IMFINZI® (durvalumab) injection, for intravenous use

Initial U.S. Approval: 2017

----------------------------- INDICATIONS AND USAGE -----------------------------

1 INDICATIONS AND USAGE

1.1 Urothelial Carcinoma

1.2 Non-Small Cell Lung Cancer

1.3 Small Cell Lung Cancer

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

2.2 Dosage Modifications for Adverse Reactions

2.3 Preparation and Administration

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

6 ADVERSE REACTIONS

7 USE IN SPECIFIC POPULATIONS

8 IMMUNOGENICITY

9 CLINICAL TRIALS EXPERIENCE

10 CLINICAL PHARMACOLOGY

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

13 NONCLINICAL TOXICOLOGY

14 CLINICAL STUDIES

15 HOW SUPPLIED/STORAGE AND HANDLING

16 PATIENT COUNSELING INFORMATION

*Sections or subsections omitted from the full prescribing information are not listed.
IMFINZI® (durvalumab) injection, for intravenous use

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Urothelial Carcinoma
IMFINZI is indicated for the treatment of adult patients with locally advanced or metastatic urothelial carcinoma who:
• have disease progression during or following platinum-containing chemotherapy.
• have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy.

This indication is approved under accelerated approval based on tumor response rate upon verification and description of clinical benefit in confirmatory trials [see Clinical Studies (14.1)].

1.2 Non-Small Cell Lung Cancer
IMFINZI is indicated for the treatment of adult patients with unresectable Stage III non-small cell lung cancer (NSCLC) whose disease has not progressed following concurrent platinum-based chemotherapy and radiation therapy.

1.3 Small Cell Lung Cancer
IMFINZI, in combination with etoposide and either carboplatin or cisplatin, is indicated for the first-line treatment of adult patients with extensive-stage small cell lung cancer (ES-SCLC).

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage
The recommended dosages for IMFINZI as a single agent and IMFINZI in combination with chemotherapy are presented in Table 1 [see Clinical Studies (14)]. IMFINZI is administered as an intravenous infusion over 60 minutes.

Table 1. Recommended Dosages of IMFINZI

<table>
<thead>
<tr>
<th>Indication</th>
<th>Recommended IMFINZI dosage</th>
<th>Duration of Therapy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urothelial Carcinoma</td>
<td>10 mg/kg every 2 weeks</td>
<td>Until disease progression or unacceptable toxicity</td>
</tr>
<tr>
<td>Unresectable stage III NSCLC</td>
<td>10 mg/kg every 2 weeks</td>
<td>Until disease progression, unacceptable toxicity, or a maximum of 12 months</td>
</tr>
<tr>
<td>ES-SCLC</td>
<td>1500 mg in combination with chemotherapy every 3 weeks (21 days) for 4 cycles, followed by 1500 mg every 4 weeks as a single agent</td>
<td>Until disease progression or unacceptable toxicity</td>
</tr>
</tbody>
</table>

1 Patients with a body weight of 30 kg or less must receive weight-based dosing, equivalent to IMFINZI 20 mg/kg in combination with chemotherapy every 3 weeks (21 days) for 4 cycles, followed by 20 mg/kg every 4 weeks as a single agent until weight increases to greater than 30 kg.
2 Administer IMFINZI prior to chemotherapy on the same day. When IMFINZI is administered in combination with chemotherapy, refer to the Prescribing Information for etoposide and carboplatin or cisplatin for dosing information.

2.2 Dosage Modifications for Adverse Reactions
No dose reductions are recommended. Withhold or discontinue IMFINZI to manage adverse reactions as described in Table 2.

Table 2. Recommended Dosage Modifications for Adverse Reactions

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>Severity1</th>
<th>Dosage Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonitis [see Warnings and Precautions (5.1)]</td>
<td>Grade 2</td>
<td>Withhold dose until Grade 1 or resolved and corticosteroid dose is less than or equal to prednisone 10 mg per day (or equivalent).</td>
</tr>
<tr>
<td></td>
<td>Grade 3 or 4</td>
<td>Permanently discontinue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ALT or AST greater than 3 but less than or equal to 8 times the ULN or Total bilirubin greater than 1.5 but less than or equal to 5 times the ULN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or Concurrent ALT or AST greater than 3 times the ULN and total bilirubin greater than 2 times the ULN with no other cause</td>
</tr>
<tr>
<td>Hepatitis [see Warnings and Precautions (5.2)]</td>
<td>Grade 2</td>
<td>Withhold dose until Grade 1 or resolved and corticosteroid dose is less than or equal to prednisone 10 mg per day (or equivalent).</td>
</tr>
<tr>
<td></td>
<td>Grade 3 or 4</td>
<td>Permanently discontinue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For ALT or AST greater than 8 times the ULN or total bilirubin greater than 5 times the ULN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or Concurrent ALT or AST greater than 3 times the ULN and total bilirubin greater than 2 times the ULN with no other cause</td>
</tr>
</tbody>
</table>

1 National Cancer Institute Common Terminology Criteria for Adverse Events, version 4.03.
ALT: alanine aminotransferase; AST: aspartate aminotransferase; ULN: upper limit of normal.
2 For myasthenia gravis permanently discontinue IMFINZI if the adverse reaction does not resolve ≤ Grade 1 within 30 days or if there are signs of respiratory and/or autonomic insufficiency.

2.3 Preparation and Administration
Preparation
• Visually inspect drug product for particulate matter and discoloration prior to administration, whenever solution and container permit. Discard the vial if the solution is cloudy, discolored, or visible particles are observed.
• Do not shake the vial.
• Withdraw the required volume from the vial(s) of IMFINZI and transfer into an intravenous bag containing 0.9% Sodium Chloride Injection, USP or 5% Dextrose Injection, USP. Mix diluted solution by gentle inversion. Do not shake the solution. The final concentration of the diluted solution should be between 1 mg/mL and 15 mg/mL.
• Discard partially used or empty vials of IMFINZI.
5.3 Immune-Mediated Colitis
IMFINZI can cause immune-mediated colitis, defined as requiring use of corticosteroids. Monitor patients for signs and symptoms of diarrhea or colitis. Administer corticosteroids, prednisone 1 to 2 mg per kg per day or equivalent, for moderate (Grade 2) or more severe (Grade 3-4) colitis, followed by taper. Interrupt or permanently discontinue IMFINZI based on the severity [see Dosage and Administration (2.3)].

In clinical studies enrolling 1889 patients with various cancers who received IMFINZI [see Adverse Reactions (6.1)], diarrhea or colitis occurred in 18% of patients, including Grade 3 (1%) and Grade 4 (0.1%) immune-mediated colitis. The median time to onset was 1.4 months (range: 1 day to 14 months). Diarrhea or colitis led to discontinuation of IMFINZI in 0.4% of the 1889 patients. Diarrhea or colitis resolved in 78% of the patients. Systemic corticosteroids were required in 1.9% of patients, with 1% requiring high-dose corticosteroids and 0.1% requiring other immunosuppressants (e.g., infliximab, mycophenolate).

5.4 Immune-Mediated Endocrinopathies
IMFINZI can cause immune-mediated endocrinopathies, including thyroid disorders, adrenal insufficiency, type 1 diabetes mellitus, and hypophysitis/hypopituitarism.

Thyroid Disorders: Monitor thyroid function prior to and periodically during treatment with IMFINZI. Initiate hormone replacement therapy or medical management of hyperthyroidism as clinically indicated. Continue IMFINZI for hypothyroidism and interrupt for hyperthyroidism based on the severity [see Dosage and Administration (2.3)].

In clinical studies enrolling 1889 patients who received IMFINZI [see Adverse Reactions (6.1)], hypothyroidism occurred in 11% of patients and hyperthyroidism occurred in 7% of patients. Thyroiditis occurred in 0.9% of patients, including Grade 3 (< 0.1%) thyroiditis. Hypothyroidism was preceded by thyroiditis or hyperthyroidism in 25% of patients.

Adrenal Insufficiency: Monitor patients for signs and symptoms of adrenal insufficiency. For Grade 2 or higher adrenal insufficiency, initiate prednisone 1 to 2 mg per kg per day or equivalent, followed by corticosteroid taper and hormone replacement as clinically indicated. Interrupt IMFINZI based on the severity [see Dosage and Administration (2.3)].

In clinical studies enrolling 1889 patients who received IMFINZI, adrenal insufficiency occurred in 0.7% of patients, including Grade 3 (< 0.1%). Systemic corticosteroids were required in 0.4% of patients, including 0.1% of patients who required high-dose corticosteroids.

Type 1 Diabetes Mellitus: Monitor patients for hyperglycemia or other signs and symptoms of diabetes. Initiate treatment with insulin as clinically indicated. Interrupt IMFINZI based on the severity [see Dosage and Administration (2.3)].

In clinical studies enrolling 1889 patients who received IMFINZI, type 1 diabetes mellitus occurred in < 0.1% of patients. The median time to onset was 1.4 months.

Hypophysitis: For Grade 2 or higher hypophysitis, initiate prednisone 1 to 2 mg per kg per day or equivalent, followed by corticosteroid taper and hormone replacement therapy as clinically indicated. Interrupt IMFINZI based on the severity [see Dosage and Administration (2.3)].

Hypopituitarism leading to adrenal insufficiency and diabetes insipidus occurred in < 0.1% of 1889 patients who received IMFINZI in clinical studies.

5.5 Immune-Mediated Nephritis
IMFINZI can cause immune-mediated nephritis, defined as evidence of renal dysfunction requiring use of corticosteroids. Fatal cases have occurred.

Monitor patients for abnormal renal function tests prior to and periodically during treatment with IMFINZI. Initiate prednisone 1 to 2 mg per kg per day or equivalent, for moderate (Grade 2) or severe (Grade 3-4) nephritis, followed by taper. Interrupt or permanently discontinue IMFINZI based on the severity [see Dosage and Administration (2.3)].

In clinical studies enrolling 1889 patients with various cancers who received IMFINZI [see Adverse Reactions (6.1)], nephritis (reported as any of the following increased creatinine or urea, acute kidney injury, renal failure, decreased glomerular filtration rate, tubulointerstitial nephritis, decreased creatinine clearance, gomeronulonephritis, and nephritis) occurred in 6.3% of patients including Grade 3 (1.1%), Grade 4 (0.2%), and Grade 5 (0.1%) immune-mediated nephritis. The median time to onset was 2 months (range: 1 day to 14.2 months). IMFINZI was discontinued in 0.3% of the 1889 patients. Nephritis resolved in 50% of patients. Systemic corticosteroids were required in 0.6% of patients, with 0.4% receiving high-dose corticosteroids.

5.6 Immune-Mediated Dermatologic Reactions
IMFINZI can cause immune-mediated rash. Other dermatologic reactions have occurred with other products in this class including Stevens Johnson Syndrome (SSJ)/toxic epidermal necrosis (TEN) [see Warnings and Precautions (5.7)].

Monitor for signs and symptoms of rash. Initiate prednisone 1 to 2 mg per kg per day or equivalent, for moderate (Grade 2) rash or dermatitis lasting for more than 1 week or severe (Grade 3-4) rash or dermatitis, followed by taper. Interrupt or permanently discontinue IMFINZI based on the severity [see Dosage and Administration (2.3)].
In clinical studies enrolling 1889 patients with various cancers who received IMFINZI [see Adverse Reactions (6.1)], 26% of patients developed rash or dermatitis. Rash or dermatitis led to discontinuation of IMFINZI in 0.1% of the 1889 patients. Rash resolved in 62% of patients. Systemic corticosteroids were required in 2% of patients, including high-dose corticosteroids in 1% of patients.

5.7 Other Immune-Mediated Adverse Reactions
IMFINZI can cause severe and fatal immune-mediated adverse reactions. These immune-mediated reactions may involve any organ system. While immune-mediated reactions usually manifest during treatment with IMFINZI, immune-mediated adverse reactions can also manifest after discontinuation of IMFINZI.

For suspected Grade 2 immune-mediated adverse reactions, exclude other causes and initiate corticosteroids as clinically indicated. For severe (Grade 3 or 4) adverse reactions, administer corticosteroids, prednisone 1 to 4 mg per kg per day or equivalent, followed by taper. Interrupt or permanently discontinue IMFINZI, based on the severity of the reaction [see Dosage and Administration (2.3)]. If uveitis occurs in combination with other immune-mediated adverse reactions, evaluate for Vogt-Koyanagi-Harada syndrome, which has been observed with other products in this class and may require treatment with systemic steroids to reduce the risk of permanent vision loss.

The following clinically significant, immune-mediated adverse reactions occurred at an incidence of less than 1% each in 1889 patients who received IMFINZI: aseptic meningitis, hematologic anemia, immune thrombocytopenic purpura, myocarditis, myositis, and ocular inflammatory toxicity, including uveitis and keratitis [see Adverse Reactions (6.1)]. In patients who received IMFINZI in clinical studies outside of the pooled dataset, myasthenia gravis occurred at an incidence of less than 0.1%. The following clinically significant, immune-mediated adverse reactions have been reported with other products in this class: bullous dermatitis, Stevens Johnson Syndrome (SJS)/Toxic epidermal necrolysis (TEN), pancreatitis, systemic inflammatory response syndrome, rhabdomyolysis, histiocytic necrotizing lymphadenitis, vasculitis, hematologic anemia, iritis, encephalitis, facial and abducens nerve paresis, demyelination, polymyalgia rheumatica, autoimmune neuropathy, Guillain-Barré syndrome, and Vogt-Koyanagi-Harada syndrome.

5.8 Infection
IMFINZI can cause serious infections, including fatal cases. Monitor patients for signs and symptoms of infection. For Grade 3 or higher infections, withhold IMFINZI and resume once clinically stable [see Dosage and Administration (2.3)].

In clinical studies enrolling 1889 patients with various cancers who received IMFINZI [see Adverse Reactions (6.1)], infections occurred in 43% of patients, including Grade 3 (8%), Grade 4 (1.9%), and Grade 5 (1%). In the urothelial carcinoma cohort in Study 1108 the most common Grade 3 or higher infection was urinary tract infections, which occurred in 4% of patients. In the PACIFIC study, the most common Grade 3 or higher infection was pneumonia, which occurred in 5% of patients. The overall incidence of infections in IMFINZI-treated patients (56%) in the PACIFIC study was higher compared to patients in other studies (38%) in which radiation therapy was generally not administered immediately prior to initiation of IMFINZI.

5.9 Infusion-Related Reactions
IMFINZI can cause severe or life-threatening infusion-related reactions. Monitor for signs and symptoms of infusion-related reactions. Interrupt, slow the rate of, or permanently discontinue IMFINZI based on the severity [see Dosage and Administration (2.3)]. For Grade 1 or 2 infusion-related reactions, consider using pre-medications with subsequent doses.

In clinical studies enrolling 1889 patients with various cancers [see Adverse Reactions (6.1)], infusion-related reactions occurred in 2.2% of patients, including Grade 3 (0.3%).

5.10 Embryo-Fetal Toxicity
Based on its mechanism of action and data from animal studies, IMFINZI can cause fetal harm when administered to a pregnant woman. In animal reproduction studies, administration of durvalumab to cynomolgus monkeys from the onset of organogenesis through delivery resulted in increased premature delivery, fetal loss and premature neonatal death. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with IMFINZI and for at least 3 months after the last dose of IMFINZI [see Use in Specific Populations (8.1, 8.3)].

6 ADVERSE REACTIONS
The following adverse reactions are discussed in greater detail in other sections of the labeling.

- Immune-Mediated Pneumonitis [see Warnings and Precautions (5.1)].
- Immune-Mediated Hepatitis [see Warnings and Precautions (5.2)].
- Immune-Mediated Colitis [see Warnings and Precautions (5.3)].
- Immune-Mediated Endocrinopathies [see Warnings and Precautions (5.4)].
- Immune-Mediated Nephritis [see Warnings and Precautions (5.5)].
- Immune-Mediated Dermatologic Reactions [see Warnings and Precautions (5.6)].
- Other Immune-Mediated Adverse Reactions [see Warnings and Precautions (5.7)].
- Infection [see Warnings and Precautions (5.8)].
- Infusion-Related Reactions [see Warnings and Precautions (5.9)].

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

The data described in the Warnings and Precautions section reflect exposure to IMFINZI in 1889 patients from the PACIFIC study (a randomized, placebo-controlled study that enrolled 475 patients with Stage III NSCLC), Study 1108 (an open-label, single-arm, multicohort study that enrolled 191 patients with urothelial carcinoma and 177 patients with other solid tumors), and additional open-label, single-arm trial that enrolled 444 patients with metastatic lung cancer, an indication for which durvalumab is not approved. In these trials, IMFINZI was administered at a dose of 10 mg/kg every 2 weeks. Among the 1889 patients, 38% were exposed for 6 months or more and 18% were exposed for 12 months or more. The data also reflects exposure to IMFINZI in combination with chemotherapy in 265 patients from the CASPIAN study (a randomized, open-label study in patients with ES-SCLC) in the CASPIAN trial. IMFINZI was administered at a dose of 1500 mg every 3 or 4 weeks.

The data described in this section reflect exposure to IMFINZI in patients with locally advanced or metastatic urothelial carcinoma enrolled in Study 1108 in patients with Stage III NSCLC enrolled in the PACIFIC study and in patients with ES-SCLC enrolled in the CASPIAN study.

Urothelial Carcinoma
The safety of IMFINZI was evaluated in 182 patients with locally advanced or metastatic urothelial carcinoma in the urothelial carcinoma cohort of Study 1108 whose disease has progressed during or after one standard platinum-based regimen. Patients received IMFINZI 10 mg/kg intravenously every 2 weeks [see Clinical Studies (14.1)]. The median duration of exposure was 2.3 months (range: 1 day to 12.1 months).

Thirty-one percent (31%) of patients had a drug delay or interruption for an adverse reaction. The most common (> 2%) were liver injury (4.9%), urinary tract infection (3.3%), acute kidney injury (3.3%), and musculoskeletal pain (2.7%). The most common adverse reactions (> 15%) were fatigue (39%), muscle-skeletal pain (24%), constipation (21%), decreased appetite (19%), nausea (16%), peripheral edema (15%), and urinary tract infection (15%). The most common Grade 3 or 4 adverse reactions (≥ 3%) were fatigue, urinary tract infection, musculoskeletal pain, abdominal pain, dehydration, and general physical health deterioration.

Eight patients (4.4%) who were treated with IMFINZI experienced Grade 5 adverse reactions of cardiorespiratory arrest, general physical health deterioration, sepsis, fatal pneumonia, or immune-mediated hepatitis. These additional adverse reactions were experiencing infection and disease progression at the time of death. IMFINZI was discontinued for adverse reactions in 3.3% of patients. Serious adverse reactions occurred in 46% of patients. The most frequent serious adverse reactions (> 2%) were acute kidney injury (4.9%), urinary tract infection (4.4%), musculoskeletal pain (4.4%), liver injury (3.3%), general physical health deterioration (3.3%), sepsis, abdominal pain, and pyrexia/tumor associated fever (2.7% each).

Table 3 summarizes the adverse reactions that occurred in ≥ 10% of patients, while Table 4 summarizes the Grade 3 - 4 laboratory abnormalities that occurred in ≥ 1% of patients treated with IMFINZI in the urothelial carcinoma cohort of Study 1108.

Table 3. Adverse Reactions in ≥ 10% of Patients in Study 1108 Urothelial Carcinoma Cohort

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>All Grades (%)</th>
<th>Grades 3 - 4 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gastrointestinal Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constipation</td>
<td>21</td>
<td>1.1</td>
</tr>
<tr>
<td>Nausea</td>
<td>16</td>
<td>1.6</td>
</tr>
<tr>
<td>Abdominal pain</td>
<td>14</td>
<td>2.7</td>
</tr>
<tr>
<td>Diarrhea/Colitis</td>
<td>13</td>
<td>1.1</td>
</tr>
<tr>
<td>General Disorders and Administration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fatigue</td>
<td>39</td>
<td>6</td>
</tr>
<tr>
<td>Peripheral edema</td>
<td>15</td>
<td>1.6</td>
</tr>
<tr>
<td>Pyrexia/Tumor associated fever</td>
<td>14</td>
<td>0.5</td>
</tr>
<tr>
<td>Infections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urinary tract infection</td>
<td>15</td>
<td>4.4</td>
</tr>
</tbody>
</table>
Table 3. Adverse Reactions in ≥ 10% of Patients in Study 1108 Urothelial Carcinoma Cohort (cont’d)

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>IMFINZI N = 182</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metabolism and Nutrition Disorders</td>
<td></td>
</tr>
<tr>
<td>Decreased appetite/Hypophagia</td>
<td>19 0.5</td>
</tr>
<tr>
<td>Respiratory, Thoracic, and Mediastinal Disorders</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal pain</td>
<td>24 3.8</td>
</tr>
<tr>
<td>Skin and Subcutaneous Tissue Disorders</td>
<td></td>
</tr>
<tr>
<td>Rash</td>
<td>11 0.5</td>
</tr>
</tbody>
</table>

1 Includes abdominal pain upper, abdominal pain lower, and flank pain
2 Includes asthenia, lethargy, and malaise
3 Includes edema perioral, edema peripheral, lymphedema, peripheral swelling, scrotal edema, and scrotal swelling
4 Includes cystitis, candiduria, and urosepsis
5 Includes back pain, musculoskeletal chest pain, musculoskeletal pain and discomfort, myalgia, and neck pain
6 Includes dermatitis, dermatitis acneiform, dermatitis pityriasis, rash maculopapular, rash pruritic, rash papular, skin toxicity, eczema, erythema, erythema multiforme, rash erythematous, acne, and lichen planus

Table 4. Grade 3-4 Laboratory Abnormalities Worsened from Baseline Occurring in ≥ 1% Patients in Study 1108 Urothelial Carcinoma Cohort

<table>
<thead>
<tr>
<th>Laboratory Abnormality</th>
<th>Grades 3 - 4 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyponatremia</td>
<td>12</td>
</tr>
<tr>
<td>Lymphopenia</td>
<td>11</td>
</tr>
<tr>
<td>Anemia</td>
<td>8</td>
</tr>
<tr>
<td>Increased alkaline phosphatase</td>
<td>4.1</td>
</tr>
<tr>
<td>Hypermagnesemia</td>
<td>4.2</td>
</tr>
<tr>
<td>Hypercalcemia</td>
<td>3</td>
</tr>
<tr>
<td>Hyperglycemia</td>
<td>3</td>
</tr>
<tr>
<td>Increased AST</td>
<td>2.4</td>
</tr>
<tr>
<td>Increased ALT</td>
<td>0.6</td>
</tr>
<tr>
<td>Hyperuricemia</td>
<td>1.2</td>
</tr>
<tr>
<td>Increased creatinine</td>
<td>1.2</td>
</tr>
<tr>
<td>Neutropenia</td>
<td>1.2</td>
</tr>
<tr>
<td>Hyperkalemia</td>
<td>1.2</td>
</tr>
<tr>
<td>Hypokalemia</td>
<td>1.2</td>
</tr>
<tr>
<td>Hypoalbuminemia</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Non-Small Cell Lung Cancer

The safety of IMFINZI in patients with Stage III NSCLC who completed concurrent platinum-based chemotherapy within 42 days prior to initiation of study drug was evaluated in the PACIFIC study, a multicenter, randomized, double-blind, placebo-controlled study. A total of 475 patients received IMFINZI 10 mg/kg intravenously every 2 weeks. The study excluded patients who had disease progression following chemoradiation, with active or prior autoimmune disease within 2 years of initiation of the study or with medical conditions that required systemic immunosuppression [see Clinical Studies (14.2)].

The study population characteristics were: median age of 64 years (range: 23 to 90), 45% age 65 years or older, 70% male, 69% White, 27% Asian, 73% former smoker, 16% current smoker, and 51% had WHO performance status of 1. All patients received definitive radiotherapy as per protocol, of which 92% received a total radiation dose of 54 Gy to 66 Gy. The median duration of exposure to IMFINZI was 10 months (range: 0.2 to 12.6).

Table 5. Adverse Reactions Occurring in ≥ 10% Patients in the PACIFIC Study

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>IMFINZI N = 475</th>
<th>Placebo1 N = 234</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory, Thoracic, and Mediastinal Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cough/Productive Cough</td>
<td>40 0.6</td>
<td>30 0.4</td>
</tr>
<tr>
<td>Pneumonitis/Radiation Pneumonitis</td>
<td>34 3.4</td>
<td>25 3</td>
</tr>
<tr>
<td>Dyspnea</td>
<td>25 1.5</td>
<td>25 2.6</td>
</tr>
<tr>
<td>Gastrointestinal Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diarrhea</td>
<td>18 0.6</td>
<td>19 1.3</td>
</tr>
<tr>
<td>Abdominal pain</td>
<td>10 0.4</td>
<td>6 0.4</td>
</tr>
<tr>
<td>Endocrine Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hypothyroidism2</td>
<td>12 0.2</td>
<td>1.7 0</td>
</tr>
<tr>
<td>General Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fatigue</td>
<td>34 0.8</td>
<td>32 1.3</td>
</tr>
<tr>
<td>Pyrexia</td>
<td>15 0.2</td>
<td>9 0</td>
</tr>
<tr>
<td>Infections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper respiratory tract infections</td>
<td>26 0.4</td>
<td>19 0</td>
</tr>
<tr>
<td>Pneumonia</td>
<td>17 7</td>
<td>12 6</td>
</tr>
</tbody>
</table>

1 The PACIFIC study was not designed to demonstrate statistically significant difference in adverse reaction rates for IMFINZI, as compared to placebo, for any specific adverse reaction listed in Table 4
2 Includes acute interstitial pneumonitis, interstitial lung disease, pneumonitis, pulmonary fibrosis
3 Includes dyspnea, and exertional dyspnea
4 Includes abdominal pain, abdominal pain lower, abdominal pain upper, and flank pain
5 Includes autoimmune hypothyroidism and hypothyroidism
6 Includes rash erythematous, rash generalized, rash macular, rash maculopapular, rash papular, rash pruritic, rash pustular, skin toxicity, eczema, erythema, and dermatitis
7 Includes pruritus generalized and pruritus
8 Includes asthenia and fatigue
9 Includes laryngitis, nasopharyngitis, peritonsillar abscess, pharyngitis, rhinitis, sinusitis, tonsillitis, tracheobronchitis, and upper respiratory tract infection
10 Includes lung infection, pneumocystis jiroveci pneumonia, pneumonia, adenoviral pneumonia, pneumonia bacterial, pneumonia cytomegaloviral, pneumonia haemophilus, pneumonia klebsiella, pneumonia necrotising, pneumonia pneumococcal, and pneumonia streptococcal

Other adverse reactions occurring in less than 10% of patients treated with IMFINZI were dysphonia, dysuria, night sweats, peripheral edema, and increased susceptibility to infections.

Table 6 summarizes the laboratory abnormalities that occurred in at least 20% of patients treated with IMFINZI.
Table 7. Adverse Reactions Occurring in ≥ 20% of Patients in the PACIFIC Study

<table>
<thead>
<tr>
<th>Laboratory Abnormality</th>
<th>IMFINZI Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Grades (%)</td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td></td>
</tr>
<tr>
<td>Hyperglycemia</td>
<td>52</td>
</tr>
<tr>
<td>Hypocalcemia</td>
<td>46</td>
</tr>
<tr>
<td>Increased ALT</td>
<td>39</td>
</tr>
<tr>
<td>Increased AST</td>
<td>36</td>
</tr>
<tr>
<td>Hyponatremia</td>
<td>33</td>
</tr>
<tr>
<td>Hyperkalemia</td>
<td>32</td>
</tr>
<tr>
<td>Increased GGT</td>
<td>24</td>
</tr>
<tr>
<td><strong>Hematology</strong></td>
<td></td>
</tr>
<tr>
<td>Lymphopenia</td>
<td>43</td>
</tr>
</tbody>
</table>

1 Graded according to NCI CTCAE version 4.0
2 Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: IMFINZI (range: 494 to 470) and placebo (range: 224 to 228)

Small Cell Lung Cancer

The safety of IMFINZI in combination with etoposide and either carboplatin or cisplatin in previously untreated ES-SCLC was evaluated in CASPIAN, a randomized, open-label, multicenter, active-controlled trial. A total of 265 patients received IMFINZI 1500 mg in combination with chemotherapy every 3 weeks for 4 cycles followed by IMFINZI 1500 mg every 4 weeks until disease progression or unacceptable toxicity. The trial excluded patients with active or prior autoimmune disease or with medical conditions that required systemic corticosteroids or immunosuppressants [see Clinical Studies (14.3)]. Among 265 patients receiving IMFINZI, 49% were exposed for 6 months or longer and 19% were exposed for 12 months or longer.

Among 266 patients receiving chemotherapy alone, 57% of the patients received 6 cycles of chemotherapy and 8% of the patients received PCI after chemotherapy. IMFINZI was discontinued due to adverse reactions in 7% of the patients receiving IMFINZI plus chemotherapy. These include pneumonitis, hepatotoxicity, neurotoxicity, sepsis, diabete ketoacidosis and pancytopenia (1 patient each). Serious adverse reactions occurred in 31% of patients receiving IMFINZI plus chemotherapy. The most frequent serious adverse reactions reported in at least 1% of patients were febrile neutropenia (4.5%), pneumonia (2.3%), anemia (1.9%), pancytopenia (1.5%), pneumonitis (1.1%) and COPD (1.1%). Fatal adverse reactions occurred in 4.9% of patients receiving IMFINZI plus chemotherapy. These include pneumonitis, hepatotoxicity, neurotoxicity, sepsis, diabete ketoacidosis and pancytopenia (1 patient each) and sudden death (2 patients). The most common adverse reactions (occurring in ≥ 20% of patients) were nausea, fatigue/asthenia and alopecia.

Table 7 summarizes the adverse reactions that occurred in patients treated with IMFINZI plus chemotherapy.

Table 8. Laboratory Abnormalities Worsening from Baseline Occurring in ≥ 20% of Patients in the PACIFIC Study

<table>
<thead>
<tr>
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<tr>
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1 Graded according to NCI CTCAE version 4.0
2 Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: IMFINZI (range: 494 to 470) and placebo (range: 224 to 228)

6.2 Immunogenicity

As with all therapeutic proteins, there is a potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to durvalumab to the incidence of antibodies to other products may be misleading.

Of 2280 patients who received IMFINZI 10 mg/kg every 2 weeks or 20 mg/kg every 4 weeks as a single-agent, 69 patients (3%) tested positive for treatment-emergent anti-drug antibodies (ADA) and 12 (0.5%) tested positive for neutralizing antibodies. The development of ADA against durvalumab appears to have no clinically relevant effect on its pharmacokinetics or safety.

Of 201 patients in the CASPIAN study who received IMFINZI 1500 mg every 3 weeks in combination with chemotherapy for four doses followed by IMFINZI 1500 mg every 4 weeks no patients tested positive for treatment-emergent ADA.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk summary

Based on its mechanism of action and data from animal studies, IMFINZI can cause fetal harm when administered to a pregnant woman [see Clinical Pharmacology (12.1)]. There are no data on the use of IMFINZI in pregnant women.

In animal reproduction studies, administration of durvalumab to pregnant cynomolgus monkeys from the confirmation of pregnancy through delivery resulted in an increase in premature delivery, fetal loss, and premature neonatal death (see Data). Human immunoglobulin G1 (IgG1) is known to cross the placental barrier; therefore, durvalumab has the potential to be transmitted from the mother to the developing fetus. Apprise pregnant women of the potential risk to a fetus.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Data

Animal Data

As reported in the literature, the PD-1/PD-L1 pathway plays a central role in preserving pregnancy by maintaining maternal immune tolerance to the fetus. In mouse allogenic pregnancy models, disruption of PD-L1 signaling was shown to preservation of pregnancy by maintaining maternal immune tolerance to the fetus.
result in an increase in fetal loss. The effects of durvalumab on prenatal and postnatal development were evaluated in reproduction studies in cynomolgus monkeys. Durvalumab was administered from the confirmation of pregnancy through delivery at exposure levels approximately 6 to 20 times higher than those observed at the recommended clinical dose of 10 mg/kg (based on AUC). Administration of durvalumab resulted in premature delivery, fetal loss (abortion and stillbirth), and increase in neonatal deaths. Durvalumab was detected in infant serum on postpartum Day 1, indicating the presence of placental transfer of durvalumab. Based on its mechanism of action, fetal exposure to durvalumab may increase the risk of developing immune-mediated disorders or altering the normal immune response and immune-mediated disorders have been reported in PD-1 knockout mice.

8.2 Lactation

Risk Summary

There is no information regarding the presence of durvalumab in human milk, the effects on the breastfed infant, or the effects on milk production. Human IgG1 is excreted in human milk. Durvalumab was present in the milk of lactating cynomolgus monkeys and was associated with premature neonatal death (see Data).

Because of the potential for adverse reactions in breastfed infants, advise women not to breastfeeding during treatment with IMFINZI and for at least 3 months after the last dose.

Data

In lactating cynomolgus monkeys, durvalumab was present in breast milk at about 0.15% of maternal serum concentrations after administration of durvalumab from the confirmation of pregnancy through delivery at exposure levels approximately 6 to 20 times higher than those observed at the recommended clinical dose of 10 mg/kg (based on AUC). Administration of durvalumab resulted in premature neonatal death.

8.3 Females and Males of Reproductive Potential

Contraception

Females

Based on its mechanism of action and data from animal studies, IMFINZI can cause fetal harm when administered to a pregnant woman [see Use in Specific Populations (8.1)]. Advise females of reproductive potential to use effective contraception during treatment with IMFINZI and for at least 3 months following the last dose of IMFINZI.

8.4 Pediatric Use

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

8.5 Geriatric Use

Of the 182 patients treated with IMFINZI in patients with urothelial carcinoma, 112 patients were 65 years or older and 34 patients were 75 years or older. The overall response rate in patients 65 years or older was 15% (17/112) and was 12% (4/34) in patients 75 years or older. Grade 3 or 4 adverse reactions occurred in 38% (42/112) of patients 65 years or older and 35% (12/34) of patients 75 years or older. Of the 476 treated patients with IMFINZI in the PACIFIC study, 45% were 65 years or older, while 7.6% were 75 years or older. No overall differences in safety or effectiveness were observed between patients 65 years or older and younger patients. The PACIFIC study did not include sufficient numbers of patients aged 75 years and over to determine whether they respond differently from younger patients.

Of the 265 patients with ES-SCLC treated with IMFINZI in combination with chemotherapy, 101 (38%) patients were 65 years or older and 19 (7.2%) patients were 75 years or older. There were no clinically meaningful differences in safety or efficacy between patients 65 years or older and younger patients.

11 DESCRIPTION

Durvalumab is a programmed cell death ligand 1 (PD-L1) blocking antibody. Durvalumab is a human immunoglobulin G1 kappa (IgG1kappa) monoclonal antibody that is produced by recombinant DNA technology in Chinese Hamster Ovary (CHO) cell suspension culture. IMFINZI (durvalumab) Injection for intravenous use is a sterile, preservative-free, clear to opalescent, colorless to slightly yellow solution, free from visible particles. Each 120 mg vial of IMFINZI contains 120 mg of durvalumab in 2.4 mL solution. Each 500 mg vial of IMFINZI contains 500 mg of durvalumab in 10 mL solution.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Expression of programmed cell death ligand-1 (PD-L1) can be induced by inflammatory signals (e.g., IFN-gamma) and can be expressed on both tumor cells and tumor-associated immune cells in the tumor microenvironment. PD-L1 blocks T-cell function and activation through interaction with PD-1 and CD80 (B7.1). By binding to its receptors, PD-L1 reduces cytotoxic T-cell activity, proliferation, and cytokine production.

Durvalumab is a human immunoglobulin G1 kappa (IgG1kappa) monoclonal antibody that binds to PD-L1 and blocks the interaction of PD-L1 with PD-1 and CD80 (B7.1). Blockade of PD-L1/PD-1 and PD-L1/CD80 interactions releases the inhibition of immune responses, without inducing antibody dependent cell-mediated cytotoxicity (ADCC).

PD-L1 blockade with durvalumab led to increased T-cell activation in vitro and decreased tumor size in co-engrafted human tumor and immune cell xenograft mouse models.

12.3 Pharmacokinetics

The pharmacokinetics of durvalumab as a single agent was studied in patients with doses ranging from 0.1 mg/kg (0.01 times the approved recommended dosage) to 20 mg/kg (2 times the approved recommended dosage) administered once every two, three, or four weeks. PK exposure increased more than dose-proportionally at doses < 3 mg/kg (0.3 times the approved recommended dosage) and dose proportionally at doses ≥ 3 mg/kg every 2 weeks. Steady state was achieved at approximately 10 weeks.

The pharmacokinetics of durvalumab is similar when assessed as a single agent and when in combination with chemotherapy.

Distribution

The geometric mean (% coefficient of variation [CV%]) steady state volume of distribution (Vss) was 5.6 (18%) L.

Elimination

Durvalumab clearance decreases over time, with a mean maximal reduction (CV%) from baseline values of approximately 23% (57%) resulting in a geometric mean (CV%) steady state clearance (CLss) of 8.2 mL/h (39%) at day 365; the decrease in CLss is not considered clinically relevant. The geometric mean (CV%) terminal half-life, based on baseline CL was approximately 18 (24%) days.

Specific Populations

Age (19–96 years), body weight (31–149 kg), sex, albumin levels, lactate dehydrogenase (LDH) levels, creatinine levels, soluble PD-L1, tumor type, race, mild renal impairment (creatinine clearance (CLcr) 60 to 89 mL/min), moderate renal impairment (CLcr 30 to 59 mL/min), mild hepatic impairment (bilirubin ≤ ULN and AST ≤ ULN or bilirubin > 1 to 1.5x ULN and any AST), or ECOG/WHO performance status had no clinically significant effect on the pharmacokinetics of durvalumab.

The effect of severe renal impairment (CLcr 15 to 29 mL/min) or moderate hepatic impairment (bilirubin > 1.5 to 3x ULN and any AST) or severe hepatic impairment (bilirubin > 3x ULN and any AST) on the pharmacokinetics of durvalumab is unknown.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

The carcinogenic and genotoxic potential of durvalumab have not been evaluated.

Animal fertility studies have not been conducted with durvalumab. In repeat-dose toxicology studies with durvalumab in sexually mature cynomolgus monkeys of up to 3 months duration, there were no notable effects on the male and female reproductive organs.

13.2 Animal Toxicology and/or Pharmacology

In animal models, inhibition of PD-L1/PD-1 signaling increased the severity of some infections and enhanced inflammatory responses. M. tuberculosis-infected PD-1 knockout mice exhibit markedly decreased survival compared with wild-type controls, which correlated with increased bacterial proliferation and inflammatory responses in these animals. PD-L1 and PD-1 knockout mice have also shown decreased survival following infection with lymphocytic choriomeningitis virus.

14 CLINICAL STUDIES

14.1 Urothelial Carcinoma

The efficacy of IMFINZI was evaluated in the urothelial carcinoma cohort of Study 1108 (NCT01693562), a multicenter, multi-cohort, open-label clinical trial. In Study 1108, 182 patients with locally advanced or metastatic urothelial carcinoma were enrolled. Patients who progressed while on or after a platinum-based therapy, including those who progressed within 12 months of receiving therapy in a neo-adjuvant or adjuvant setting. These patients had initiated IMFINZI at least 13 weeks prior to the data cut-off date. The trial excluded patients with a history of immunodeficiency; medical conditions that required systemic immunosuppression (not to exceed 10 mg per day of prednisone or equivalent); history of severe autoimmune disease; untreated
CNS metastases: HIV, active tuberculosis, or hepatitis B or C infection. All patients received IMFINZI 10 mg/kg intravenously every 2 weeks for up to 12 months or until unacceptable toxicity or disease progression. Tumor assessments were performed at Weeks 6, 12, and 16, then every 8 weeks for the first year and every 12 weeks thereafter. The major efficacy outcome measures were confirmed Overall Response Rate (ORR) according to RECIST v1.1 as assessed by Blinded Independent Central Review (BICR), and duration of response (DoR).

The median age was 67 years (range: 34 to 88), 72% were male, 64% were White. Sixty-six percent (66%) of patients had visceral metastasis (bone, liver, or lung), including 34% with liver metastasis. Lymph node only metastasis were present in 13% of patients. Sixty-six percent (66%) of patients had ECOG score of 1 and 41% of patients had a baseline creatinine clearance < 60 mL/min. The Bellmunt risk score (which includes ECOG score, baseline hemoglobin, and liver metastases) was 0 in 22%, 1 in 38%, 2 in 29%, and 3 in 9% of patients. Twenty percent (20%) of patients had disease progression following platinum-containing neoadjuvant or adjuvant chemotherapy as their only prior line of therapy. Seventy percent (70%) of patients received prior cisplatin, 30% prior carboplatin and 35% received ≥ 2 prior lines of systemic therapy.

Tumor specimens were evaluated prospectively for PD-L1 expression on tumor cells (TC) and immune cells (IC) at a central laboratory using the VENTANA PD-L1 (SP263) Assay. Of the 182 patients, 52% were classified as PD-L1 high (if ICs involve > 1% of the tumor area, TC ≥ 25% or IC ≥ 25%; if ICs involve < 1% of the tumor area, TC ≥ 25% or IC = 100%), 40% as PD-L1 low/negative (did not meet criterion for PD-L1 high), and samples for 6% were not evaluable.

Table 9 summarizes the results in the urothelial carcinoma cohort of Study 1108. The median follow-up time was 5.6 months. In 37 patients who had received only neoadjuvant or adjuvant therapy prior to study entry, 24% responded.

Among the total 31 responding patients, 45% had ongoing responses of 6 months or longer and 16% had ongoing responses of 12 months or longer.

Table 9. Efficacy Results for Study 1108 Urothelial Carcinoma Cohort

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>All Patients</th>
<th>PD-L1 High</th>
<th>PD-L1 Low/Negative</th>
<th>PD-L1 NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Response Rate by BICR</td>
<td>31 (17%)</td>
<td>25 (26%)</td>
<td>3 (4%)</td>
<td>3 (21%)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(11.9, 23.3)</td>
<td>(17.8, 36.4)</td>
<td>(0.9, 11.5)</td>
<td>(4.7, 50.8)</td>
</tr>
<tr>
<td>Complete Response, n</td>
<td>5</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Partial Response, n</td>
<td>26</td>
<td>22</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

BICR = Blinded Independent Central Review; NR = Not Reached; + denotes a censored value

14.2 Non-Small Cell Lung Cancer (NSCLC)

The efficacy of IMFINZI was evaluated in the PACIFIC study (NCT02125461), a multicenter, randomized, double-blind, placebo-controlled study in patients with unresectable Stage IIIB NSCLC who completed at least 2 cycles of concurrent platinum-based chemotherapy, concurrent radiation within 42 days prior to initiation of the study drug, and had a WHO performance status of 0 or 1. The study excluded patients who had progressed following concurrent chemoradiation, patients with active or prior documented autoimmune disease within 2 years of initiation of the study or patients with medical conditions that required systemic immunosuppression. Randomization was stratified by sex, age (< 65 years vs. ≥ 65 years), and smoking history (smoker vs. non-smoker). Patients were randomized 2:1 to receive IMFINZI 10 mg/kg or placebo intravenously every 2 weeks for up to 12 months or until unacceptable toxicity or confirmed RECIST v1.1-defined progression. Assessment of tumor status was performed every 8 weeks. The major efficacy outcome measures were progression-free survival (PFS) as assessed by a BICR RECIST v1.1, and overall survival (OS). Additional efficacy outcome measures included ORR and DoR as assessed by BICR.

A total of 713 patients were randomized: 476 patients to the IMFINZI arm and 237 to the placebo arm. The study population characteristics were: median age of 64 years (range: 23 to 90); 76% male; 89% White and 27% Asian; 16% current smokers, 75% former smokers, and 9% never smokers; 51% WHO performance status of 1; 53% with Stage IIIA and 45% were Stage IIIB; 46% with squamous and 54% with nonsquamous histology. All patients received definitive radiotherapy as per protocol, of which 92% received a total radiation dose of 54 Go to 66 Gy; 99% of patients received concomitant platinum-based chemotherapy (55% cisplatin-based, 42% carboplatin-based chemotherapy, and 2% switched between cisplatin and carboplatin). At a pre-specified interim analysis for OS based on 299 events (61% of total planned events), the study demonstrated a statistically significant improvement in OS in patients randomized to IMFINZI compared to placebo. The pre-specified interim analysis of PFS based on 371 events (81% of total planned events) demonstrated a statistically significant improvement in PFS in patients randomized to IMFINZI compared to placebo. Table 10 and Figure 1 summarizes the efficacy results for PACIFIC.

Table 10. Efficacy Results for the PACIFIC Study

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>IMFINZI (N = 476)</th>
<th>Placebo (N = 237)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Survival (OS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of deaths</td>
<td>183 (38%)</td>
<td>116 (49%)</td>
</tr>
<tr>
<td>Median in months (95% CI)</td>
<td>NR (34.7, NR)</td>
<td>28.7 (22.9, NR)</td>
</tr>
<tr>
<td>Hazard Ratio (95% CI)</td>
<td>0.68 (0.53, 0.87)</td>
<td></td>
</tr>
<tr>
<td>p-value</td>
<td>0.0025</td>
<td></td>
</tr>
</tbody>
</table>

Number of patients with event | 214 (45%) | 157 (66%) |
| Hazard Ratio (95% CI) | 0.52 (0.42, 0.65) | | |
| p-value | < 0.0001 | | |

1 Among the ITT population, 7% in the IMFINZI arm and 10% in the placebo arm had non-measurable disease as assessed by BICR according to RECIST v1.1.
2 OS results are based on the interim OS analysis conducted at 299 OS events which occurred 46 months after study initiation.
3 Two-sided p-value based on a log-rank test stratified by sex, age, and smoking history.
4 Compared with allocated α of 0.00274 (Lan DeMets spending function approximating O'Brien Fleming boundary) for interim analysis.
5 As assessed by BICR RECIST v1.1.
6 PFS results are based on the interim PFS analysis conducted at 371 PFS events which occurred 33 months after study initiation.
7 Pike estimator.
8 Compared with allocated α of 0.011035 (Lan DeMets spending function approximating O'Brien Fleming boundary) for interim analysis.

Figure 1 Kaplan-Meier Curves of Overall Survival in the PACIFIC Study

14.3 Small Cell Lung Cancer (SCLC)

The efficacy of IMFINZI in combination with etoposide and either carboplatin or cisplatin in previously untreated ES-SCLC was investigated in CASPIAN, a randomized, multicenter, active-controlled, open-label trial (NCT03043872). Eligible patients had WHO Performance Status of 0 or 1 and were suitable to receive a platinum-based chemotherapy regimen as first-line treatment for SCLC. Patients with asymptomatic or treated brain metastases were eligible. Choice of platinum agent was at the investigator's discretion, taking into consideration the calculated creatinine clearance. Patients with history of chest radiation therapy; a history of active primary immunodeficiency; autoimmune disorders including paraneoplastic syndrome; active or prior documented autoimmune or inflammatory disorders; use of systemic immunosuppressants within 14 days before the first dose of the treatment except physiological dose of systemic corticosteroids were ineligible. Randomization was stratified by the planned platinum-based therapy in cycle 1 (carboplatin or cisplatin).

The evaluation of efficacy for ES-SCLC relied on comparison between:

- IMFINZI 1500 mg, and investigator's choice of carboplatin (AUC 5 or 6 mg/m2/min) or cisplatin (75-80 mg/m2) on Day 1 and etoposide (80-100 mg/m2) intravenously on Days 1, 2, and 3 of each 21-day cycle for 4 cycles, followed by IMFINZI 1500 mg every 4 weeks until disease progression or unacceptable toxicity, or
- Investigator's choice of carboplatin (AUC 5 or 6 mg/m2/min) or cisplatin (75-80 mg/m2) on Day 1 and etoposide (80-100 mg/m2) intravenously on Days 1, 2, and 3 of each 21-day cycle, up to 6 cycles. After completion of chemotherapy, prophylactic cranial irradiation (PCI) as administered per investigator discretion.
Administration of IMFINZI as a single agent was permitted beyond disease progression if the patient was clinically stable and deriving clinical benefit as determined by the investigator. The major efficacy outcome measure was overall survival (OS) of IMFINZI plus chemotherapy vs. chemotherapy alone. Additional efficacy outcome measures were investigator-assessed progression-free survival (PFS) and objective response rate (ORR), per RECIST v1.1.

The study population characteristics were: median age of 63 years (range: 28 to 82); 40% age 65 or older; 70% male; 84% White, 15% Asian, and 0.9% Black, 65% WHO/ECOG PS of 1; and 93% were former/current smokers. Ninety percent of patients had Stage IV disease and 10% had brain metastasis at baseline. A total of 25% of the patients received cisplatin and 74% of the patients received carboplatin. In the chemotherapy alone arm, 57% of the patients received 6 cycles of chemotherapy, and 8% of the patients received PCI.

The OS results are summarized in Table 11 and Figure 2.

Table 11. OS Result for the CASPIAN Study

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>IMFINZI with Etoposide and either Carboplatin or Cisplatin (n=268)</th>
<th>Etoposide and either Carboplatin or Cisplatin (n=269)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Survival (OS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of deaths (%)</td>
<td>155 (58)</td>
<td>181 (67)</td>
</tr>
<tr>
<td>Median OS (months) (95% CI)</td>
<td>13.0 (11.5, 14.8)</td>
<td>10.3 (9.3, 11.2)</td>
</tr>
<tr>
<td>Hazard Ratio (95% CI)</td>
<td>0.73 (0.59, 0.91)</td>
<td></td>
</tr>
<tr>
<td>p-value</td>
<td>0.0047</td>
<td></td>
</tr>
</tbody>
</table>

1 At a pre-specified interim analysis, 336 OS events (79% of total planned events) were observed, and the boundary for declaring efficacy (0.0178) was determined by a Lan-Demets alpha spending function with O’Brien Fleming type boundary

2 The analysis was performed using the stratified log-rank test, adjusting for planned platinum therapy in Cycle 1 (carboplatin or cisplatin) and using the rank tests of association approach

Figure 2. Kaplan-Meier Curves of Overall Survival in the CASPIAN Study

16 HOW SUPPLIED/STORAGE AND HANDLING
IMFINZI (durvalumab) Injection is a clear to opalescent, colorless to slightly yellow solution supplied in a carton containing one single-dose vial either as:
- 500 mg/10 mL (NDC 0310-4611-50)
- 120 mg/2.4 mL (NDC 0310-4500-12)

Store in a refrigerator at 2°C to 8°C (36°F to 46°F) in original carton to protect from light.

Do not freeze. Do not shake.

17 PATIENT COUNSELING INFORMATION
Advising the patient to read the FDA-approved patient labeling (Medication Guide).

Inform patients of the risk of immune-mediated adverse reactions that may require corticosteroid treatment and interruption or discontinuation of IMFINZI, including:
- Pneumonitis: Advise patients to contact their healthcare provider immediately for any new or worsening cough, chest pain, or shortness of breath [see Warnings and Precautions (5.1)].
- Hepatitis: Advise patients to contact their healthcare provider immediately for jaundice, severe nausea or vomiting, pain on the right side of abdomen, lethargy, or easy bruising or bleeding [see Warnings and Precautions (5.2)].
- Colitis: Advise patients to contact their healthcare provider immediately for diarrhea, blood or mucus in stools, or severe abdominal pain [see Warnings and Precautions (5.3)].
- Endocrinopathies: Advise patients to contact their healthcare provider immediately for signs or symptoms of hypothyroidism, hyperthyroidism, adrenal insufficiency, type 1 diabetes mellitus, or hypophysitis [see Warnings and Precautions (5.4)].
- Nephritis: Advise patients to contact their healthcare provider immediately for signs or symptoms of nephritis [see Warnings and Precautions (5.5)].
- Dermatological Reactions: Advise patients to contact their healthcare provider immediately for signs or symptoms of severe dermatological reactions [see Warnings and Precautions (5.6)].
- Other Immune-Mediated Adverse Reactions: Advise patients to contact their healthcare provider immediately for signs or symptoms of aseptic meningitis, thrombocytopenic purpura, myocarditis, hemolytic anemia, myositis, uveitis, keratitis, and myasthenia gravis [see Warnings and Precautions (5.7)].

Infection: Advise patients to contact their healthcare provider immediately for infection [see Warnings and Precautions (5.8)].

Infusion-Related Reactions: Advise patients to contact their healthcare provider immediately for signs or symptoms of infusion-related reactions [see Warnings and Precautions (5.9)].

Embryo-Fetal Toxicity: Advise females of reproductive potential that IMFINZI can cause harm to a fetus and to inform their healthcare provider of a known or suspected pregnancy [see Warnings and Precautions (5.10) and Use in Specific Populations (8.1, 8.3)].

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

Lactation: Advise female patients not to breastfeed while taking IMFINZI and for at least 3 months after the last dose [see Warnings and Precautions (5.10) and Use in Specific Populations (8.2)].

Manufactured for:
AstraZeneca Pharmaceuticals LP
Wilmington, DE 19850

By: AstraZeneca UK Limited
1 Francis Crick Ave.
Cambridge, England CB2 0AA
US License No. 2043

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06/20 US-41746 6/20
IMFINZI® (durvalumab) injection, for intravenous use

MEDICATION GUIDE
IMFINZI® (im-FIN-zee)
(durvalumab)
injection

What is the most important information I should know about IMFINZI?
IMFINZI is a medicine that may treat a type of cancer in the bladder and urinary tract or certain types of lung cancer by working with your immune system.

IMFINZI can cause your immune system to attack normal organs and tissues and can affect the way they work. These problems can sometimes become serious or life-threatening and can lead to death.

Call or see your healthcare provider right away if you develop any symptoms of the following problems or these symptoms get worse:

Lung problems (pneumonitis). Signs and symptoms of pneumonitis may include:
- new or worsening cough
- shortness of breath
- chest pain

Liver problems (hepatitis). Signs and symptoms of hepatitis may include:
- yellowing of your skin or the whites of your eyes
- dark urine (tea colored)
- severe nausea or vomiting
- bleeding or bruising more easily than normal
- pain on the right side of your stomach area (abdomen)
- feeling less hungry than usual
- drowsiness

Intestinal problems (colitis). Signs and symptoms of colitis may include:
- diarrhea or more bowel movements than usual
- stools that are black, tarry, sticky, or have blood or mucus
- severe stomach area (abdomen) pain or tenderness

Hormone gland problems (especially the thyroid, adrenals, pituitary, and pancreas). Signs and symptoms that your hormone glands are not working properly may include:
- headaches that will not go away or unusual headaches
- feeling cold
- extreme tiredness
- weight gain or weight loss
- constipation
- dizziness or fainting
- your voice gets deeper
- feeling more hungry or thirsty than usual
- urinating more often than usual
- hair loss
- nausea or vomiting
- changes in mood or behavior, such as decreased sex drive, irritability, or forgetfulness
- stomach area (abdomen) pain

Kidney problems, including nephritis and kidney failure. Signs of kidney problems may include:
- decrease in the amount of urine
- swelling of your ankles
- blood in your urine
- loss of appetite

Skin problems. Signs of these problems may include:
- rash
- skin blistering
- itching
### Problems in other organs...

<table>
<thead>
<tr>
<th>Signs and symptoms may include:</th>
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<tbody>
<tr>
<td>• neck stiffness</td>
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<tr>
<td>• headache</td>
</tr>
<tr>
<td>• confusion</td>
</tr>
<tr>
<td>• fever</td>
</tr>
<tr>
<td>• chest pain, shortness of breath, or irregular heartbeat (myocarditis)</td>
</tr>
<tr>
<td>• severe or persistent muscle pain</td>
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<tr>
<td>• severe muscle weakness</td>
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</table>

### Severe Infections...

<table>
<thead>
<tr>
<th>Signs and symptoms may include:</th>
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</thead>
<tbody>
<tr>
<td>• fever</td>
</tr>
<tr>
<td>• cough</td>
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<tr>
<td>• frequent urination</td>
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</table>

### Severe infusion reactions...

<table>
<thead>
<tr>
<th>Signs and symptoms of severe infusion reactions may include:</th>
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<tr>
<td>• chills or shaking</td>
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<tr>
<td>• itching or rash</td>
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<tr>
<td>• flushing</td>
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<tr>
<td>• shortness of breath or wheezing</td>
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<tr>
<td>• dizziness</td>
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</tbody>
</table>

Getting medical treatment right away may help keep these problems from becoming more serious.

Your healthcare provider will check you for these problems during your treatment with IMFINZI. Your healthcare provider may treat you with corticosteroid or hormone replacement medicines. Your healthcare provider may delay or completely stop treatment with IMFINZI, if you have severe side effects.

### What is IMFINZI?

**IMFINZI** is a prescription medicine used to treat adults with:

- a type of cancer in the bladder and urinary tract called urothelial carcinoma. IMFINZI may be used when your urothelial carcinoma:
  - has spread or cannot be removed by surgery, **and**
  - you have tried chemotherapy that contains platinum, and it did not work or is no longer working.

- a type of lung cancer called non-small cell lung cancer (NSCLC). IMFINZI may be used when your NSCLC:
  - has not spread outside your chest
  - cannot be removed by surgery, **and**
  - has responded or stabilized with initial treatment with chemotherapy that contains platinum, given at the same time as radiation therapy.

- a type of lung cancer called small cell lung cancer (SCLC). IMFINZI may be used with the chemotherapy medicines etoposide and carboplatin or cisplatin as your first treatment when your SCLC:
  - has spread within your lungs or to other parts of the body, (extensive-stage small cell lung cancer, or ES-SCLC).

It is not known if IMFINZI is safe and effective in children.

### Before you receive IMFINZI...

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

- have immune system problems such as Crohn’s disease, ulcerative colitis, or lupus.
- have had an organ transplant.
- have lung or breathing problems.
- have liver problems.
- are being treated for an infection.
- are pregnant or plan to become pregnant. IMFINZI can harm your unborn baby. If you are able to become pregnant, you should use an effective method of birth control during your treatment and for at least 3 months after the last dose of IMFINZI. Talk to your healthcare provider about birth control methods that you can use during this time. Tell your healthcare provider right away if you become pregnant during treatment with IMFINZI.
- are breastfeeding or plan to breastfeed. It is not known if IMFINZI passes into your breast milk. Do not breastfeed during treatment and for at least 3 months after the last dose of IMFINZI.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.
**How will I receive IMFINZI?**
- Your healthcare provider will give you IMFINZI into your vein through an intravenous (IV) line over 60 minutes.
- IMFINZI is usually given every 2, 3 or 4 weeks.
- Your healthcare provider will decide how many treatments you need.
- Your healthcare provider will test your blood to check you for certain side effects.
- If you miss any appointments, call your healthcare provider as soon as possible to reschedule your appointment.

**What are the possible side effects of IMFINZI?**

**IMFINZI can cause serious side effects, including:**

See “What is the most important information I should know about IMFINZI?”

The most common side effects of IMFINZI in people with urothelial carcinoma include:
- feeling tired
- muscle or bone pain
- constipation
- decreased appetite
- nausea
- swelling of your arms and legs
- urinary tract infection

The most common side effects of IMFINZI in people with NSCLC include:
- cough
- feeling tired
- inflammation in the lungs (pneumonitis)
- upper respiratory tract infections
- shortness of breath
- rash

The most common side effects of IMFINZI when used with other anticancer medicines in people with ES-SCLC include:
- nausea
- hair loss
- feeling tired or weak

Tell your doctor if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of IMFINZI. Ask your healthcare provider or pharmacist for more information. Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

**General information about the safe and effective use of IMFINZI.**

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. If you would like more information about IMFINZI, talk with your healthcare provider. You can ask your healthcare provider for information about IMFINZI that is written for health professionals.

**What are the ingredients in IMFINZI?**

**Active ingredient:** durvalumab

**Inactive ingredients:** L-histidine, L-histidine hydrochloride monohydrate, α,α-trehalose dihydrate, polysorbate 80, water for injection, USP.

Manufactured for: AstraZeneca Pharmaceuticals LP, Wilmington, DE 19850
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