(^\text{b})</td>
<td>80.2 (63.3, 101.8)</td>
<td>52.8 (41.3, 64.0)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value(^d)</td>
<td>0.61 (0.48, 0.78); &lt;0.001</td>
<td></td>
</tr>
<tr>
<td>Overall survival</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median(^a) OS time, months (95% CI)(^\text{b})</td>
<td>111.0 (101.8, NE)</td>
<td>84.2 (71.0, 102.7)</td>
</tr>
<tr>
<td>8-year survival rate, % (SE)</td>
<td>60.9 (3.78)</td>
<td>44.6 (3.98)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value(^d)</td>
<td>0.61 (0.46, 0.81); &lt;0.001</td>
<td></td>
</tr>
<tr>
<td>Follow-up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median(^a) (min, max), months: all surviving patients</td>
<td>81.9 (0.0, 119.8)</td>
<td>81.0 (4.1, 119.5)</td>
</tr>
</tbody>
</table>

CI = confidence interval; HR = hazard ratio; max = maximum; min = minimum; NE = not estimable; OS = overall survival; PFS = progression-free survival;

\(^a\) The median is based on the Kaplan-Meier estimate.
\(^b\) The 95% CI about the median.
\(^c\) Based on Cox proportional hazards model comparing the hazard functions associated with the indicated treatment arms.
\(^d\) The p-value is based on the unstratified log-rank test of Kaplan-Meier curve differences between the indicated treatment arms.

**IFM 2005-02**

Patients aged < 65 years at diagnosis who had undergone ASCT and had achieved at least a stable disease response at the time of hematologic recovery were eligible. Patients were randomised 1:1 to receive either lenalidomide or placebo maintenance (10 mg once daily on days 1-28 of repeated 28-day cycles increased up to 15 mg once daily after 3 months in the absence of dose-limiting toxicity) following 2 courses of lenalidomide consolidation (25 mg/day, days 1-21 of a 28-day cycle). Treatment was to be continued until disease progression.

The primary endpoint was PFS defined from randomisation to the date of progression or death, whichever occurred first; the study was not powered for the overall survival endpoint. In total 614 patients were randomised: 307 patients to lenalidomide and 307 patients to placebo.

The study was unblinded upon the recommendations of the data monitoring committee after surpassing the threshold for a preplanned interim analysis of PFS. After unblinding, patients receiving placebo were not crossed over to lenalidomide therapy prior to progressive disease. The lenalidomide arm was discontinued, as a proactive safety measure, after observing an imbalance of SPMs (see section 4.4).

The results of PFS at unblinding, following a preplanned interim analysis, using a cut-off of 7 July 2010 (31.4 months follow up) showed a 48% reduction in risk of disease progression or death favoring lenalidomide (HR = 0.52; 95% CI 0.41, 0.66; p <0.001). The median overall PFS was 40.1 months (95% CI 35.7, 42.4) in the lenalidomide arm versus 22.8 months (95% CI 20.7, 27.4) in the placebo arm.

The PFS benefit was less in the subgroup of patients with CR than in the subgroup of patients who had not achieved a CR.

The updated PFS, using a cut-off of 1 February 2016 (96.7 months follow up) continues to show a PFS advantage: HR = 0.57 (95% CI 0.47, 0.68; p < 0.001). The median overall PFS was 44.4 months (39.6, 52.0) in the lenalidomide arm versus 23.8 months (95% CI 21.2, 27.3) in the placebo arm. For PFS2, the observed HR was 0.80 (95% CI 0.66, 0.98; p = 0.026) for lenalidomide versus placebo. The median overall PFS2 was 69.9 months (95% CI 58.1, 80.0) in the lenalidomide arm versus 58.4 months (95% CI 51.1, 65.0) in the placebo arm. For OS, the observed HR was 0.90 (95% CI 0.72, 1.13; p = 0.355) for lenalidomide versus placebo. The median overall survival time was 105.9 months (95% CI 88.8, NE) in the lenalidomide arm versus 88.1 months (95% CI 80.7, 108.4) in the placebo arm.
**Lenalidomide in combination with bortezomib and dexamethasone in patients who are not eligible for stem cell transplantation**

The SWOG S0777 study evaluated the addition of bortezomib to a foundation of lenalidomide and dexamethasone, as initial treatment, followed by continued Rd until disease progression, in patients with previously untreated multiple myeloma who are either ineligible for transplant or eligible for transplant with no plan to undertake immediate transplant.

Patients in the lenalidomide, bortezomib and dexamethasone (RVd) arm received lenalidomide 25 mg/day orally on days 1-14, intravenous bortezomib 1.3 mg/m² on days 1, 4, 8, and 11, and dexamethasone 20 mg/day orally on days 1, 2, 4, 5, 8, 9, 11, and 12 of repeated 21-day cycles for up to eight 21-day cycles (24 weeks). Patients in the lenalidomide and dexamethasone (Rd) arm received lenalidomide 25 mg/day orally on days 1-21, and dexamethasone 40 mg/day orally on days 1, 8, 15, and 22 of repeated 28-day cycles for up to six 28-day cycles (24 weeks). Patients in both arms took continued Rd: lenalidomide 25 mg/day orally on days 1-21 and dexamethasone 40 mg/day orally on days 1, 8, 15, and 22 of repeated 28-day cycles. Treatment was to be continued until disease progression.

The primary efficacy endpoint in the study was progression free survival (PFS). In total 523 patients were enrolled into the study, with 263 patients randomised to RVd and 260 patients randomised to Rd. The demographics and disease-related baseline characteristics of the patients were well balanced between arms.

The results of PFS, as assessed by IRAC, at the time of the primary analysis, using a cut-off of 05 November 2015 (50.6 months follow up) showed a 24% reduction in risk of disease progression or death favouring RVd (HR = 0.76; 95% CI 0.61, 0.94; p = 0.010). The median overall PFS was 42.5 months (95% CI 25.6, 54.8) in the RVd arm versus 29.9 months (95% CI 25.6, 38.2) in the Rd arm. The benefit was observed regardless of eligibility for stem cell transplant.

The results for the study, using a cut-off of 01 December 2016, where the median follow-up time for all surviving subjects was 69.0 months, are presented in Table 8. The benefit favouring RVd was observed regardless of eligibility for stem cell transplant.

<table>
<thead>
<tr>
<th>Table 8. Summary of overall efficacy data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial treatment</strong></td>
</tr>
<tr>
<td>RVd (3-week cycles × 8)</td>
</tr>
<tr>
<td>(N = 263)</td>
</tr>
<tr>
<td>Rd (4-week cycles × 6)</td>
</tr>
<tr>
<td>(N = 260)</td>
</tr>
<tr>
<td><strong>IRAC-assessed PFS (months)</strong></td>
</tr>
<tr>
<td>Median^a PFS time, months (95% CI)^b</td>
</tr>
<tr>
<td>HR [95% CI]; p-value^d</td>
</tr>
<tr>
<td>41.7 (33.1, 51.5)</td>
</tr>
<tr>
<td>0.76 (0.62, 0.94); 0.010</td>
</tr>
<tr>
<td><strong>Overall survival (months)</strong></td>
</tr>
<tr>
<td>Median^a OS time, months (95% CI)^b</td>
</tr>
<tr>
<td>HR [95% CI]; p-value^d</td>
</tr>
<tr>
<td>89.1 (76.1, NE)</td>
</tr>
<tr>
<td>0.72 (0.56, 0.94); 0.013</td>
</tr>
<tr>
<td><strong>Response – n (%)</strong></td>
</tr>
<tr>
<td>Overall response: CR, VGPR, or PR</td>
</tr>
<tr>
<td>≥ VGPR</td>
</tr>
<tr>
<td>199 (75.7)</td>
</tr>
<tr>
<td>153 (58.2)</td>
</tr>
<tr>
<td>170 (65.4)</td>
</tr>
<tr>
<td>83 (31.9)</td>
</tr>
<tr>
<td><strong>Follow-up (months)</strong></td>
</tr>
<tr>
<td>Median^e (min, max): all patients</td>
</tr>
<tr>
<td>61.6 (0.2, 99.4)</td>
</tr>
<tr>
<td>59.4 (0.4, 99.1)</td>
</tr>
</tbody>
</table>

CI = confidence interval; HR = hazard ratio; max = maximum; min = minimum; NE = not estimable; OS = overall survival; PFS = progression-free survival^a The median is based on Kaplan-Meier estimate.

^a Two-sided 95% CI about the median time.

^b Based on unstratified Cox proportional hazards model comparing hazard functions associated with treatment arms (RVd:Rd).

^c The p-value is based on unstratified log-rank test.

^d Median follow-up was calculated from the date of randomization.

Data cutoff date = 01 Dec 2016.

Updated OS results, using a cut-off of 01 May 2018 (84.2 months median follow-up for surviving subjects) continue to show an OS advantage favouring RVd: HR = 0.73 (95% CI 0.57, 0.94; p=0.014). The proportion of subjects alive after 7 years was 54.7% in the RVd arm versus 44.7% in the Rd arm.
Lenalidomide in combination with dexamethasone in patients who are not eligible for stem cell transplantation

The safety and efficacy of lenalidomide was assessed in a phase 3, multicentre, randomised, open-label, 3-arm study (MM-020) of patients who were at least 65 years of age or older or, if younger than 65 years of age, were not candidates for stem cell transplantation because they declined to undergo stem cell transplantation or stem cell transplantation is not available to the patient due to cost or other reason. The study (MM-020) compared lenalidomide and dexamethasone (Rd) given for 2 different durations of time (i.e., until progressive disease [Arm Rd] or for up to eighteen 28-day cycles [Arm Rd18]) to melphalan, prednisone and thalidomide (MPT) for a maximum of twelve 42-day cycles (72 weeks). Patients were randomised (1:1:1) to 1 of 3 treatment arms. Patients were stratified at randomisation by age (≤75 versus >75 years), stage (ISS Stages I and II versus Stage III), and country.

Patients in the Rd and Rd18 arms took lenalidomide 25 mg once daily on days 1 to 21 of 28-day cycles according to protocol arm. Dexamethasone 40 mg was dosed once daily on days 1, 8, 15, and 22 of each 28-day cycle. Initial dose and regimen for Rd and Rd18 were adjusted according to age and renal function (see section 4.2). Patients >75 years received a dexamethasone dose of 20 mg once daily on days 1, 8, 15, and 22 of each 28-day cycle. All patients received prophylactic anticoagulation (low molecular weight heparin, warfarin, heparin, low-dose aspirin) during the study.

The primary efficacy endpoint in the study was progression free survival (PFS). In total 1623 patients were enrolled into the study, with 535 patients randomised to Rd, 541 patients randomised to Rd18 and 547 patients randomised to MPT. The demographics and disease-related baseline characteristics of the patients were well balanced in all 3 arms. In general, study subjects had advanced-stage disease: of the total study population, 41% had ISS stage III, 9% had severe renal insufficiency (creatinine clearance [CLcr] < 30 mL/min). The median age was 73 in the 3 arms.

In an updated analysis of PFS, PFS2 and OS using a cut off of 3 March 2014 where the median follow-up time for all surviving subjects was 45.5 months, the results of the study are presented in Table 9.

Table 9. Summary of overall efficacy data

<table>
<thead>
<tr>
<th></th>
<th>Rd (N = 535)</th>
<th>Rd18 (N = 541)</th>
<th>MPT (N = 547)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Investigator-assessed PFS (months)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median PFS time, months (95% CI)</td>
<td>26.0 (20.7, 29.7)</td>
<td>21.0 (19.7, 22.4)</td>
<td>21.9 (19.8, 23.9)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value&lt;sup&gt;d&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd vs MPT</td>
<td>0.69 (0.59, 0.80); &lt;0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd vs Rd18</td>
<td>0.71 (0.61, 0.83); &lt;0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd18 vs MPT</td>
<td>0.99 (0.86, 1.14); 0.866</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PFS2 (months)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median PFS2 time, months (95% CI)</td>
<td>42.9 (38.1, 47.4)</td>
<td>40.0 (36.2, 44.2)</td>
<td>35.0 (30.4, 37.8)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value&lt;sup&gt;d&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd vs MPT</td>
<td>0.74 (0.63, 0.86); &lt;0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd vs Rd18</td>
<td>0.92 (0.78, 1.08); 0.316</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd18 vs MPT</td>
<td>0.80 (0.69, 0.93); 0.004</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Overall survival (months)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median OS time, months (95% CI)</td>
<td>58.9 (56.0, NE)</td>
<td>56.7 (50.1, NE)</td>
<td>48.5 (44.2, 52.0)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value&lt;sup&gt;d&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd vs MPT</td>
<td>0.75 (0.62, 0.90); 0.002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd vs Rd18</td>
<td>0.91 (0.75, 1.09); 0.305</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rd18 vs MPT</td>
<td>0.83 (0.69, 0.99); 0.034</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Follow-up (months)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median (min, max): all patients</td>
<td>40.8 (0.0, 65.9)</td>
<td>40.1 (0.4, 65.7)</td>
<td>38.7 (0.0, 64.2)</td>
</tr>
<tr>
<td><strong>Myeloma response &lt;sup&gt;e&lt;/sup&gt; (%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>81 (15.1)</td>
<td>77 (14.2)</td>
<td>51 (9.3)</td>
</tr>
<tr>
<td>VGPR</td>
<td>152 (28.4)</td>
<td>154 (28.5)</td>
<td>103 (18.8)</td>
</tr>
<tr>
<td>PR</td>
<td>169 (31.6)</td>
<td>166 (30.7)</td>
<td>187 (34.2)</td>
</tr>
</tbody>
</table>
Lenalidomide in combination with melphalan and prednisone followed by maintenance therapy in patients who are not eligible for transplant

The safety and efficacy of lenalidomide was assessed in a phase 3 multicentre, randomised double blind 3 arm study (MM-015) of patients who were 65 years or older and had a serum creatinine < 2.5 mg/dL. The study compared lenalidomide in combination with melphalan and prednisone (MPR) with or without lenalidomide maintenance therapy until disease progression, to that of melphalan and prednisone for a maximum of 9 cycles. Patients were randomised in a 1:1:1 ratio to one of 3 treatment arms. Patients were stratified at randomisation by age (≤ 75 vs. > 75 years) and stage (ISS; Stages I and II vs. stage III).

This study investigated the use of combination therapy of MPR (melphalan 0.18 mg/kg orally on days 1 to 4 of repeated 28-day cycles; prednisone 2 mg/kg orally on days 1 to 4 of repeated 28-day cycles; and lenalidomide 10 mg/day orally on days 1 to 21 of repeated 28-day cycles) for induction therapy, up to 9 cycles. Patients who completed 9 cycles or who were unable to complete 9 cycles due to intolerance proceeded to maintenance therapy starting with lenalidomide 10 mg orally on days 1 to 21 of repeated 28-day cycles until disease progression.

The primary efficacy endpoint in the study was progression free survival (PFS). In total 459 patients were enrolled into the study, with 152 patients randomised to MPR+R, 153 patients randomised to MPR+p and 154 patients randomised to MPP+p. The demographics and disease-related baseline characteristics of the patients were well balanced in all 3 arms; notably, approximately 50% of the patients enrolled in each arm had the following characteristics; ISS Stage III, and creatinine clearance < 60 mL/min. The median age was 71 in the MPR+R and MPR+p arms and 72 in the MPp+p arm.

In an analysis of PFS, PFS2, OS using a cut-off of April 2013 where the median follow up time for all surviving subjects was 62.4 months, the results of the study are presented in Table 10.

### Table 10. Summary of overall efficacy data

<table>
<thead>
<tr>
<th>Investigator-assessed PFS (months)</th>
<th>MPR+R (N = 152)</th>
<th>MPR+p (N = 153)</th>
<th>MPP+p (N = 154)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median² PFS time, months (95% CI)</td>
<td>27.4 (21.3, 35.0)</td>
<td>14.3 (13.2, 15.7)</td>
<td>13.1 (12.0, 14.8)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPR+R vs MPP+p</td>
<td>0.37 (0.27, 0.50); &lt;0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPR+R vs MPR+p</td>
<td>0.47 (0.35, 0.65); &lt;0.001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPR+p vs MPP+p</td>
<td>0.78 (0.60, 1.01); 0.059</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFS2 (months)²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median² PFS2 time, months (95% CI)</td>
<td>39.7 (29.2, 48.4)</td>
<td>27.8 (23.1, 33.1)</td>
<td>28.8 (24.3, 33.8)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPR+R vs MPP+p</td>
<td>0.70 (0.54, 0.92); 0.009</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MPR+R (N = 152)</td>
<td>MPR+p (N = 153)</td>
<td>MPp +p (N = 154)</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------</td>
<td>---------------</td>
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</tr>
<tr>
<td>Overall survival (months)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median OS time, months (95% CI)</td>
<td>55.9 (49.1, 67.5)</td>
<td>51.9 (43.1, 60.6)</td>
<td>53.9 (47.3, 64.2)</td>
</tr>
<tr>
<td>HR [95% CI]; p-value</td>
<td>0.77 (0.59, 1.02); 0.065</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Follow-up (months)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median (min, max): all patients</td>
<td>48.4 (0.8, 73.8)</td>
<td>46.3 (0.5, 71.9)</td>
<td>50.4 (0.5, 73.3)</td>
</tr>
</tbody>
</table>

**Investigator-assessed Myeloma response n (%)**

| CR      | 30 (19.7) | 17 (11.1) | 9 (5.8) |
| Stable Disease (SD) | 90 (59.2) | 99 (64.7) | 75 (48.7) |
| Response Not Evaluable (NE) | 24 (15.8) | 31 (20.3) | 63 (40.9) |

**Investigator-assessed Duration of response (CR+PR) – (months)**

| CR+PR | 26.5 (19.4, 35.8) | 12.4 (11.2, 13.9) | 12.0 (9.4, 14.5) |

CI = confidence interval; CR = complete response; HR = Hazard Rate; M = melphalan; NE = not estimable; OS = overall survival; p = placebo; P = prednisone;
PD = progressive disease; PR = partial response; R = lenalidomide; SD = stable disease; VGPR = very good partial response.

* The median is based on the Kaplan-Meier estimate

*PFS2 (an exploratory endpoint) was defined for all patients (ITT) as time from randomisation to start of 3rd line antimyeloma therapy (AMT) or death for all randomised patients

**Supportive newly diagnosed multiple myeloma studies**

An open-label, randomised, multicentre, phase 3 study (ECOG E4A03) was conducted in 445 patients with newly diagnosed multiple myeloma; 222 patients were randomised to the lenalidomide/low dose dexamethasone arm, and 223 were randomised to the lenalidomide/standard dose dexamethasone arm. Patients randomised to the lenalidomide/standard dose dexamethasone arm received lenalidomide 25 mg/day, days 1 to 21 every 28 days plus dexamethasone 40 mg/day on days 1 to 4, 9 to 12, and 17 to 20 every 28 days for the first four cycles. Patients randomised to the lenalidomide/low dose dexamethasone arm received lenalidomide 25 mg/day, days 1 to 21 every 28 days plus low dose dexamethasone – 40 mg/day on days 1, 8, 15, and 22 every 28 days. In the lenalidomide/low dose dexamethasone group, 20 patients (9.1%) underwent at least one dose interruption compared to 65 patients (29.3%) in the lenalidomide/standard dose dexamethasone arm.

In a post-hoc analysis, lower mortality was observed in the lenalidomide/low dose dexamethasone arm 6.8% (15/220) compared to the lenalidomide/standard dose dexamethasone arm 19.3% (43/223), in the newly diagnosed multiple myeloma patient population, with a median follow up of 72.3 weeks.

However, with a longer follow-up, the difference in overall survival in favour of lenalidomide/low dose dexamethasone tends to decrease.

**Multiple myeloma with at least one prior therapy**

The efficacy and safety of lenalidomide were evaluated in two phase 3 multi-centre, randomised, double-blind, placebo-controlled, parallel-group controlled studies (MM-009 and MM-010) of lenalidomide plus dexamethasone therapy versus dexamethasone alone in previously treated patients with multiple myeloma. Out of 353 patients in the MM-009 and MM-010 studies who received lenalidomide/dexamethasone, 45.6% were aged 65 or over. Of the 704 patients evaluated in the MM-009 and MM-010 studies, 44.6% were aged 65 or over.

In both studies, patients in the lenalidomide/dexamethasone (len/dex) group took 25 mg of lenalidomide orally once daily on days 1 to 21 and a matching placebo capsule once daily on days 22 to 28 of each 28-day cycle. Patients in the placebo/dexamethasone (placebo/dex) group took 1 placebo capsule on days 1 to 28 of each 28-day cycle. Patients in both treatment groups took 40 mg of dexamethasone orally once daily on days 1 to 4, 9 to 12, and 17 to 20 of each 28-day cycle for the first 4 cycles of therapy. The dose of dexamethasone was

CI = confidence interval; CR = complete response; HR = Hazard Rate; M = melphalan; NE = not estimable; OS = overall survival; p = placebo; P = prednisone;
PD = progressive disease; PR = partial response; R = lenalidomide; SD = stable disease; VGPR = very good partial response.
reduced to 40 mg orally once daily on days 1 to 4 of each 28-day cycle after the first 4 cycles of therapy. In both studies, treatment was to continue until disease progression. In both studies, dose adjustments were allowed based on clinical and laboratory finding.

The primary efficacy endpoint in both studies was time to progression (TTP). In total, 353 patients were evaluated in the MM-009 study; 177 in the len/dex group and 176 in the placebo/dex group and, in total, 351 patients were evaluated in the MM-010 study; 176 in the len/dex group and 175 in the placebo/dex group.

In both studies, the baseline demographic and disease-related characteristics were comparable between the len/dex and placebo/dex groups. Both patient populations presented a median age of 63 years, with a comparable male to female ratio. The ECOG performance status was comparable between both groups, as was the number and type of prior therapies.

Pre-planned interim analyses of both studies showed that len/dex was statistically significantly superior (p < 0.00001) to dexamethasone alone for the primary efficacy endpoint, TTP (median follow-up duration of 98.0 weeks). Complete response and overall response rates in the len/dex arm were also significantly higher than the placebo/dex arm in both studies. Results of these analyses subsequently led to an unblinding in both studies, in order to allow patients in the placebo/dex group to receive treatment with the len/dex combination.

An extended follow-up efficacy analysis was conducted with a median follow-up of 130.7 weeks. Table 11 summarises the results of the follow-up efficacy analyses — pooled studies MM-009 and MM-010.

In this pooled extended follow-up analysis, the median TTP was 60.1 weeks (95% CI: 44.3, 73.1) in patients treated with len/dex (N = 353) versus 20.1 weeks (95% CI: 17.7, 20.3) in patients treated with placebo/dex (N = 351). The median progression free survival was 48.1 weeks (95% CI: 36.4, 62.1) in patients treated with len/dex versus 20.0 weeks (95% CI: 16.1, 20.1) in patients treated with placebo/dex. The median duration of treatment was 44.0 weeks (min: 0.1, max: 254.9) for len/dex and 23.1 weeks (min: 0.3, max: 238.1) for placebo/dex. Complete response (CR), partial response (PR) and overall response (CR+PR) rates in the len/dex arm remain significantly higher than in the placebo/dex arm in both studies. The median overall survival in the extended follow-up analysis of the pooled studies is 164.3 weeks (95% CI: 145.1, 192.6) in patients treated with len/dex versus 136.4 weeks (95% CI: 113.1, 161.7) in patients treated with placebo/dex. Despite the fact that 170 out of the 351 patients randomised to placebo/dex received lenalidomide after disease progression or after the studies were unblinded, the pooled analysis of overall survival demonstrated a statistically significant survival advantage for len/dex relative to placebo/dex (HR = 0.833, 95% CI = [0.687, 1.009], p=0.045).

Table 11. Summary of results of efficacy analyses as of cut-off date for extended follow-up — pooled studies MM-009 and MM-010 (cut-offs 23 July 2008 and 2 March 2008, respectively)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>len/dex (N=353)</th>
<th>placebo/dex(N=351)</th>
<th>HR [95% CI], p-value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time to event</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time to progression</td>
<td>60.1 [44.3, 73.1]</td>
<td>20.1 [17.7, 20.3]</td>
<td>0.350 [0.287, 0.426], p &lt; 0.001</td>
</tr>
<tr>
<td>Progression free survival</td>
<td>48.1 [36.4, 62.1]</td>
<td>20.0 [16.1, 20.1]</td>
<td>0.393 [0.326, 0.473], p &lt; 0.001</td>
</tr>
<tr>
<td>Overall survival</td>
<td>164.3 [145.1, 192.6]</td>
<td>136.4 [113.1, 161.7]</td>
<td>0.833 [0.687, 1.009], p = 0.045</td>
</tr>
<tr>
<td>1-year Overall survival rate</td>
<td>82%</td>
<td>75%</td>
<td></td>
</tr>
<tr>
<td>Response rate</td>
<td>212 (60.1)</td>
<td>75 (21.4)</td>
<td>5.53 [3.97, 7.71], p &lt; 0.001</td>
</tr>
<tr>
<td>Complete response</td>
<td>58 (16.4)</td>
<td>11 (3.1)</td>
<td>6.08 [3.13, 11.80], p &lt; 0.001</td>
</tr>
</tbody>
</table>

Myelodysplastic syndromes
The efficacy and safety of lenalidomide were evaluated in patients with transfusion-dependent anaemia due to low- or intermediate-1-risk myelodysplastic syndromes associated with a deletion 5q cytogenetic abnormality, or with or without additional cytogenetic abnormalities, in two main studies: a phase 3, multicentre, randomised, double-blind, placebo-controlled, 3-arm study of two doses of oral lenalidomide
(10 mg and 5 mg) versus placebo (MDS-004); and a phase 2, a multicentre, single-arm, open-label study of lenalidomide (10 mg) (MDS-003).

The results presented below represent the intent-to-treat population studied in MDS-003 and MDS-004; with the results in the isolated Del (5q) sub-population also shown separately.

In study MDS-004, in which 205 patients were equally randomised to receive lenalidomide 10 mg, 5 mg or placebo, the primary efficacy analysis consisted of a comparison of the transfusion-independence response rates of the 10 mg and 5 mg lenalidomide arms versus the placebo arm (double-blind phase 16 to 52 weeks and open-label up to a total of 156 weeks). Patients who did not have evidence of at least a minor erythroid response after 16 weeks were to be discontinued from treatment. Patients who had evidence of at least a minor erythroid response could continue therapy until erythroid relapse, disease progression or unacceptable toxicity. Patients, who initially received placebo or 5 mg lenalidomide and did not achieve at least a minor erythroid response after 16 weeks of treatment were permitted to switch from placebo to 5 mg lenalidomide or continue lenalidomide treatment at higher dose (5 mg to 10 mg).

In study MDS-003, in which 148 patients received lenalidomide at a dose of 10 mg, the primary efficacy analysis consisted of an evaluation of the efficacy of lenalidomide treatments to achieve haematopoietic improvement in subjects with low- or intermediate-1 risk myelodysplastic syndromes.

### Table 12. Summary of efficacy results – studies MDS-004 (double-blind phase) and MDS-003, intent- to-treat population

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>MDS-004 N = 205</th>
<th>MDS-003 N = 148</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10 mg† N = 69</td>
<td>5 mg†† N = 69</td>
</tr>
<tr>
<td>Transfusion Independence (≥ 182 days)*</td>
<td>38 (55.1%)</td>
<td>24 (34.8%)</td>
</tr>
<tr>
<td>Transfusion Independence (≥ 56 days)*</td>
<td>42 (60.9%)</td>
<td>33 (47.8%)</td>
</tr>
<tr>
<td>Median Time to Transfusion Independence (weeks)</td>
<td>4.6</td>
<td>4.1</td>
</tr>
<tr>
<td>Median Duration of Transfusion Independence (weeks)</td>
<td>NR*</td>
<td>NR</td>
</tr>
<tr>
<td>Median Increase in Hgb, g/dL</td>
<td>6.4</td>
<td>5.3</td>
</tr>
</tbody>
</table>

† Subjects treated with lenalidomide 10 mg on 21 days of 28-day cycles
†† Subjects treated with lenalidomide 5 mg on 28 days of 28-day cycles
* The majority of patients on placebo discontinued the double-blind treatment for lack of efficacy after 16 weeks of treatment before entering the open-label phase
* Associated with an increase in Hgb of ≥ 1 g/dL
* Not reached (i.e. the median was not reached)

In MDS-004, a significant larger proportion of patients with myelodysplastic syndromes achieved the primary endpoint of transfusion independence (>182 days) on lenalidomide 10 mg compared with placebo (55.1% vs. 6.0%). Amongst the 47 patients with an isolated Del (5q) cytogenetic abnormality and treated with lenalidomide 10 mg, 27 patients (57.4%) achieved red blood cell transfusion independence.

The median time to transfusion independence in the lenalidomide 10 mg arm was 4.6 weeks. The median duration of transfusion independence was not reached in any of the treatment arms but should exceed 2 years for the lenalidomide-treated subjects. The median increase in haemoglobin (Hgb) from baseline in the 10 mg arm was 6.4 g/dL.

Additional endpoints of the study included cytogenetic response (in the 10 mg arm major and minor cytogenetic responses were observed in 30.0% and 24.0% of subjects, respectively), assessment of Health-Related Quality of Life (HRQoL) and progression to acute myeloid leukaemia. Results of the cytogenetic response and HRQoL were consistent with the findings of the primary endpoint and in favour of lenalidomide treatment compared to placebo.
In MDS-003, a large proportion of patients with myelodysplastic syndromes achieved transfusion independence (>182 days) on lenalidomide 10 mg (58.1%). The median time to transfusion independence was 4.1 weeks. The median duration of transfusion independence was 114.4 weeks. The median increase in haemoglobin (Hgb) was 5.6 g/dL. Major and minor cytogenetic responses were observed in 40.9% and 30.7% of subjects, respectively.

A large proportion of subjects enrolled in MDS-003 (72.9%) and MDS-004 (52.7%) had received prior erythropoiesis-stimulating agents.

**Mantle cell lymphoma**

The efficacy and safety of lenalidomide were evaluated in patients with mantle cell lymphoma in a phase 2, multicentre, randomised open-label study versus single agent of investigator’s choice in patients who were refractory to their last regimen or had relapsed one to three times (study MCL-002). Patients who were at least 18 years of age with histologically-proven MCL and CT-measurable disease were enrolled. Patients were required to have received adequate previous treatment with at least one prior combination chemotherapy regimen. Also, patients had to be ineligible for intensive chemotherapy and/or transplant at time of inclusion in the study. Patients were randomised 2:1 to the lenalidomide or the control arm. The investigator’s choice treatment was selected before randomisation and consisted of monotherapy with either chlorambucil, cytarabine, rituximab, fludarabine, or gemcitabine.

Lenalidomide was administered orally 25 mg once daily for the first 21 days (D1 to D21) of repeating 28-day cycles until progression or unacceptable toxicity. Patients with moderate renal insufficiency were to receive a lower starting dose of lenalidomide 10 mg daily on the same schedule.

The baseline demographic were comparable between the lenalidomide arm and control arm. Both patient populations presented a median age of 68.5 years with comparable male to female ratio. The ECOG performance status was comparable between both groups, as was the number of prior therapies.

The primary efficacy endpoint in study MCL-002 was progression-free survival (PFS).

The efficacy results for the Intent-to-Treat (ITT) population were assessed by the Independent Review Committee (IRC), and are presented in Table 13 below.
In Cycle 1 (days 1, 8, 15, and 22) and on day 1 of every 28 cycles for 12 cycles or until unacceptable toxicity. The dose of rituximab was 375 mg/m² every week in Cycle 1 (days 1, 8, 15, and 22) and on day 1 of every 28-day cycle from cycles 2 through 5. All patients had been previously treated with at least one prior systemic chemotherapy, immunotherapy or chemoimmunotherapy.

Table 13. Summary of efficacy results – study MCL-002, intent-to-treat population

<table>
<thead>
<tr>
<th>Measure</th>
<th>Lenalidomide Arm</th>
<th>Control Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFS, median[95% CI][b] (weeks)</td>
<td>37.6 [24.0, 52.6]</td>
<td>22.7 [15.9, 30.1]</td>
</tr>
<tr>
<td>Sequential HR [95% CI][c]</td>
<td>0.61 [0.44, 0.84]</td>
<td></td>
</tr>
<tr>
<td>Sequential log-rank test, p-value[e]</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>Response, n (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete response (CR)</td>
<td>8 (4.7)</td>
<td>0 (0.0)</td>
</tr>
<tr>
<td>Partial response (PR)</td>
<td>60 (35.3)</td>
<td>9 (10.7)</td>
</tr>
<tr>
<td>Stable disease (SD)[b]</td>
<td>50 (29.4)</td>
<td>44 (52.4)</td>
</tr>
<tr>
<td>Progressive disease (PD)</td>
<td>34 (20.0)</td>
<td>26 (31.0)</td>
</tr>
<tr>
<td>Not done/Missing</td>
<td>18 (10.6)</td>
<td>5 (6.0)</td>
</tr>
<tr>
<td>ORR (CR, CRu, PR), n (%) [95% CI][c]</td>
<td>68 (40.0) [32.58, 47.78]</td>
<td>9 (10.7)[d] [5.02, 19.37]</td>
</tr>
<tr>
<td>p-value[e]</td>
<td>&lt; 0.001</td>
<td></td>
</tr>
<tr>
<td>CRR (CR, CRu), n (%) [95% CI][c]</td>
<td>8 (4.7) [2.05, 9.06]</td>
<td>0 (0.0) [95.70, 100.00]</td>
</tr>
<tr>
<td>p-value[e]</td>
<td>0.043</td>
<td></td>
</tr>
<tr>
<td>Duration of Response, median[95% CI] (weeks)</td>
<td>69.6 [41.1, 86.7]</td>
<td>45.1 [36.3, 80.9]</td>
</tr>
<tr>
<td>Overall Survival</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HR [95% CI][f]</td>
<td>0.89 [0.62, 1.28]</td>
<td></td>
</tr>
<tr>
<td>Log-rank test, p-value</td>
<td>0.520</td>
<td></td>
</tr>
</tbody>
</table>

CI = confidence interval; CRR = complete response rate; CR = complete response; CRu = complete response unconfirmed; DMC = Data Monitoring Committee; ITT = intent-to-treat; HR = hazard ratio; KM = Kaplan-Meier; MIPI = Mantle Cell Lymphoma International Prognostic Index; NA = not applicable; ORR = overall response rate; PD = progressive disease; PFS = progression-free survival; PR = partial response; SCT = stem cell transplantation; SD = stable disease; SE = standard error.

a The median was based on the KM estimate.

b Range was calculated as 95% CIs about the median survival time.

c The mean and median are the univariate statistics without adjusting for censoring.

d The stratification variables included time from diagnosis to first dose (< 3 years and ≥ 3 years), time from last prior systemic anti-lymphoma therapy to first dose (< 6 months and ≥ 6 months), prior SCT (yes or no), and MIPI at baseline (low, intermediate, and high risk).

e Sequential test was based on a weighted mean of a log-rank test statistic using the unstratified log-rank test for sample size increase and the unstratified log-rank test of the primary analysis. The weights are based on observed events at the time the third DMC meeting was held and based on the difference between observed and expected events at the time of the primary analysis. The associated sequential HR and the corresponding 95% CI are presented.

In study MCL-002 in the ITT population, there was an overall apparent increase in deaths within 20 weeks in the lenalidomide arm 22/170 (13%) versus 6/84 (7%) in the control arm. In patients with high tumour burden, corresponding figures were 16/81 (20%) and 2/28 (7%) (see section 4.4).

**Follicular lymphoma**

**AUGMENT - CC-5013-NHL-007**
The efficacy and safety of lenalidomide in combination with rituximab versus rituximab plus placebo was evaluated in patients with relapsed/refractory iNHL including FL in a phase 3, multicentre, randomised, double-blind controlled study (CC-5013-NHL-007 [AUGMENT]).

A total of 358 patients who were at least 18 years of age with histologically confirmed MZL or Grade 1, 2 or 3a FL (CD20+ by flow cytometry or histochemistry) as assessed by the investigator or local pathologist were randomised in a 1:1 ratio. Subjects had been previously treated with at least one prior systemic chemotherapy, immunotherapy or chemoimmunotherapy.

Lenalidomide was administered orally 20 mg once daily for the first 21 days of repeating 28-day cycles for 12 cycles or until unacceptable toxicity. The dose of rituximab was 375 mg/m² every week in Cycle 1 (days 1, 8, 15, and 22) and on day 1 of every 28-day cycle from cycles 2 through 5. All
dosage calculations for rituximab were based on the patient’s body surface area (BSA), using actual patient weight.

The demographic and disease-related baseline characteristics were similar across the 2 treatment groups.

The primary objective of the study was to compare the efficacy of lenalidomide in combination with rituximab to rituximab plus placebo in subjects with relapsed/refractory FL Grade 1, 2 or 3a or MZL. Efficacy determination was based upon PFS as the primary endpoint, as assessed by the IRC using the 2007 International Working Group (IWG) criteria but without positron emission tomography (PET).

The secondary objectives of the study were to compare the safety of lenalidomide in combination with rituximab versus rituximab plus placebo. Further secondary objectives were to compare the efficacy of rituximab plus lenalidomide versus rituximab plus placebo using the following other parameters of efficacy:
Overall response rate (ORR), CR rate, and duration of response (DoR) by IWG 2007 without PET and OS.

Results from the overall population including FL and MZL showed that at a median follow up of 28.3 months, the study met its primary endpoint of PFS with a hazard ratio (HR) (95% confidence interval [CI]) of 0.45 (0.33,0.61) p-value < 0.0001. The efficacy results from the follicular lymphoma population are presented in Table 14.

Table 14: Summary of follicular lymphoma efficacy data- Study CC-5013-NHL-007

<table>
<thead>
<tr>
<th></th>
<th>FL (N = 295)</th>
<th>Lenalidomide and Rituximab (N = 147)</th>
<th>Placebo and Rituximab (N = 148)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Progression-free survival (PFS) (EMA Censoring Rules)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median PFS a (95% CI) (months)</td>
<td>39.4 (25.1, NE)</td>
<td>13.8 (11.2, 16.0)</td>
<td></td>
</tr>
<tr>
<td>HR [95% CI]</td>
<td>0.40 (0.29, 0.55) b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p-value</td>
<td>&lt; 0.0001 c</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective response</strong>d (CR +PR), n (%) (IRC, 2007 IWGRC)</td>
<td>118 (80.3) (72.9, 86.4)</td>
<td>82 (55.4) (47.0, 63.6)</td>
<td></td>
</tr>
<tr>
<td><strong>Complete response</strong>d, n (%) (IRC, 2007 IWGRC)</td>
<td>51 (34.7) (27.0, 43.0)</td>
<td>29 (19.6) (13.5, 26.9)</td>
<td></td>
</tr>
<tr>
<td><strong>Duration of response</strong>d (median) (months) 95% CI a</td>
<td>36.6 (24.9, NE)</td>
<td>15.5 (11.2, 25.0)</td>
<td></td>
</tr>
<tr>
<td><strong>Overall Survival</strong>d,e (OS)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OS rate at 5 years, n (%) 95% CI</td>
<td>126 (85.9) (78.6, 90.9)</td>
<td>114 (77.0) (68.9, 83.3)</td>
<td></td>
</tr>
<tr>
<td>HR [95% CI]</td>
<td>0.49 (0.28, 0.85) b</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Follow-up</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median duration of follow-up (min, max) (months)</td>
<td>67.81 (0.5, 89.3)</td>
<td>65.72 (0.6, 90.9)</td>
<td></td>
</tr>
</tbody>
</table>

*a Median estimate from Kaplan-Meier analysis
Hazard ratio and its confidence interval were estimated from unstratified Cox proportional hazard model.
P-value from log-rank test
Secondary and exploratory endpoints are not α-controlled
With a median follow up of 66.14 months, there were 19 deaths in the R² arm and 38 deaths in the Control Arm.
Exact confidence interval for binomial distribution.

**Follicular lymphoma for patients refractory to Rituximab**
MAGNIFY - CC-5013-NHL-008

A total of 232 subjects who were at least 18 years of age with histologically confirmed FL (Grade 1, 2, 3a or MZL), as assessed by the investigator or local pathologist, were enrolled into the initial treatment period with 12 cycles of lenalidomide plus rituximab. Subjects who achieved CR/CRu, PR, or SD by the end of the induction treatment period were randomised to enter the maintenance treatment period. All enrolled subjects must have previously been treated with at least one prior systemic antilymphoma therapy. In contrast to study NHL-007, the NHL-008 study included patients who were refractory to rituximab (no response or relapsed within 6 months of rituximab treatment or who were double-refractory to rituximab and chemotherapy).

During the induction treatment period, lenalidomide 20 mg was given on Days 1-21 of repeated 28-day cycles for up to 12 cycles or until unacceptable toxicity, or withdrawal of consent or disease progression. The dose of rituximab was 375 mg/m² every week in Cycle 1 (Days 1, 8, 15, and 22) and on Day 1 of every other 28-day cycle (cycles 3, 5, 7, 9, and 11) up to 12 cycles therapy. All dosage calculations for rituximab were based on the patient body surface area (BSA) and actual weight.

The data presented are based on an interim analysis focusing on the single-arm induction treatment period. Efficacy determinations are based on ORR by best response as the primary endpoint, using a modification of the 1999 International Working Group Response Criteria (IWGRC). The secondary objective was to evaluate other parameters of efficacy, such as DoR.

**Table 15: Summary of overall efficacy data (InductionTreatment Period) - Study CC-5013-NHL-008**

<table>
<thead>
<tr>
<th></th>
<th>All Subjects</th>
<th>FL Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total N=187</td>
<td>Rituximab Refractory: Yes N=77</td>
</tr>
<tr>
<td>ORR, n (%) (CR+CRu+PR)</td>
<td>127 (67.9)</td>
<td>45 (58.4)</td>
</tr>
<tr>
<td>CRR, n (%) (CR+Cr)</td>
<td>79 (42.2)</td>
<td>27 (35.1)</td>
</tr>
<tr>
<td>% of Subjects with DoR b ≥ 6 months (95% CI)</td>
<td>93.0 (85.1, 96.8)</td>
<td>90.4 (73.0, 96.8)</td>
</tr>
<tr>
<td>% of Subjects with DoR b ≥ 12 months (95% CI)</td>
<td>79.1 (67.4, 87.0)</td>
<td>73.3 (51.2, 86.6)</td>
</tr>
</tbody>
</table>

CI = confidence interval; DOR = duration of response; FL = follicular lymphoma
Primary Analysis Population for this study is induction efficacy evaluable (IEE) population.
Duration of response is defined as the time (months) from the initial response (at least PR) to documented disease progression or death, whichever occurs first.
Statistics obtained from Kaplan-Meier method. 95% CI is based on Greenwood formula.
Notes: The analysis is only performed for subjects who have achieved PR or better after the first dose date of induction therapy and prior to any Maintenance Period treatment and any subsequent anti-lymphoma therapy in Induction Period. Percentage is based on the total number of responders.

**Paediatric population**
The European Medicines Agency (EMA) has granted a product-specific waiver for Lenalidomide Accord that applies to all subsets of the paediatric population for mature B-cell neoplasm conditions., (see section 4.2 for information on paediatric use).

### 5.2 Pharmacokinetic properties

Lenalidomide has an asymmetric carbon atom and can therefore exist as the optically active forms S(-) and R(+). Lenalidomide is produced as a racemic mixture. Lenalidomide is generally more soluble in organic solvents but exhibits the greatest solubility in 0.1N HCl buffer.

**Absorption**
Lenalidomide is rapidly absorbed following oral administration in healthy volunteers, under fasting conditions, with maximum plasma concentrations occurring between 0.5 and 2 hours post-dose. In patients, as well as in healthy volunteers, the maximum concentration (C_max) and area-under-the-concentration time curve (AUC) increase proportionally with increases in dose. Multiple dosing does not cause marked medicinal product accumulation. In plasma, the relative exposures of the S- and R-enantiomers of lenalidomide are approximately 56% and 44%, respectively.

Co-administration with a high-fat and high-calorie meal in healthy volunteers reduces the extent of absorption, resulting in an approximately 20% decrease in area under the concentration versus time curve (AUC) and 50% decrease in C_max in plasma. However, in the main multiple myeloma and myelodysplastic syndromes registration trials where the efficacy and safety were established for lenalidomide, the medicinal product was administered without regard to food intake. Thus, lenalidomide can be administered with or without food.

Population pharmacokinetic analyses indicate that the oral absorption rate of lenalidomide is similar among MM, MDS and MCL patients.

**Distribution**
*In vitro* (14C)-lenalidomide binding to plasma proteins was low with mean plasma protein binding at 23% and 29% in multiple myeloma patients and healthy volunteers, respectively.

Lenalidomide is present in human semen (< 0.01% of the dose) after administration of 25 mg/day and the medicinal product is undetectable in semen of a healthy subject 3 days after stopping the substance (see section 4.4).

**Biotransformation and elimination**
Results from human *in vitro* metabolism studies indicate that lenalidomide is not metabolised by cytochrome P450 enzymes suggesting that administration of lenalidomide with medicinal products that inhibit cytochrome P450 enzymes is not likely to result in metabolic medicinal product interactions in humans. *In vitro* studies indicate that lenalidomide has no inhibitory effect on CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP2E1, CYP3A, or UGT1A1. Therefore, lenalidomide is unlikely to cause any clinically relevant medicinal product interactions when co-administered with substrates of these enzymes.

*In vitro* studies indicate that lenalidomide is not a substrate of human breast cancer resistance protein (BCRP), multidrug resistance protein (MRP) transporters MRP1, MRP2, or MRP3, organic anion transporters (OAT) OAT1 and OAT3, organic anion transporting polypeptide 1B1 (OATP1B1), organic cation transporters (OCT) OCT1 and OCT2, multidrug and toxin extrusion protein (MATE) MATE1, and organic cation transporters novel (OCTN) OCTN1 and OCTN2.
**In vitro** studies indicate that lenalidomide has no inhibitory effect on human bile salt export pump (BSEP), BCRP, MRP2, OAT1, OAT3, OATP1B1, OATP1B3, and OCT2.

A majority of lenalidomide is eliminated through urinary excretion. The contribution of renal excretion to total clearance in subjects with normal renal function was 90%, with 4% of lenalidomide eliminated in faeces.

Lenalidomide is poorly metabolized as 82% of the dose is excreted unchanged in urine. Hydroxylenalidomide and N-acetyl-lenalidomide represent 4.59% and 1.83% of the excreted dose, respectively. The renal clearance of lenalidomide exceeds the glomerular filtration rate and therefore is at least actively secreted to some extent.

At doses of 5 to 25 mg/day, half-life in plasma is approximately 3 hours in healthy volunteers and ranges from 3 to 5 hours in patients with multiple myeloma, myelodysplastic syndromes or mantle cell lymphoma.

**Older people**
No dedicated clinical studies have been conducted to evaluate pharmacokinetics of lenalidomide in the elderly. Population pharmacokinetic analyses included patients with ages ranging from 39 to 85 years old and indicate that age does not influence lenalidomide clearance (exposure in plasma). Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection and it would be prudent to monitor renal function.

**Renal impairment**
The pharmacokinetics of lenalidomide was studied in subjects with renal impairment due to nonmalignant conditions. In this study, two methods were used to classify renal function: the urinary creatinine clearance measured over 24 hours and the creatinine clearance estimated by Cockcroft-Gault formula. The results indicate that as renal function decreases (< 50 mL/min), the total lenalidomide clearance decreases proportionally resulting in an increase in AUC. The AUC was increased by approximately 2.5, 4 and 5-fold in subjects with moderate renal impairment, severe renal impairment, and end-stage renal disease, respectively, compared to the group combining subjects with normal renal function and subjects with mild renal impairment. The half-life of lenalidomide increased from approximately 3.5 hours in subjects with creatinine clearance > 50 mL/min to more than 9 hours in subjects with reduced renal function < 50 mL/min. However, renal impairment did not alter the oral absorption of lenalidomide. The Cmax was similar between healthy subjects and patients with renal impairment. Approximately 30% of the medicinal product in the body was removed during a single 4-hour dialysis session. Recommended dose adjustments in patients with impaired renal function are described in section 4.2.

**Hepatic impairment**
Population pharmacokinetic analyses included patients with mild hepatic impairment (N=16, total bilirubin >1 to ≤1.5 x ULN or AST > ULN) and indicate that mild hepatic impairment does not influence lenalidomide clearance (exposure in plasma). There are no data available for patients with moderate to severe hepatic impairment.

**Other intrinsic factors**
Population pharmacokinetic analyses indicate that body weight (33-135 kg), gender, race and type of haematological malignancy (MM, MDS or MCL) do not have a clinically relevant effect on lenalidomide clearance in adult patients.

5.3 **Preclinical safety data**
An embryofoetal development study has been conducted in monkeys administered lenalidomide at doses from 0.5 and up to 4 mg/kg/day. Findings from this study indicate that lenalidomide produced external malformations including non-patent anus and malformations of upper and lower extremities.
(bent, shortened, malformed, malrotated and/or absent part of the extremities, oligo and/or polydactyly) in the offspring of female monkeys who received the active substance during pregnancy.

Various visceral effects (discoloration, red foci at different organs, small colourless mass above atrio-ventricular valve, small gall bladder, malformed diaphragm) were also observed in single foetuses.

Lenalidomide has a potential for acute toxicity; minimum lethal doses after oral administration were > 2000 mg/kg/day in rodents. Repeated oral administration of 75, 150 and 300 mg/kg/day to rats for up to 26 weeks produced a reversible treatment-related increase in kidney pelvis mineralisation in all 3 doses, most notably in females. The no observed adverse effect level (NOAEL) was considered to be less than 75 mg/kg/day, and is approximately 25-fold greater than the human daily exposure based on AUC exposure. Repeated oral administration of 4 and 6 mg/kg/day to monkeys for up to 20 weeks produced mortality and significant toxicity (marked weight loss, reduced red and white blood cell and platelet counts, multiple organ haemorrhage, gastrointestinal tract inflammation, lymphoid, and bone marrow atrophy). Repeated oral administration of 1 and 2 mg/kg/day to monkeys for up to 1 year produced reversible changes in bone marrow cellularity, a slight decrease in myeloid/erythroid cell ratio and thymic atrophy. Mild suppression of white blood cell count was observed at 1 mg/kg/day corresponding to approximately the same human dose based on AUC comparisons.

In vitro (bacterial mutation, human lymphocytes, mouse lymphoma, Syrian Hamster Embryo cell transformation) and in vivo (rat micronucleus) mutagenicity studies revealed no drug related effects at either the gene or chromosomal level. Carcinogenicity studies with lenalidomide have not been conducted.

Developmental toxicity studies were previously conducted in rabbits. In these studies, rabbits were administered 3, 10 and 20 mg/kg/day orally. An absence of the intermediate lobe of the lung was observed at 10 and 20 mg/kg/day with dose dependence and displaced kidneys were observed at 20 mg/kg/day. Although it was observed at maternotoxic levels they may be attributable to a direct effect. Soft tissue and skeletal variations in the foetuses were also observed at 10 and 20 mg/kg/day.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Capsule contents

Lactose  
Microcrystalline cellulose  
Crocarmellose sodium  
Colloidal anhydrous silica  
Magnesium stearate

Capsule shell

Lenalidomide Accord 2.5 mg hard capsules  
Gelatin  
Iron oxide black (E172)  
Titanium dioxide (E171)

Lenalidomide Accord 5 mg and Lenalidomide Accord 25 mg hard capsules  
Gelatin  
Titanium dioxide (E171)

Lenalidomide Accord 7.5 mg hard capsules  
Gelatin
Iron oxide red (E172)
Titanium dioxide (E171)
Indigo carmine (E132)

Lenalidomide Accord 10 mg and Lenalidomide Accord 20 mg hard capsules
Gelatin
Indigo carmine (E132)
Iron oxide yellow (E172)
Titanium dioxide (E171)

Lenalidomide Accord 15 mg hard capsules
Gelatin
Iron oxide red (E172)
Iron oxide yellow (E172)
Titanium dioxide (E171)

Printing ink
Shellac
Propylene glycol (E1520)
Iron oxide black (E172)
Iron oxide yellow (E172)
Potassium hydroxide
Titanium dioxide (E171)
Indigo carmine (E132)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

3 years

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Lenalidomide Accord hard capsules are available in OPA AL PVC/Aluminium foil perforated unit dose blister.

Pack size of 7x1 or 21x1 capsules.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

Capsules should not be opened or crushed. If powder from lenalidomide makes contact with the skin, the skin should be washed immediately and thoroughly with soap and water. If lenalidomide makes contact with the mucous membranes, they should be thoroughly flushed with water.
Healthcare professionals and caregivers should wear disposable gloves when handling the blister or capsule. Gloves should then be removed carefully to prevent skin exposure, placed in a sealable plastic polyethylene bag and disposed of in accordance with local requirements. Hands should then be washed thoroughly with soap and water. Women who are pregnant or suspect they may be pregnant should not handle the blister or capsule (see section 4.4).

Any unused product or waste material should be returned to the pharmacist for safe disposal in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona, s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

8. MARKETING AUTHORISATION NUMBER(S)

Lenalidomide Accord 2.5 mg hard capsules
EU/1/18/1316/001
EU/1/18/1316/002

Lenalidomide Accord 5 mg hard capsules
EU/1/18/1316/003
EU/1/18/1316/004

Lenalidomide Accord 7.5 mg hard capsules
EU/1/18/1316/005
EU/1/18/1316/012

Lenalidomide Accord 10 mg hard capsules
EU/1/18/1316/006
EU/1/18/1316/007

Lenalidomide Accord 15 mg hard capsules
EU/1/18/1316/008
EU/1/18/1316/009

Lenalidomide Accord 20 mg hard capsules
EU/1/18/1316/010
EU/1/18/1316/013

Lenalidomide Accord 25 mg hard capsules
EU/1/18/1316/011
EU/1/18/1316/014

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 20th September 2018
10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency: http://www.ema.europa.eu.
ANNEX II

A. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORIZATION

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
A. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Pharmadox Healthcare Limited
KW20A Kordin Industrial Park,
Paola
PLA 3000,
Malta

Accord Healthcare Polska Sp.z o.o.,
ul. Lutomierska 50,95-200 Fabianice, Poland

Accord Healthcare B.V.,
Winthontlaan 200,
3526 KV Utrecht,
The Netherlands

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING THE SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- Periodic Safety Update Reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- Risk Management Plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;

Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

If the dates for submission of a PSUR and the update of a RMP coincide, they can be submitted at the same time.
• **Additional risk minimisation measures**

1. The MAH shall agree the details of a controlled distribution system with the National Competent Authorities and must implement such programme nationally to ensure that:
   • Prior to prescribing (and where appropriate, and in agreement with the national competent authority, prior to dispensing) all healthcare professionals who intend to prescribe (and dispense) Lenalidomide Accord are provided with a physician information pack containing the following:
     - Educational health care professional’s kit
     - Educational brochures for patients
     - Patient cards
     - Summary of product characteristics (SmPC) and package leaflet and labelling.

2. The MAH shall implement a pregnancy prevention programme (PPP) in each Member State. Details of the PPP should be agreed with the National Competent Authorities in each Member State and put in place prior to the launch of the product.

3. The MAH should agree the final text of the physician information pack contents with the National Competent Authority in each Member State and ensure that the materials contain the key elements as described below.

4. The MAH should agree on the implementation of the patient card system in each Member State.

**Key elements to be included**

**The Educational Healthcare Professional’s Kit**

The Educational Health Care Professional’s Kit shall contain the following elements:

- Brief background on lenalidomide and its licensed indication
- Posology
- Maximum duration of treatment prescribed according to the approved indications dosing regimens
  - 4 weeks treatment for women with childbearing potential
  - 12 weeks treatment for men and women without childbearing potential
- The need to avoid foetal exposure due to teratogenicity of lenalidomide in animals and the expected teratogenic effect of lenalidomide in humans
- Guidance on handling the blister or capsule of Lenalidomide Accord for healthcare professionals and caregivers

Obligations of the health care professional in relation to the prescribing of Lenalidomide Accord

- Need to provide comprehensive advice and counselling to patients
- That patients should be capable of complying with the requirements for the safe use of Lenalidomide Accord
- Need to provide patients with appropriate patient educational brochure and patient card

**Safety advice relevant to all patients**

- Disposal of unwanted medicine
- Local country specific arrangements for a prescription for Lenalidomide Accord to be dispensed
- Description of risk of tumour flare reaction in MCL patients
- Description of the risk of progression to AML in MDS patients including incidence rates from clinical trials
- Description of risk of SPM

**Description of the PPP and categorisation of patients based on sex and childbearing potential**
- Algorithm for implementation of PPP
- Definition of women of childbearing potential (WCBP) and actions the physician should take if unsure

**Safety advice for women of childbearing potential**
- The need to avoid foetal exposure
- Description of the PPP
- Need for adequate contraception (even if woman has amenorrhoea) and definition of adequate contraception
- Pregnancy test regime
  - Advice on suitable tests
  - Before commencing treatment
  - During treatment based on method of contraception
  - After finishing treatment
- Need to stop Lenalidomide Accord immediately upon suspicion of pregnancy
- Need to tell treating doctor immediately upon suspicion of pregnancy

**Safety advice for men**
- The need to avoid foetal exposure
- The need to use condoms if sexual partner is pregnant or a WCBP not using effective contracections (even if man has had a vasectomy)
  - During Lenalidomide Accord treatment
  - For at least 7 days following final dose
- That if his partner becomes pregnant whilst he is taking Lenalidomide Accord or shortly after he has stopped taking Lenalidomide Accord he should inform his treating doctor immediately

**Requirements in the event of pregnancy**
- Instructions to stop Lenalidomide Accord immediately upon suspicion of pregnancy, if female patient
- Need to refer to physician specialised or experienced in dealing with teratology and its diagnosis for evaluation and advice
- Local contact details for reporting of any suspected pregnancy
- Pregnancy reporting form
- **Check list for physicians** ensuring that patients receive the appropriate counselling concerning the treatment, contraceptive methods and pregnancy prevention appropriate for their sex and childbearing status at treatment initiation.
- Adverse event reporting forms
Educational Brochures for patients

The Educational brochures for patients should be of 3 types:

- Brochure for women patients of childbearing potential
- Brochure for women patients who are not of childbearing potential
- Brochure for male patients

All patient brochures should contain the following elements:

- That lenalidomide is teratogenic in animals and is expected to be teratogenic in humans
- Description of the patient card and its necessity
- Disposal of unwanted medicine
- Guidance on handling lenalidomide for patients, caregivers and family members
- National or other applicable specific arrangements for a prescription for Lenalidomide Accord to be dispensed
- That the patient should not give Lenalidomide Accord to any other person
- That the patient should not donate blood during therapy (including during dose interruptions) and for at least 7 days after discontinuation of Lenalidomide Accord treatment
- That the patient should tell their doctor about any adverse events

The following information should also be provided in the appropriate brochure:

Brochure for women patients with childbearing potential

- The need to avoid foetal exposure
- Description of the PPP
- Need for adequate contraception and definition of adequate contraception
- Pregnancy test regime
  - Before commencing treatment
  - During treatment, at least every 4 weeks except in case of confirmed tubal sterilisation
  - After finishing treatment
- The need to stop Lenalidomide Accord immediately upon suspicion of pregnancy
- The need to contact their doctor immediately upon suspicion of pregnancy

Brochure for male patients

- The need to avoid foetal exposure
- The need to use condoms if sexual partner is pregnant or a WCBP not using effective contraceptions (even if man has had vasectomy)
  - During Lenalidomide Accord treatment
  - For at least 7 days following final dose
- That if his partner becomes pregnant he should inform his treating doctor immediately
- That he should not donate semen or sperm during therapy (including during dose interruptions) and at least for 7 days after discontinuation of Lenalidomide Accord treatment

Patient Card
The patient card shall contain the following elements:

- Verification that appropriate counselling has taken place
- Documentation of childbearing status potential
- Pregnancy test dates and results
ANNEX III

LABELLING AND PACKAGE LEAFLET
A. LABELLING
### PARTICULARS TO APPEAR ON THE OUTER PACKAGING  
#### OUTER CARTON

#### 1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 2.5 mg hard capsules  
lenalidomide

#### 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 2.5 mg of lenalidomide.

#### 3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

#### 4. PHARMACEUTICAL FORM AND CONTENTS

| Hard capsule | 7x1 hard capsules | 21x1 hard capsules |

#### 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.  
Oral use.

#### 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

#### 7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.  
You must follow the Lenalidomide Pregnancy Prevention Programme

#### 8. EXPIRY DATE

EXP:
9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/18/1316/001  7x1 hard capsules
EU/1/18/1316/002  21x1 hard capsules

13. BATCH NUMBER

Lot :

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lenalidomide Accord 2.5 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2 D bar code carrying the unique identifier

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
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<tr>
<td><strong>5. OTHER</strong></td>
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</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 5 mg hard capsules
lenalidomide

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 5 mg of lenalidomide.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Hard capsule
7x1 hard capsules
21x1 hard capsules

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.
You must follow the Lenalidomide Pregnancy Prevention Programme

8. EXPIRY DATE

EXP:

9. SPECIAL STORAGE CONDITIONS
### 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

### 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

### 12. MARKETING AUTHORISATION NUMBER(S)

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### 13. BATCH NUMBER

Lot:

### 14. GENERAL CLASSIFICATION FOR SUPPLY

### 15. INSTRUCTIONS ON USE

### 16. INFORMATION IN BRAILLE

Lenalidomide Accord 5 mg

### 17. UNIQUE IDENTIFIER – 2D BARCODE

2 D bar code carrying the unique identifier

### 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
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<tr>
<th>5. OTHER</th>
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</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 7.5 mg hard capsules
lenalidomide

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 7.5 mg of lenalidomide

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Hard capsule
7x1 hard capsules
21x1 hard capsules

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.
You must follow the Lenalidomide Pregnancy Prevention Programme

8. EXPIRY DATE

EXP:

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/18/1316/012 7x1 hard capsules
EU/1/18/1316/005 21x1 hard capsules

13. BATCH NUMBER

Lot:

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lenalidomide Accord 7.5 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2 D bar code carrying the unique identifier

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

BLISTER

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 7.5 mg hard capsules

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Accord

3. EXPIRY DATE

EXP:

4. BATCH NUMBER

Lot:

5. OTHER
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 10 mg hard capsules
lenalidomide

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 10 mg of lenalidomide.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Hard capsule

7x1 hard capsules
21x1 hard capsules

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.
You must follow the Lenalidomide Pregnancy Prevention Programme

8. EXPIRY DATE

EXP:
9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/18/1316/006 7x1 hard capsules
EU/1/18/1316/007 21x1 hard capsules

13. BATCH NUMBER

Lot:

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lenalidomide Accord 10 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2 D bar code carrying the unique identifier

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**BLISTER**

1. **NAME OF THE MEDICINAL PRODUCT**

   Lenalidomide Accord 10 mg hard capsules

2. **NAME OF THE MARKETING AUTHORISATION HOLDER**

   Accord

3. **EXPIRY DATE**

   EXP:

4. **BATCH NUMBER**

   Lot:

5. **OTHER**
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 15 mg hard capsules
lenalidomide

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 15 mg of lenalidomide.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

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5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.
You must follow the Lenalidomide Pregnancy Prevention Programme.

8. EXPIRY DATE

EXP:

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/18/1316/008  7x1 hard capsules
EU/1/18/1316/009  21x1 hard capsules

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lenalidomide Accord 15 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2 D bar code carrying the unique identifier

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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2. **NAME OF THE MARKETING AUTHORISATION HOLDER**
   
   Accord

3. **EXPIRY DATE**
   
   EXP:

4. **BATCH NUMBER**
   
   Lot:

5. **OTHER**


PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 20 mg hard capsules

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 20 mg of lenalidomide.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Hard capsule
7x1 hard capsules
21x1 hard capsules

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.
You must follow the Lenalidomide Pregnancy Prevention Programme

8. EXPIRY DATE

EXP:

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/18/1316/013 7x1 hard capsules
EU/1/18/1316/010 21x1 hard capsules

13. BATCH NUMBER

Lot:

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lenalidomide Accord 20 mg

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2 D bar code carrying the unique identifier

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 25 mg hard capsules
lenalidomide

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 25 mg of lenalidomide.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Hard capsule
7x1 hard capsules
21x1 hard capsules

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

WARNING: Risk of severe birth defects. Do not use while pregnant or breastfeeding.
You must follow the Lenalidomide Pregnancy Prevention Programme

8. EXPIRY DATE

EXP:

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.
World Trade Center, Moll de Barcelona,
s/n, Edifici Est 6ª planta,
08039 Barcelona,
Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/18/1316/014  7x1 hard capsules
EU/1/18/1316/011  21x1 hard capsules

13. BATCH NUMBER

Lot:

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Lenalidomide Accord 25 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2 D bar code carrying the unique identifier

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

BLISTER

1. NAME OF THE MEDICINAL PRODUCT

Lenalidomide Accord 25 mg hard capsules

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Accord

3. EXPIRY DATE

EXP:

4. BATCH NUMBER

Lot:

5. OTHER
B. PACKAGE LEAFLET
Package leaflet: Information for the patient

Lenalidomide Accord 2.5 mg hard capsules
Lenalidomide Accord 5 mg hard capsules
Lenalidomide Accord 7.5 mg hard capsules
Lenalidomide Accord 10 mg hard capsules
Lenalidomide Accord 15 mg hard capsules
Lenalidomide Accord 20 mg hard capsules
Lenalidomide Accord 25 mg hard capsules

lenalidomide

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet
1. What Lenalidomide Accord is and what it is used for
2. What you need to know before you take Lenalidomide Accord
3. How to take Lenalidomide Accord
4. Possible side effects
5. How to store Lenalidomide Accord
6. Contents of the pack and other information

1. What Lenalidomide Accord is and what it is used for

What Lenalidomide Accord is
Lenalidomide Accord contains the active substance ‘lenalidomide’. This medicine belongs to a group of medicines which affect how your immune system works.

What Lenalidomide Accord is used for
Lenalidomide Accord is used in adults for:
- Multiple myeloma
- Myelodysplastic syndromes
- Mantle cell lymphoma
- Follicular lymphoma

Multiple myeloma
Multiple myeloma is a type of cancer which affects a certain kind of white blood cell, called the plasma cell. These cells collect in the bone marrow and divide, becoming out of control. This can damage the bones and kidneys.

Multiple myeloma generally cannot be cured. However, the signs and symptoms can be greatly reduced or disappear for a period of time. This is called a ‘response’.

Newly diagnosed multiple myeloma – in patients who have had a bone marrow transplant
Lenalidomide Accord is used on its own as a maintenance therapy after patients have recovered enough following a bone marrow transplant.
Newly diagnosed multiple myeloma – in patients who cannot have a bone marrow transplant

Lenalidomide Accord is taken with other medicines: These may include:
- a chemotherapy medicine called ‘bortezomib’
- an anti-inflammatory medicine called ‘dexamethasone’
- a chemotherapy medicine called ‘melphalan’ and
- an immunosuppressant medicine called ‘prednisone’.

You will take these other medicines at the start of treatment and then continue to take lenalidomide on its own.

If you are aged 75 years or older or have moderate to severe kidney problems - your doctor will check you carefully before starting treatment.

Multiple myeloma – in patients who have had treatment before

Lenalidomide Accord is taken together with an anti-inflammatory medicine called ‘dexamethasone’.

Lenalidomide can stop the signs and symptoms of multiple myeloma getting worse. It has also been shown to delay multiple myeloma from coming back following treatment.

Myelodysplastic syndromes (MDS)

MDS are a collection of many different blood and bone marrow diseases. The blood cells become abnormal and do not function properly. Patients can experience a variety of signs and symptoms including a low red blood cell count (anaemia), the need for a blood transfusion, and be at risk of infection.

Lenalidomide Accord is used alone to treat adult patients who have been diagnosed with MDS, when all of the following apply:
- you need regular blood transfusions to treat low levels of red blood cells (‘transfusion-dependent anaemia’)
- you have an abnormality of cells in the bone marrow called an ‘isolated deletion 5q cytogenetic abnormality’. This means your body does not make enough healthy blood cells
- other treatments have been used before, are not suitable or do not work well enough.

Lenalidomide Accord can increase the number of healthy red blood cells that the body produces by reducing the number of abnormal cells:
- this can reduce the number of blood transfusions needed. It is possible that no transfusions will be needed.

Mantle cell lymphoma (MCL)

MCL is a cancer of part of the immune system (the lymph tissue). It affects a type of white blood cell called ‘B-lymphocytes’ or B-cells. MCL is a disease where B-cells grow in an uncontrolled way and build up in the lymph tissue, bone marrow or blood.

Lenalidomide Accord is used alone to treat adult patients who have previously been treated with other medicines.

Follicular lymphoma (FL)

FL is a slow growing cancer that affects the B-lymphocytes. These are a type of white blood cells that help your body fight infection. When you have FL, too many of these B-lymphocytes may collect in your blood, bone marrow, lymph nodes and spleen.

Lenalidomide is taken together with another medicine called ‘rituximab’ for the treatment of adult patients with previously treated follicular lymphoma.

How Lenalidomide Accord works

Lenalidomide works by affecting the body’s immune system and directly attacking the cancer. It works in a number of different ways:
by stopping the cancer cells developing
by stopping blood vessels growing in the cancer
by stimulating part of the immune system to attack the cancer cells.

2. **What you need to know before you take Lenalidomide Accord**

You must read the package leaflet of all medicinal products to be taken in combination with Lenalidomide Accord before starting treatment with Lenalidomide Accord.

**Do not take Lenalidomide Accord:**
- if you are pregnant, think you may be pregnant or are planning to become pregnant, as **lenalidomide is expected to be harmful to an unborn child** (see section 2, ‘Pregnancy, breast-feeding and contraception – information for women and men’).
- if you are able to become pregnant, unless you follow all the necessary measures to prevent you from becoming pregnant (see section 2, ‘Pregnancy, breast-feeding and contraception – information for women and men’). If you are able to become pregnant, your doctor will record with each prescription that the necessary measures have been taken and provide you with this confirmation.
- if you are allergic to lenalidomide or any of the other ingredients of this medicine listed in section 6. If you think you may be allergic, ask your doctor for advice.

If any of these apply to you, do not take lenalidomide. Talk to your doctor if you are not sure.

**Warnings and precautions**

**Talk to your doctor, pharmacist or nurse before taking lenalidomide**
- if you have had blood clots in the past - you have an increased risk of developing blood clots in the veins and arteries during treatment
- if you have any signs of an infection, such as a cough or fever
- if you have or have ever had previous viral infection, particularly hepatitis B infection, varicella zoster, HIV. If you are in doubt, talk to your doctor. Treatment with lenalidomide may cause the virus to become active again, in patients who carry the virus. This results in a recurrence of the infection. Your doctor should check whether you have ever had hepatitis B infection
- if you have kidney problems - your doctor may adjust your dose of lenalidomide if you have had a heart attack, have ever had a blood clot, or if you smoke, have high blood pressure or high cholesterol levels
- if you have had an allergic reaction whilst taking thalidomide (another medicine used to treat multiple myeloma) such as rash, itching, swelling, dizziness or trouble breathing
- you have experienced in the past a combination of any of the following symptoms: widespread rash, red skin, high body temperature, flu-like symptoms, liver enzyme elevations, blood abnormalities (eosinophilia), enlarged lymph nodes – these are signs of a severe skin reaction called Drug Reaction with Eosinophilia and Systemic Symptoms which is also known as DRESS or drug hypersensitivity syndrome. (see also section 4 “Possible side effects”).

If any of the above apply to you, tell your doctor, pharmacist or nurse before starting treatment.

**At any time during or after your treatment, tell your doctor or nurse immediately if you:**
- experience blurred, loss of or double vision, difficulty speaking, weakness in an arm or a leg, a change in the way you walk or problems with your balance, persistent numbness, decreased sensation or loss of sensation, memory loss or confusion. These may all be symptoms of a serious and potentially fatal brain condition known as progressive multifocal leukoencephalopathy (PML). If you had these symptoms prior to treatment with lenalidomide, tell your doctor about any change in these symptoms.
experience shortness of breath, tiredness, dizziness, pain in the chest, a faster heartbeat, or swelling in the legs or ankles. These may be symptoms of a serious condition known as pulmonary hypertension (see section 4).

**Tests and checks**
Before and during the treatment with lenalidomide you will have regular blood tests. This is because Lenalidomide Accord may cause a fall in the blood cells that help fight infection (white blood cells) and help the blood to clot (platelets).

Your doctor will ask you to have a blood test:
- before treatment
- every week for the first 8 weeks of treatment
- then at least every month after that.

You may be evaluated for signs of cardiopulmonary problems before and during the treatment with lenalidomide.

**For patients with MDS taking lenalidomide**
If you have MDS, you may be more likely to get a more advanced condition called acute myeloid leukaemia (AML). In addition, it is not known how Lenalidomide Accord affects the chances of you getting AML. Your doctor may therefore do tests to check for signs which may better predict the likelihood of you getting AML during your treatment with Lenalidomide Accord.

**For patients with MCL taking lenalidomide**
Your doctor will ask you to have a blood test:
- before treatment
- every week for the first 8 weeks (2 cycles) of treatment
- then every 2 weeks in cycles 3 and 4 (see section 3 ‘Treatment cycle’ for more information)
- after this it will happen at the start of each cycle and
- at least every month.

**For patients with FL taking lenalidomide**
Your doctor will ask you to have a blood test:
- before treatment
- every week for the first 3 weeks (1 cycle) of treatment
- then every 2 weeks in cycles 2 to 4 (see Section 3 ‘Treatment cycle’ for more information)
- After this it will happen at the start of each cycle and
- at least every month.

Your doctor may check if you have a high total amount of tumour throughout the body, including your bone marrow. This could lead to a condition where the tumours break down and cause unusual levels of chemicals in the blood which can lead to kidney failure (this condition is called ‘Tumour Lysis Syndrome’).

Your doctor may check you for changes to your skin such as red spots or rashes.

Your doctor may adjust your dose of lenalidomide or stop your treatment based on the results of your blood tests and on your general condition. If you are newly diagnosed, your doctor may also assess your treatment based on your age and other conditions you already have.

**Blood donation**
You should not donate blood during treatment and for at least 7 days after the end of treatment.

**Children and adolescents**
Lenalidomide is not recommended for use in children and adolescents under 18 years.
**Elderly and people with kidney problems**

If you are aged 75 years or older or have moderate to severe kidney problems - your doctor will check you carefully before starting treatment.

**Other medicines and Lenalidomide Accord**

Tell your doctor or nurse if you are taking or have recently taken any other medicines. This is because lenalidomide can affect the way some other medicines work. Also, some other medicines can affect the way lenalidomide works.

In particular, tell your doctor or nurse if you are taking any of the following medicines:
- some medicines used to prevent pregnancy such as oral contraceptives, as they may stop working
- some medicines used for heart problems – such as digoxin
- some medicines used to thin the blood – such as warfarin.

**Pregnancy, breast-feeding and contraception - information for women and men**

**Pregnancy**

For women taking lenalidomide

- You must not take lenalidomide if you are pregnant, as it is expected to be harmful to an unborn baby.
- You must not become pregnant while taking lenalidomide. Therefore you must use effective methods of contraception if you are a woman of childbearing potential (see ‘Contraception’).
- If you do become pregnant during your treatment with lenalidomide, you must stop the treatment and inform your doctor immediately.

For men taking lenalidomide

- If your partner becomes pregnant whilst you are taking lenalidomide, you should inform your doctor immediately. It is recommended that your partner seeks medical advice.
- You must also use effective methods of contraception (see ‘Contraception’).

**Breast-feeding**

You must not breast-feed when taking lenalidomide, as it is not known if lenalidomide passes into breast milk.

**Contraception**

For women taking lenalidomide

Before starting the treatment, ask your doctor if you are able to become pregnant, even if you think this is unlikely.

If you are able to become pregnant

- you will have pregnancy tests under the supervision of your doctor (before every treatment, at least every 4 weeks during treatment, and at least 4 weeks after the treatment has finished) except where it has been confirmed that the fallopian tubes have been severed and sealed, to stop eggs from reaching the uterus (tubal sterilisation)

AND

- you must use effective methods of contraception for at least 4 weeks before starting treatment, during treatment, and until at least 4 weeks after stopping treatment. Your doctor will advise you on appropriate methods of contraception.

For men taking lenalidomide

Lenalidomide passes into human semen. If your female partner is pregnant or able to become pregnant, and she does not use effective methods of contraception, you must use condoms during treatment and for at least 7 days after the end of treatment, even if you have had a vasectomy. You should not donate semen or sperm during treatment and for at least 7 days after the end of treatment.
Driving and using machines
Do not drive or operate machines if you feel dizzy, tired, sleepy, have vertigo or blurred vision after taking lenalidomide.

Lenalidomide Accord contains lactose
Lenalidomide Accord contains lactose. If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicinal product.

3. How to take Lenalidomide Accord

Lenalidomide Accord must be given to you by healthcare professionals with experience in treating multiple myeloma, MDS, MCL or FL.

- When lenalidomide is used to treat multiple myeloma in patients who cannot have a bone marrow transplant or have had other treatments before, it is taken with other medicines (see section 1 ‘What lenalidomide is used for’).
- When lenalidomide is used to treat multiple myeloma in patients who have had a bone marrow transplant or to treat patients with MDS or MCL, it is taken alone.
- When lenalidomide is used to treat follicular lymphoma, it is taken with another medicine called ‘rituximab’.

Always take this medicine exactly as your doctor has told you. Check with your doctor or pharmacist if you are not sure.

If you are taking lenalidomide in combination with other medicines, you should refer to the package leaflets for these medicines for further information on their use and effects.

Treatment cycle
Lenalidomide is taken on certain days over 3 weeks (21 days).
- Every 21 days is called a ‘treatment cycle’.
- Depending on the day of the cycle, you will take one or more of the medicines. However, on some days you do not take any of the medicines.
- After completing every 21-day cycle, you should start a new ‘cycle’ over the next 21 days.

OR
Lenalidomide is taken on certain days over 4 weeks (28 days).
- Every 28 days is called a ‘treatment cycle’.
- Depending on the day of the cycle, you will take one or more of the medicines. However, on some days you do not take any of the medicines.
- After completing every 28-day cycle, you should start a new ‘cycle’ over the next 28 days.

How much Lenalidomide to take
Before you start treatment, your doctor will tell you:
- how much lenalidomide you should take
- how much of the other medicines you should take in combination with lenalidomide, if any
- on what days of your treatment cycle to take each medicine.

How and when to take lenalidomide
- swallow the capsules whole, preferably with water.
- do not break, open or chew the capsules. If powder from a broken lenalidomide capsule makes contact with the skin, wash the skin immediately and thoroughly with soap and water.
- healthcare professionals, caregivers and family members should wear disposable gloves when handling the blister or capsule. Gloves should then be removed carefully to prevent skin exposure, placed in a sealable plastic polyethylene bag and disposed of in accordance with local
requirements. Hands should then be washed thoroughly with soap and water. Women who are pregnant or suspect they may be pregnant should not handle the blister or capsule.

- the capsules can be taken either with or without food.
- you should take lenalidomide at about the same time on the scheduled days.

**Taking this medicine**
To remove the capsule from the blister:

- press only one end of the capsule out to push it through the foil
- do not put pressure on the center of the capsule, as this can cause it to break.

**Duration of the treatment with lenalidomide**
Lenalidomide is taken in treatment cycles, each cycle lasting 21 or 28 days (see above ‘Treatment cycle’). You should continue the cycles of treatment until your doctor tells you to stop.

**If you take more lenalidomide than you should**
If you take more lenalidomide than was prescribed, tell your doctor immediately.

**If you forget to take lenalidomide**
If you forget to take lenalidomide at your regular time and

- less than 12 hours have passed - take your capsule immediately.
- more than 12 hours have passed - do not take your capsule. Take your next capsule at the usual time the next day.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Stop taking Lenalidomide and see a doctor straight away if you notice any of the following serious side effects – you may need urgent medical treatment:**

- Hives, rashes, swelling of eyes, mouth or face, difficulty breathing, or itching, which may be symptoms of serious types of allergic reactions called angioedema and anaphylactic reaction.
- A serious allergic reaction that may begin as a rash in one area but spread with extensive loss of skin over the whole body (Stevens-Johnson syndrome and/or toxic epidermal necrolysis). Widespread rash, high body temperature, liver enzyme elevations, blood abnormalities (eosinophilia), enlarged lymph nodes and other body organs involvement (Drug Reaction with Eosinophilia and Systemic Symptoms which is also known as DRESS or drug hypersensitivity syndrome). See also section 2.

- **Tell your doctor straight away if you notice any of the following serious side effects:** Fever, chills, sore throat, cough, mouth ulcers or any other symptoms of infection including within the bloodstream (sepsis)
- Bleeding or bruising in the absence of injury
• Chest pain or leg pain
• Shortness of breath
• Bone pain, muscle weakness, confusion or tiredness that might be due to high level of calcium in the blood.

Lenalidomide may reduce the number of white blood cells that fight infection and also the blood cells which help the blood to clot (platelets) which may lead to bleeding disorders such as nosebleeds and bruising.

Lenalidomide may also cause blood clots in the veins (thrombosis).

Other side effects
It is important to note that a small number of patients may develop additional types of cancer, and it is possible that this risk may be increased with lenalidomide treatment. Therefore your doctor should carefully evaluate the benefit and risk when you are prescribed lenalidomide.

Very common side effects (may affect more than 1 in 10 people):
• A fall in the number of red blood cells which may cause anaemia leading to tiredness and weakness
• Rashes, itching
• Muscle cramps muscle weakness, muscle pain, muscle aches, bone pain, joint pain, back pain, pain in the extremities
• Generalised swelling including swelling of your arms and legs
• Weakness, tiredness
• Fever and flu like symptoms including fever, muscle ache, headache, earache, cough and chills
• Numbness, tingling or burning sensation to the skin, pains in hands or feet, dizziness, tremor
• Decreased appetite, change in the way things taste
• Increase in pain, tumour size or redness around the tumour
• Weight loss
• Constipation, diarrhoea, nausea, vomiting, stomach pain, heartburn
• Low levels of potassium or calcium and/or sodium in the blood
• Thyroid functioning less than it should be
• Leg pain (which could be a symptom of thrombosis), chest pain or shortness of breath (which may be a symptom of blood clots in the lungs, called pulmonary embolism)
• Infections of all types, including infection of the sinuses that surround the nose, infection of the lung and the upper respiratory tract
• Shortness of breath
• Blurred vision
• Clouding of your eye (cataract)
• Kidney problems which include kidneys not working properly or not being able to maintain normal function
• Abnormal liver test results
• Increase in liver test results
• Changes to a protein in the blood that can cause swelling of the arteries (vasculitis)
• Increases in your blood sugar levels (diabetes)
• Decreases in your blood sugar levels
• Headache
• Nosebleed
• Dry skin
• Depression, mood change, difficulty sleeping
• Cough
• A fall in blood pressure
• A vague feeling of bodily discomfort, feeling bad
• Sore inflamed mouth, dry mouth
• Dehydration
**Common side effects (may affect up to 1 in 10 people):**

- Destruction of red blood cells (haemolytic anaemia)
- Certain types of skin tumour
- Bleeding of the gums, stomach, or bowels
- Increased blood pressure, slow, fast or irregular heart beat
- Increase in the amount of a substance which results from normal and abnormal breakdown of red blood cells
- Increase in a type of protein that indicates inflammation in body
- Darkening of your skin, discolouration of your skin resulting from bleeding underneath, typically caused by bruising, swelling of skin filled with blood, bruise
- Increase in uric acid in the blood
- Skin eruptions, redness of skin, cracking, flaking or peeling skin, hives
- Increased sweating, night sweats
- Difficulty swallowing, sore throat, difficulty with voice quality or voice changes
- Runny nose
- Production of much more or much less urine than usual or the inability to control when to urinate
- Passing blood in the urine
- Shortness of breath especially when lying down (which may be a symptom of heart failure)
- Difficulty getting an erection
- Stroke, fainting, vertigo (problem with inner ear which leads to feeling that everything is spinning), temporary loss of consciousness
- Chest pain spreading to the arms, neck, jaw, back or stomach, feeling sweaty and breathless, feeling sick or vomiting, which may be symptoms of a heart attack (myocardial infarction)
- Muscle weakness, lack of energy
- Neck pain, chest pain
- Chills
- Joint swelling
- Bile flow from liver slowed or blocked
- Low levels of phosphate or magnesium in the blood
- Difficulty speaking
- Liver injury
- Impaired balance, difficulty moving
- Deafness, ringing in the ears (tinnitus)
- Nerve pain, unpleasant abnormal sensation especially to touch
- An excess of iron in the body
- Thirst
- Confusion
- Toothache
- Fall which may result in injury

**Uncommon side effects (may affect up to 1 in 100 people):**

- Bleeding within the skull
- Circulatory problems
- Loss of vision
- Loss of sex drive (libido)
- Passing large amounts of urine with bone pain and weakness, which may be symptoms of a kidney disorder (Fanconi syndrome)
- Yellow pigmentation to the skin, mucus membrane or eyes (jaundice), pale coloured stools, dark coloured urine, skin itch, rash, pain or swelling of the stomach – these may be symptoms of injury to the liver (hepatic failure)
- Stomach pain, bloating, or diarrhoea, which may be symptoms of inflammation in the large intestine (called colitis or caecitis)
• Damage to the cells of the kidney (called renal tubular necrosis)
• Changes to the colour of your skin, sensitivity to sunlight
• Tumour lysis syndrome - metabolic complications that can occur during treatment of cancer and sometimes even without treatment. These complications are caused by the break-down products of dying cancer cells and may include the following: changes to blood chemistry; high potassium, phosphorus, uric acid, and low calcium consequently leading to changes in kidney function, heart beat, seizures, and sometimes death.
• Increase in blood pressure within blood vessels that supply the lungs (pulmonary hypertension).

Not known side effects (frequency cannot be estimated from the available data):
• Sudden, or mild but worsening pain in the upper stomach and/or back, which remains for a few days, possibly accompanied by nausea, vomiting, fever and a rapid pulse - these symptoms may be due to inflammation of the pancreas.
• Wheezing, shortness of breath or a dry cough, which may be symptoms caused by inflammation of the tissue in the lungs.
• Rare cases of muscle breakdown (muscle pain, weakness or swelling) which can lead to kidney problems (rhabdomyolysis) have been observed, some of them when lenalidomide is administered with a statin (a type of cholesterol lowering medicines).
• A condition affecting the skin caused by inflammation of small blood vessels, along with pain in the joints and fever (leukocytoclastic vasculitis).
• Breakdown of the wall of the stomach or gut. This may lead to very serious infection. Tell your doctor if you have severe stomach pain, fever, nausea, vomiting, blood in your stool, or changes in bowel habits.
• Viral infections, including herpes zoster (also known as ‘shingles’, a viral disease that causes a painful skin rash with blisters) and recurrence of hepatitis B infection (which can cause yellowing of the skin and eyes, dark brown-colored urine, right-sided stomach pain, fever and feeling nauseous or being sick).
• Rejection of solid organ transplant (such as kidney, heart).

Reporting of side effects
If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Lenalidomide Accord
• Keep this medicine out of the sight and reach of children.
• Do not use this medicine after the expiry date, which is stated on the carton and blister after ‘EXP’. The expiry date refers to the last day of that month.
• This medicinal product does not require any special storage conditions.
• Do not use this medicine if you notice any damage or signs of tampering to the pack.
• Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Lenalidomide Accord contains

Lenalidomide Accord 2.5 mg hard capsules:
• The active substance is lenalidomide. Each capsule contains 2.5 mg of lenalidomide.
• The other ingredients are:
- capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
- capsule shell: gelatin, iron oxide black (E172), titanium dioxide (E171)
- printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

Lenalidomide Accord 5 mg hard capsules:
• The active substance is lenalidomide. Each capsule contains 5 mg of lenalidomide.
• The other ingredients are:
  - capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
  - capsule shell: gelatin, titanium dioxide (E171)
  - printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

Lenalidomide Accord 7.5 mg hard capsules:
• The active substance is lenalidomide. Each capsule contains 7.5 mg of lenalidomide.
• The other ingredients are:
  - capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
  - capsule shell: gelatin, iron oxide red (E172), titanium dioxide (E171), indigo carmine (E132)
  - printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

Lenalidomide Accord 10 mg hard capsules:
• The active substance is lenalidomide. Each capsule contains 10 mg of lenalidomide.
• The other ingredients are:
  - capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
  - capsule shell: gelatin, indigo carmine (E132), iron oxide yellow (E172) and titanium dioxide (E171)
  - printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

Lenalidomide Accord 15 mg hard capsules:
• The active substance is lenalidomide. Each capsule contains 15 mg of lenalidomide.
• The other ingredients are:
  - capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
  - capsule shell: gelatin, iron oxide red (E172), iron oxide yellow (E172), titanium dioxide (E171)
  - printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

Lenalidomide Accord 20 mg hard capsules:
• The active substance is lenalidomide. Each capsule contains 20 mg of lenalidomide.
• The other ingredients are:
- capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
- capsule shell: gelatin, indigo carmine (E132), iron oxide yellow (E172) and titanium dioxide (E171)
- printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

Lenalidomide Accord 25 mg hard capsules:
- The active substance is lenalidomide. Each capsule contains 25 mg of lenalidomide.
- The other ingredients are:
  - capsule contents: lactose, microcrystalline cellulose, croscarmellose sodium, colloidal anhydrous silica, magnesium stearate.
  - capsule shell: gelatin, titanium dioxide (E171)
  - printing ink: black and green ink (which contains shellac, propylene glycol (E1520), iron oxide black (E172), iron oxide yellow (E172), titanium dioxide (E171), indigo carmine (E132) and potassium hydroxide)

What Lenalidomide Accord looks like and contents of the pack

Lenalidomide Accord 2.5 mg are gelatin hard capsules size “5” approximately 11.0 mm to 11.8 mm in length, grey cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “2.5 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 5 mg are gelatin hard capsules size “5” approximately 11.0 mm to 11.8 mm in length, opaque white cap and body with “LENALIDOMIDE” printed on cap in black and “5 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 7.5 mg are gelatin hard capsules size “4” approximately 14.0 mm to 14.8 mm in length, opaque lavender cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “7.5 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 10 mg are gelatin hard capsules size “3” approximately 15.4 mm to 16.2 mm in length, leaf green cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “10 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 15 mg are gelatin hard capsules size “2” approximately 17.4 mm to 18.2 mm in length, opaque orange cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “15 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 20 mg are gelatin hard capsules size “1” approximately 19.0 mm to 19.8 mm in length, opaque green cap and opaque white body with “LENALIDOMIDE” printed on cap in black and “20 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord 25 mg are gelatin hard capsules size “0” approximately 21.0 mm to 21.8 mm in length, white opaque cap and body with “LENALIDOMIDE” printed on cap in black and “25 mg” printed on body in green, containing white to off white coloured powder.

Lenalidomide Accord hard capsules are available in OPA-AL-PVC/Aluminium foil perforated unit dose blister.

Pack size of 7x1 or 21x1 capsules.
Not all pack sizes may be marketed.

**Marketing Authorisation Holder**
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**This leaflet was last revised in**

**Other sources of information**

Detailed information on this medicine is available on the European Medicines Agency website: