

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use FULVESTRANT INJECTION safely and effectively. See full prescribing information for FULVESTRANT INJECTION.

FULVESTRANT injection, for intramuscular use  
Initial U.S. Approval: 2002

-----RECENT MAJOR CHANGES-----

Indications and Usage (1) 3/2019  
Dosage and Administration (2.1, 2.2) 3/2019

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

Fulvestrant Injection is an estrogen receptor antagonist indicated for the treatment of:

- Hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative advanced breast cancer in postmenopausal women not previously treated with endocrine therapy. (1)
- HR-positive advanced breast cancer in postmenopausal women with disease progression following endocrine therapy. (1)
- HR-positive, HER2-negative advanced or metastatic breast cancer in postmenopausal women in combination with ribociclib, as initial endocrine based therapy or following disease progression on endocrine therapy. (1)
- HR-positive, HER2-negative advanced or metastatic breast cancer in combination with palbociclib or abemaciclib in women with disease progression after endocrine therapy. (1)

-----DOSAGE AND ADMINISTRATION-----

- Fulvestrant Injection 500 mg should be administered intramuscularly into the buttocks (gluteal area) slowly (1 to 2 minutes per injection) as two 5 mL injections, one in each buttock, on Days 1, 15, 29, and once monthly thereafter. (2.1, 14)
- A dose of 250 mg is recommended in patients with moderate hepatic impairment to be administered intramuscularly into the buttock (gluteal area) slowly (1 to 2 minutes) as one 5 mL injection on Days 1, 15, 29, and once monthly thereafter. (2.2, 5.2, 8.6)

-----DOSAGE FORMS AND STRENGTHS-----

Injection: 250 mg/5 mL in single-dose prefilled syringe (3)

-----CONTRAINDICATIONS-----

- Hypersensitivity. (4)

-----WARNINGS AND PRECAUTIONS -----

- Risk of Bleeding: Use with caution in patients with bleeding diatheses, thrombocytopenia, or anticoagulant use. (5.1)
- Increased Exposure in Patients with Hepatic Impairment: Use a 250 mg dose for patients with moderate hepatic impairment. (2.2, 5.2, 8.6)
- Injection Site Reaction: Use caution while administering Fulvestrant Injection at the dorsogluteal injection site due to the proximity of the underlying sciatic nerve. (5.3)
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception. (5.4, 8.1, 8.3)
- Immunoassay Measurement of Serum Estradiol: Fulvestrant Injection can interfere with estradiol measurement by immunoassay, resulting in falsely elevated estradiol levels. (5.5)

-----ADVERSE REACTIONS-----

- The most common adverse reactions occurring in ≥5% of patients receiving Fulvestrant Injection 500 mg were: injection site pain, nausea, bone pain, arthralgia, headache, back pain, fatigue, pain in extremity, hot flash, vomiting, anorexia, asthenia, musculoskeletal pain, cough, dyspnea, and constipation. (6.1)
- Increased hepatic enzymes (ALT, AST, ALP) occurred in >15% of Fulvestrant Injection patients and were not dose-dependent. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Teva Pharmaceuticals USA, Inc. at 1-888-838-2872 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS-----

- There are no known drug-drug interactions. (7)

-----USE IN SPECIFIC POPULATIONS-----

- Lactation: Advise not to breastfeed. (8.2)

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

Revised: 08/2019

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

#### Monotherapy

Fulvestrant Injection is indicated for the treatment of:

- Hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative advanced breast cancer in postmenopausal women not previously treated with endocrine therapy, or
- HR-positive advanced breast cancer in postmenopausal women with disease progression following endocrine therapy.

#### Combination Therapy

Fulvestrant Injection is indicated for the treatment of:

- HR-positive, HER2-negative advanced or metastatic breast cancer in postmenopausal women in combination with ribociclib as initial endocrine based therapy or following disease progression on endocrine therapy.
- HR-positive, HER2-negative advanced or metastatic breast cancer in combination with palbociclib or abemaciclib in women with disease progression after endocrine therapy.

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Recommended Dose

##### Monotherapy

The recommended dose of Fulvestrant Injection is 500 mg to be administered intramuscularly into the buttocks (gluteal area) slowly (1 to 2 minutes per injection) as two 5 mL injections, one in each buttock, on Days 1, 15, 29, and once monthly thereafter [see *Clinical Studies (14)*].

##### Combination Therapy

When Fulvestrant Injection is used in combination with palbociclib, abemaciclib, or ribociclib, the recommended dose of Fulvestrant Injection is 500 mg to be administered intramuscularly into the buttocks (gluteal area) slowly (1 to 2 minutes per injection) as two 5 mL injections, one in each buttock, on Days 1, 15, 29, and once monthly thereafter.

When Fulvestrant Injection is used in combination with palbociclib, the recommended dose of palbociclib is a 125 mg capsule taken orally once daily for 21 consecutive days followed by 7 days off treatment to comprise a complete cycle of 28 days. Palbociclib should be taken with food. Refer to the Full Prescribing Information for palbociclib.

When Fulvestrant Injection is used in combination with abemaciclib, the recommended dose of abemaciclib is 150 mg orally, twice daily. Abemaciclib may be taken with or without food. Refer to the Full Prescribing Information for abemaciclib.

When Fulvestrant Injection is used in combination with ribociclib, the recommended dose of ribociclib is 600 mg taken orally, once daily for 21 consecutive days followed by 7 days off treatment resulting in a complete cycle of 28 days. Ribociclib can be taken with or without food. Refer to the Full Prescribing Information for ribociclib.

Pre/perimenopausal women treated with the combination of Fulvestrant Injection plus palbociclib, abemaciclib, or ribociclib, should be treated with luteinizing hormone-releasing hormone (LHRH) agonists according to current clinical practice standards [see *Clinical Studies (14)*].

## 2.2 Dose Modification

### Monotherapy

#### *Hepatic Impairment:*

A dose of 250 mg is recommended for patients with moderate hepatic impairment (Child-Pugh class B) to be administered intramuscularly into the buttock (gluteal area) slowly (1 to 2 minutes) as one 5 mL injection on Days 1, 15, 29, and once monthly thereafter.

Fulvestrant Injection has not been evaluated in patients with severe hepatic impairment (Child-Pugh class C) [see *Warnings and Precautions (5.2) and Use in Specific Populations (8.6)*].

### Combination Therapy

When Fulvestrant Injection is used in combination with palbociclib, abemaciclib, or ribociclib, refer to monotherapy dose modification instructions for Fulvestrant Injection.

Refer to the Full Prescribing Information of coadministered palbociclib, abemaciclib, or ribociclib for dose modification guidelines in the event of toxicities, for use with concomitant medications, and other relevant safety information.

## 2.3 Administration Technique

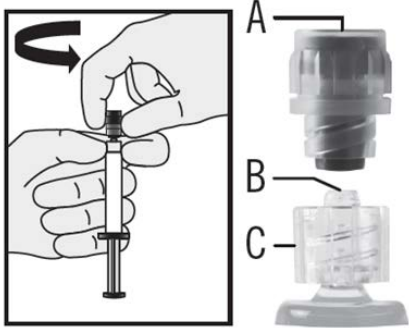
Administer the injection according to the local guidelines for performing large volume intramuscular injections.

NOTE: Due to the proximity of the underlying sciatic nerve, caution should be taken if administering Fulvestrant Injection at the dorsogluteal injection site [see *Warnings and Precautions (5.3) and Adverse Reactions (6.1)*].

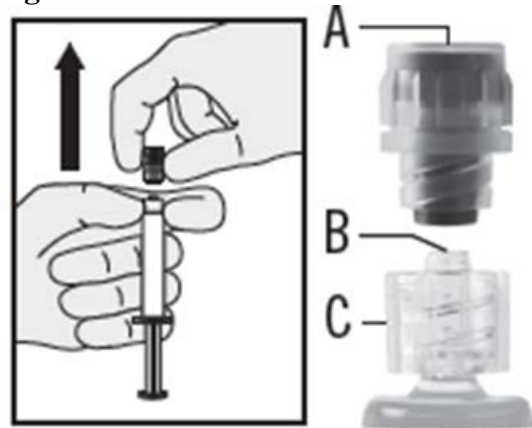
The proper method of administration of Fulvestrant Injection for intramuscular use is described in the following instructions.

For each single-dose prefilled syringe:

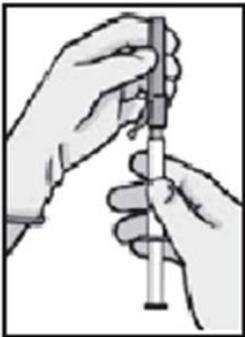
1. Remove glass syringe barrel from tray and check that it is not damaged.
2. Remove perforated patient record label from syringe.
3. Inspect drug product in glass syringe for any visible particulate matter or discoloration prior to use. Discard if particulate matter or discoloration is present.
4. Peel open the safety needle (SafetyGlide™) outer packaging.
5. Hold the syringe upright on the ribbed part (C). With the other hand, take hold of the cap (A) and carefully TWIST THE CAP COUNTER-CLOCKWISE until the cap disconnects for removal (see Figure 1).

**Figure 1**

6. Pull the cap (A) off in a straight upward direction. **DO NOT TOUCH THE STERILE SYRINGE TIP (Luer-Lok) (B)** (see Figure 2).

**Figure 2**

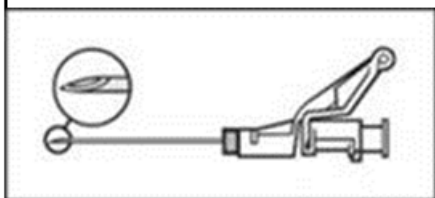
7. Attach the safety needle to the syringe tip (Luer-Lok). Twist needle until firmly seated (see Figure 3). Confirm that the needle is locked to the Luer connector before moving or tilting the syringe out of the vertical plane to avoid spillage of syringe contents.

**Figure 3****For Administration:**

8. Pull shield straight off needle to avoid damaging needle point.
9. Remove needle sheath.
10. Expel excess gas from the syringe (a small gas bubble may remain).

11. Administer intramuscularly slowly (1 to 2 minutes/injection) into the buttock (gluteal area). For user convenience, the needle 'bevel up' position is orientated to the lever arm, as shown in Figure 4.

**Figure 4**



12. After injection, immediately activate the lever arm to deploy the needle shielding by applying a single-finger stroke to the activation assisted lever arm to push the lever arm completely forward. Listen for a click. Confirm that the needle shielding has completely covered the needle (see Figure 5).  
NOTE: Activate away from self and others.

**Figure 5**



13. Discard the empty syringe into an approved sharps collector in accordance with applicable regulations and institutional policy.
14. Repeat steps 1 through 13 for second syringe.

### **How To Use Fulvestrant Injection**

For the 2 x 5 mL syringe package, the contents of both syringes must be injected to receive the 500 mg recommended dose.

### **SAFETYGLIDE™ INSTRUCTIONS FROM BECTON DICKINSON**

SafetyGlide™ is a trademark of Becton Dickinson and Company.

**Important Administration Information**

To help avoid HIV (AIDS), HBV (Hepatitis), and other infectious diseases due to accidental needlesticks, contaminated needles should not be recapped or removed, unless there is no alternative or that such action is required by a specific medical procedure. Hands must remain behind the needle at all times during use and disposal.

Do not autoclave SafetyGlide™ Needle before use.

Becton Dickinson guarantees the contents of their unopened or undamaged packages to be sterile, non-toxic, and non-pyrogenic.

**3 DOSAGE FORMS AND STRENGTHS**

Fulvestrant Injection, an injection for intramuscular administration, is supplied as two 5-mL single-dose prefilled syringes. Each syringe contains 250 mg fulvestrant/5 mL sterile, clear, colorless to yellow solution.

**4 CONTRAINDICATIONS**

Fulvestrant Injection is contraindicated in patients with a known hypersensitivity to the drug or to any of its components. Hypersensitivity reactions, including urticaria and angioedema, have been reported in association with Fulvestrant Injection [*see Adverse Reactions (6.2)*].

**5 WARNINGS AND PRECAUTIONS****5.1 Risk of Bleeding**

Because Fulvestrant Injection is administered intramuscularly, it should be used with caution in patients with bleeding diatheses, thrombocytopenia, or anticoagulant use.

**5.2 Increased Exposure in Patients with Hepatic Impairment**

The safety and pharmacokinetics of Fulvestrant Injection were evaluated in a study in seven subjects with moderate hepatic impairment (Child-Pugh class B) and seven subjects with normal hepatic function. Exposure was increased in patients with moderate hepatic impairment, therefore, a dose of 250 mg is recommended [*see Dosage and Administration (2.2)*].

Fulvestrant Injection has not been studied in patients with severe hepatic impairment (Child-Pugh class C) [*see Use in Specific Populations (8.6)*].

**5.3 Injection Site Reaction**

Injection site related events including sciatica, neuralgia, neuropathic pain, and peripheral neuropathy have been reported with Fulvestrant Injection. Caution should be taken while administering Fulvestrant Injection at the dorsogluteal injection site due to the proximity of the underlying sciatic nerve [*see Dosage and Administration (2.3) and Adverse Reactions (6.1)*].

**5.4 Embryo-Fetal Toxicity**

Based on findings from animal studies and its mechanism of action, Fulvestrant Injection can cause fetal harm when administered to a pregnant woman. In animal reproduction studies, administration of fulvestrant to pregnant rats and rabbits during organogenesis resulted in embryo-fetal toxicity at daily doses that are significantly less than the maximum recommended human dose. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with Fulvestrant Injection and for one year after the last dose [*see Use in Specific Populations (8.1), (8.3) and Clinical Pharmacology (12.1)*].













**Table 6: Laboratory Abnormalities in PALOMA-3**

| Laboratory Parameters                | Fulvestrant Injection plus Palbociclib<br>N=345 |              |              | Fulvestrant Injection plus Placebo<br>N=172 |              |              |
|--------------------------------------|---|--------------|--------------|---|--------------|--------------|
|                                      | All Grades<br>%                                 | Grade 3<br>% | Grade 4<br>% | All Grades<br>%                             | Grade 3<br>% | Grade 4<br>% |
| WBC decreased                        | 99  | 45           | 1            | 26  | 0            | 1            |
| Neutrophils decreased                | 96  | 56           | 11           | 14  | 0            | 1            |
| Anemia                               | 78  | 3            | 0            | 40  | 2            | 0            |
| Platelets decreased                  | 62  | 2            | 1            | 10  | 0            | 0            |
| Aspartate aminotransferase increased | 43  | 4            | 0            | 48  | 4            | 0            |
| Alanine aminotransferase increased   | 36  | 2            | 0            | 34  | 0            | 0            |

N=number of patients; WBC=white blood cells.

### **Combination Therapy with Abemaciclib (MONARCH 2)**

The safety of Fulvestrant Injection (500 mg) plus abemaciclib (150 mg twice daily) versus Fulvestrant Injection plus placebo was evaluated in MONARCH 2. The data described below reflect exposure to Fulvestrant Injection in 664 patients with HR-positive, HER2-negative advanced breast cancer who received at least one dose of Fulvestrant Injection plus abemaciclib or placebo in MONARCH 2.

Median duration of treatment was 12 months for patients receiving Fulvestrant Injection plus abemaciclib and 8 months for patients receiving Fulvestrant Injection plus placebo.

Dose reductions due to an adverse reaction occurred in 43% of patients receiving Fulvestrant Injection plus abemaciclib. Adverse reactions leading to dose reductions  $\geq 5\%$  of patients were diarrhea and neutropenia. Abemaciclib dose reduction due to diarrhea of any grade occurred in 19% of patients receiving Fulvestrant Injection plus abemaciclib compared to 0.4% of patients receiving Fulvestrant Injection plus placebo. Abemaciclib dose reductions due to neutropenia of any grade occurred in 10% of patients receiving Fulvestrant Injection plus abemaciclib compared to no patients receiving Fulvestrant Injection plus placebo.

Permanent study treatment discontinuation due to an adverse event was reported in 9% of patients receiving Fulvestrant Injection plus abemaciclib and in 3% of patients receiving Fulvestrant Injection plus placebo. Adverse reactions leading to permanent discontinuation for patients receiving Fulvestrant Injection plus abemaciclib were infection (2%), diarrhea (1%), hepatotoxicity (1%), fatigue (0.7%), nausea (0.2%), abdominal pain (0.2%), acute kidney injury (0.2%), and cerebral infarction (0.2%).

Deaths during treatment or during the 30-day follow up, regardless of causality, were reported in 18 cases (4%) of Fulvestrant Injection plus abemaciclib treated patients versus 10 cases (5%) of Fulvestrant Injection plus placebo treated patients. Causes of death for patients receiving Fulvestrant Injection plus abemaciclib included: 7 (2%) patient deaths due to underlying disease, 4 (0.9%) due to sepsis, 2 (0.5%) due to pneumonitis, 2 (0.5%) due to hepatotoxicity, and one (0.2%) due to cerebral infarction.

The most common adverse reactions reported ( $\geq 20\%$ ) in the Fulvestrant Injection plus abemaciclib arm were diarrhea, fatigue, neutropenia, nausea, infections, abdominal pain, anemia, leukopenia, decreased appetite, vomiting, and headache (Table 7). The most frequently reported ( $\geq 5\%$ ) Grade 3 or 4 adverse reactions were neutropenia, diarrhea, leukopenia, anemia, and infections.

**Table 7: Adverse Reactions  $\geq 10\%$  of Patients Receiving Fulvestrant Injection Plus Abemaciclib and  $\geq 2\%$  Higher Than Fulvestrant Injection Plus Placebo in MONARCH 2**

| Adverse Reactions   | Fulvestrant Injection plus Abemaciclib<br>N=441 |              |              | Fulvestrant Injection plus Placebo<br>N=223 |              |              |
|---|---|--------------|--------------|---|--------------|--------------|
|   | All Grades<br>%                                 | Grade 3<br>% | Grade 4<br>% | All Grades<br>%                             | Grade 3<br>% | Grade 4<br>% |
| <b>Gastrointestinal Disorders</b>                           |   |              |              |   |              |              |
| Diarrhea  | 86  | 13           | 0            | 25  | <1           | 0            |
| Nausea  | 45  | 3            | 0            | 23  | 1            | 0            |
| Abdominal pain <sup>1</sup>                                 | 35  | 2            | 0            | 16  | 1            | 0            |
| Vomiting  | 26  | <1           | 0            | 10  | 2            | 0            |
| Stomatitis  | 15  | <1           | 0            | 10  | 0            | 0            |
| <b>Infections and Infestations</b>                          |   |              |              |   |              |              |
| Infections <sup>2</sup>                                     | 43  | 5            | <1           | 25  | 3            | <1           |
| <b>Blood and Lymphatic System Disorders</b>                 |   |              |              |   |              |              |
| Neutropenia <sup>3</sup>                                    | 46  | 24           | 3            | 4   | 1            | <1           |
| Anemia <sup>4</sup>   | 29  | 7            | <1           | 4   | 1            | 0            |
| Leukopenia <sup>5</sup>                                     | 28  | 9            | <1           | 2   | 0            | 0            |
| Thrombocytopenia <sup>6</sup>                               | 16  | 2            | 1            | 3   | 0            | <1           |
| <b>General Disorders and Administration Site Conditions</b> |   |              |              |   |              |              |
| Fatigue <sup>7</sup>  | 46  | 3            | 0            | 32  | <1           | 0            |
| Edema peripheral  | 12  | 0            | 0            | 7   | 0            | 0            |
| Pyrexia   | 11  | <1           | <1           | 6   | <1           | 0            |
| <b>Metabolism and Nutrition Disorders</b>                   |   |              |              |   |              |              |
| Decreased appetite  | 27  | 1            | 0            | 12  | <1           | 0            |
| <b>Respiratory, Thoracic, and Mediastinal Disorders</b>     |   |              |              |   |              |              |
| Cough   | 13  | 0            | 0            | 11  | 0            | 0            |
| <b>Skin and Subcutaneous Tissue Disorders</b>               |   |              |              |   |              |              |
| Alopecia  | 16  | 0            | 0            | 2   | 0            | 0            |
| Pruritus  | 13  | 0            | 0            | 6   | 0            | 0            |
| Rash  | 11  | 1            | 0            | 4   | 0            | 0            |
| <b>Nervous System Disorders</b>                             |   |              |              |   |              |              |
| Headache  | 20  | 1            | 0            | 15  | <1           | 0            |
| Dysgeusia   | 18  | 0            | 0            | 3   | 0            | 0            |
| Dizziness   | 12  | 1            | 0            | 6   | 0            | 0            |
| <b>Investigations</b>                                       |   |              |              |   |              |              |
| Alanine aminotransferase increased                          | 13  | 4            | <1           | 5   | 2            | 0            |
| Aspartate aminotransferase increased                        | 12  | 2            | 0            | 7   | 3            | 0            |
| Creatinine increased  | 12  | <1           | 0            | <1  | 0            | 0            |
| Weight decreased  | 10  | <1           | 0            | 2   | <1           | 0            |

1. Includes abdominal pain, abdominal pain upper, abdominal pain lower, abdominal discomfort, abdominal tenderness.

2. Includes upper respiratory tract infection, urinary tract infection, lung infection, pharyngitis, conjunctivitis, sinusitis, vaginal infection, sepsis.

3. Includes neutropenia, neutrophil count decreased.

4. Includes anemia, hematocrit decreased, hemoglobin decreased, red blood cell count decreased.

5. Includes leukopenia, white blood cell count decreased.

6. Includes platelet count decreased, thrombocytopenia.

7. Includes asthenia, fatigue.

Additional adverse reactions in MONARCH 2 include venous thromboembolic events (deep vein thrombosis, pulmonary embolism, cerebral venous sinus thrombosis, subclavian vein thrombosis, axillary vein thrombosis, and DVT inferior vena cava), which were reported in 5% of patients treated with Fulvestrant Injection plus abemaciclib as compared to 0.9% of patients treated with Fulvestrant Injection plus placebo.

**Table 8: Laboratory Abnormalities  $\geq 10\%$  in Patients Receiving Fulvestrant Injection Plus Abemaciclib and  $\geq 2\%$  Higher Than Fulvestrant Injection Plus Placebo in MONARCH 2**

| Laboratory Parameters                | Fulvestrant plus Abemaciclib<br>N=441 |         |         | Fulvestrant plus Placebo<br>N=223 |         |         |
|--------------------------------------|---------------------------------------|---------|---------|-----------------------------------|---------|---------|
|                                      | All Grades                            | Grade 3 | Grade 4 | All Grades                        | Grade 3 | Grade 4 |
|                                      | %                                     | %       | %       | %                                 | %       | %       |
| Creatinine increased                 | 98                                    | 1       | 0       | 74                                | 0       | 0       |
| White blood cell decreased           | 90                                    | 23      | <1      | 33                                | <1      | 0       |
| Neutrophil count decreased           | 87                                    | 29      | 4       | 30                                | 4       | <1      |
| Anemia                               | 84                                    | 3       | 0       | 33                                | <1      | 0       |
| Lymphocyte count decreased           | 63                                    | 12      | <1      | 32                                | 2       | 0       |
| Platelet count decreased             | 53                                    | <1      | 1       | 15                                | 0       | 0       |
| Alanine aminotransferase increased   | 41                                    | 4       | <1      | 32                                | 1       | 0       |
| Aspartate aminotransferase increased | 37                                    | 4       | 0       | 25                                | 4       | <1      |

### **Combination Therapy with Ribociclib (MONALEESA-3)**

The safety of Fulvestrant Injection 500 mg plus ribociclib 600 mg versus Fulvestrant Injection plus placebo was evaluated in MONALEESA-3. The data described below reflect exposure to Fulvestrant Injection plus ribociclib in 483 out of 724 postmenopausal patients with HR-positive, HER2-negative advanced or metastatic breast cancer for initial endocrine based therapy or after disease progression on endocrine therapy who received at least one dose of Fulvestrant Injection plus ribociclib or placebo in MONALEESA-3. Median duration of treatment was 15.8 months for Fulvestrant Injection plus ribociclib and 12 months for Fulvestrant Injection plus placebo.

Dose reductions due to adverse reactions occurred in 32% of patients receiving Fulvestrant Injection plus ribociclib and in 3% of patients receiving Fulvestrant Injection plus placebo. Among patients receiving Fulvestrant Injection plus ribociclib, 8% were reported to have permanently discontinued both Fulvestrant Injection plus ribociclib, and 9% were reported to have discontinued ribociclib alone due to ARs. Among patients receiving Fulvestrant Injection plus placebo, 4% were reported to have permanently discontinued both Fulvestrant Injection and placebo and 2% were reported to have discontinued placebo alone due to ARs.

Adverse reactions leading to treatment discontinuation of Fulvestrant Injection plus ribociclib (as compared to Fulvestrant Injection plus placebo) were ALT increased (5% vs. 0%), AST increased (3% vs. 0.6%), and vomiting (1% vs. 0%).

The most common adverse reactions (reported at a frequency  $\geq 20\%$  on the Fulvestrant Injection plus ribociclib arm and  $\geq 2\%$  higher than Fulvestrant Injection plus placebo) were neutropenia, infections, leukopenia, cough, nausea, diarrhea, vomiting, constipation, pruritus, and rash. The most frequently reported Grade 3/4 adverse reactions (reported at a frequency  $\geq 5\%$ ) in patients receiving Fulvestrant Injection plus ribociclib in descending frequency were neutropenia, leukopenia, infections, and abnormal liver function tests.

Adverse reactions and laboratory abnormalities occurring in patients in MONALEESA-3 are listed in Table 9 and Table 10, respectively.

**Table 9: Adverse Reactions Occurring in  $\geq 10\%$  and  $\geq 2\%$  higher than Fulvestrant Injection plus Placebo Arm in MONALEESA-3 (All Grades)**

| Adverse Reactions   | Fulvestrant Injection plus Ribociclib<br>N=483 |              |              | Fulvestrant Injection plus Placebo<br>N=241 |              |              |
|---|--|--------------|--------------|---|--------------|--------------|
|   | All Grades<br>%                                | Grade 3<br>% | Grade 4<br>% | All Grades<br>%                             | Grade 3<br>% | Grade 4<br>% |
| <b>Infections and Infestations</b>                          |  |              |              |   |              |              |
| Infections <sup>1</sup>                                     | 42   | 5            | 0            | 30  | 2            | 0            |
| <b>Blood and Lymphatic System Disorders</b>                 |  |              |              |   |              |              |
| Neutropenia   | 69   | 46           | 7            | 2   | 0            | 0            |
| Leukopenia  | 27   | 12           | <1           | <1  | 0            | 0            |
| Anemia  | 17   | 3            | 0            | 5   | 2            | 0            |
| <b>Metabolism and Nutrition Disorders</b>                   |  |              |              |   |              |              |
| Decreased appetite  | 16   | <1           | 0            | 13  | 0            | 0            |
| <b>Nervous System Disorders</b>                             |  |              |              |   |              |              |
| Dizziness   | 13   | <1           | 0            | 8   | 0            | 0            |
| <b>Respiratory, Thoracic, and Mediastinal Disorders</b>     |  |              |              |   |              |              |
| Cough   | 22   | 0            | 0            | 15  | 0            | 0            |
| Dyspnea   | 15   | 1            | <1           | 12  | 2            | 0            |
| <b>Gastrointestinal Disorders</b>                           |  |              |              |   |              |              |
| Nausea  | 45   | 1            | 0            | 28  | <1           | 0            |
| Diarrhea  | 29   | <1           | 0            | 20  | <1           | 0            |
| Vomiting  | 27   | 1            | 0            | 13  | 0            | 0            |
| Constipation  | 25   | <1           | 0            | 12  | 0            | 0            |
| Abdominal pain  | 17   | 1            | 0            | 13  | <1           | 0            |
| <b>Skin and Subcutaneous Tissue Disorders</b>               |  |              |              |   |              |              |
| Alopecia  | 19   | 0            | 0            | 5   | 0            | 0            |
| Pruritus  | 20   | <1           | 0            | 7   | 0            | 0            |
| Rash  | 23   | <1           | 0            | 7   | 0            | 0            |
| <b>General Disorders and Administration Site Conditions</b> |  |              |              |   |              |              |
| Edema peripheral  | 15   | 0            | 0            | 7   | 0            | 0            |
| Pyrexia   | 11   | <1           | 0            | 7   | 0            | 0            |
| <b>Investigations</b>                                       |  |              |              |   |              |              |
| Alanine aminotransferase increased                          | 15   | 7            | 2            | 5   | <1           | 0            |
| Aspartate aminotransferase increased                        | 13   | 5            | 1            | 5   | <1           | 0            |

Grading according to CTCAE 4.03.

CTCAE=Common Terminology Criteria for Adverse Events; N=number of patients

<sup>1</sup>Infections; urinary tract infections; respiratory tract infections; gastroenteritis; sepsis (<1%).

Additional adverse reactions in MONALEESA-3 for patients receiving Fulvestrant Injection plus ribociclib included asthenia (14%), dyspepsia (10%), thrombocytopenia (9%), dry skin (8%), dysgeusia (7%), electrocardiogram QT prolonged (6%), dry mouth (5%), vertigo (5%), dry eye (5%), lacrimation increased (4%), erythema (4%), hypocalcemia (4%), blood bilirubin increased (1%), and syncope (1%).

**Table 10: Laboratory Abnormalities Occurring in  $\geq 10\%$  of Patients in MONALEESA-3**

| Laboratory parameters                | Fulvestrant Injection plus Ribociclib<br>N=483 |              |              | Fulvestrant Injection plus Placebo<br>N=241 |              |              |
|--------------------------------------|--|--------------|--------------|---|--------------|--------------|
|                                      | All Grades<br>%                                | Grade 3<br>% | Grade 4<br>% | All Grades<br>%                             | Grade 3<br>% | Grade 4<br>% |
| <b>Hematology</b>                    |  |              |              |   |              |              |
| Leukocyte count decreased            | 95   | 25           | <1           | 26  | <1           | 0            |
| Neutrophil count decreased           | 92   | 46           | 7            | 21  | <1           | 0            |
| Hemoglobin decreased                 | 60   | 4            | 0            | 35  | 3            | 0            |
| Lymphocyte count decreased           | 69   | 14           | 1            | 35  | 4            | <1           |
| Platelet count decreased             | 33   | <1           | 1            | 11  | 0            | 0            |
| <b>Chemistry</b>                     |  |              |              |   |              |              |
| Creatinine increased                 | 65   | <1           | <1           | 33  | <1           | 0            |
| Gamma-glutamyl transferase increased | 52   | 6            | 1            | 49  | 8            | 2            |
| Aspartate aminotransferase increased | 49   | 5            | 2            | 43  | 3            | 0            |
| Alanine aminotransferase increased   | 44   | 8            | 3            | 37  | 2            | 0            |
| Glucose serum decreased              | 23   | 0            | 0            | 18  | 0            | 0            |
| Phosphorous decreased                | 18   | 5            | 0            | 8   | <1           | 0            |
| Albumin decreased                    | 12   | 0            | 0            | 8   | 0            | 0            |

## 6.2 Postmarketing Experience

For Fulvestrant Injection 250 mg, other adverse reactions reported as drug-related and seen infrequently (<1%) include thromboembolic phenomena, myalgia, vertigo, leukopenia, and hypersensitivity reactions, including angioedema and urticaria.

Vaginal bleeding has been reported infrequently (<1%), mainly in patients during the first 6 weeks after changing from existing hormonal therapy to treatment with Fulvestrant Injection. If bleeding persists, further evaluation should be considered.

Elevation of bilirubin, elevation of gamma GT, hepatitis, and liver failure have been reported infrequently (<1%).

## 7 DRUG INTERACTIONS

There are no known drug-drug interactions. Although, fulvestrant is metabolized by CYP 3A4 *in vitro*, drug interactions studies with ketoconazole or rifampin did not alter fulvestrant pharmacokinetics. Dose adjustment is not needed in patients co-prescribed CYP 3A4 inhibitors or inducers [*see Clinical Pharmacology (12.3)*].

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Based on findings from animal studies and its mechanism of action, Fulvestrant Injection can cause fetal harm when administered to a pregnant woman [*see Clinical Pharmacology (12.1)*]. There are no available data in pregnant women to inform the drug-associated risk. In animal reproduction studies, administration of fulvestrant to pregnant rats and rabbits during organogenesis caused embryo-fetal toxicity, including skeletal malformations and fetal loss, at daily doses that were 6% and 30% of the maximum recommended human dose based on mg/m<sup>2</sup>, respectively [*see Data*]. Advise pregnant women of the potential risk to a fetus.



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

## Data

### Animal Data

Administration of fulvestrant to rats prior to and up to implantation caused embryonic loss at daily doses that were 0.6% of the daily maximum recommended human dose based on  $\text{mg}/\text{m}^2$ . When fulvestrant was administered to pregnant rats during the period of organogenesis, intramuscular doses  $\geq 0.1 \text{ mg}/\text{kg}/\text{day}$  (6% of the human recommended dose based on  $\text{mg}/\text{m}^2$ ) caused effects on embryo-fetal development consistent with its antiestrogenic activity. Fulvestrant caused an increased incidence of fetal abnormalities in rats (tarsal flexure of the hind paw at  $2 \text{ mg}/\text{kg}/\text{day}$ ; equivalent to the human dose based on  $\text{mg}/\text{m}^2$ ) and non-ossification of the odontoid and ventral tubercle of the first cervical vertebra at doses  $\geq 0.1 \text{ mg}/\text{kg}/\text{day}$ . Fulvestrant administered at  $2 \text{ mg}/\text{kg}/\text{day}$  caused fetal loss.

When administered to pregnant rabbits during the period of organogenesis, fulvestrant caused pregnancy loss at an intramuscular dose of  $1 \text{ mg}/\text{kg}/\text{day}$  (equivalent to the human dose based on  $\text{mg}/\text{m}^2$ ). Further, at  $0.25 \text{ mg}/\text{kg}/\text{day}$  (30% the human dose based on  $\text{mg}/\text{m}^2$ ), fulvestrant caused increases in placental weight and post-implantation loss in rabbits. Fulvestrant was associated with an increased incidence of fetal variations in rabbits (backwards displacement of the pelvic girdle, and 27 pre-sacral vertebrae at  $0.25 \text{ mg}/\text{kg}/\text{day}$ ; 30% the human dose based on  $\text{mg}/\text{m}^2$ ) when administered during the period of organogenesis.

## **8.2 Lactation**

### Risk Summary

There is no information regarding the presence of fulvestrant in human milk, nor of its effects on milk production or breastfed infant. Fulvestrant can be detected in rat milk [see Data]. Because of the potential for serious adverse reactions in breastfed infants from Fulvestrant Injection, advise a lactating woman not to breastfeed during treatment with Fulvestrant Injection and for one year after the final dose.

### Data

Levels of fulvestrant were approximately 12-fold higher in milk than in plasma after exposure of lactating rats to a dose of  $2 \text{ mg}/\text{kg}$ . Drug exposure in rodent pups from fulvestrant-treated lactating dams was estimated as 10% of the administered dose. In a study in rats of fulvestrant at  $10 \text{ mg}/\text{kg}$  given twice or  $15 \text{ mg}/\text{kg}$  given once (less than the recommended human dose based on  $\text{mg}/\text{m}^2$ ) during lactation, offspring survival was slightly reduced.

## **8.3 Females and Males of Reproductive Potential**

### Pregnancy Testing

Pregnancy testing is recommended for females of reproductive potential within seven days prior to initiating Fulvestrant Injection.

### Contraception

#### Females

Fulvestrant Injection 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 and for one year after the last dose.

### Infertility

Based on animal studies, Fulvestrant Injection may impair fertility in females and males of reproductive potential. The effects of fulvestrant on fertility were reversible in female rats [see *Nonclinical Toxicology (13.1)*].

### **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established. A multi-center, single-arm, open-label, study of fulvestrant was conducted in 30 girls with McCune-Albright Syndrome (MAS) associated with Progressive Precocious Puberty (PPP). The median age at informed consent was 6 years old (range: 1 to 8).

The first 10 patients initially received fulvestrant 2 mg/kg. Based on PK data from the first 6 patients, all 10 patients receiving 2 mg/kg were escalated to a dose of 4 mg/kg and all other patients received 4 mg/kg from study entry.

Baseline measurements for vaginal bleeding days, bone age, growth velocity, and Tanner staging for at least 6 months prior to study entry were provided retrospectively by the parent, guardian, or local consultant. All measurements during the study period were collected prospectively. Patients' baseline characteristics included the following: a mean  $\pm$  SD chronological age of  $5.9 \pm 1.8$  years; a mean rate of bone age advancement (change in bone age in years divided by change in chronological age in years) of  $2.0 \pm 1.03$ ; and a mean growth velocity z-score of  $2.4 \pm 3.26$ .

Twenty-nine of 30 patients completed the 12-month study period. The following results were observed: 35% (95% CI: 16%, 57%) of the 23 patients with baseline vaginal bleeding experienced a complete cessation of vaginal bleeding on-treatment (month 0 to 12); a reduction in the rate of bone age advancement during the 12-month study period compared to baseline (mean change =  $-0.9$  [95% CI:  $-1.4, -0.4$ ]); and a reduction in mean growth velocity Z-score on-treatment compared to baseline (mean change =  $-1.1$  [95% CI:  $-2.7, 0.4$ ]). There were no clinically meaningful changes in median Tanner stage (breast or pubic), mean uterine volume, or mean ovarian volume, or predicted adult height (PAH) on-treatment compared to baseline. The effect of Fulvestrant Injection on bone mineral density in children has not been studied and is not known.

Eight patients (27%) experienced adverse reactions that were considered possibly related to Fulvestrant Injection. These included injection site reactions (inflammation, pain, hematoma, pruritus, rash), abdominal pain, contusion, tachycardia, hot flash, extremity pain, and vomiting. Nine (30%) patients reported an SAE, none of which were considered related to Fulvestrant Injection. No patients discontinued study treatment due to an AE and no patients died.

### **Pharmacokinetics**

The pharmacokinetics of fulvestrant was characterized using a population pharmacokinetic analysis with sparse samples per patient obtained from 30 female pediatric patients aged 1 to 8 years with PPP associated with MAS. Pharmacokinetic data from 294 postmenopausal women with breast cancer who received 125 or 250 mg monthly dosing regimen were also included in the analysis.

In these pediatric patients receiving 4 mg/kg monthly intramuscular dose of fulvestrant, the geometric mean (SD) CL/F was 444 (165) mL/min which was 32% lower than adults. The geometric mean (SD) steady state trough concentration ( $C_{\min,ss}$ ) and  $AUC_{ss}$  was 4.19 (0.87) ng/mL and 3680 (1020) ng\*hr/mL, respectively.

### 8.5 Geriatric Use

For Fulvestrant Injection 250 mg, when tumor response was considered by age, objective responses were seen in 22% and 24% of patients under 65 years of age and in 11% and 16% of patients 65 years of age and older, who were treated with Fulvestrant Injection in Study 0021 and Study 0020, respectively.

### 8.6 Hepatic Impairment

Fulvestrant Injection is metabolized primarily in the liver.

The pharmacokinetics of fulvestrant were evaluated after a single dose of 100 mg in subjects with mild and moderate hepatic impairment and normal hepatic function (n = 7 subjects/group), using a shorter-acting intramuscular injection formulation. Subjects with mild hepatic impairment (Child-Pugh class A) had comparable mean AUC and clearance values to those with normal hepatic function. In subjects with moderate hepatic impairment (Child-Pugh class B), the average AUC of fulvestrant increased by 70% compared to patients with normal hepatic function. AUC was positively correlated with total bilirubin concentration (p = 0.012). Fulvestrant Injection has not been studied in patients with severe hepatic impairment (Child-Pugh class C).

A dose of Fulvestrant Injection 250 mg is recommended in patients with moderate hepatic impairment (Child-Pugh class B) [see *Dosage and Administration (2.2)* and *Warnings and Precautions (5.2)*].

### 8.7 Renal Impairment

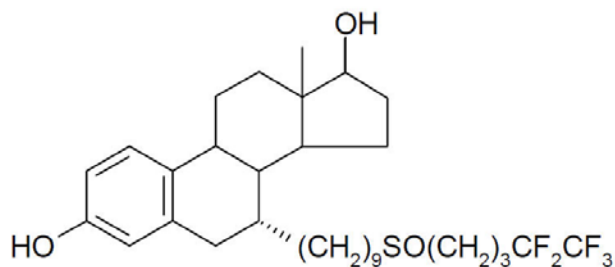
Negligible amounts of fulvestrant are eliminated in urine; therefore, a study in patients with renal impairment was not conducted. In the advanced breast cancer trials, fulvestrant concentrations in women with estimated creatinine clearance as low as 30 mL/min were similar to women with normal creatinine.

## 10 OVERDOSAGE

Human experience of overdose with Fulvestrant Injection is limited. There are isolated reports of overdose with Fulvestrant Injection in humans. No adverse reactions were seen in healthy male and female volunteers who received intravenous fulvestrant, which resulted in peak plasma concentrations at the end of the infusion, that were approximately 10 to 15 times those seen after intramuscular injection. The potential toxicity of fulvestrant at these or higher concentrations in cancer patients who may have additional comorbidities is unknown. There is no specific treatment in the event of fulvestrant overdose, and symptoms of overdose are not established. In the event of an overdose, healthcare practitioners should follow general supportive measures and should treat symptomatically.

## 11 DESCRIPTION

Fulvestrant Injection for intramuscular administration is an estrogen receptor antagonist. The chemical name is 7- $\alpha$ -[9-(4,4,5,5,5-penta fluoropentylsulphonyl) nonyl]estra-1,3,5-(10)-triene-3,17- $\beta$ -diol. The molecular formula is C<sub>32</sub>H<sub>47</sub>F<sub>5</sub>O<sub>3</sub>S and its structural formula is:



Fulvestrant, USP is a white powder with a molecular weight of 606.77. The sterile injection solution is a clear, colorless to yellow viscous liquid supplied in two 5 mL single-dose prefilled syringes each containing 250 mg fulvestrant/5 mL for intramuscular administration.

Fulvestrant Injection contains the following inactive ingredients in each 5 mL syringe: benzyl alcohol 500 mg (10% w/v) and dehydrated alcohol 500 mg (10% w/v); castor oil 3000 mg (60% w/v), medium chain triglycerides q.s. to 5 mL (10.8% w/v), and nitrogen q.s.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Many breast cancers have estrogen receptors (ER) and the growth of these tumors can be stimulated by estrogen. Fulvestrant is an estrogen receptor antagonist that binds to the estrogen receptor in a competitive manner with affinity comparable to that of estradiol and downregulates the ER protein in human breast cancer cells.

*In vitro* studies demonstrated that fulvestrant is a reversible inhibitor of the growth of tamoxifen-resistant, as well as estrogen-sensitive human breast cancer (MCF-7) cell lines. In *in vivo* tumor studies, fulvestrant delayed the establishment of tumors from xenografts of human breast cancer MCF-7 cells in nude mice. Fulvestrant inhibited the growth of established MCF-7 xenografts and of tamoxifen-resistant breast tumor xenografts.

Fulvestrant showed no agonist-type effects in *in vivo* uterotrophic assays in immature or ovariectomized mice and rats. In *in vivo* studies in immature rats and ovariectomized monkeys, fulvestrant blocked the uterotrophic action of estradiol. In postmenopausal women, the absence of changes in plasma concentrations of FSH and LH in response to fulvestrant treatment (250 mg monthly) suggests no peripheral steroidal effects.

### 12.2 Pharmacodynamics

In a clinical study in postmenopausal women with primary breast cancer treated with single doses of Fulvestrant Injection 15 to 22 days prior to surgery, there was evidence of increasing down-regulation of ER with increasing dose. This was associated with a dose-related decrease in the expression of the progesterone receptor, an estrogen-regulated protein. These effects on the ER pathway were also associated with a decrease in Ki67 labeling index, a marker of cell proliferation.

### 12.3 Pharmacokinetics

#### Absorption

The single dose and multiple dose PK parameters for the 500 mg dosing regimen with an additional dose (AD) at Day 15 are reported in Table 11. The additional dose of Fulvestrant Injection given two weeks after the initial dose allows for steady state concentrations to be reached within the first month of dosing.

**Table 11: Summary of Fulvestrant Pharmacokinetic Parameters [gMean (CV%)] in Postmenopausal Advanced Breast Cancer Patients after Intramuscular Administration 500 mg + AD Dosing Regimen**

|                          |   | C <sub>max</sub><br>(ng/mL) | C <sub>min</sub><br>(ng/mL) | AUC<br>(ng.hr/mL) |
|--------------------------|---|-----------------------------|-----------------------------|-------------------|
| 500 mg + AD <sup>1</sup> | Single dose                             | 25.1 (35.3)                 | 16.3 (25.9)                 | 11400 (33.4)      |
|                          | Multiple dose steady state <sup>2</sup> | 28.0 (27.9)                 | 12.2 (21.7)                 | 13100 (23.4)      |

<sup>1</sup>. Additional 500 mg dose given on Day 15

<sup>2</sup>. Month 3

## Distribution

The apparent volume of distribution at steady state is approximately 3 to 5 L/kg. This suggests that distribution is largely extravascular. Fulvestrant is highly (99%) bound to plasma proteins; VLDL, LDL, and HDL lipoprotein fractions appear to be the major binding components. The role of sex hormone-binding globulin, if any, could not be determined.

## Metabolism

Biotransformation and disposition of fulvestrant in humans have been determined following intramuscular and intravenous administration of <sup>14</sup>C-labeled fulvestrant. Metabolism of fulvestrant appears to involve combinations of a number of possible biotransformation pathways analogous to those of endogenous steroids, including oxidation, aromatic hydroxylation, conjugation with glucuronic acid and/or sulphate at the 2, 3, and 17 positions of the steroid nucleus, and oxidation of the side chain sulphoxide. Identified metabolites are either less active or exhibit similar activity to fulvestrant in antiestrogen models.

Studies using human liver preparations and recombinant human enzymes indicate that cytochrome P-450 3A4 (CYP 3A4) is the only P-450 isoenzyme involved in the oxidation of fulvestrant; however, the relative contribution of P-450 and non-P-450 routes *in vivo* is unknown.

## Excretion

Fulvestrant was rapidly cleared by the hepatobiliary route with excretion primarily via the feces (approximately 90%). Renal elimination was negligible (less than 1%). After an intramuscular injection of 250 mg, the clearance (Mean ± SD) was 690 ± 226 mL/min with an apparent half-life about 40 days.

## Special Populations

### Geriatric

In patients with breast cancer, there was no difference in fulvestrant pharmacokinetic profile related to age (range 33 to 89 years).

### Gender

Following administration of a single intravenous dose, there were no pharmacokinetic differences between men and women or between premenopausal and postmenopausal women. Similarly, there were no differences between men and postmenopausal women after intramuscular administration.

### Race

In the advanced breast cancer treatment trials, the potential for pharmacokinetic differences due to race have been evaluated in 294 women including 87.4% Caucasian, 7.8% Black, and 4.4% Hispanic. No differences in fulvestrant plasma pharmacokinetics were observed among these groups. In a separate trial, pharmacokinetic data from postmenopausal ethnic Japanese women were similar to those obtained in non-Japanese patients.

## Drug-Drug Interactions

There are no known drug-drug interactions. Fulvestrant does not significantly inhibit any of the major CYP isoenzymes, including CYP 1A2, 2C9, 2C19, 2D6, and 3A4 *in vitro*, and studies of co-administration of fulvestrant with midazolam indicate that therapeutic doses of fulvestrant have no inhibitory effects on CYP 3A4 or alter blood levels of drug metabolized by that enzyme. Although fulvestrant is partly metabolized by CYP 3A4, a clinical study with rifampin, an inducer of CYP 3A4, showed no effect on the pharmacokinetics of fulvestrant. Also, results from a healthy volunteer study with ketoconazole, a potent inhibitor of CYP 3A4, indicated that ketoconazole had no effect on the pharmacokinetics of fulvestrant and dosage adjustment is not necessary in patients co-prescribed CYP 3A4 inhibitors or inducers [see *Drug Interactions (7)*]. Data from a

clinical trial in patients with breast cancer showed that there was no clinically relevant drug interaction when fulvestrant is coadministered with palbociclib, abemaciclib, or ribociclib.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Two-year carcinogenesis studies were conducted in rats and mice. Positive findings were observed in both species. Rats were treated at intramuscular doses of 15 mg/kg/30 days, 10 mg/rat/30 days, and 10 mg/rat/15 days.

These doses correspond to 0.9-, 1.5-, and 3-fold (in females) and 0.8-, 0.8-, and 2-fold (in males) the systemic exposure [ $AUC_{0-30 \text{ days}}$ ] achieved in women receiving the recommended dose of 500 mg/month. An increased incidence of benign ovarian granulosa cell tumors and testicular Leydig cell tumors was evident, in females dosed at 10 mg/rat/15 days and males dosed at 15 mg/rat/30 days, respectively. Mice were treated at oral doses of 0, 20, 150, and 500 mg/kg/day. These doses correspond to 0, 0.8, 8.4, and 18-fold (in females) and 0.8-, 7.1-, and 11.9- fold (in males), the systemic exposure ( $AUC_{0-30 \text{ days}}$ ) achieved in women receiving the recommended dose of 500 mg/month. There was an increased incidence of sex cord stromal tumors (both benign and malignant) in the ovary of mice at doses of 150 and 500 mg/kg/day. Induction of such tumors is consistent with the pharmacology-related endocrine feedback alterations in gonadotropin levels caused by an antiestrogen.

Fulvestrant was not mutagenic or clastogenic in multiple *in vitro* tests with and without the addition of a mammalian liver metabolic activation factor (bacterial mutation assay in strains of *Salmonella typhimurium* and *Escherichia coli*, *in vitro* cytogenetics study in human lymphocytes, mammalian cell mutation assay in mouse lymphoma cells, and *in vivo* micronucleus test in rat).

In female rats, fulvestrant administered at doses  $\geq 0.01$  mg/kg/day (0.6% the human recommended dose based on body surface area [ $BSA$  in  $\text{mg}/\text{m}^2$ ]), for 2 weeks prior to and for 1 week following mating, caused a reduction in fertility and embryonic survival. No adverse effects on female fertility and embryonic survival were evident in female animals dosed at 0.001 mg/kg/day (0.06% the human dose based on  $BSA$  in  $\text{mg}/\text{m}^2$ ). Restoration of female fertility to values similar to controls was evident following a 29-day withdrawal period after dosing at 2 mg/kg/day (equivalent to the human dose based on  $BSA$  in  $\text{mg}/\text{m}^2$ ). The effects of fulvestrant on the fertility of female rats appear to be consistent with its antiestrogenic activity. The potential effects of fulvestrant on the fertility of male animals were not studied, but in a 6-month toxicology study, male rats treated with intramuscular doses of 15 mg/kg/30 days, 10 mg/rat/30 days, or 10 mg/rat/15 days fulvestrant showed a loss of spermatozoa from the seminiferous tubules, seminiferous tubular atrophy, and degenerative changes in the epididymides. Changes in the testes and epididymides had not recovered 20 weeks after cessation of dosing. These fulvestrant doses correspond to 1.3-, 1.2-, and 3.5-fold the systemic exposure [ $AUC_{0-30 \text{ days}}$ ] achieved in women receiving the recommended dose of 500 mg/month.

## 14 CLINICAL STUDIES

The efficacy of Fulvestrant Injection 500 mg versus Fulvestrant Injection 250 mg was compared in CONFIRM. The efficacy of Fulvestrant Injection 250 mg was compared to 1 mg anastrozole in Studies 0020 and 0021. The efficacy of Fulvestrant Injection 500 mg was compared to 1 mg anastrozole in FALCON. The efficacy of Fulvestrant Injection 500 mg in combination with palbociclib 125 mg was compared to Fulvestrant Injection 500 mg plus placebo in PALOMA-3. The efficacy of Fulvestrant Injection 500 mg in combination with abemaciclib 150 mg was compared to Fulvestrant Injection 500 mg plus placebo in MONARCH 2. The efficacy of Fulvestrant Injection 500 mg in combination with ribociclib 600 mg was compared to Fulvestrant Injection 500 mg plus placebo in MONALEESA-3.

### Monotherapy

### **Comparison of Fulvestrant Injection 500 mg and Fulvestrant Injection 250 mg (CONFIRM)**

A randomized, double-blind, controlled clinical trial (CONFIRM, NCT00099437) was completed in 736 postmenopausal women with advanced breast cancer who had disease recurrence on or after adjuvant endocrine therapy or progression following endocrine therapy for advanced disease. This trial compared the efficacy and safety of Fulvestrant Injection 500 mg (n=362) with Fulvestrant Injection 250 mg (n=374).

Fulvestrant Injection 500 mg was administered as two 5 mL injections each containing Fulvestrant Injection 250 mg/5mL, one in each buttock, on Days 1, 15, 29 and every 28 (+/- 3) days thereafter. Fulvestrant Injection 250 mg was administered as two 5 mL injections (one containing Fulvestrant Injection 250 mg/5 mL injection plus one placebo injection), one in each buttock, on Days 1, 15 (2 placebo injections only), 29, and every 28 (+/- 3) days thereafter.

The median age of study participants was 61 years. All patients had ER+ advanced breast cancer. Approximately 30% of subjects had no measurable disease. Approximately 55% of patients had visceral disease.

Results of CONFIRM are summarized in Table 12. The efficacy of Fulvestrant Injection 500 mg was compared to that of Fulvestrant Injection 250 mg. Figure 6 shows a Kaplan-Meier plot of the Progression Free Survival (PFS) data after a minimum follow-up duration of 18 months demonstrating statistically significant superiority of Fulvestrant Injection 500 mg vs. Fulvestrant Injection 250 mg. In the initial Overall Survival (OS) analysis after a minimum follow-up duration of 18 months, there was no statistically significant difference in OS between the two treatment groups. After a minimum follow-up duration of 50 months, an updated OS analysis was performed. Figure 7 shows a Kaplan-Meier plot of the updated OS data.

**Table 12: Efficacy Results in CONFIRM (Intent-To-Treat (ITT) Population)**

| <b>Endpoint</b>   | <b>Fulvestrant 500 mg<br/>N=362</b> | <b>Fulvestrant 250 mg<br/>N=374</b> |
|---|-------------------------------------|-------------------------------------|
| <b>PFS<sup>1</sup></b><br>Median (months)                                   | 6.5                                 | 5.4                                 |
| Hazard Ratio <sup>2</sup> (95% CI <sup>3</sup> )                            | 0.80 (0.68 to 0.94)                 |                                     |
| p-value   | 0.006                               |                                     |
| <b>OS<sup>4</sup> Updated Analysis<sup>5</sup></b><br>(% patients who died) | 261 (72.1%)                         | 293 (78.3%)                         |
| Median OS (months)  | 26.4                                | 22.3                                |
| Hazard Ratio <sup>2</sup> (95% CI <sup>3</sup> ) <sup>6</sup>               | 0.81 (0.69 to 0.96)                 |                                     |
| <b>ORR<sup>7</sup></b> (95% CI <sup>3</sup> )                               | 13.8% (9.7%, 18.8%)<br>(33/240)     | 14.6% (10.5%, 19.4%)<br>(38/261)    |

<sup>1</sup>. PFS (Progression Free Survival) = the time between randomization and the earliest of progression or death from any cause. Minimum follow-up duration of 18 months.

<sup>2</sup>. Hazard Ratio <1 favors Fulvestrant Injection 500 mg.

<sup>3</sup>. CI=Confidence Interval

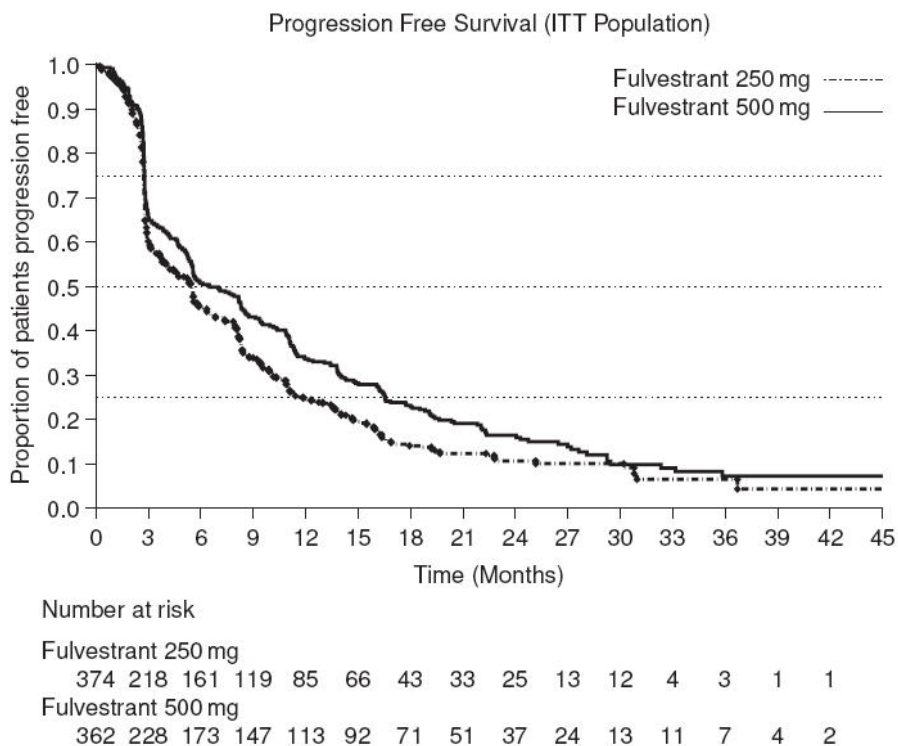
<sup>4</sup>. OS=Overall Survival

<sup>5</sup>. Minimum follow up duration of 50 months.

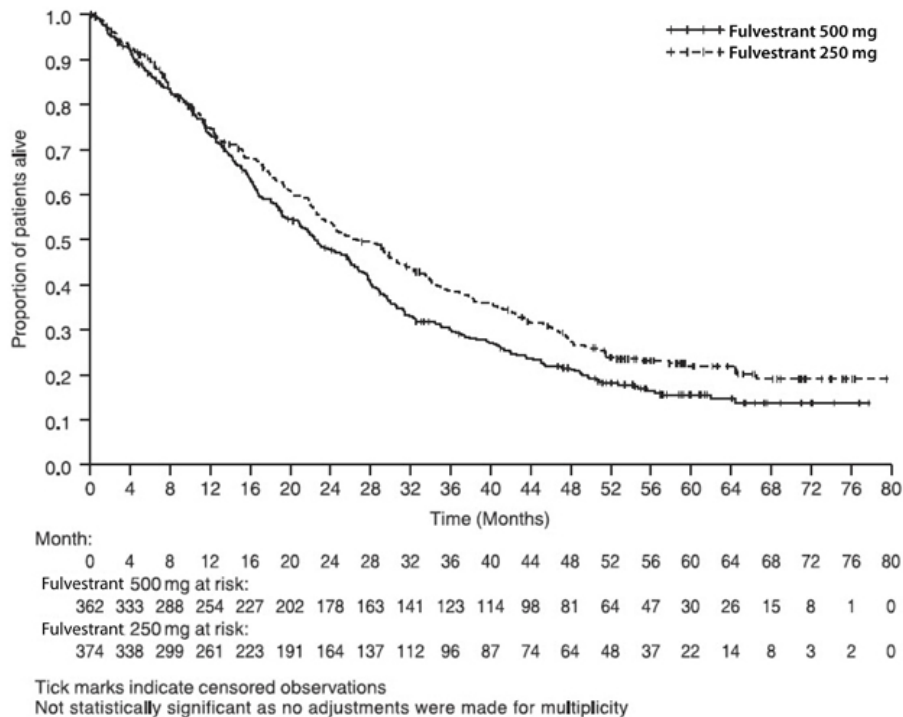
<sup>6</sup>. Not statistically significant as no adjustments were made for multiplicity.

<sup>7</sup>. ORR (Objective Response Rate), as defined as number (%) of patients with complete response or partial response, was analyzed in the evaluable patients with measurable disease at baseline (fulvestrant 500 mg N=240; fulvestrant 250 mg N=261). Minimum follow-up duration of 18 months.

### **Figure 6 Kaplan-Meier PFS: CONFIRM ITT Population**



**Figure 7 Kaplan-Meier OS (Minimum Follow-up Duration of 50 Months): CONFIRM ITT Population**





### **Comparison of Fulvestrant Injection 500 mg and Anastrozole 1 mg (FALCON)**

A randomized, double-blind, double-dummy, multi-center study (FALCON, NCT01602380) of Fulvestrant Injection 500 mg versus anastrozole 1 mg was conducted in postmenopausal women with ER-positive and/or PgR-positive, HER2-negative locally advanced or metastatic breast cancer who had not previously been treated with any hormonal therapy. A total of 462 patients were randomized 1:1 to receive administration of Fulvestrant Injection 500 mg as an intramuscular injection on Days 1, 15, 29, and every 28 (+/- 3) days thereafter or daily administration of 1 mg of anastrozole orally. This study compared the efficacy and safety of Fulvestrant Injection 500 mg and anastrozole 1 mg.

Randomization was stratified by disease setting (locally advanced or metastatic), use of prior chemotherapy for advanced disease, and presence or absence of measurable disease.

The major efficacy outcome measure of the study was investigator-assessed progression-free survival (PFS) evaluated according to RECIST v.1.1 (Response Evaluation Criteria in Solid Tumors). Key secondary efficacy outcome measures included overall survival (OS), objective response rate (ORR), and duration of response (DoR).

Patients enrolled in this study had a median age of 63 years (range 36 to 90). The majority of patients (87%) had metastatic disease at baseline. Fifty-five percent (55%) of patients had visceral metastasis at baseline. A total of 17% of patients had received one prior chemotherapy regimen for advanced disease; 84% of patients had measurable disease. Sites of metastases were as follows: musculoskeletal 59%, lymph nodes 50%, respiratory 40%, liver (including gall bladder) 18%.

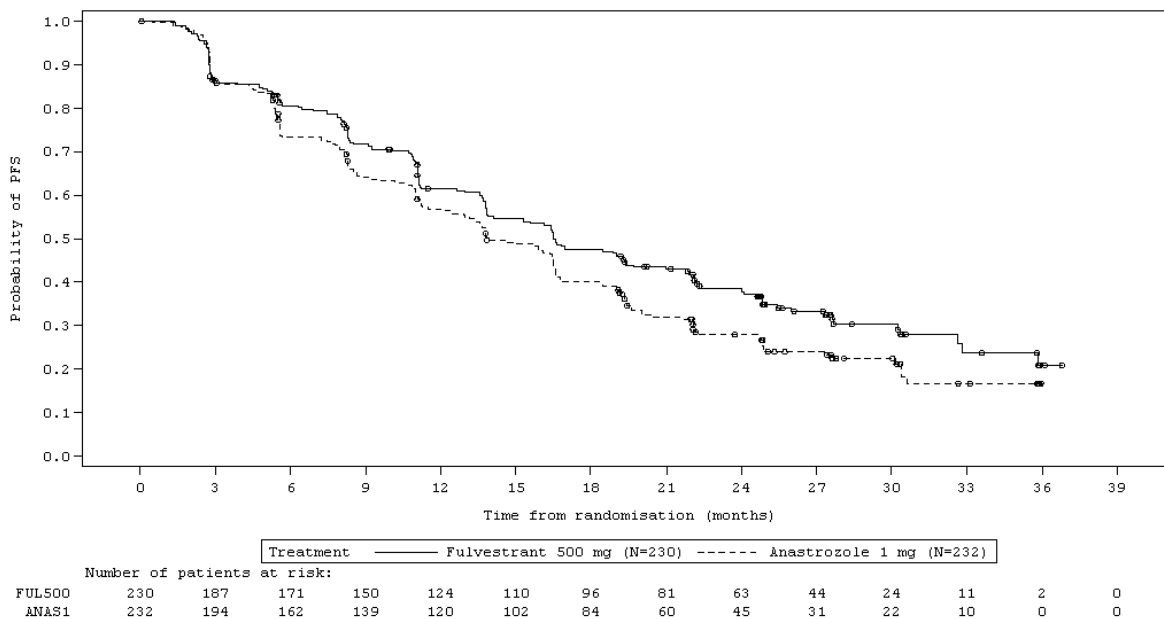
The efficacy results of FALCON are presented in Table 13 and Figure 8.

**Table 13: Efficacy Results in FALCON (Investigator Assessment, ITT Population)**

|  | <b>Fulvestrant Injection<br/>500 mg<br/>N=230</b> | <b>Anastrozole<br/>1 mg<br/>N=232</b> |
|--|---|---------------------------------------|
| <b>Progression-Free Survival</b>                               |   |                                       |
| Number of PFS Events (%)                                       | 143 (62.2%)                                       | 166 (71.6%)                           |
| Median PFS (months)  | 16.6  | 13.8                                  |
| PFS Hazard Ratio (95% CI)                                      | 0.797 (0.637 to 0.999)                            |                                       |
| p-value  | 0.049   |                                       |
| <b>Overall Survival<sup>1</sup></b>                            |   |                                       |
| Number of OS Events  | 67 (29.1%)  | 75 (32.3%)                            |
| Median OS (months)   | NR  | NR                                    |
| OS Hazard Ratio (95% CI)                                       | 0.874 (0.629 to 1.216)                            |                                       |
| <b>Objective Response for Patients with Measurable Disease</b> |   |                                       |
|  | <b>N=193</b>                                      | <b>N=196</b>                          |
| Objective Response Rate (% , 95% CI)                           | 46.1% (38.9%,<br>53.4%)                           | 44.9% (37.8%,<br>52.1%)               |
| Median DoR (months)  | 20.0  | 13.2                                  |

NR: Not reached

<sup>1</sup> Interim OS analysis with 61% of total number of events required for the final OS analysis.

**Figure 8 Kaplan-Meier Plot of Progression-Free Survival (Investigator Assessment, ITT Population) — FALCON**

### **Comparison of Fulvestrant Injection 250 mg and Anastrozole 1 mg in Combined Data (Studies 0020 and 0021)**

Efficacy of Fulvestrant Injection was established by comparison to the selective aromatase inhibitor anastrozole in two randomized, controlled clinical trials (one conducted in North America, Study 0021, NCT00635713; the other predominantly in Europe, Study 0020) in postmenopausal women with locally advanced or metastatic breast cancer. All patients had progressed after previous therapy with an antiestrogen or progestin for breast cancer in the adjuvant or advanced disease setting.

The median age of study participants was 64 years. 81.6% of patients had ER+ and/or PgR+ tumors. Patients with ER-/PgR- or unknown tumors were required to have demonstrated a prior response to endocrine therapy. Sites of metastases occurred as follows: visceral only 18.2%; viscera – liver involvement 23.0%; lung involvement 28.1%; bone only 19.7%; soft tissue only 5.2%; skin and soft tissue 18.7%.

In both trials, eligible patients with measurable and/or evaluable disease were randomized to receive either Fulvestrant Injection 250 mg intramuscularly once a month (28 days  $\pm$  3 days) or anastrozole 1 mg orally once a day. All patients were assessed monthly for the first three months and every three months thereafter. Study 0021 was a double-blind, randomized trial in 400 postmenopausal women. Study 0020 was an open-label, randomized trial conducted in 451 postmenopausal women. Patients on the Fulvestrant Injection arm of Study 0021 received two separate injections (2 x 2.5 mL), whereas Fulvestrant Injection patients received a single injection (1 x 5 mL) in Study 0020. In both trials, patients were initially randomized to a 125 mg per month dose as well, but interim analysis showed a very low response rate, and low dose groups were dropped.

Results of the trials, after a minimum follow-up duration of 14.6 months, are summarized in Table 14. The effectiveness of Fulvestrant Injection 250 mg was determined by comparing Objective Response Rate (ORR) and Time to Progression (TTP) results to anastrozole 1 mg, the active control. The two studies ruled out (by one-sided 97.7% confidence limit) inferiority of Fulvestrant Injection to anastrozole of 6.3% and 1.4% in terms of ORR. There was no statistically significant difference in overall survival (OS) between the two treatment groups after a follow-up duration of 28.2 months in Study 0021 and 24.4 months in Study 0020.





therapy treated with Fulvestrant Injection plus abemaciclib versus Fulvestrant Injection plus placebo. Randomization was stratified by disease site (visceral, bone only, or other) and by sensitivity to prior endocrine therapy (primary or secondary resistance). A total of 669 patients received intramuscular injection of Fulvestrant Injection 500 mg on Days 1 and 15 of cycle 1 and then on Day 1 of cycle 2 and beyond (28-day cycles), plus abemaciclib or placebo orally twice daily. Pre/perimenopausal women were enrolled in the study and received the gonadotropin-releasing hormone agonist goserelin for at least 4 weeks prior to and for the duration of MONARCH 2. Patients remained on continuous treatment until development of progressive disease or unmanageable toxicity.

Patient median age was 60 years (range, 32-91 years), and 37% of patients were older than 65. The majority were White (56%), and 99% of patients had an Eastern Cooperative Oncology Group (ECOG) performance status of 0 or 1. Twenty percent (20%) of patients had *de novo* metastatic disease, 27% had bone only disease, and 56% had visceral disease. Twenty-five percent (25%) of patients had primary endocrine therapy resistance. Seventeen percent (17%) of patients were pre- or perimenopausal.

The efficacy results from the MONARCH 2 study are summarized in Table 16 and Figure 10. Median PFS assessment based on a blinded independent radiologic review was consistent with the investigator assessment. Consistent results were observed across patient stratification subgroups of disease site and endocrine therapy resistance. At the time of primary analysis of PFS, overall survival data were not mature (20% of patients had died).

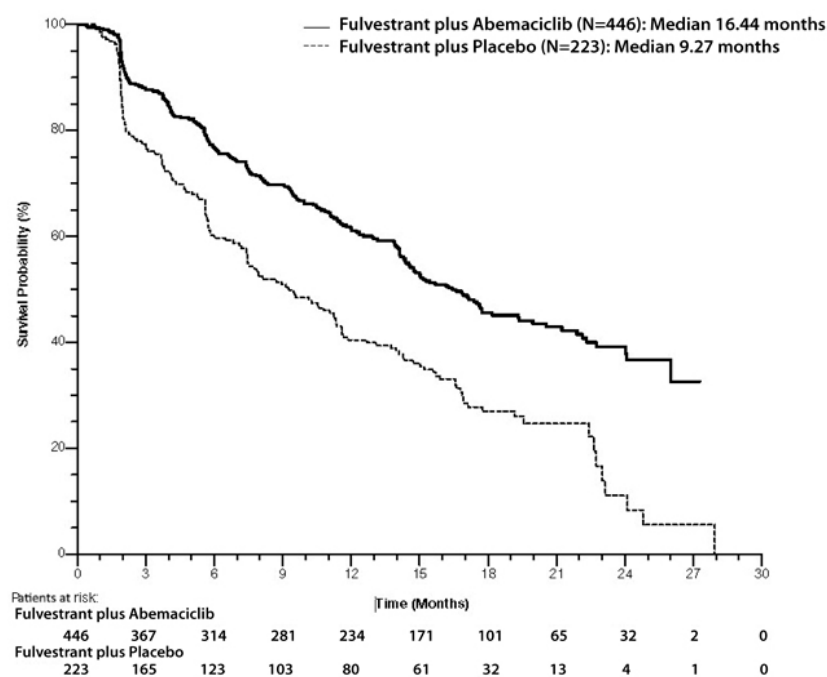
**Table 16: Efficacy Results in MONARCH 2 (Investigator Assessment, Intent-to-Treat Population)**

|  | <b>Fulvestrant Injection plus<br/>Abemaciclib</b> | <b>Fulvestrant Injection plus<br/>Placebo</b> |
|--|---|---|
| <b>Progression-Free Survival</b>                                   | <b>N=446</b>                                      | <b>N=223</b>                                  |
| Number of patients with an event (n, %)                            | 222 (49.8)  | 157 (70.4)                                    |
| Median (months, 95% CI)  | 16.4 (14.4, 19.3)                                 | 9.3 (7.4, 12.7)                               |
| Hazard ratio (95% CI)  | 0.553 (0.449, 0.681)                              |   |
| p-value  | p<.0001   |   |
| <b>Objective Response for Patients with<br/>Measurable Disease</b> | <b>N=318</b>                                      | <b>N=164</b>                                  |
| Objective response rate <sup>1</sup> (n, %)                        | 153 (48.1)  | 35 (21.3)                                     |
| 95% CI   | 42.6, 53.6  | 15.1, 27.6                                    |

Abbreviations: CI = confidence interval.

<sup>1</sup>. Complete response + partial response.

**Figure 10 Kaplan-Meier Curves of Progression-Free Survival: Fulvestrant Injection Plus Abemaciclib versus Fulvestrant Injection plus Placebo (MONARCH 2)**



**Postmenopausal women with HR-positive, HER2-negative advanced or metastatic breast cancer for initial endocrine based therapy or after disease progression on endocrine therapy**

**Fulvestrant Injection 500 mg in Combination with Ribociclib 600 mg (MONALEESA-3)**

MONALEESA-3 (NCT 02422615) was a randomized double-blind, placebo-controlled study of Fulvestrant Injection plus ribociclib versus Fulvestrant Injection plus placebo conducted in postmenopausal women with hormone receptor positive, HER2-negative, advanced breast cancer who have received no or only one line of prior endocrine treatment.

A total of 726 patients were randomized in a 2:1 ratio to receive Fulvestrant Injection plus ribociclib or Fulvestrant Injection plus placebo and stratified according to the presence of liver and/or lung metastases and prior endocrine therapy for advanced or metastatic disease. Fulvestrant 500 mg was administered intramuscularly on Days 1, 15, 29, and once monthly thereafter, with either ribociclib 600 mg or placebo given orally once daily for 21 consecutive days followed by 7 days off until disease progression or unacceptable toxicity. The major efficacy outcome measure for the study was investigator-assessed progression-free survival (PFS) using Response Evaluation Criteria in Solid Tumors (RECIST) v1.1.

Patients enrolled in this study had a median age of 63 years (range 31 to 89). Of the patients enrolled, 47% were 65 years and older, including 14% age 75 years and older. The patients enrolled were primarily Caucasian (85%), Asian (9%), and Black (0.7%). Nearly all patients (99.7%) had an ECOG performance status of 0 or 1. First and second line patients were enrolled in this study (of which 19% had *de novo* metastatic disease). Forty-three percent (43%) of patients had received chemotherapy in the adjuvant vs. 13% in the neoadjuvant setting and 59% had received endocrine therapy in the adjuvant vs. 1% in the neoadjuvant setting prior to study entry. Twenty-one percent (21%) of patients had bone only disease and 61% had visceral disease. Demographics and baseline disease characteristics were balanced and comparable between study arms.

The efficacy results from MONALEESA-3 are summarized in Table 17 and Figure 11. Consistent results were observed in stratification factor subgroups of disease site and prior endocrine treatment for advanced disease. At the time of the PFS analysis, 17% of patients had died, and overall survival data were immature.

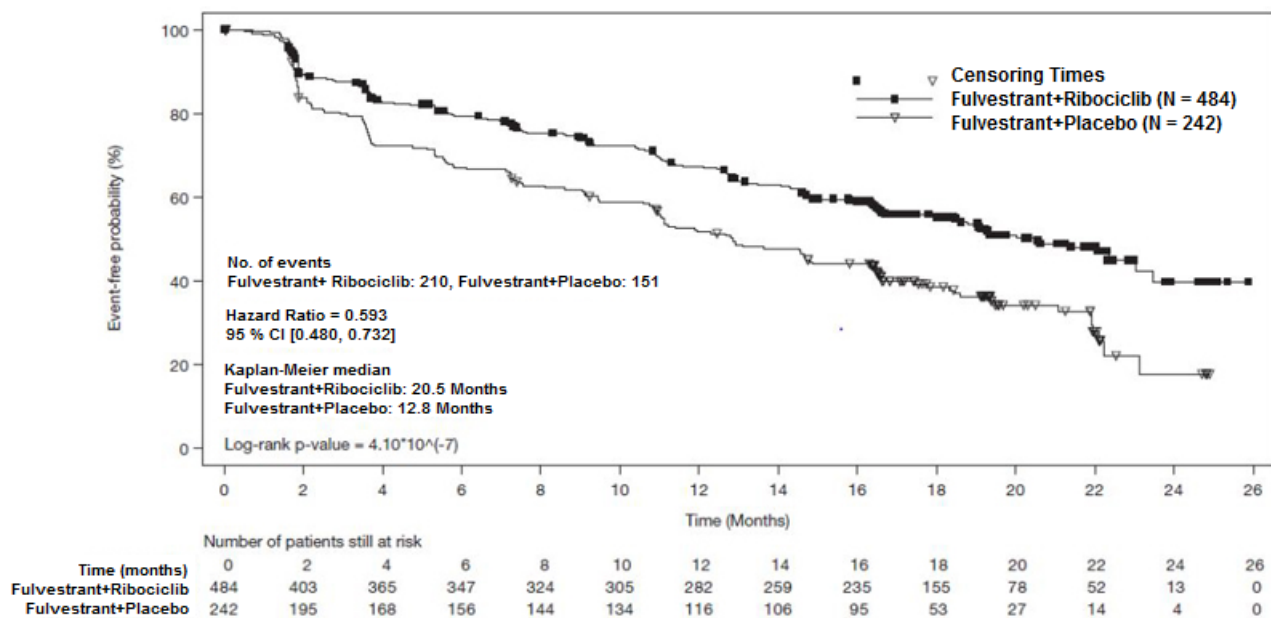
**Table 17: Efficacy Results – MONALEESA-3 (Investigator Assessment, Intent-to-Treat Population)**

|   | <b>Fulvestrant Injection plus Ribociclib</b> | <b>Fulvestrant Injection plus Placebo</b> |
|---|--|---|
| <b>Progression-free survival</b>          | <b>N=484</b>                                 | <b>N=242</b>                              |
| Events (n, %)                             | 210 (43.4%)                                  | 151 (62.4%)                               |
| Median (months, 95% CI)                   | 20.5 (18.5, 23.5)                            | 12.8 (10.9, 16.3)                         |
| Hazard Ratio (95% CI)                     | 0.593 (0.480 to 0.732)                       |   |
| p-value <sup>1</sup>                      | <0.0001                                      |   |
| <b>Overall Response Rate<sup>2</sup></b>  | <b>N=379</b>                                 | <b>N=181</b>                              |
| Patients with measurable disease (95% CI) | 40.9 (35.9, 45.8)                            | 28.7(22.1, 35.3)                          |

<sup>1</sup>. p-value is obtained from the one-sided log-rank

<sup>2</sup>. Based on confirmed responses

**Figure 11 Kaplan-Meier Progression Free Survival Curves – MONALEESA-3 (Investigator assessment)**



## 16 HOW SUPPLIED/STORAGE AND HANDLING

Fulvestrant Injection is supplied as two 5 mL clear neutral glass (Type 1) barrels, each containing 250 mg/5 mL of sterile, nonpyrogenic, clear, colorless to yellow Fulvestrant Injection solution for intramuscular injection and fitted with a luer lock connector.

The rubber plunger is not made with natural rubber latex.

NDC 0591-5019-02

The single-dose prefilled syringes are presented in a tray with polystyrene plunger rod and safety needles (SafetyGlide™) for connection to the barrel.

Discard each syringe after use. If a patient dose requires only one syringe, unused syringe should be stored as directed below.



**Storage:**

REFRIGERATE, 2°-8°C (36°-46°F). TO PROTECT FROM LIGHT, STORE IN THE ORIGINAL CARTON UNTIL TIME OF USE.

**17 PATIENT COUNSELING INFORMATION**

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

**Monotherapy****Risk of Bleeding**

- Because Fulvestrant Injection is administered intramuscularly, it should be used with caution in patients with bleeding disorders, decreased platelet count, or in patients receiving anticoagulants (for example, warfarin) [see *Warnings and Precautions (5.1)*].

**Embryo-Fetal Toxicity**

- Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception during treatment with Fulvestrant Injection and for one year after the last dose. Advise females to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions (5.4)* and *Use in Specific Populations (8.1), (8.3)*].

**Lactation**

- Advise women not to breastfeed during treatment with Fulvestrant Injection and for one year after the last dose [see *Use in Specific Populations (8.2)*].

**Combination Therapy**

When Fulvestrant Injection is used in combination with palbociclib, abemaciclib, or ribociclib, refer to the respective Full Prescribing Information for Patient Counseling Information.

Manufactured in Italy By:

**Actavis Italy Spa A Socio Unico**

Nerviano, Italy, 20014

Manufactured For:

**Teva Pharmaceuticals USA, Inc.**

North Wales, PA 19454

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**PATIENT INFORMATION**  
**Fulvestrant (ful ves' trant) Injection**

**What is Fulvestrant Injection?**

Fulvestrant Injection is a prescription medicine used to treat advanced breast cancer or breast cancer that has spread to other parts of the body (metastatic).

Fulvestrant Injection may be used alone, if you have gone through menopause, and your advanced breast cancer is:

- hormone receptor (HR)-positive and human epidermal growth factor receptor 2 (HER2)-negative and has not been previously treated with endocrine therapy
- or**
- HR-positive and has progressed after endocrine therapy.

Fulvestrant Injection may be used in combination with ribociclib, if you have gone through menopause, and your advanced or metastatic breast cancer is HR-positive and HER2-negative, and has not been previously treated with endocrine therapy or has progressed after endocrine therapy.

Fulvestrant Injection may be used in combination with palbociclib or abemaciclib if your advanced or metastatic breast cancer is HR-positive and HER2-negative, and has progressed after endocrine therapy.

When Fulvestrant Injection is used in combination with palbociclib, abemaciclib, or ribociclib, also read the Patient Information for the prescribed product.

It is not known if Fulvestrant Injection is safe and effective in children.

It is not known if Fulvestrant Injection is safe and effective in people with severe liver problems.

**Who should not receive Fulvestrant Injection?**

**Do not receive Fulvestrant Injection if you** have had an allergic reaction to fulvestrant or any of the ingredients in Fulvestrant Injection. See the end of this leaflet for a list of the ingredients in Fulvestrant Injection.

Symptoms of an allergic reaction to Fulvestrant Injection may include:

- itching or hives
- swelling of your face, lips, tongue, or throat
- trouble breathing

**What should I tell my healthcare provider before receiving Fulvestrant Injection?**

**Before receiving Fulvestrant Injection, tell your healthcare provider about all of your medical conditions, including if you:**

- have a low level of platelets in your blood or bleed easily.
- have liver problems.
- are pregnant or plan to become pregnant. Fulvestrant Injection can harm your unborn baby.

**Females who are able to become pregnant:**

- Your healthcare provider may perform a pregnancy test within 7 days before you start Fulvestrant Injection.
- You should use effective birth control during treatment with Fulvestrant Injection and for one year after the last dose of Fulvestrant Injection.
- Tell your healthcare provider right away if you become pregnant or think you are pregnant during treatment with Fulvestrant Injection.
- are breastfeeding or plan to breastfeed. It is not known if fulvestrant passes into your breast milk. Do not breastfeed during your treatment with Fulvestrant Injection and for one year after the final dose of Fulvestrant Injection. Talk to your healthcare provider about the best way to feed your baby during this

time.

**Tell your healthcare provider about all the medicines you take, including** prescription and over-the-counter medicines, vitamins, and herbal supplements. Fulvestrant Injection may affect the way other medicines work, and other medicines may affect how Fulvestrant Injection works.

**Especially tell your healthcare provider** if you take a blood thinner medicine.

#### **How will I receive Fulvestrant Injection?**

- Your healthcare provider will give you Fulvestrant by injection into the muscle of each buttock.
- Your healthcare provider may change your dose of Fulvestrant Injection if needed.

#### **What are the possible side effects of Fulvestrant Injection?**

**Fulvestrant Injection may cause serious side effects, including:**

- **Injection site related nerve damage.** Call your healthcare provider if you develop any of the following symptoms in your legs following a Fulvestrant Injection:
  - numbness
  - tingling
  - weakness

The most common side effects of Fulvestrant Injection include:

- |                                     |                           |
|-------------------------------------|---------------------------|
| • injection site pain               | • vomiting                |
| • nausea                            | • loss of appetite        |
| • muscle, joint, and bone pain      | • weakness                |
| • headache                          | • cough                   |
| • back pain                         | • shortness of breath     |
| • tiredness                         | • constipation            |
| • pain in arms, hands, legs or feet | • increased liver enzymes |
| • hot flashes                       | • diarrhea                |

Fulvestrant Injection may cause fertility problems in males and females. Talk to your healthcare provider if you plan to become pregnant.

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

These are not all of the possible side effects with Fulvestrant Injection. For more information, ask your healthcare provider or pharmacist.

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 Fulvestrant Injection**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Fulvestrant Injection that is written for health professionals.

#### **What are the ingredients in Fulvestrant Injection?**

**Active ingredient:** fulvestrant, USP

**Inactive ingredients:** benzyl alcohol, dehydrated alcohol, castor oil, medium chain triglycerides, and nitrogen.

SafetyGlide™ is a trademark of Becton Dickinson and Company.

Manufactured in Italy By: **Actavis Italy Spa A Socio Unico**, Nerviano, Italy, 20014

Manufactured For: **Teva Pharmaceuticals USA, Inc.**, North Wales, PA 19454  
For more information call Teva Pharmaceuticals USA, Inc. at 1-888-838-2872.

This Patient Information has been approved by the U.S. Food and Drug Administration

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