



XTANDI
**CAN SLOW ADVANCED PROSTATE
CANCER PROGRESSION**
WHILE YOU FOCUS MORE ON WHAT YOU LOVE

In clinical studies, XTANDI was evaluated in men with advanced prostate cancer that:

- Had not spread to other parts of the body and no longer responded to treatment to lower testosterone: XTANDI lowered the chance of progression by 71%
- Had spread to other parts of the body and still responded to treatment to lower testosterone: XTANDI lowered the chance of progression by 61%
- Had spread to other parts of the body and no longer responded to treatment to lower testosterone: XTANDI lowered the chance of progression by 83%

Men in each study either had surgery to lower testosterone or were taking hormone therapy. Progression was defined as the cancer getting worse, as measured by scans or if the patient died for any reason.

[Learn more >](#)

What is XTANDI? XTANDI is a prescription medicine used to treat men with prostate cancer that:

- no longer responds to a hormone therapy or surgical treatment to lower testosterone
OR
- has spread to other parts of the body and responds to a hormone therapy or surgical treatment to lower testosterone

It is not known if XTANDI is safe and effective in females or children.

Select Safety Information

XTANDI may cause serious side effects including seizure. If you take XTANDI, you may be at risk of having a seizure. Avoid activities where a sudden loss of consciousness could seriously harm you or someone else. Tell your doctor right away if you lose consciousness or have a seizure.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

**Xtandi**
(enzalutamide)
40 mg tablets | 80 mg tablets

YOUR GUIDE TO STARTING XTANDI

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XTANDI Support Solutions is dedicated to helping you find support to get and pay for your medicine. Call 1-855-8XTANDI and learn more on page 27.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



ABOUT XTANDI

- Understanding advanced prostate cancer
- Forms of advanced prostate cancer
- How XTANDI may help
- How XTANDI works
- Taking XTANDI
- Tips for staying on track

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



UNDERSTANDING ADVANCED PROSTATE CANCER

When prostate cancer is “advanced,” it can be treated but not cured

Unlike early-stage prostate cancer, which can sometimes be cured with treatment, advanced prostate cancer cannot be cured.

But the good news is that your doctor has ways to treat it, including XTANDI.

Read the next page to understand the forms of advanced prostate cancer that can be treated with XTANDI. Ask your doctor if XTANDI is right for your form of advanced prostate cancer.

Your doctor can tell if your cancer is getting worse or spreading

He or she may look at some indicators like:

- **Your prostate-specific antigen (PSA) level.** Is it rising over time?
- **Your scans.** Do they show tumors getting bigger or new ones?

On pages 6-11, see how XTANDI helped men with 3 forms of advanced prostate cancer in clinical studies.

Select Safety Information

XTANDI may cause serious side effects including Posterior Reversible Encephalopathy Syndrome (PRES).

If you take XTANDI you may be at risk of developing a condition involving the brain called PRES. Tell your doctor right away if you have a seizure or quickly worsening symptoms such as headache, decreased alertness, confusion, reduced eyesight, blurred vision or other visual problems. Your doctor will do a test to check for PRES.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



FORMS OF ADVANCED PROSTATE CANCER

Which form of advanced prostate cancer do you have?

XTANDI is FDA-approved to treat 3 forms of advanced prostate cancer



Non-metastatic castration-resistant prostate cancer (nmCRPC)

- The cancer has not spread to other parts of the body
- The cancer no longer responds to a hormone therapy or surgical treatment to lower testosterone



Metastatic castration-sensitive prostate cancer (mCSPC)

- The cancer has spread to other parts of the body
- The cancer responds to a hormone therapy or surgical treatment to lower testosterone

Metastatic castration-resistant prostate cancer (mCRPC)

- The cancer has spread to other parts of the body
- The cancer no longer responds to a hormone therapy or surgical treatment to lower testosterone

Ask your doctor for more information regarding your form of advanced prostate cancer.

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HOW XTANDI MAY HELP



XTANDI in non-metastatic castration-resistant prostate cancer (nmCRPC)

XTANDI was studied in men with advanced prostate cancer that

- No longer responded to hormone therapy or surgical treatment to lower testosterone
- **Had not spread** to other parts of the body

This study included 1,401 men. It compared men taking XTANDI with men not taking XTANDI.

These men had not received chemotherapy. **All men either had surgery to lower testosterone or continued to take hormone therapy during the study.**

See study results on the next page.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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HOW XTANDI MAY HELP (CONTINUED)

In this study of nmCRPC:

Men taking XTANDI had a 71% lower chance of their cancer progressing



- Compared with men not taking XTANDI during the study
- Progression was defined as the cancer getting worse, as measured by scans, or if the patient died for any reason

Results may vary. Talk with your doctor about what this may mean for you.

Select Safety Information

XTANDI may cause serious side effects including allergic reactions. Allergic reactions have happened in people who take XTANDI. Stop taking XTANDI and get medical help right away if you develop swelling of the face, tongue, lip or throat.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



HOW XTANDI MAY HELP (CONTINUED)



XTANDI in metastatic castration-sensitive prostate cancer (mCSPC)

XTANDI was studied in men with advanced prostate cancer that

- Was still responsive to hormone therapy or surgical treatment to lower testosterone
- **Had spread** to other parts of the body

This study included 1,150 men. It compared men taking XTANDI with men not taking XTANDI.

All men either had surgery to lower testosterone or continued to take hormone therapy during the study.

See study results on the next page.

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HOW XTANDI MAY HELP (CONTINUED)

In this study of mCSPC:

Men taking XTANDI had a 61% lower chance of their cancer progressing

61%
LOWER
CHANCE

- Compared with men not taking XTANDI during the study
- Progression was defined as the cancer getting worse, as measured by scans, or if the patient died for any reason

In this same study,

XTANDI delayed the time to needing to start a new prostate cancer treatment

72%
LOWER
CHANCE

Men taking XTANDI had a 72% lower chance of needing to begin new chemotherapy or other cancer drugs than men not taking XTANDI.

Results may vary. Talk with your doctor about what this may mean for you.

Select Safety Information

XTANDI may cause serious side effects including heart disease. Blockage of the arteries in the heart (ischemic heart disease) that can lead to death has happened in some people during treatment with XTANDI. Your doctor will monitor you for signs and symptoms of heart problems during your treatment. Call your doctor or go to the emergency room right away if you get chest pain or discomfort at rest or with activity or shortness of breath during your treatment with XTANDI.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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HOW XTANDI MAY HELP (CONTINUED)



XTANDI in metastatic castration-resistant prostate cancer (mCRPC)

XTANDI was studied in men with advanced prostate cancer that

- No longer responded to hormone therapy or surgical treatment to lower testosterone
- **Had spread** to other parts of the body

This study included 1,717 men. It compared men taking XTANDI with men not taking XTANDI.

These men had not received chemotherapy. **All men either had surgery to lower testosterone or continued to take hormone therapy during the study.**

XTANDI lowered the chance of cancer progressing by 83%

- Compared with men not taking XTANDI during the study



- Progression was defined as the cancer getting worse, as measured by scans, or if the patient died for any reason

XTANDI helped men live longer

- Compared with men not taking XTANDI during the study

The following numbers are the **median**. The median is not the average, but the middle of a set of numbers.

Taking XTANDI

35 MONTHS

Not Taking XTANDI

31 MONTHS

The median overall survival was 35 months for men taking XTANDI vs 31 months for men not taking XTANDI.

See more study results on the next page.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.


40 mg tablets | 80 mg tablets

HOW XTANDI MAY HELP (CONTINUED)

**In this same study in men with mCRPC,
XTANDI delayed the median time before men began chemotherapy**

- Compared with men not taking XTANDI during the study

The following numbers are the **median**. The median is not the average, but the middle of a set of numbers.

Taking XTANDI

28 MONTHS

Not Taking XTANDI

11 MONTHS

During the study, XTANDI delayed the median time before men began chemotherapy: 28 months for men taking XTANDI compared with 11 months for men not taking XTANDI.

Results may vary. Talk with your doctor about what this may mean for you.

Select Safety Information

XTANDI may cause serious side effects including falls and fractures. XTANDI treatment may increase your risk for falls and fractures. Falls were not caused by loss of consciousness or seizures. Your doctor will monitor your risks for falls and fractures during treatment with XTANDI.

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HOW XTANDI WORKS

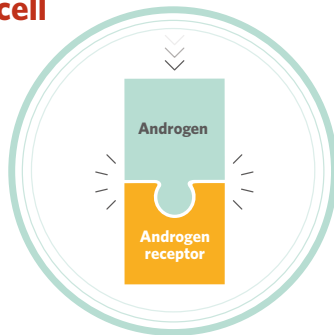
How XTANDI is thought to work in prostate cancer cells

XTANDI is an androgen receptor inhibitor. Androgens are a group of hormones that includes testosterone. Androgen receptor inhibitors interfere with the connection between androgens and androgen receptors. This can help slow cancer cell growth.

Imagine the inside of a prostate cancer cell as a puzzle

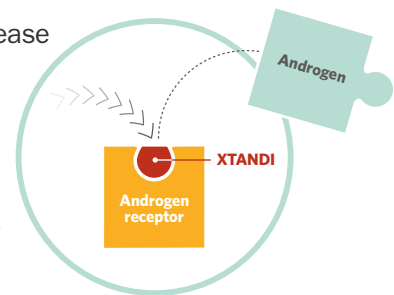
Prostate cancer cell

When androgen connects with an androgen receptor, it may cause tumor cells to grow.



How XTANDI works

XTANDI helps to decrease how often androgen can connect with an androgen receptor. This can keep tumors from growing.



This is how XTANDI was shown to work in laboratory studies. Clinical significance is unknown.

As a result, the prostate tumor may stop growing and the cancer cells may die.

Select Safety Information

The most common side effects of XTANDI include: weakness or feeling more tired than usual, back pain, hot flashes, constipation, joint pain, decreased appetite, diarrhea, and high blood pressure.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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TAKING XTANDI

Take XTANDI exactly as your doctor tells you.

Take your prescribed dose once a day, at the same time each day. Your doctor may change your dose if needed. Do not change or stop taking your prescribed dose of XTANDI without talking with your doctor first.

- **XTANDI can be taken with or without food**
- **Swallow XTANDI capsules or tablets whole.** Do not chew, dissolve, or open the capsules. Do not cut, crush or chew the tablets
- **If you are receiving gonadotropin-releasing hormone (GnRH) therapy,** you should continue with this treatment while taking XTANDI unless you have had surgery to lower the amount of testosterone in your body (surgical castration)

If you miss a dose, take your prescribed dose as soon as you remember that day.

If you missed your daily dose, take your prescribed dose at your regular time the next day.

Do not take more than your prescribed dose of XTANDI each day.

If you take too much XTANDI

- Call your doctor, or
- Go to the nearest emergency room right away

You may have an increased risk of seizure if you take too much XTANDI.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



TIPS FOR STAYING ON TRACK

Try the tips below to help you take your medicine as directed by your doctor:



Take XTANDI when you do another daily activity, such as after brushing your teeth



Download the XTANDI treatment calendar at XTANDI.com/calendar



Set an alarm to help you remember to take XTANDI at the same time each day

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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INDICATION AND IMPORTANT SAFETY INFORMATION

- What is XTANDI?
- Important Safety Information
- Possible side effects

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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INDICATION AND IMPORTANT SAFETY INFORMATION

WHAT IS XTANDI?

XTANDI is a prescription medicine used to treat men with prostate cancer that:

- no longer responds to a hormone therapy or surgical treatment to lower testosterone
- OR
- has spread to other parts of the body and responds to a hormone therapy or surgical treatment to lower testosterone

It is not known if XTANDI is safe and effective in females or children.

WHAT SHOULD I TELL MY DOCTOR BEFORE TAKING XTANDI?

Tell your doctor about all your medical conditions, including if you:



Have a history of seizures, brain injury, stroke, or brain tumors.



Have a history of heart disease, have high blood pressure, or have abnormal amounts of fat or cholesterol in your blood (dyslipidemia).

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IMPORTANT SAFETY INFORMATION (CONTINUED)



Are pregnant or plan to become pregnant.

XTANDI can cause harm to your unborn baby and loss of pregnancy (miscarriage).



Have a partner who is pregnant or may become pregnant.

- Males who have female partners who are able to become pregnant should use effective birth control (contraception) during treatment with XTANDI and for 3 months after the last dose.
- Males must use a condom during sex with a pregnant female.



Are breastfeeding or plan to breastfeed.

It is not known if XTANDI passes into your breast milk.



Take other medicines.

XTANDI may affect the way other medicines work, and other medicines may affect how XTANDI works. These include prescription and over-the-counter medicines, vitamins, and herbal supplements. Do not start or stop any medicine without talking to your doctor.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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IMPORTANT SAFETY INFORMATION (CONTINUED)

HOW SHOULD I TAKE XTANDI?



Take XTANDI exactly as your doctor tells you.

Take your prescribed dose once a day, at the same time each day. XTANDI can be taken with or without food. Swallow XTANDI capsules or tablets whole. Do not chew, dissolve, or open the capsules. Do not cut, crush or chew the tablets. Your doctor may change your dose if needed.



Do not change or stop taking your prescribed dose of XTANDI without talking with your doctor first.



If you are receiving gonadotropin-releasing hormone (GnRH) therapy, you should continue with this treatment while taking XTANDI unless you have had surgery to lower the amount of testosterone in your body (surgical castration).

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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IMPORTANT SAFETY INFORMATION (CONTINUED)



If you miss a dose of XTANDI:

Take your prescribed dose as soon as you remember that day. If you miss your daily dose, take your prescribed dose at your regular time the next day. Do not take more than your prescribed dose of XTANDI each day.

If you take too much XTANDI:

Call your doctor or go to the nearest emergency room right away. You may have an increased risk of seizure if you take too much XTANDI.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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IMPORTANT SAFETY INFORMATION (CONTINUED)

WHAT ARE THE POSSIBLE SIDE EFFECTS OF XTANDI?

XTANDI may cause serious side effects including:



Seizure

If you take XTANDI, you may be at risk of having a seizure. Avoid activities where a sudden loss of consciousness could seriously harm you or someone else. Tell your doctor right away if you lose consciousness or have a seizure.



Posterior Reversible Encephalopathy Syndrome (PRES)

If you take XTANDI you may be at risk of developing a condition involving the brain called PRES. Tell your doctor right away if you have a seizure or quickly worsening symptoms such as headache, decreased alertness, confusion, reduced eyesight, blurred vision or other visual problems. Your doctor will do a test to check for PRES.



Allergic Reactions

Allergic reactions have happened in people who take XTANDI. Stop taking XTANDI and get medical help right away if you develop swelling of the face, tongue, lip or throat.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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IMPORTANT SAFETY INFORMATION (CONTINUED)



Heart Disease

Blockage of the arteries in the heart (ischemic heart disease) that can lead to death has happened in some people during treatment with XTANDI. Your doctor will monitor you for signs and symptoms of heart problems during your treatment. Call your doctor or go to the emergency room right away if you get chest pain or discomfort at rest or with activity or shortness of breath during your treatment with XTANDI.



Falls and Fractures

XTANDI treatment may increase your risk for falls and fractures. Falls were not caused by loss of consciousness or seizures. Your doctor will monitor your risks for falls and fractures during treatment with XTANDI.

Your doctor will stop treatment with XTANDI if you have serious side effects.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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IMPORTANT SAFETY INFORMATION (CONTINUED)

WHAT ARE THE POSSIBLE SIDE EFFECTS OF XTANDI?



The most common side effects of XTANDI include:

- Weakness or feeling more tired than usual
- Back pain
- Hot flashes
- Constipation
- Joint pain
- Decreased appetite
- Diarrhea
- High blood pressure

XTANDI may cause fertility problems in males, which may affect the ability to father children. Talk to your doctor if you have concerns about fertility.

These are not all the possible side effects of XTANDI. For more information, talk to your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

For further information, please talk to your doctor and see Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.

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SUPPORT FOR XTANDI

- How to get XTANDI
- XTANDI Support Solutions
- Questions to ask at your next appointment

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



HOW TO GET XTANDI

There are 2 ways to get XTANDI

It's important to know that XTANDI is not available at your local pharmacy.

1 Specialty pharmacy

In most cases, your doctor will send your XTANDI prescription to a specialty pharmacy. A specialty pharmacy fills prescriptions for medicines that you can't get at your regular pharmacy.

One benefit of getting XTANDI from a specialty pharmacy is that your medicine will be mailed right to your home. The specialty pharmacy will call you to arrange the delivery of your medicine.

2 Pharmacy in your doctor's office

In some cases, your doctor's office may have its own pharmacy that can fill your XTANDI prescription.



XTANDI Support Solutions can help you get XTANDI

Our dedicated access specialists are here to help.
Call **1-855-8XTANDI (1-855-898-2634)**.

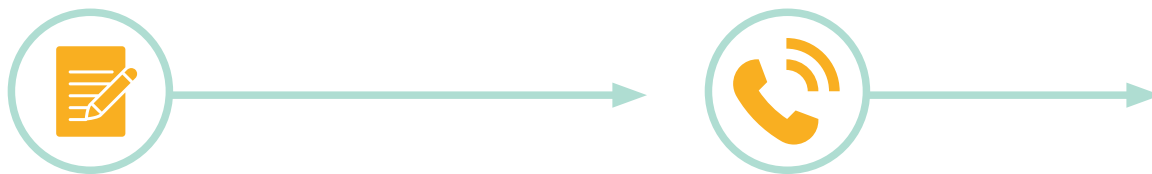
Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



HOW TO GET XTANDI (CONTINUED)

Getting XTANDI from a specialty pharmacy

Here's how the process typically works, plus a few tips to help ensure it goes as smoothly as possible.



At your doctor's office: A member of your healthcare team will fill out the insurance forms with you. They will send your prescription to a specialty pharmacy or XTANDI Support Solutions to help with the process.

Tip At your appointment, confirm that your forms are complete and correct.

A few days after your appointment: The specialty pharmacy will call you about your out-of-pocket costs and arrange the delivery of your medicine. You may also receive a call from XTANDI Support Solutions if there are any questions about your insurance forms.

Tip Reach out to your doctor if you haven't heard from your specialty pharmacy within a few days.

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HOW TO GET XTANDI (CONTINUED)



When it's time for delivery: XTANDI may be delivered right to your home.

Tip If you haven't received your medicine, call your doctor or specialty pharmacy.



When it's time for a refill: Your specialty pharmacy will call you to arrange a refill.

Tip Contact your specialty pharmacy 2 weeks before your medicine is going to run out if you have not heard from them.



XTANDI Support Solutions can help you get XTANDI

**Our dedicated access specialists are here to help.
Call 1-855-8XTANDI (1-855-898-2634).**

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



XTANDI SUPPORT SOLUTIONS



XTANDI Support Solutions offers resources based on your specific needs, including help getting and paying for XTANDI based on your insurance coverage. Call us today to get personalized support at **1-855-8XTANDI (1-855-898-2634)**. We're available Monday through Friday, 8 AM to 8 PM ET.



Help getting XTANDI

Our dedicated access specialists will work closely with you and your healthcare team to help make getting XTANDI from a specialty pharmacy as simple as possible.

We can help with:

- Making sure your healthcare team has the paperwork they need to submit to your insurance company
- Arranging for the delivery of XTANDI through a specialty pharmacy to help you start your medicine as soon as possible

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.



XTANDI SUPPORT SOLUTIONS (CONTINUED)

Help paying for XTANDI

By calling **1-855-8XTANDI (1-855-898-2634)**, you can speak to a dedicated access specialist who can help you find ways to pay for XTANDI. We can also answer questions about insurance coverage and your out-of-pocket costs.

If you're commercially insured:

Pay as little as
\$0 per month
for your XTANDI
prescription*

The XTANDI Patient Savings Program* allows eligible patients with commercial prescription insurance to **pay as little as \$0 per prescription.**

Enroll at ActivateTheCard.com/XTANDISavings.

If you're on Medicare Part D:

We can provide information about other resources that may be able to help.†

If you're uninsured:

The Astellas Patient Assistance Program provides XTANDI at no cost to patients who meet the program eligibility requirements.‡ All patients in this program who qualify receive their XTANDI prescription at no cost.

*By enrolling in the XTANDI Patient Savings Program ("Program"), you acknowledge that you currently meet the eligibility criteria and will comply with the following terms and conditions: The Program is for eligible patients with commercial prescription insurance for XTANDI. The Program is not valid for patients whose prescription claims are reimbursed, in whole or in part, by any state or federal government program, including, but not limited to, Medicaid, Medicare, Medigap, Department of Defense (DoD), Veterans Affairs (VA), TRICARE, Puerto Rico Government Insurance, or any state patient or pharmaceutical assistance program. Patients who move from commercial insurance to federal or state health insurance will no longer be eligible, and agree to notify the Program of any such change. Patients agree not to seek reimbursement from any health insurance or third party for all or any part of the benefit received by the patient through the Program. This offer is not conditioned on any past, present, or future purchase of XTANDI. This offer is not transferrable and cannot be combined with any other offer, free trial, prescription savings card, or discount. This offer is not health insurance and is only valid for patients in the 50 United States, Washington DC, Puerto Rico, Guam and Virgin Islands. This offer is not valid for cash paying patients. This Program is void where prohibited by law. No membership fees. It is illegal to sell, purchase, trade, counterfeit, duplicate, or reproduce, or offer to sell, purchase, trade, counterfeit, duplicate, or reproduce the card. This offer will be accepted only at participating pharmacies. Certain rules and restrictions apply. Astellas reserves the right to revoke, rescind, or amend this offer without notice.

†XTANDI Support Solutions has no control over the decisions made by and does not guarantee support from independent third parties.

‡Subject to eligibility. Void where prohibited by law.

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QUESTIONS TO ASK AT YOUR NEXT APPOINTMENT

As you start taking XTANDI, it may be helpful to keep a list of questions to discuss with your healthcare team at your next visit. The questions below can help you get started.

How will I know if XTANDI is helping me?

What side effects should I be aware of while taking XTANDI?

What should I do if I experience a side effect of XTANDI?

Is there support available if I need help paying for XTANDI?

Please see Important Safety Information on pages 15-22 and Full Prescribing Information including Patient Information on pages 31-58 for XTANDI.





To learn about resources that can help you get and pay for XTANDI, call XTANDI Support Solutions® at 1-855-8XTANDI.



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HIGHLIGHTS OF PRESCRIBING INFORMATION

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

XTANDI® (enzalutamide) capsules, for oral use

XTANDI® (enzalutamide) tablets, for oral use

Initial U.S. Approval: 2012

RECENT MAJOR CHANGES

Indications and Usage (1)	12/2019
Dosage and Administration – Dosing Information (2.1)	10/2020
Warnings and Precautions, Seizure (5.1)	12/2019
Warnings and Precautions, Hypersensitivity (5.3)	12/2019
Warnings and Precautions, Ischemic Heart Disease (5.4)	12/2019
Warnings and Precautions, Falls and Fractures (5.5)	12/2019

INDICATIONS AND USAGE

XTANDI is an androgen receptor inhibitor indicated for the treatment of patients with:

- castration-resistant prostate cancer. (1)
- metastatic castration-sensitive prostate cancer. (1)

DOSAGE AND ADMINISTRATION

XTANDI 160 mg (two 80 mg tablets or four 40 mg tablets or four 40 mg capsules) administered orally once daily. Swallow capsules or tablets whole. (2.1)

Patients receiving XTANDI should also receive a gonadotropin-releasing hormone (GnRH) analog concurrently or should have had bilateral orchiectomy. (2.3)

DOSAGE FORMS AND STRENGTHS

Capsule 40 mg (3)
Tablet: 40 mg, 80 mg (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- Seizure occurred in 0.5% of patients receiving XTANDI. In patients with predisposing factors, seizures were reported in 2.2%

of patients. Permanently discontinue XTANDI in patients who develop a seizure during treatment. (5.1)

- Posterior reversible encephalopathy syndrome (PRES): Discontinue XTANDI. (5.2)
- Hypersensitivity: Discontinue XTANDI. (5.3)
- Ischemic Heart Disease: Optimize management of cardiovascular risk factors. Discontinue XTANDI for Grade 3-4 events. (5.4)
- Falls and Fractures occurred in 11% and 10% of patients receiving XTANDI, respectively. Evaluate patients for fracture and fall risk, and treat patients with bone-targeted agents according to established guidelines. (5.5)
- Embryo-Fetal Toxicity: XTANDI can cause fetal harm and loss of pregnancy. Advise males with female partners of reproductive potential to use effective contraception. (5.6, 8.1, 8.3)

ADVERSE REACTIONS

The most common adverse reactions (≥ 10%) that occurred more frequently (≥ 2% over placebo) in the XTANDI-treated patients are asthenia/fatigue, back pain, hot flush, constipation, arthralgia, decreased appetite, diarrhea, and hypertension. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Astellas Pharma US, Inc. at 1-800-727-7003 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Avoid strong CYP2C8 inhibitors, as they can increase the plasma exposure to XTANDI. If co-administration is necessary, reduce the dose of XTANDI. (2.2, 7.1)
- Avoid strong CYP3A4 inducers as they can decrease the plasma exposure to XTANDI. If co-administration is necessary, increase the dose of XTANDI. (2.2, 7.2)
- Avoid CYP3A4, CYP2C9 and CYP2C19 substrates with a narrow therapeutic index, as XTANDI may decrease the plasma exposures of these drugs. If XTANDI is co-administered with warfarin (CYP2C9 substrate), conduct additional INR monitoring. (7.3)

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

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

XTANDI® is indicated for the treatment of patients with:

- castration-resistant prostate cancer (CRPC)
- metastatic castration-sensitive prostate cancer (mCSPC)

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Information

The recommended dose of XTANDI is 160 mg (two 80 mg tablets or four 40 mg tablets or four 40 mg capsules) administered orally once daily. XTANDI can be taken with or without food [see [Clinical Pharmacology \(12.3\)](#)]. Swallow capsules or tablets whole. Do not chew, dissolve, or open the capsules. Do not cut, crush, or chew the tablets [see [How Supplied/Storage and Handling \(16\)](#)].

2.2 Dose Modifications

If a patient experiences a \geq Grade 3 toxicity or an intolerable side effect, withhold dosing for one week or until symptoms improve to \leq Grade 2, then resume at the same or a reduced dose (120 mg or 80 mg), if warranted [see [Warnings and Precautions \(5.1\), \(5.2\)](#)].

Concomitant Strong CYP2C8 Inhibitors

The concomitant use of strong CYP2C8 inhibitors should be avoided if possible. If patients must be co-administered a strong CYP2C8 inhibitor, reduce the XTANDI dose to 80 mg once daily. If co-administration of the strong inhibitor is discontinued, the XTANDI dose should be returned to the dose used prior to initiation of the strong CYP2C8 inhibitor [see [Drug Interactions \(7.1\)](#) and [Clinical Pharmacology \(12.3\)](#)].

Concomitant Strong CYP3A4 Inducers

The concomitant use of strong CYP3A4 inducers should be avoided if possible. If patients must be co-administered a strong CYP3A4 inducer, increase the XTANDI dose from 160 mg to 240 mg once daily. If co-administration of the strong CYP3A4 inducer is discontinued, the XTANDI dose should be returned to the dose used prior to initiation of the strong CYP3A4 inducer [see [Drug Interactions \(7.2\)](#) and [Clinical Pharmacology \(12.3\)](#)].

2.3 Important Administration Instructions

Patients receiving XTANDI should also receive a gonadotropin-releasing hormone (GnRH) analog concurrently or should have had bilateral orchiectomy.

3 DOSAGE FORMS AND STRENGTHS

XTANDI 40 mg capsules are white to off-white oblong soft gelatin capsules imprinted in black ink with ENZ.

XTANDI 40 mg tablets are yellow, round, film-coated and debossed with E 40.

XTANDI 80 mg tablets are yellow, oval, film-coated and debossed with E 80.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Seizure

Seizure occurred in 0.5% of patients receiving XTANDI in seven randomized clinical trials. In these trials, patients with predisposing factors for seizure were generally excluded. Seizure occurred from 13 to 1776 days after initiation of XTANDI. Patients experiencing seizure were permanently discontinued from therapy, and all seizure events resolved.

In a single-arm trial designed to assess the risk of seizure in patients with pre-disposing factors for seizure, 8 of 366 (2.2%) XTANDI-treated patients experienced a seizure. Three of the 8 patients experienced a second seizure during continued treatment with XTANDI after their first seizure resolved. It is unknown whether anti-epileptic medications will prevent seizures with XTANDI. Patients in the study had one or more of the following pre-disposing factors: the use of medications that may lower the seizure threshold (~ 54%), history of traumatic brain or head injury (~ 28%), history of cerebrovascular accident or transient ischemic attack (~ 24%), and Alzheimer's disease, meningioma, or leptomeningeal disease from prostate cancer, unexplained loss of consciousness within the last 12 months, past history of seizure, presence of a space occupying lesion of the brain, history of arteriovenous malformation, or history of brain infection (all < 5%). Approximately 17% of patients had more than one risk factor.

Advise patients of the risk of developing a seizure while receiving XTANDI and of engaging in any activity where sudden loss of consciousness could cause serious harm to themselves or others.

Permanently discontinue XTANDI in patients who develop a seizure during treatment.

5.2 Posterior Reversible Encephalopathy Syndrome (PRES)

There have been reports of posterior reversible encephalopathy syndrome (PRES) in patients receiving XTANDI [*see Adverse Reactions (6.2)*]. PRES is a neurological disorder which can present with rapidly evolving symptoms including seizure, headache, lethargy, confusion, blindness, and other visual and neurological disturbances, with or without associated hypertension. A diagnosis of PRES requires confirmation by brain imaging, preferably magnetic resonance imaging (MRI). Discontinue XTANDI in patients who develop PRES.

5.3 Hypersensitivity

Hypersensitivity reactions, including edema of the face (0.5%), tongue (0.1%), or lip (0.1%) have been observed with enzalutamide in seven randomized clinical trials. Pharyngeal edema has been reported in post-marketing cases. Advise patients who experience any symptoms of hypersensitivity to temporarily discontinue XTANDI and promptly seek medical care. Permanently discontinue XTANDI for serious hypersensitivity reactions.

5.4 Ischemic Heart Disease

In the combined data of four randomized, placebo-controlled clinical studies, ischemic heart disease occurred more commonly in patients on the XTANDI arm compared to patients on the placebo arm (2.9% vs 1.3%). Grade 3-4 ischemic events occurred in 1.4% of patients on the XTANDI arm compared to 0.7% on the placebo arm. Ischemic events led to death in 0.4% of patients on the XTANDI arm compared to 0.1% on the placebo arm.

Monitor for signs and symptoms of ischemic heart disease. Optimize management of cardiovascular risk factors, such as hypertension, diabetes, or dyslipidemia. Discontinue XTANDI for Grade 3-4 ischemic heart disease.

5.5 Falls and Fractures

Falls and fractures occurred in patients receiving XTANDI. Evaluate patients for fracture and fall risk. Monitor and manage patients at risk for fractures according to established treatment guidelines and consider use of bone-targeted agents.

In the combined data of four randomized, placebo-controlled clinical studies, falls occurred in 11% of patients treated with XTANDI compared to 4% of patients treated with placebo. Falls were not associated with loss of consciousness or seizure. Fractures occurred in 10% of patients treated with XTANDI and in 4% of patients treated with placebo. Grade 3-4 fractures occurred in 3% of patients treated with XTANDI and in 2% of patients treated with placebo. The median time to onset of fracture was 336 days (range: 2 to 1914 days) for patients treated with XTANDI. Routine bone density assessment and treatment of osteoporosis with bone-targeted agents were not performed in the studies.

5.6 Embryo-Fetal Toxicity

The safety and efficacy of XTANDI have not been established in females. Based on animal reproductive studies and mechanism of action, XTANDI can cause fetal harm and loss of pregnancy when administered to a pregnant female. Advise males with female partners of reproductive potential to use effective contraception during treatment with XTANDI and for 3 months after the last dose of XTANDI [see [Use in Specific Populations \(8.1, 8.3\)](#)].

6 ADVERSE REACTIONS

The following is discussed in more detail in other sections of the labeling:

- Seizure [see [Warnings and Precautions \(5.1\)](#)]
- Posterior Reversible Encephalopathy Syndrome (PRES) [see [Warnings and Precautions \(5.2\)](#)]
- Hypersensitivity [see [Warnings and Precautions \(5.3\)](#)]
- Ischemic Heart Disease [see [Warnings and Precautions \(5.4\)](#)]
- Falls and Fractures [see [Warnings and Precautions \(5.5\)](#)]

6.1 Clinical Trial 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 in WARNINGS and PRECAUTIONS reflect seven randomized, controlled trials [AFFIRM, PREVAIL, TERRAIN, PROSPER, ARCHES, Asian PREVAIL (NCT02294461), and STRIVE (NCT01664923)] that were pooled to conduct safety analyses in patients with CRPC (N=3509) or mCSPC (N= 572) treated with XTANDI. Patients received XTANDI 160 mg (N= 4081) or placebo orally once daily (N= 2472) or bicalutamide 50 mg orally once daily (N= 387). All patients continued androgen deprivation therapy (ADT). In these seven trials, the median duration of treatment was 13.8 months (range: <0.1 to 87.6) in the XTANDI group.

In four placebo-controlled trials (AFFIRM, PROSPER, PREVAIL, and ARCHES), the median duration of treatment was 14.3 months (range: <0.1 to 87.6) in the XTANDI group [see [Clinical Studies \(14\)](#)]. In these four trials, the most common adverse reactions ($\geq 10\%$) that occurred more frequently ($\geq 2\%$ over placebo) in the XTANDI-treated patients were asthenia/fatigue, back pain, hot flush, constipation, arthralgia, decreased appetite, diarrhea, and hypertension.

AFFIRM (NCT00974311): XTANDI versus Placebo in Metastatic CRPC Following Chemotherapy

AFFIRM enrolled 1199 patients with metastatic CRPC who had previously received docetaxel. The median duration of treatment was 8.3 months with XTANDI and 3.0 months with placebo. During the trial, 48% of patients on the XTANDI arm and 46% of patients on the placebo arm received glucocorticoids.

Grade 3 and higher adverse reactions were reported among 47% of XTANDI-treated patients. Discontinuations due to adverse events were reported for 16% of XTANDI-treated patients. The most common adverse reaction leading to treatment discontinuation was seizure, which occurred in 0.9% of the XTANDI-treated patients compared to none (0%) of the placebo-treated patients. [Table 1](#) shows adverse reactions reported in AFFIRM that occurred at a $\geq 2\%$ higher frequency in the XTANDI arm compared to the placebo arm.

Table 1. Adverse Reactions in AFFIRM

	XTANDI (N = 800)		Placebo (N = 399)	
	Grade 1-4 ¹ (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
General Disorders				
Asthenic Conditions ²	51	9.0	44	9.3
Peripheral Edema	15	1.0	13	0.8
Musculoskeletal and Connective Tissue Disorders				
Back Pain	26	5.3	24	4.0
Arthralgia	21	2.5	17	1.8
Musculoskeletal Pain	15	1.3	12	0.3
Muscular Weakness	9.8	1.5	6.8	1.8
Musculoskeletal Stiffness	2.6	0.3	0.3	0.0
Gastrointestinal Disorders				
Diarrhea	22	1.1	18	0.3
Vascular Disorders				
Hot Flush	20	0.0	10	0.0
Hypertension	6.4	2.1	2.8	1.3
Nervous System Disorders				
Headache	12	0.9	5.5	0.0
Dizziness ³	9.5	0.5	7.5	0.5
Spinal Cord Compression and Cauda Equina Syndrome	7.4	6.6	4.5	3.8
Paresthesia	6.6	0.0	4.5	0.0
Mental Impairment Disorders ⁴	4.3	0.3	1.8	0.0
Hypoesthesia	4.0	0.3	1.8	0.0
Infections and Infestations				
Upper Respiratory Tract Infection ⁵	11	0.0	6.5	0.3
Lower Respiratory Tract And Lung Infection ⁶	8.5	2.4	4.8	1.3
Psychiatric Disorders				
Insomnia	8.8	0.0	6.0	0.5
Anxiety	6.5	0.3	4.0	0.0
Renal and Urinary Disorders				
Hematuria	6.9	1.8	4.5	1.0
Pollakiuria	4.8	0.0	2.5	0.0
Injury, Poisoning and Procedural Complications				
Fall	4.6	0.3	1.3	0.0
Non-pathologic Fractures	4.0	1.4	0.8	0.3
Skin and Subcutaneous Tissue Disorders				
Pruritus	3.8	0.0	1.3	0.0
Dry Skin	3.5	0.0	1.3	0.0
Respiratory Disorders				
Epistaxis	3.3	0.1	1.3	0.3

1. CTCAE v4

2. Includes asthenia and fatigue.

3. Includes dizziness and vertigo.

4. Includes amnesia, memory impairment, cognitive disorder, and disturbance in attention.

5. Includes nasopharyngitis, upper respiratory tract infection, sinusitis, rhinitis, pharyngitis, and laryngitis.

6. Includes pneumonia, lower respiratory tract infection, bronchitis, and lung infection.

PREVAIL (NCT01212991): XTANDI versus Placebo in Chemotherapy-naïve Metastatic CRPC

PREVAIL enrolled 1717 patients with metastatic CRPC who had not received prior cytotoxic chemotherapy, of whom 1715 received at least one dose of study drug. The median duration of treatment was 17.5 months with XTANDI and 4.6 months with placebo. Grade 3-4 adverse reactions were reported in 44% of XTANDI-treated patients and 37% of placebo-treated patients. Discontinuations due to adverse events were reported for 6% of XTANDI-treated patients. The most common adverse reaction leading to treatment discontinuation was fatigue/asthenia, which occurred in 1% of patients on each treatment arm. [Table 2](#) includes adverse reactions reported in PREVAIL that occurred at a $\geq 2\%$ higher frequency in the XTANDI arm compared to the placebo arm.

Table 2. Adverse Reactions in PREVAIL

	XTANDI (N = 871)		Placebo (N = 844)	
	Grade 1-4 ¹ (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
General Disorders				
Asthenic Conditions ²	47	3.4	33	2.8
Peripheral Edema	12	0.2	8.2	0.4
Musculoskeletal and Connective Tissue Disorders				
Back Pain	29	2.5	22	3.0
Arthralgia	21	1.6	16	1.1
Gastrointestinal Disorders				
Constipation	23	0.7	17	0.4
Diarrhea	17	0.3	14	0.4
Vascular Disorders				
Hot Flush	18	0.1	7.8	0.0
Hypertension	14	7.2	4.1	2.3
Nervous System Disorders				
Dizziness ³	11	0.3	7.1	0.0
Headache	11	0.2	7.0	0.4
Dysgeusia	7.6	0.1	3.7	0.0
Mental Impairment Disorders ⁴	5.7	0.0	1.3	0.1
Restless Legs Syndrome	2.1	0.1	0.4	0.0
Respiratory Disorders				
Dyspnea ⁵	11	0.6	8.5	0.6
Infections and Infestations				
Upper Respiratory Tract Infection ⁶	16	0.0	11	0.0
Lower Respiratory Tract And Lung Infection ⁷	7.9	1.5	4.7	1.1
Psychiatric Disorders				
Insomnia	8.2	0.1	5.7	0.0
Renal and Urinary Disorders				
Hematuria	8.8	1.3	5.8	1.3
Injury, Poisoning and Procedural Complications				
Fall	13	1.6	5.3	0.7
Non-Pathological Fracture	8.8	2.1	3.0	1.1
Metabolism and Nutrition Disorders				
Decreased Appetite	19	0.3	16	0.7
Investigations				
Weight Decreased	12	0.8	8.5	0.2
Reproductive System and Breast Disorders				
Gynecomastia	3.4	0.0	1.4	0.0

1. CTCAE v4

2. Includes asthenia and fatigue.
3. Includes dizziness and vertigo.
4. Includes amnesia, memory impairment, cognitive disorder, and disturbance in attention.
5. Includes dyspnea, exertional dyspnea, and dyspnea at rest.
6. Includes nasopharyngitis, upper respiratory tract infection, sinusitis, rhinitis, pharyngitis, and laryngitis.
7. Includes pneumonia, lower respiratory tract infection, bronchitis, and lung infection.

TERRAIN (NCT01288911): XTANDI versus Bicalutamide in Chemotherapy-naïve Metastatic CRPC

TERRAIN enrolled 375 patients with metastatic CRPC who had not received prior cytotoxic chemotherapy, of whom 372 received at least one dose of study drug. The median duration of treatment was 11.6 months with XTANDI and 5.8 months with bicalutamide. Discontinuations with an adverse event as the primary reason were reported for 7.6% of XTANDI-treated patients and 6.3% of bicalutamide-treated patients. The most common adverse reactions leading to treatment discontinuation were back pain and pathological fracture, which occurred in 3.8% of XTANDI-treated patients for each event and in 2.1% and 1.6% of bicalutamide-treated patients, respectively. [Table 3](#) shows overall and common adverse reactions ($\geq 10\%$) in XTANDI-treated patients.

Table 3. Adverse Reactions in TERRAIN

	XTANDI (N = 183)		Bicalutamide (N = 189)	
	Grade 1-4 ¹ (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
Overall	94	39	94	38
General Disorders				
Asthenic Conditions ²	32	1.6	23	1.1
Musculoskeletal and Connective Tissue Disorders				
Back Pain	19	2.7	18	1.6
Musculoskeletal Pain ³	16	1.1	14	0.5
Vascular Disorders				
Hot Flush	15	0	11	0
Hypertension	14	7.1	7.4	4.2
Gastrointestinal Disorders				
Nausea	14	0	18	0
Constipation	13	1.1	13	0.5
Diarrhea	12	0	9.0	1.1
Infections and Infestations				
Upper Respiratory Tract Infection ⁴	12	0	6.3	0.5
Investigational				
Weight Loss	11	0.5	7.9	0.5

1. CTCAE v 4
2. Including asthenia and fatigue.
3. Including musculoskeletal pain and pain in extremity.
4. Including nasopharyngitis, upper respiratory tract infection, sinusitis, rhinitis, pharyngitis, and laryngitis.

PROSPER (NCT02003924): XTANDI versus Placebo in Non-metastatic CRPC Patients

PROSPER enrolled 1401 patients with non-metastatic CRPC, of whom 1395 received at least one dose of study drug. Patients were randomized 2:1 and received either XTANDI at a dose of 160 mg once daily (N = 930) or placebo (N = 465). The median duration of treatment at the time of analysis was 18.4 months (range: 0.0 to 42 months) with XTANDI and 11.1 months (range: 0.0 to 43 months) with placebo.

Overall, 32 patients (3.4%) receiving XTANDI died from adverse events. The reasons for death with ≥ 2 patients included coronary artery disorders (n = 7), sudden death (n = 2), cardiac arrhythmias (n = 2), general physical health deterioration (n = 2), stroke (n = 2), and secondary malignancy (n = 5; one each of acute myeloid leukemia, brain neoplasm,

mesothelioma, small cell lung cancer, and malignant neoplasm of unknown primary site). Three patients (0.6%) receiving placebo died from adverse events of cardiac arrest (n = 1), left ventricular failure (n = 1), and pancreatic carcinoma (n = 1). Grade 3 or higher adverse reactions were reported among 31% of XTANDI-treated patients and 23% of placebo-treated patients. Discontinuations with an adverse event as the primary reason were reported for 9.4% of XTANDI-treated patients and 6.0% of placebo-treated patients. Of these, the most common adverse event leading to treatment discontinuation was fatigue, which occurred in 1.6% of the XTANDI-treated patients compared to none of the placebo-treated patients. [Table 4](#) shows adverse reactions reported in PROSPER that occurred at a $\geq 2\%$ higher frequency in the XTANDI arm than in the placebo arm.

Table 4. Adverse Reactions in PROSPER

	XTANDI (N = 930)		Placebo (N = 465)	
	Grade 1-4 ¹ (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
Metabolism and Nutrition Disorders				
Decreased Appetite	9.6	0.2	3.9	0.2
Nervous System Disorders				
Dizziness ²	12	0.5	5.2	0
Headache	9.1	0.2	4.5	0
Cognitive and Attention Disorders ³	4.6	0.1	1.5	0
Vascular Disorders				
Hot Flush	13	0.1	7.7	0
Hypertension	12	4.6	5.2	2.2
Gastrointestinal Disorders				
Nausea	11	0.3	8.6	0
Constipation	9.1	0.2	6.9	0.4
General Disorders and Administration Site Conditions				
Asthenic Conditions ⁴	40	4.0	20	0.9
Investigations				
Weight Decreased	5.9	0.2	1.5	0
Injury, Poisoning and Procedural Complications				
Fall	11	1.3	4.1	0.6
Fractures ⁵	9.8	2.0	4.9	1.7
Psychiatric Disorders				
Anxiety	2.8	0.2	0.4	0

1. CTCAE v 4

2. Includes dizziness and vertigo.

3. Includes amnesia, memory impairment, cognitive disorder, and disturbance in attention.

4. Includes asthenia and fatigue.

5. Includes all osseous fractures from all sites.

ARCHES (NCT02677896): XTANDI versus Placebo in Metastatic CSPC Patients

ARCHES randomized 1150 patients with mCSPC, of whom 1146 received at least one dose of study drug. All patients received either a gonadotropin-releasing hormone (GnRH) analogue concurrently or had bilateral orchiectomy. Patients received either XTANDI at a dose of 160 mg once daily (N=572) or placebo (N=574). The median duration of treatment was 12.8 months (range: 0.2 to 26.6 months) with XTANDI and 11.6 months (range: 0.2 to 24.6 months) with placebo.

Overall, 10 patients (1.7%) receiving XTANDI died from adverse events. The reasons for death in ≥ 2 patients included heart disease (n=3), sepsis (n=2) and pulmonary embolism (n=2). Eight patients (1.4%) receiving placebo died from adverse events. The reasons for death in ≥ 2 patients included heart disease (n=2) and sudden death (n=2). Grade 3 or higher adverse events were reported in 24% of patients treated with XTANDI. Permanent discontinuation due to adverse

events as the primary reason was reported in 4.9% of XTANDI-treated patients and 3.7% of placebo-treated patients. The most common adverse events resulting in permanent discontinuation in XTANDI-treated patients were alanine aminotransferase increased, aspartate aminotransferase elevation, and seizure, each in 0.3%. The most common adverse events leading to permanent discontinuation in placebo-treated patients were arthralgia, and fatigue, each in 0.3%.

Dose reductions due to an adverse reaction occurred in 4.4% of patients who received XTANDI. Fatigue/asthenia was the most frequent adverse reaction requiring dose reduction in 2.1% of XTANDI-treated patients and 0.7% of placebo-treated patients.

[Table 5](#) shows adverse reactions reported in ARCHES that occurred at a $\geq 2\%$ higher frequency in the XTANDI arm than in the placebo arm.

Table 5. Adverse Reactions in ARCHES

	XTANDI (N = 572)		Placebo (N = 574)	
	Grade 1-4 ¹ (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
Metabolism and Nutrition Disorders				
Decreased Appetite	4.9	0.2	2.6	0
Nervous System Disorders				
Cognitive and Memory Impairment ²	4.5	0.7	2.1	0
Restless Legs Syndrome	2.4	0	0.3	0
Vascular Disorders				
Hot Flush	27	0.3	22	0
Hypertension	8.0	3.3	5.6	1.7
General Disorders and Administration Site Conditions				
Asthenic conditions ³	24	1.7	20	1.6
Musculoskeletal and Connective Tissue Disorders				
Musculoskeletal Pain	6.3	0.2	4.0	0.2
Injury, Poisoning and Procedural Complications				
Fractures ⁴	6.5	1.0	4.2	1.0

1. CTCAE v 4.03.

2. Includes memory impairment, amnesia, cognitive disorder, dementia, disturbance in attention, transient global amnesia, dementia alzheimer's type, mental impairment, senile dementia and vascular dementia.

3. Includes asthenia and fatigue.

4. Includes Fracture related preferred terms under high level terms: fractures NEC; fractures and dislocations NEC; limb fractures and dislocations; pelvic fractures and dislocations; skull and brain therapeutic procedures; skull fractures, facial bone fractures and dislocations; spinal fractures and dislocations; thoracic cage fractures and dislocations.

Laboratory Abnormalities

[Table 6](#) shows laboratory abnormalities that occurred in $\geq 5\%$ of patients, and more frequently ($> 2\%$) in the XTANDI arm compared to placebo in the pooled, randomized, placebo-controlled studies.

Table 6. Laboratory Abnormalities

	XTANDI (N = 3173)		Placebo (N = 2282)	
	Grade 1-4 (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
Hematology				
Neutrophil count decreased	20	0.9	17	0.4
White blood cell decreased	17	0.4	9.8	0.2
Chemistry				

	XTANDI (N = 3173)		Placebo (N = 2282)	
	Grade 1-4 (%)	Grade 3-4 (%)	Grade 1-4 (%)	Grade 3-4 (%)
Hyperglycemia	83	3.2	75	3.1
Hypermagnesemia	16	0.1	13	0
Hyponatremia	13	1.4	8.6	1.5
Hypercalcemia	6.8	0.1	4.5	0

Hypertension

In the combined data from four randomized placebo-controlled clinical trials, hypertension was reported in 12% of patients receiving XTANDI and 5% of patients receiving placebo. Medical history of hypertension was balanced between arms. Hypertension led to study discontinuation in < 1% of patients in each arm.

6.2 Post-Marketing Experience

The following additional adverse reactions have been identified during post-approval use of XTANDI. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate the frequency or establish a causal relationship to drug exposure.

Gastrointestinal Disorders: vomiting

Immune System Disorders: hypersensitivity (edema of the face, tongue, lip, or pharynx)

Neurological Disorders: posterior reversible encephalopathy syndrome (PRES)

Skin and Subcutaneous Tissue Disorders: rash, severe cutaneous adverse reactions (including Stevens-Johnson syndrome (SJS), erythema multiforme, toxic epidermal necrolysis (TEN), drug reaction with eosinophilia and systemic symptoms (DRESS) and acute generalized exanthematous pustulosis (AGEP))

7 DRUG INTERACTIONS

7.1 Drugs that Inhibit CYP2C8

Co-administration of a strong CYP2C8 inhibitor (gemfibrozil) increased the composite area under the plasma concentration-time curve (AUC) of enzalutamide plus N-desmethyl enzalutamide by 2.2-fold. Co-administration of XTANDI with strong CYP2C8 inhibitors should be avoided if possible. If co-administration of XTANDI with a strong CYP2C8 inhibitor cannot be avoided, reduce the dose of XTANDI [see [Dosage and Administration \(2.2\)](#) and [Clinical Pharmacology \(12.3\)](#)].

7.2 Drugs that Induce CYP3A4

Co-administration of rifampin (strong CYP3A4 inducer and moderate CYP2C8 inducer) decreased the composite AUC of enzalutamide plus N-desmethyl enzalutamide by 37%. Co-administration of strong CYP3A4 inducers (e.g., carbamazepine, phenobarbital, phenytoin, rifabutin, rifampin, rifapentine) with XTANDI should be avoided if possible. St John's wort may decrease enzalutamide exposure and should be avoided. If co-administration of a strong CYP3A4 inducer with XTANDI cannot be avoided, increase the dose of XTANDI [see [Dosage and Administration \(2.2\)](#) and [Clinical Pharmacology \(12.3\)](#)].

7.3 Effect of XTANDI on Drug Metabolizing Enzymes

Enzalutamide is a strong CYP3A4 inducer and a moderate CYP2C9 and CYP2C19 inducer in humans. At steady-state, XTANDI reduced the plasma exposure to midazolam (CYP3A4 substrate), warfarin (CYP2C9 substrate), and omeprazole

(CYP2C19 substrate). Concomitant use of XTANDI with narrow therapeutic index drugs that are metabolized by CYP3A4 (e.g., alfentanil, cyclosporine, dihydroergotamine, ergotamine, fentanyl, pimozide, quinidine, sirolimus and tacrolimus), CYP2C9 (e.g., phenytoin, warfarin) and CYP2C19 (e.g., S-mephenytoin, clopidogrel) should be avoided, as enzalutamide may decrease their exposure. If co-administration with warfarin cannot be avoided, conduct additional INR monitoring [see [Clinical Pharmacology \(12.3\)](#)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The safety and efficacy of XTANDI have not been established in females. Based on animal reproductive studies and mechanism of action, XTANDI can cause fetal harm and loss of pregnancy. There are no human data on the use of XTANDI in pregnant females. In animal reproduction studies, oral administration of enzalutamide in pregnant mice during organogenesis caused adverse developmental effects at doses lower than the maximum recommended human dose (*see Data*).

Data

Animal Data

In an embryo-fetal developmental toxicity study in mice, enzalutamide caused developmental toxicity when administered at oral doses of 10 or 30 mg/kg/day throughout the period of organogenesis (gestational days 6-15). Findings included embryo-fetal lethality (increased post-implantation loss and resorptions) and decreased anogenital distance at ≥ 10 mg/kg/day, and cleft palate and absent palatine bone at 30 mg/kg/day. Doses of 30 mg/kg/day caused maternal toxicity. The doses tested in mice (1, 10 and 30 mg/kg/day) resulted in systemic exposures (AUC) approximately 0.04, 0.4 and 1.1 times, respectively, the exposures in patients. Enzalutamide did not cause developmental toxicity in rabbits when administered throughout the period of organogenesis (gestational days 6-18) at dose levels up to 10 mg/kg/day (approximately 0.4 times the exposures in patients based on AUC).

In a pharmacokinetic study in pregnant rats with a single oral 30 mg/kg enzalutamide administration on gestation day 14, enzalutamide and/or its metabolites were present in the fetus at a C_{max} that was approximately 0.3 times the concentration found in maternal plasma and occurred 4 hours after administration.

8.2 Lactation

Risk Summary

The safety and efficacy of XTANDI have not been established in females. There is no information available on the presence of XTANDI in human milk, the effects of the drug on the breastfed infant, or the effects of the drug on milk production. Enzalutamide and/or its metabolites were present in milk of lactating rats (*see Data*).

Data

Following a single oral administration in lactating rats on postnatal day 14, enzalutamide and/or its metabolites were present in milk at a C_{max} that was 4 times higher than concentrations in the plasma and occurred 4 hours after administration.

8.3 Females and Males of Reproductive Potential

Contraception

Males

Based on findings in animal reproduction studies, advise male patients with female partners of reproductive potential to use effective contraception during treatment and for 3 months after the last dose of XTANDI [see [Use in Specific Populations \(8.1\)](#)].

Infertility

Males

Based on animal studies, XTANDI may impair fertility in males of reproductive potential [see [Nonclinical Toxicology \(13.1\)](#)].

8.4 Pediatric Use

Safety and effectiveness of XTANDI in pediatric patients have not been established.

8.5 Geriatric Use

Of 4081 patients who received XTANDI in seven randomized, controlled clinical trials, 78% were 65 and over, while 35% were 75 and over. No overall differences in safety or effectiveness were observed between these patients and younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Patients with Renal Impairment

A dedicated renal impairment trial for XTANDI has not been conducted. Based on the population pharmacokinetic analysis using data from clinical trials in patients with metastatic CRPC and healthy volunteers, no significant difference in enzalutamide clearance was observed in patients with pre-existing mild to moderate renal impairment (30 mL/min \leq creatinine clearance [CrCL] \leq 89 mL/min) compared to patients and volunteers with baseline normal renal function (CrCL \geq 90 mL/min). No initial dosage adjustment is necessary for patients with mild to moderate renal impairment. Severe renal impairment (CrCL < 30 mL/min) and end-stage renal disease have not been assessed [see [Clinical Pharmacology \(12.3\)](#)].

8.7 Patients with Hepatic Impairment

Dedicated hepatic impairment trials compared the composite systemic exposure of enzalutamide plus N-desmethyl enzalutamide in volunteers with baseline mild, moderate, or severe hepatic impairment (Child-Pugh Class A, B, or C, respectively) versus healthy controls with normal hepatic function. The composite AUC of enzalutamide plus N-desmethyl enzalutamide was similar in volunteers with mild, moderate, or severe baseline hepatic impairment compared to volunteers with normal hepatic function. No initial dosage adjustment is necessary for patients with baseline mild, moderate, or severe hepatic impairment [see [Clinical Pharmacology \(12.3\)](#)].

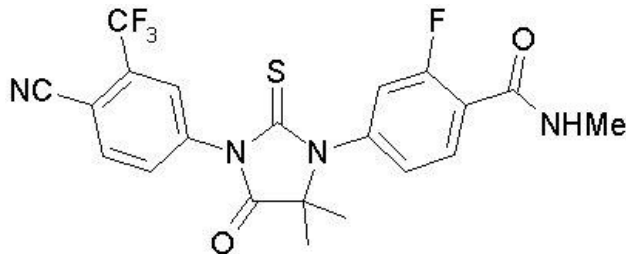
10 OVERDOSAGE

In the event of an overdose, stop treatment with XTANDI and initiate general supportive measures taking into consideration the half-life of 5.8 days. In a dose escalation study, no seizures were reported at \leq 240 mg daily, whereas 3 seizures were reported, 1 each at 360 mg, 480 mg, and 600 mg daily. Patients may be at increased risk of seizure following an overdose.

11 DESCRIPTION

Enzalutamide is an androgen receptor inhibitor. The chemical name is 4-{3-[4-cyano-3-(trifluoromethyl)phenyl]-5,5-dimethyl-4-oxo-2-sulfanylideneimidazolidin-1-yl}-2-fluoro-N-methylbenzamide.

The molecular weight is 464.44 and molecular formula is C₂₁H₁₆F₄N₄O₂S. The structural formula is:



Enzalutamide is a white crystalline non-hygroscopic solid. It is practically insoluble in water.

XTANDI is available as liquid-filled soft gelatin capsules for oral administration. Each capsule contains 40 mg of enzalutamide as a solution in caprylocaproyl polyoxylglycerides. The inactive ingredients are caprylocaproyl polyoxylglycerides, butylated hydroxyanisole, butylated hydroxytoluene, gelatin, sorbitol sorbitan solution, glycerin, purified water, titanium dioxide, and black iron oxide.

XTANDI is also available as film-coated tablets for oral administration. Each tablet contains 40 mg or 80 mg of enzalutamide. The inactive ingredients are hypromellose acetate succinate, microcrystalline cellulose, colloidal silicon dioxide, croscarmellose sodium, and magnesium stearate. The tablet film-coat contains hypromellose, talc, polyethylene glycol, titanium dioxide, and ferric oxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Enzalutamide is an androgen receptor inhibitor that acts on different steps in the androgen receptor signaling pathway. Enzalutamide has been shown to competitively inhibit androgen binding to androgen receptors; and consequently, inhibits nuclear translocation of androgen receptors and their interaction with DNA. A major metabolite, N-desmethyl enzalutamide, exhibited similar *in vitro* activity to enzalutamide. Enzalutamide decreased proliferation and induced cell death of prostate cancer cells *in vitro*, and decreased tumor volume in a mouse prostate cancer xenograft model.

12.2 Pharmacodynamics

Cardiac Electrophysiology

The effect of enzalutamide 160 mg/day at steady-state on the QTc interval was evaluated in 796 patients with metastatic CRPC. No large difference (i.e., greater than 20 ms) was observed between the mean QT interval change from baseline in patients treated with XTANDI and that in patients treated with placebo, based on the Fridericia correction method. However, small increases in the mean QTc interval (i.e., less than 10 ms) due to enzalutamide cannot be excluded due to limitations of the study design.

12.3 Pharmacokinetics

The pharmacokinetics of enzalutamide and its major active metabolite (N-desmethyl enzalutamide) were evaluated in patients with metastatic CRPC and healthy male volunteers. The plasma enzalutamide pharmacokinetics are adequately described by a linear two-compartment model with first-order absorption.

Absorption

Following oral administration of XTANDI capsules (160 mg daily) in patients with metastatic CRPC, the median time to reach maximum plasma enzalutamide concentrations (C_{max}) is 1 hour (range 0.5 to 3 hours). At steady-state, the plasma mean C_{max} values for enzalutamide and N-desmethyl enzalutamide are 16.6 $\mu\text{g/mL}$ (23% CV) and 12.7 $\mu\text{g/mL}$ (30% CV), respectively, and the plasma mean predose trough values are 11.4 $\mu\text{g/mL}$ (26% CV) and 13.0 $\mu\text{g/mL}$ (30% CV),

respectively. Following a single dose administration of 160 mg enzalutamide in healthy male volunteers, enzalutamide extent of absorption (AUC) was comparable between XTANDI tablet and XTANDI capsule, but the mean C_{max} was 10%-28% lower than that of XTANDI capsules. The steady-state pharmacokinetic profiles (AUC and C_{max}) of enzalutamide and N-desmethyl enzalutamide are similar for XTANDI tablet and XTANDI capsule.

With the daily dosing regimen, enzalutamide steady-state is achieved by Day 28, and enzalutamide accumulates approximately 8.3-fold relative to a single dose. Daily fluctuations in enzalutamide plasma concentrations are low (mean peak-to-trough ratio of 1.25). At steady-state, enzalutamide showed approximately dose proportional pharmacokinetics over the daily dose range of 30 to 360 mg.

A single 160 mg oral dose of XTANDI was administered to healthy volunteers with a high-fat meal or in the fasted condition. A high-fat meal did not alter the AUC to enzalutamide or N-desmethyl enzalutamide. The results are summarized in [Figure 1](#).

Distribution and Protein Binding

The mean apparent volume of distribution (V/F) of enzalutamide in patients after a single oral dose is 110 L (29% CV).

Enzalutamide is 97% to 98% bound to plasma proteins, primarily albumin. N-desmethyl enzalutamide is 95% bound to plasma proteins. *In vitro*, there was no protein binding displacement between enzalutamide and other highly protein bound drugs (warfarin, ibuprofen, and salicylic acid) at clinically relevant concentrations.

Metabolism

Following single oral administration of ^{14}C -enzalutamide 160 mg, plasma samples were analyzed for enzalutamide and its metabolites up to 77 days post dose. Enzalutamide, N-desmethyl enzalutamide, and a major inactive carboxylic acid metabolite accounted for 88% of the ^{14}C -radioactivity in plasma, representing 30%, 49%, and 10%, respectively, of the total ^{14}C -AUC_{0-inf}.

In vitro, human CYP2C8 and CYP3A4 are responsible for the metabolism of enzalutamide. Based on *in vivo* and *in vitro* data, CYP2C8 is primarily responsible for the formation of the active metabolite (N-desmethyl enzalutamide). *In vitro* data suggest that carboxylesterase 1 metabolizes N-desmethyl enzalutamide and enzalutamide to the inactive carboxylic acid metabolite.

In vitro, N-desmethyl enzalutamide is not a substrate of human CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C18, CYP2C19, CYP2D6, CYP2E1 and CYP3A4/5.

Elimination

Enzalutamide is primarily eliminated by hepatic metabolism. Following single oral administration of ^{14}C -enzalutamide 160 mg, 85% of the radioactivity is recovered by 77 days post dose: 71% is recovered in urine (including only trace amounts of enzalutamide and N-desmethyl enzalutamide), and 14% is recovered in feces (0.4% of dose as unchanged enzalutamide and 1% as N-desmethyl enzalutamide).

The mean apparent clearance (CL/F) of enzalutamide in patients after a single oral dose is 0.56 L/h (range 0.33 to 1.02 L/h).

The mean terminal half-life ($t_{1/2}$) for enzalutamide in patients after a single oral dose is 5.8 days (range 2.8 to 10.2 days). Following a single 160 mg oral dose of enzalutamide in healthy volunteers, the mean terminal $t_{1/2}$ for N-desmethyl enzalutamide is approximately 7.8 to 8.6 days.

Pharmacokinetics in Special Populations

Renal Impairment:

A population pharmacokinetic analysis (based on pre-existing renal function) was carried out with data from 59 healthy male volunteers and 926 patients with metastatic CRPC enrolled in clinical trials, including 512 with normal renal function (CrCL \geq 90 mL/min), 332 with mild renal impairment (CrCL 60 to < 90 mL/min), 88 with moderate renal impairment (CrCL 30 to < 60 mL/min), and 1 with severe renal impairment (CrCL < 30 mL/min). The apparent clearance of enzalutamide was similar in patients with pre-existing mild and moderate renal impairment (CrCL 30 to < 90 mL/min) compared to patients and volunteers with normal renal function. The potential effect of severe renal impairment or end-stage renal disease on enzalutamide pharmacokinetics cannot be determined as clinical and pharmacokinetic data are available from only one patient [see [Use in Specific Populations \(8.6\)](#)].

Hepatic Impairment:

The plasma pharmacokinetics of enzalutamide and N-desmethyl enzalutamide were examined in volunteers with normal hepatic function (N = 22) and with pre-existing mild (N = 8, Child-Pugh Class A) moderate (N = 8, Child-Pugh Class B), or severe (N = 8, Child-Pugh Class C) hepatic impairment. XTANDI was administered as a single 160 mg dose. The composite AUC of enzalutamide plus N-desmethyl enzalutamide was similar in volunteers with mild, moderate, or severe baseline hepatic impairment compared to volunteers with normal hepatic function. The results are summarized in [Figure 1](#) [see [Use in Specific Populations \(8.7\)](#)].

Body Weight and Age:

Population pharmacokinetic analyses showed that weight (range: 46 to 163 kg) and age (range: 41 to 92 yr) do not have a clinically meaningful influence on the exposure to enzalutamide.

Gender:

The effect of gender on the pharmacokinetics of enzalutamide has not been evaluated.

Race:

The majority of XTANDI-treated patients in the randomized clinical trials were Caucasian (81%). Based on pharmacokinetic data from studies in Japanese and Chinese patients with prostate cancer, there were no clinically relevant differences in exposure among the populations. There are insufficient data to evaluate potential differences in the pharmacokinetics of enzalutamide in other races.

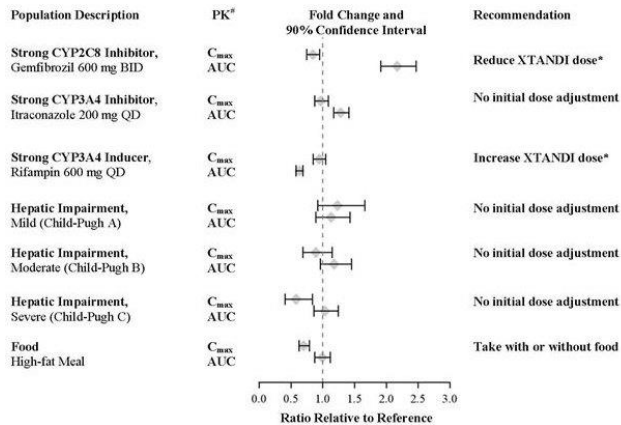
Drug Interactions

Effect of Other Drugs on XTANDI:

In a drug-drug interaction trial in healthy volunteers, a single 160 mg oral dose of XTANDI was administered alone or after multiple oral doses of gemfibrozil (strong CYP2C8 inhibitor). Gemfibrozil increased the AUC_{0-inf} of enzalutamide plus N-desmethyl enzalutamide by 2.2-fold with minimal effect on C_{max}. The results are summarized in [Figure 1](#) [see [Dosage and Administration \(2.2\)](#) and [Drug Interactions \(7.1\)](#)].

In a drug-drug interaction trial in healthy volunteers, a single 160 mg oral dose of XTANDI was administered alone or after multiple oral doses of rifampin (strong CYP3A4 and moderate CYP2C8 inducer). Rifampin decreased the AUC_{0-inf} of enzalutamide plus N-desmethyl enzalutamide by 37% with no effect on C_{max}. The results are summarized in [Figure 1](#) [see [Dosage and Administration \(2.2\)](#) and [Drug Interactions \(7.2\)](#)].

In a drug-drug interaction trial in healthy volunteers, a single 160 mg oral dose of XTANDI was administered alone or after multiple oral doses of itraconazole (strong CYP3A4 inhibitor). Itraconazole increased the AUC_{0-inf} of enzalutamide plus N-desmethyl enzalutamide by 1.3-fold with no effect on C_{max}. The results are summarized in [Figure 1](#).



PK parameters (C_{max} and AUC_{0-inf}) are for enzalutamide plus N-desmethyl enzalutamide, except in the food-effect trial, where they are for enzalutamide alone.

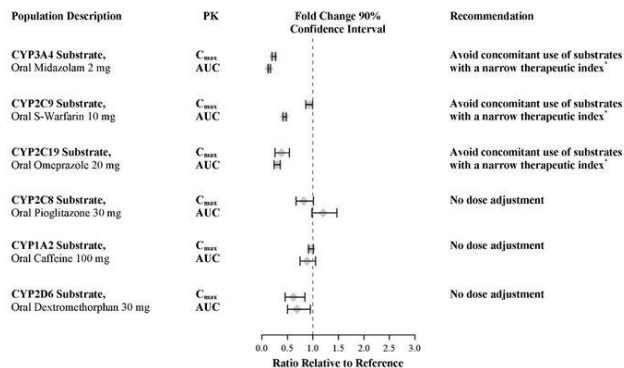
* See [Dosage and Administration \(2.2\)](#).

Figure 1. Effects of Other Drugs and Intrinsic/Extrinsic Factors on XTANDI

Effect of XTANDI on Other Drugs:

In an *in vivo* phenotypic cocktail drug-drug interaction trial in patients with metastatic CRPC, a single oral dose of the CYP probe substrate cocktail (for CYP2C8, CYP2C9, CYP2C19, and CYP3A4) was administered before and concomitantly with XTANDI (following at least 55 days of dosing at 160 mg daily). The results are summarized in [Figure 2](#). Results showed that *in vivo*, at steady-state, XTANDI is a strong CYP3A4 inducer and a moderate CYP2C9 and CYP2C19 inducer [see [Drug Interactions \(7.3\)](#)]. XTANDI did not cause clinically meaningful changes in exposure to the CYP2C8 substrate.

In an *in vivo* phenotypic cocktail drug-drug interaction trial in patients with CRPC, a single oral dose of the CYP probe substrate cocktail for CYP1A2 and CYP2D6 was administered before and concomitantly with XTANDI (following at least 49 days of dosing at 160 mg daily). The results are summarized in [Figure 2](#). Results showed that *in vivo*, at steady-state, XTANDI did not cause clinically meaningful changes in exposure to the CYP1A2 or CYP2D6 substrates.



*See [Drug Interactions \(7.3\)](#).

Figure 2. Effect of XTANDI on Other Drugs

In vitro, enzalutamide, N-desmethyl enzalutamide, and the major inactive carboxylic acid metabolite caused direct inhibition of multiple CYP enzymes including CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, and CYP3A4/5; however, subsequent clinical data showed that XTANDI is an inducer of CYP2C9, CYP2C19, and CYP3A4 and had no clinically meaningful effect on CYP2C8 (see [Figure 2](#)). *In vitro*, enzalutamide caused time-dependent inhibition of CYP1A2.

In vitro studies showed that enzalutamide induces CYP2B6 and CYP3A4 and does not induce CYP1A2 at therapeutically relevant concentrations.

In vitro, enzalutamide, N-desmethyl enzalutamide, and the major inactive carboxylic acid metabolite are not substrates for human P-glycoprotein. *In vitro*, enzalutamide and N-desmethyl enzalutamide are inhibitors of human P-glycoprotein, while the major inactive carboxylic acid metabolite is not.

In vitro, enzalutamide and N-desmethyl enzalutamide do not appear to be substrates of human breast cancer resistance protein (BCRP); however, enzalutamide and N-desmethyl enzalutamide are inhibitors of human BCRP at clinically relevant concentrations.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A two-year carcinogenicity study was conducted in male and female rats at oral enzalutamide doses of 10, 30, and 100 mg/kg/day. Enzalutamide increased the incidence of benign Leydig cell tumors in the testes at all dose levels tested (≥ 0.3 times the human exposure based on AUC) and combined incidence of urothelial papilloma and carcinoma in the urinary bladder in male rats at 100 mg/kg/day (1.4 times the human exposure based on AUC). The findings in the testes are considered to be related to the pharmacological activity of enzalutamide. Rats are regarded as more sensitive than humans to developing interstitial cell tumors in the testes. Administration of enzalutamide to male and female rasH2 transgenic mice by oral gavage daily for 26 weeks did not result in increased incidence of neoplasms at doses up to 20 mg/kg/day.

Enzalutamide did not induce mutations in the bacterial reverse mutation (Ames) assay and was not genotoxic in either the *in vitro* mouse lymphoma thymidine kinase (Tk) gene mutation assay or the *in vivo* mouse micronucleus assay.

Based on nonclinical findings in repeat-dose toxicology studies, which were consistent with the pharmacological activity of enzalutamide, male fertility may be impaired by treatment with XTANDI. In a 26-week study in rats, atrophy of the prostate and seminal vesicles was observed at ≥ 30 mg/kg/day (equal to the human exposure based on AUC). In 4-, 13-, and 39-week studies in dogs, hypospermatogenesis and atrophy of the prostate and epididymides were observed at ≥ 4 mg/kg/day (0.3 times the human exposure based on AUC).

14 CLINICAL STUDIES

The efficacy of XTANDI in patients with CRPC (N = 4692) or mCSPC (N = 1150) was demonstrated in five randomized, multicenter clinical trials. All patients received concomitant GnRH therapy or had prior bilateral orchiectomy. Patients were allowed, but not required, to continue or initiate glucocorticoids.

AFFIRM (NCT00974311): XTANDI versus Placebo in Metastatic CRPC Following Chemotherapy

In AFFIRM, a total of 1199 patients who had received prior docetaxel-based chemotherapy were randomized 2:1 to receive either XTANDI orally at a dose of 160 mg once daily (N = 800) or placebo orally once daily (N = 399). Study treatment continued until disease progression (evidence of radiographic progression, a skeletal-related event, or clinical progression), initiation of new systemic antineoplastic treatment, unacceptable toxicity, or withdrawal. Patients with a previous history of seizure, taking medicines known to decrease the seizure threshold, or with other risk factors for seizure were not eligible [see [Warnings and Precautions \(5.1\)](#)].

The following patient demographics and baseline disease characteristics were balanced between the treatment arms. The median age was 69 years (range 41-92) and the racial distribution was 92.7% Caucasian, 3.9% Black, 1.1% Asian, and 2.1% Other. Ninety-two percent of patients had an ECOG performance status score of 0-1 and 28% had a mean Brief Pain Inventory score of ≥ 4 . Ninety-one percent of patients had metastases in bone and 23% had visceral involvement in the lung and/or liver. Fifty-nine percent of patients had radiographic evidence of disease progression and 41% had PSA-only progression on study entry. All patients had received prior docetaxel-based therapy and 24% had received two cytotoxic chemotherapy regimens. During the trial, 48% of patients on the XTANDI arm and 46% of patients on the placebo arm received glucocorticoids.

A statistically significant improvement in overall survival was demonstrated at the pre-specified interim analysis at the time of 520 deaths in patients on the XTANDI arm compared to patients on the placebo arm (Table 7 and Figure 3).

Table 7. Overall Survival of Patients Treated with Either XTANDI or Placebo in AFFIRM

	XTANDI (N = 800)	Placebo (N = 399)
Number of Deaths (%)	308 (38.5)	212 (53.1)
Median Survival, months (95% CI)	18.4 (17.3, NR)	13.6 (11.3, 15.8)
P-value ¹	p < 0.0001	
Hazard Ratio (95% CI) ²	0.63 (0.53, 0.75)	

NR = Not reached.

1. P-value is derived from a log-rank test stratified by baseline ECOG performance status score (0-1 vs. 2) and mean baseline pain score (BPI-SF score < 4 vs. ≥ 4).
2. Hazard Ratio is derived from a stratified proportional hazards model. Hazard Ratio < 1 favors XTANDI.

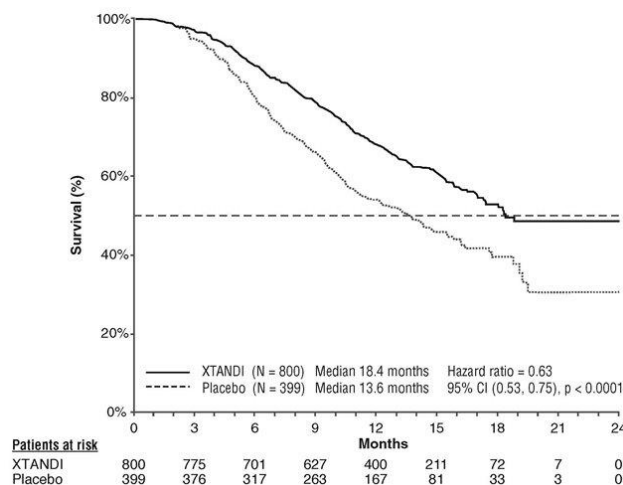


Figure 3. Kaplan-Meier Curves of Overall Survival in AFFIRM

PREVAIL (NCT01212991): XTANDI versus Placebo in Chemotherapy-naïve Metastatic CRPC

In PREVAIL, 1717 chemotherapy-naïve patients were randomized 1:1 to receive either XTANDI orally at a dose of 160 mg once daily (N = 872) or placebo orally once daily (N = 845). Patients with visceral metastases, patients with a history of mild to moderate heart failure (NYHA class I or II), and patients taking medications associated with lowering the seizure threshold were allowed. Patients with a previous history of seizure or a condition that might predispose to seizure and patients with moderate or severe pain from prostate cancer were excluded. Study treatment continued until disease progression (evidence of radiographic progression, a skeletal-related event, or clinical progression) and the initiation of a cytotoxic chemotherapy or an investigational agent, unacceptable toxicity, or withdrawal. Overall survival and radiographic progression-free survival (rPFS) were assessed. Radiographic progression was assessed with the use of

sequential imaging and was defined by bone scan identification of 2 or more new bone lesions with confirmation (Prostate Cancer Clinical Trials Working Group 2 criteria) and/or Response Evaluation Criteria in Solid Tumors (RECIST v 1.1) criteria for progression of soft tissue lesions. The primary analysis of rPFS utilized centrally reviewed radiographic assessment of progression.

Patient demographics and baseline disease characteristics were balanced between the treatment arms at entry. The median age was 71 years (range 42-93) and the racial distribution was 77% Caucasian, 10% Asian, 2% Black and 11% Other. The ECOG performance status score was 0 for 68% of patients, and 1 for 32% of patients. Baseline pain assessment was 0-1 (asymptomatic) in 67% of patients, and 2-3 (mildly symptomatic) in 32% of patients as defined by the Brief Pain Inventory Short Form (worst pain over past 24 hours at study entry). Fifty-four percent of patients had radiographic evidence of disease progression and 43% had PSA-only progression. Twelve percent of patients had visceral (lung and/or liver) disease involvement. During the study, 27% of patients on the XTANDI arm and 30% of patients on the placebo arm received glucocorticoids for varying reasons.

A statistically significant improvement in overall survival was demonstrated at the pre-specified interim analysis, conducted after 540 deaths, in patients treated with XTANDI compared to those treated with placebo (Table 8). Forty percent of XTANDI-treated and 70% of placebo-treated patients received subsequent therapies for metastatic CRPC that may prolong overall survival. An updated survival analysis was conducted when 784 deaths were observed. The median follow-up time was 31 months. Results from this analysis were consistent with those from the pre-specified interim analysis (Table 8, Figure 4). At the updated analysis, 52% of XTANDI-treated and 81% of placebo-treated patients had received subsequent therapies that may prolong overall survival in metastatic CRPC. XTANDI was used as a subsequent therapy in 2% of XTANDI-treated patients and 29% of placebo-treated patients.

Table 8. Overall Survival of Patients Treated with Either XTANDI or Placebo in PREVAIL

	XTANDI (N = 872)	Placebo (N = 845)
Pre-specified Interim Analysis¹		
Number of Deaths (%)	241 (28)	299 (35)
Median Survival, months (95% CI)	32.4 (30.1, NR)	30.2 (28.0, NR)
P-value ²	p < 0.0001	
Hazard Ratio (95% CI) ³	0.71 (0.60, 0.84)	
Updated Survival Analysis⁴		
Number of Deaths (%)	368 (42)	416 (49)
Median Survival, months (95% CI)	35.3 (32.2, NR)	31.3 (28.8, 34.2)
Hazard Ratio (95% CI) ³	0.77 (0.67, 0.88)	

NR = Not reached.

1. The data cutoff date is 16 Sep 2013.
2. P-value is derived from an unstratified log-rank test.
3. Hazard Ratio is derived from an unstratified proportional hazards model. Hazard Ratio < 1 favors XTANDI.
4. The data cutoff date is 1 Jun 2014. The planned number of deaths for the final overall survival analysis was ≥ 765.

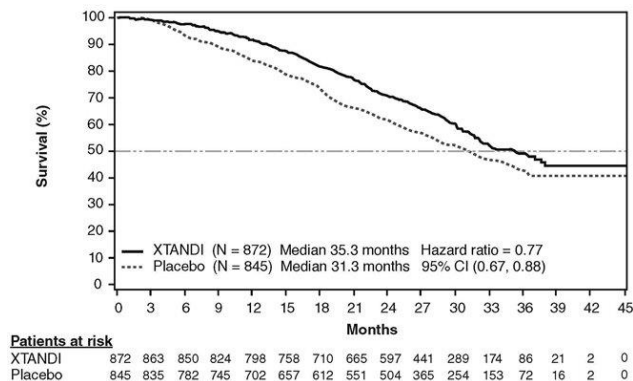


Figure 4. Kaplan-Meier Curves of Overall Survival in PREVAIL

A statistically significant improvement in rPFS was demonstrated in patients treated with XTANDI compared to patients treated with placebo (Table 9, Figure 5).

Table 9. Radiographic Progression-free Survival of Patients Treated with Either XTANDI or Placebo in PREVAIL

	XTANDI (N = 832)	Placebo (N = 801)
Number of Progression or Deaths (%)	118 (14)	320 (40)
Median rPFS (months) (95% CI)	NR (13.8, NR)	3.7 (3.6, 4.6)
P-value ¹	p < 0.0001	
Hazard Ratio (95% CI) ²	0.17 (0.14, 0.21)	

NR = Not reached.

Note: As of the cutoff date for the rPFS analysis, 1633 patients had been randomized.

1. P-value is derived from an unstratified log-rank test.
2. Hazard Ratio is derived from an unstratified proportional hazards model. Hazard Ratio < 1 favors XTANDI.

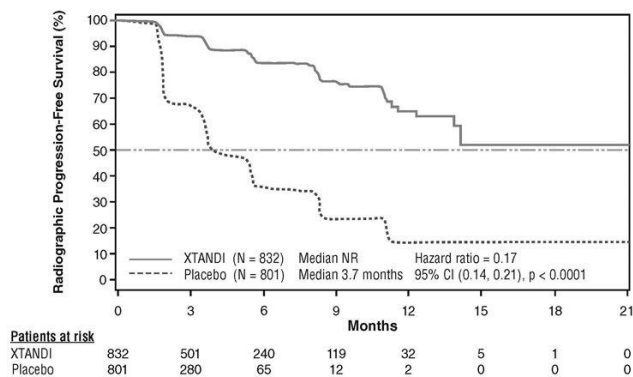


Figure 5. Kaplan-Meier Curves of Radiographic Progression-free Survival in PREVAIL

Time to initiation of cytotoxic chemotherapy was prolonged after XTANDI treatment, with a median of 28.0 months for patients on the XTANDI arm versus a median of 10.8 months for patients on the placebo arm [HR = 0.35 (95% CI: 0.30, 0.40), p < 0.0001].

The median time to first skeletal-related event was 31.1 months for patients on the XTANDI arm versus 31.3 months for patients on the placebo arm [HR = 0.72 (95% CI: 0.61, 0.84), p < 0.0001]. A skeletal-related event was defined as

radiation therapy or surgery to bone for prostate cancer, pathologic bone fracture, spinal cord compression, or change of antineoplastic therapy to treat bone pain.

TERRAIN (NCT01288911): XTANDI versus Bicalutamide in Chemotherapy-naïve Metastatic CRPC

TERRAIN was conducted in 375 chemotherapy-naïve patients who were randomized 1:1 to receive either XTANDI orally at a dose of 160 mg once daily (N = 184) or bicalutamide orally at a dose of 50 mg once daily (N = 191). Patients with a previous history of seizure or a condition that might predispose to seizure and patients with moderate to severe pain from prostate cancer were excluded. Patients could have received prior bicalutamide, but those whose disease had progressed on prior antiandrogen therapy (e.g., bicalutamide) were excluded. Study treatment continued until disease progression (evidence of radiographic progression, a skeletal-related event), the initiation of subsequent antineoplastic agent, unacceptable toxicity, or withdrawal. Radiographic disease progression was assessed by Independent Central Review (ICR) using the Prostate Cancer Clinical Trials Working Group 2 criteria and/or Response Evaluation Criteria in Solid Tumors (RECIST v 1.1) criteria for progression of soft tissue lesions. Radiographic progression-free survival (rPFS) was defined as the time from randomization to the first objective evidence of radiographic progression as assessed by ICR or death, whichever occurred first.

Patient demographics and baseline disease characteristics were balanced between the treatment arms at entry. The median age was 71 years (range 48-96) and the racial distribution was 93% Caucasian, 5% Black, 1% Asian and 1% Other. The ECOG performance status score was 0 for 74% of patients and 1 for 26% of patients. Baseline pain assessment was 0-1 (asymptomatic) in 58% of patients, and 2-3 (mildly symptomatic) in 36% of patients as defined by the Brief Pain Inventory Short Form Question 3 (worst pain over past 24 hours at study entry). Ninety-eight percent of patients had objective evidence of disease progression at study entry. Forty-six percent of patients had received prior treatment with bicalutamide while no patients received prior treatment with XTANDI.

An improvement in rPFS was demonstrated in patients treated with XTANDI compared to patients treated with bicalutamide (Table 10, Figure 6).

Table 10. Radiographic Progression-free Survival of Patients in TERRAIN

	XTANDI (N = 184)	Bicalutamide (N = 191)
Number of Progression or Deaths (%)	72 (39)	74 (39)
Median rPFS (months) (95% CI)	19.5 (11.8, NR)	13.4 (8.2, 16.4)
Hazard Ratio (95% CI) ¹	0.60 (0.43, 0.83)	

NR = Not reached.

1. Hazard Ratio is derived from an unstratified proportional hazards model. Hazard Ratio < 1 favors XTANDI

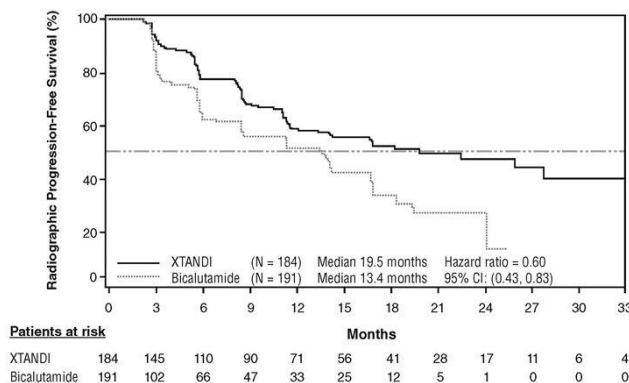


Figure 6. Kaplan-Meier Curves of Radiographic Progression-free Survival in TERRAIN

PROSPER (NCT02003924): XTANDI versus Placebo in Non-metastatic CRPC

PROSPER enrolled 1401 patients with non-metastatic CRPC who were randomized 2:1 to receive either XTANDI orally at a dose of 160 mg once daily (N = 933) or placebo orally once daily (N = 468). All patients in the PROSPER trial received a gonadotropin-releasing hormone (GnRH) analog or had a prior bilateral orchiectomy. Patients were stratified by Prostate Specific Antigen (PSA) Doubling Time (PSADT) and the use of bone-targeting agents. Patients were required to have a PSA doubling time ≤ 10 months, PSA ≥ 2 ng/mL, and confirmation of non-metastatic disease by blinded independent central review (BICR). PSA results were blinded and were not used for treatment discontinuation. Patients randomized to either arm discontinued treatment for radiographic disease progression confirmed by BICR, initiation of new treatment, unacceptable toxicity, or withdrawal.

The following patient demographics and baseline characteristics were balanced between the two treatment arms. The median age at randomization was 74 years (range 50-95) and 23% were 80 years of age or older. The racial distribution was 71% Caucasian, 16% Asian, and 2% Black. A majority of patients had a Gleason score of 7 or higher (77%). The median PSADT was 3.7 months. Fifty-four percent (54%) of patients received prior treatment for prostate cancer with either surgery or radiation. Sixty-three percent (63%) of patients received prior treatment with an anti-androgen; 56% of patients received bicalutamide and 11% of patients received flutamide. All patients had an Eastern Cooperative Oncology Group Performance Status (ECOG PS) score of 0 or 1 at study entry.

The major efficacy outcome of the study was metastasis-free survival (MFS), defined as the time from randomization to whichever of the following occurred first 1) loco-regional and/or distant radiographic progression per BICR or 2) death up to 112 days after treatment discontinuation without evidence of radiographic progression. A statistically significant improvement in MFS and OS was demonstrated in patients randomized to receive XTANDI compared with patients randomized to receive placebo. Consistent MFS results were observed when considering only distant radiographic progression events or deaths regardless of the cut-off date. Consistent MFS results were also observed in pre-specified and stratified patient sub-groups of PSADT (< 6 months or ≥ 6 months) and use of a prior bone-targeting agent (yes or no). The efficacy results from PROSPER are summarized in [Table 11](#), [Figure 7](#) and [Figure 8](#).

Table 11. Summary of Efficacy Results in PROSPER (Intent-to-treat Population)

	XTANDI (N = 933)	Placebo (N = 468)
Metastasis-free survival		
Number of Events (%)	219 (23.5)	228 (48.7)
Median, months (95% CI) ¹	36.6 (33.1, NR)	14.7 (14.2, 15.0)
Hazard Ratio (95% CI) ²	0.29 (0.24, 0.35)	
P-value ²	p < 0.0001	
Overall survival³		
Number of Events (%)	288 (30.9)	178 (38.0)
Median, months (95% CI) ¹	67.0 (64.0, NR)	56.3 (54.4, 63.0)
Hazard Ratio (95% CI) ²	0.73 (0.61, 0.88)	
P-value ²	p = 0.0011	

NR = Not reached.

1. Based on Kaplan-Meier estimates.
2. Hazard ratio from a Cox regression model (with treatment as the only covariate) and p-value from a log-rank test are stratified by PSA doubling time and prior or concurrent use of a bone targeting agent.
3. The pre-specified final analysis of OS occurred 27 months after the MFS analysis.

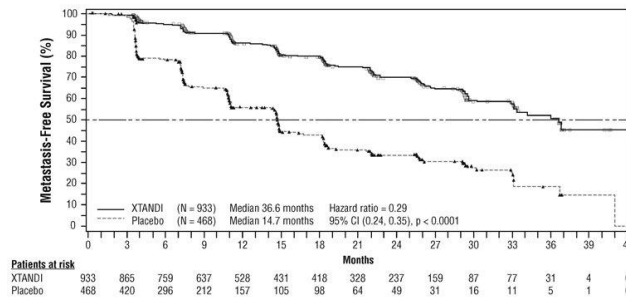


Figure 7. Kaplan-Meier Curves of Metastasis-free Survival in PROSPER

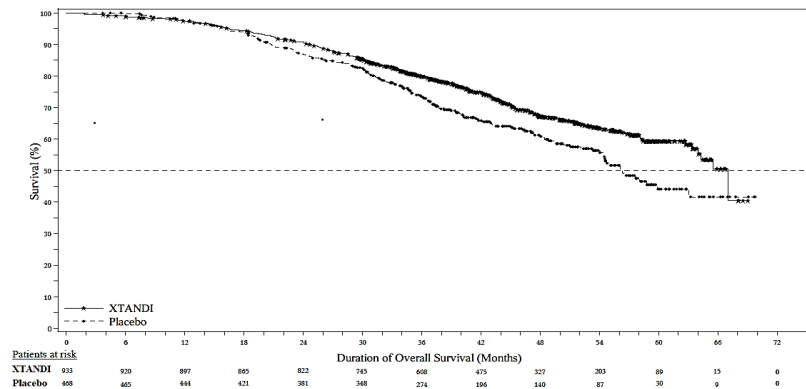


Figure 8. Kaplan-Meier Curves of Overall Survival in PROSPER

The primary efficacy outcome was also supported by a statistically significant delay in time to first use of new antineoplastic therapy (TTA) for patients in the XTANDI arm compared to those in the placebo arm. The median TTA was 39.6 months for patients on XTANDI and was 17.7 months for patients on placebo (HR = 0.21; 95% CI: [0.17, 0.26], $p < 0.0001$).

ARCHES (NCT02677896): XTANDI versus Placebo in Metastatic CSPC

ARCHES enrolled 1150 patients with mCSPC who were randomized 1:1 to receive XTANDI orally at a dose of 160 mg once daily (N=574) or placebo orally once daily (N=576). All patients in the trial received a GnRH analog or had a prior bilateral orchiectomy. Patients were stratified by volume of disease (low vs high) and prior docetaxel therapy for prostate cancer (no prior docetaxel, 1-5 cycles, or 6 prior cycles). High volume of disease is defined as metastases involving the viscera or, in the absence of visceral lesions, there must be 4 or more bone lesions, at least 1 of which must be in a bony structure beyond the vertebral column and pelvic bone. Treatment with concurrent docetaxel was not allowed. Patients continued treatment until radiographic disease progression, initiation of new treatment, unacceptable toxicity, or withdrawal.

The following patient demographics and baseline characteristics were balanced between the two treatment arms. The median age at randomization was 70 years (range: 42-92) and 30% were 75 years of age or older. The racial distribution was 81% Caucasian, 14% Asian, and 1% Black. Sixty-six percent (66%) of patients had a Gleason score of ≥ 8 . Thirty-seven percent (37%) of patients had a low volume of disease and 63% of patients had a high volume of disease. Eighty-

two percent (82%) of patients had no prior docetaxel treatment; 2% of patients had 1 to 5 cycles of docetaxel and 16% of patients had 6 prior cycles of docetaxel treatment. Twelve percent (12%) of patients received concomitant bone-targeted agents (bisphosphonates or RANKL inhibitors) which included both prostate and non-prostate cancer indications. The Eastern Cooperative Oncology Group Performance Status (ECOG PS) score was 0 for 78% of patients and 1 for 22% of patients at study entry.

The major efficacy outcome measure was radiographic progression-free survival (rPFS) based on blinded independent central review (BICR). Radiographic progression-free survival was defined as the time from randomization to radiographic disease progression at any time or death within 24 weeks after study drug discontinuation. Radiographic disease progression was defined by identification of 2 or more new bone lesions on a bone scan with confirmation (Prostate Cancer Working Group 2 criteria) and/or progression in soft tissue disease. Time to new antineoplastic therapy was an additional efficacy endpoint.

XTANDI demonstrated a statistically significant improvement in rPFS compared to placebo. Consistent rPFS results were observed in patients with high or low volume of disease and patients with and without prior docetaxel therapy. Overall survival (OS) data were not mature at the time of rPFS analysis (7.3% deaths in the ITT population had been reported). Efficacy results for rPFS from ARCHES are summarized in [Table 12](#) and [Figure 9](#).

Table 12. Efficacy Results in ARCHES based on BICR (Intent-to-Treat Analysis)

	XTANDI (N = 574)	Placebo (N=576)
Radiographic Progression-free Survival		
Number of events (%)	89 (15.5)	198 (34.4)
Radiographic disease progression	77 (13.4)	185 (32.1)
Death within 24 weeks after treatment discontinuation	12 (2.1)	13 (2.3)
Median, months (95% CI) ¹	NR	19.4 (16.6, NR)
Hazard ratio (95% CI) ²	0.39 (0.30, 0.50)	
P-value ³	p < 0.0001	

NR = Not reached

1. Based on Kaplan-Meier estimates.
2. Hazard Ratio is based on a Cox regression model stratified by volume of disease (low vs high) and prior docetaxel use (yes vs no).
3. P-value is based on a stratified log-rank test by volume of disease (low vs high) and prior docetaxel use (yes or no).

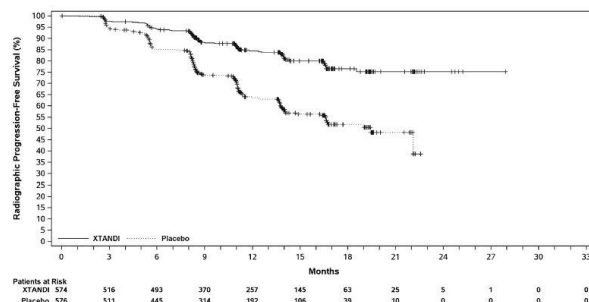


Figure 9. Kaplan-Meier Curves of rPFS in ARCHES (Intent-to-Treat Analysis)

A statistically significant improvement was also reported on the XTANDI arm compared to placebo in time to initiation of a new antineoplastic therapy (HR = 0.28 [95% CI: 0.20, 0.40]; p < 0.0001).

16 HOW SUPPLIED/STORAGE AND HANDLING

XTANDI (enzalutamide) 40 mg capsules are supplied as white to off-white oblong soft gelatin capsules imprinted in black ink with ENZ and are available in the following package size:

- Bottles of 120 capsules with child resistant closures (NDC 0469-0125-99)

XTANDI (enzalutamide) 40 mg tablets are supplied as yellow, round, film-coated tablets debossed with E 40, and are available in the following package size:

- Bottles of 120 tablets with child resistant closures (NDC 0469-0625-99)

XTANDI (enzalutamide) 80 mg tablets are supplied as yellow, oval, film-coated tablets debossed with E 80, and are available in the following package size:

- Bottles of 60 tablets with child resistant closures (NDC 0469-0725-60)

Recommended storage: Store XTANDI capsules and tablets at 20°C to 25°C (68°F to 77°F) in a dry place and keep the container tightly closed. Excursions permitted from 15°C to 30°C (59°F to 86°F).

Swallow capsules or tablets whole. Do not chew, dissolve or open the capsules. Do not cut, crush, or chew the tablets.

17 PATIENT COUNSELING INFORMATION

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

Seizure

- Inform patients that XTANDI has been associated with an increased risk of seizure. Discuss conditions that may predispose to seizures and medications that may lower the seizure threshold. Advise patients of the risk of engaging in any activity where sudden loss of consciousness could cause serious harm to themselves or others. Inform patients to contact their healthcare provider right away if they have loss of consciousness or seizure [*see [Warnings and Precautions \(5.1\)](#)*].

Posterior Reversible Encephalopathy Syndrome (PRES)

- Inform patients to contact their healthcare provider right away if they experience rapidly worsening symptoms possibly indicative of PRES such as seizure, headache, decreased alertness, confusion, reduced eyesight, or blurred vision [*see [Warnings and Precautions \(5.2\)](#)*].

Hypersensitivity

- Inform patients that XTANDI may be associated with hypersensitivity reactions that include swelling of the face, lip, tongue, or throat [*see [Warnings and Precautions \(5.3\)](#)*]. Advise patients who experience these types of symptoms of hypersensitivity to discontinue XTANDI and promptly contact their healthcare provider.

Ischemic Heart Disease

- Inform patients that XTANDI has been associated with an increased risk of ischemic heart disease. Advise patients to seek immediate medical attention if any symptoms suggestive of a cardiovascular event occur [*see [Warnings and Precautions \(5.4\)](#)*].

Falls and Fractures

- Inform patients that XTANDI is associated with an increased incidence of dizziness/vertigo, falls, and fractures. Advise patients to report these adverse reactions to their healthcare provider [*see [Warnings and Precautions \(5.5\)](#)*].

Hypertension

- Inform patients that XTANDI is associated with an increased incidence of hypertension [*see [Adverse Reactions \(6.1\)](#)*].

Dosing and Administration

- Inform patients who have not undergone bilateral orchiectomy and are receiving GnRH therapy that they need to maintain this treatment during the course of treatment with XTANDI.
- Instruct patients to take their dose at the same time each day (once daily). XTANDI can be taken with or without food. Each capsule or tablet should be swallowed whole. Do not chew, dissolve, or open the capsules. Do not cut, crush, or chew the tablets.
- Inform patients that they should not interrupt, modify the dose, or stop XTANDI without first consulting their healthcare provider.
- Inform patients that if they miss a dose, then they should take it as soon as they remember. If they forget to take the dose for the whole day, then they should take their normal dose the next day. They should not take more than their prescribed dose per day [*see [Dosage and Administration \(2.1\)](#)*].

Embryo-Fetal Toxicity

- Inform patients that XTANDI can be harmful to a developing fetus and can cause loss of pregnancy.
- Advise male patients with female partners of reproductive potential to use effective contraception during treatment and for 3 months after the last dose of XTANDI. Advise male patients to use a condom if having sex with a pregnant woman [*see [Warnings and Precautions \(5.6\)](#)*].

Infertility

- Inform male patients that XTANDI may impair fertility [*see [Use in Specific Populations \(8.3\)](#)*].

Manufactured for and Distributed by: Astellas Pharma US, Inc., Northbrook, IL 60062

Marketed by:

Astellas Pharma US, Inc., Northbrook, IL 60062 Pfizer Inc., New York, NY 10017
280168-XTA-USA

Rx Only

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PATIENT INFORMATION
XTANDI® (ex TAN dee)
(enzalutamide)
capsules and tablets

What is XTANDI®?

XTANDI is a prescription medicine used to treat men with prostate cancer that:

- no longer responds to a hormone therapy or surgical treatment to lower testosterone
OR
- has spread to other parts of the body and responds to a hormone therapy or surgical treatment to lower testosterone.

It is not known if XTANDI is safe and effective in females.

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

Before taking XTANDI, tell your healthcare provider about all your medical conditions, including if you:

- have a history of seizures, brain injury, stroke, or brain tumors.
- have a history of heart disease.
- have high blood pressure.
- have abnormal amounts of fat or cholesterol in your blood (dyslipidemia).
- are pregnant or plan to become pregnant. XTANDI can cause harm to your unborn baby and loss of pregnancy (miscarriage).
- have a partner who is pregnant or may become pregnant.
 - Males who have female partners who are able to become pregnant should use effective birth control (contraception) during treatment with XTANDI and for 3 months after the last dose of XTANDI.
 - Males must use a condom during sex with a pregnant female.
- are breastfeeding or plan to breastfeed. It is not known if XTANDI passes into your breast milk.

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

You should not start or stop any medicine before you talk with the healthcare provider that prescribed XTANDI.

Know the medicines you take. Keep a list of them with you to show your healthcare provider and pharmacist when you get a new medicine.

How should I take XTANDI?

- Take XTANDI exactly as your healthcare provider tells you.
- Take your prescribed dose of XTANDI 1 time a day, at the same time each day.
- Your healthcare provider may change your dose if needed.
- Do not change or stop taking your prescribed dose of XTANDI without talking with your healthcare provider first.
- XTANDI can be taken with or without food.
- Swallow XTANDI capsules or tablets whole. Do not chew, dissolve, or open the capsules. Do not cut, crush, or chew the tablets.
- If you are receiving gonadotropin-releasing hormone (GnRH) therapy, you should continue with this treatment during your treatment with XTANDI unless you have had a surgery to lower the amount of testosterone in your body (surgical castration).
- If you miss a dose of XTANDI, take your prescribed dose as soon as you remember that day. If you miss your daily dose, take your prescribed dose at your regular time the next day. Do not take more than your prescribed dose of XTANDI each day.

If you take too much XTANDI, call your healthcare provider or go to the nearest emergency room right away. You may have an increased risk of seizure if you take too much XTANDI.

What are the possible side effects of XTANDI?

XTANDI may cause serious side effects including:

- **Seizure.** If you take XTANDI you may be at risk of having a seizure. You should avoid activities where a sudden loss of consciousness could cause serious harm to yourself or others. Tell your healthcare provider right away if you have loss of consciousness or seizure.
- **Posterior Reversible Encephalopathy Syndrome (PRES).** If you take XTANDI you may be at risk of developing a condition involving the brain called PRES. Tell your healthcare provider right away if you have a seizure or quickly worsening symptoms such as headache, decreased alertness, confusion, reduced eyesight, blurred vision or other visual problems. Your healthcare provider will do a test to check for PRES.
- **Allergic Reactions.** Allergic reactions have happened in people who take XTANDI. Stop taking XTANDI and get medical help right away if you develop swelling of the face, tongue, lip or throat.
- **Heart disease.** Blockage of the arteries in the heart (ischemic heart disease) that can lead to death has happened in some people during treatment with XTANDI. Your healthcare provider will monitor you for signs and symptoms of heart problems during your treatment with XTANDI. Call your healthcare provider or go to the nearest emergency room right away if you get chest pain or discomfort at rest or with activity or shortness of breath during your treatment with XTANDI.
- **Falls and fractures.** XTANDI treatment may increase your risk for falls and fractures. Falls were not caused by loss of consciousness (fainting) or seizures. Your healthcare provider will monitor your risks for falls and fractures during treatment with XTANDI.

Your healthcare provider will stop treatment with XTANDI if you have serious side effects.

The most common side effects of XTANDI include:

- weakness or feeling more tired than usual
- back pain
- hot flashes
- constipation
- joint pain
- decreased appetite
- diarrhea
- high blood pressure

XTANDI may cause fertility problems in males, which may affect the ability to father children. Talk to your healthcare provider if you have concerns about fertility.

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

How should I store XTANDI?

- XTANDI capsules and tablets come in a child-resistant bottle.
- Store XTANDI capsules and tablets between 68°F to 77°F (20°C to 25°C).
- Keep XTANDI capsules and tablets dry and in a tightly closed container.

Keep XTANDI and all medicines out of the reach of children.

General information about the safe and effective use of XTANDI.

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

What are the ingredients in XTANDI?

XTANDI capsules

Active ingredient: enzalutamide

Inactive ingredients: caprylocaproyl polyoxylglycerides, butylated hydroxyanisole, butylated hydroxytoluene, gelatin, sorbitol sorbitan solution, glycerin, purified water, titanium dioxide, black iron oxide.

XTANDI tablets

Active ingredient: enzalutamide

Inactive ingredients: hypromellose acetate succinate, microcrystalline cellulose, colloidal silicon dioxide, croscarmellose sodium, and magnesium stearate.

The tablet film-coat contains hypromellose, talc, polyethylene glycol, titanium dioxide, and ferric oxide.

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