



# Navigating the TTR Amyloidosis Journey



## A guide for caregivers of people with ATTR-CM and hATTR-PN

### Indications

#### What is AMVUTTRA® (vutrisiran)?

AMVUTTRA is a prescription medicine that treats the:

- cardiomyopathy of wild-type or hereditary transthyretin-mediated amyloidosis (ATTR-CM) in adults to reduce heart-related death, hospital stays and urgent visits.
- polyneuropathy caused by hereditary transthyretin-mediated amyloidosis (hATTR-PN) in adults.

### Important Safety Information

#### What are the most important things I should know about AMVUTTRA?

##### AMVUTTRA can cause low vitamin A levels

Treatment with AMVUTTRA lowers the amount of vitamin A in your blood. Your doctor will tell you to take a vitamin A supplement every day. You should not take more than the amount of vitamin A recommended by your doctor.

Low vitamin A levels can affect vision. If you have problems with your vision (e.g., night blindness) while taking AMVUTTRA, talk to your doctor. Your doctor may refer you to an eye specialist.

Please see additional **Important Safety Information** on page 11, and full **Prescribing Information**.



# Supporting the person you care for

Navigating cardiomyopathy of ATTR amyloidosis (ATTR-CM) or polyneuropathy of hereditary ATTR amyloidosis (hATTR-PN) is challenging. Your support as a caregiver to someone living with this disease can be a crucial part of their care plan.

## Ways to support the well-being of the person you're caring for

### Staying connected

Keep them connected with family members and friends by helping plan social gatherings or video calls



### Continuing activities

Encourage them to continue activities they enjoy, with modifications by their doctor, if needed, or to find new, more accessible hobbies



### Talking about emotions

Talk with them about the emotions that come with a progressive disease and help them find a mental healthcare provider if they want one



### The day-to-day

Help ease the pressure of daily chores by accepting help from other family members and friends or by asking them for help when needed



### Care tip: Ask for help

Don't try to do it all yourself. Lean on other family members and friends when you need to. Ask if they can help with planning activities, running errands, or doing things around the house.

See more tips on how to ask for help  
[caregiveraction.org/getting-help-for-caregivers](https://caregiveraction.org/getting-help-for-caregivers)



Please see additional **Important Safety Information** on page 11, and full **Prescribing Information**.

**amvuttra**  
(vutrisiran) injection  
25 mg/0.5 mL

# Finding support as a caregiver

Becoming a caregiver can mean changes to your lifestyle too. You may need to adjust your schedule or routine, or shift other priorities or responsibilities.



## Informing others

Let family and friends know what you're managing so they understand when you need extra space or support.



## Finding a community

Connecting with others who are going through similar experiences can help you feel a sense of community. Here are just a few organizations to consider:

|                                  |  |
|----------------------------------|--|
| Caregiver Action Network         | <a href="http://www.caregiveraction.org">www.caregiveraction.org</a>       |
| National Alliance for Caregiving | <a href="http://www.caregiving.org">www.caregiving.org</a>                 |
| Amyloidosis Foundation           | <a href="http://www.amyloidosis.org">www.amyloidosis.org</a>               |
| Amyloidosis Research Consortium  | <a href="http://www.arci.org">www.arci.org</a>                             |
| Amyloidosis Support Groups       | <a href="http://www.amyloidosissupport.org">www.amyloidosissupport.org</a> |

Interested in learning about educational programs and events related to ATTR amyloidosis? Visit [amvuttra.com/events](http://amvuttra.com/events).



Care tip: take time for yourself

It's important to consider your own well-being when caring for someone else. Continue to see friends, pursue hobbies, and incorporate self-care into your days.

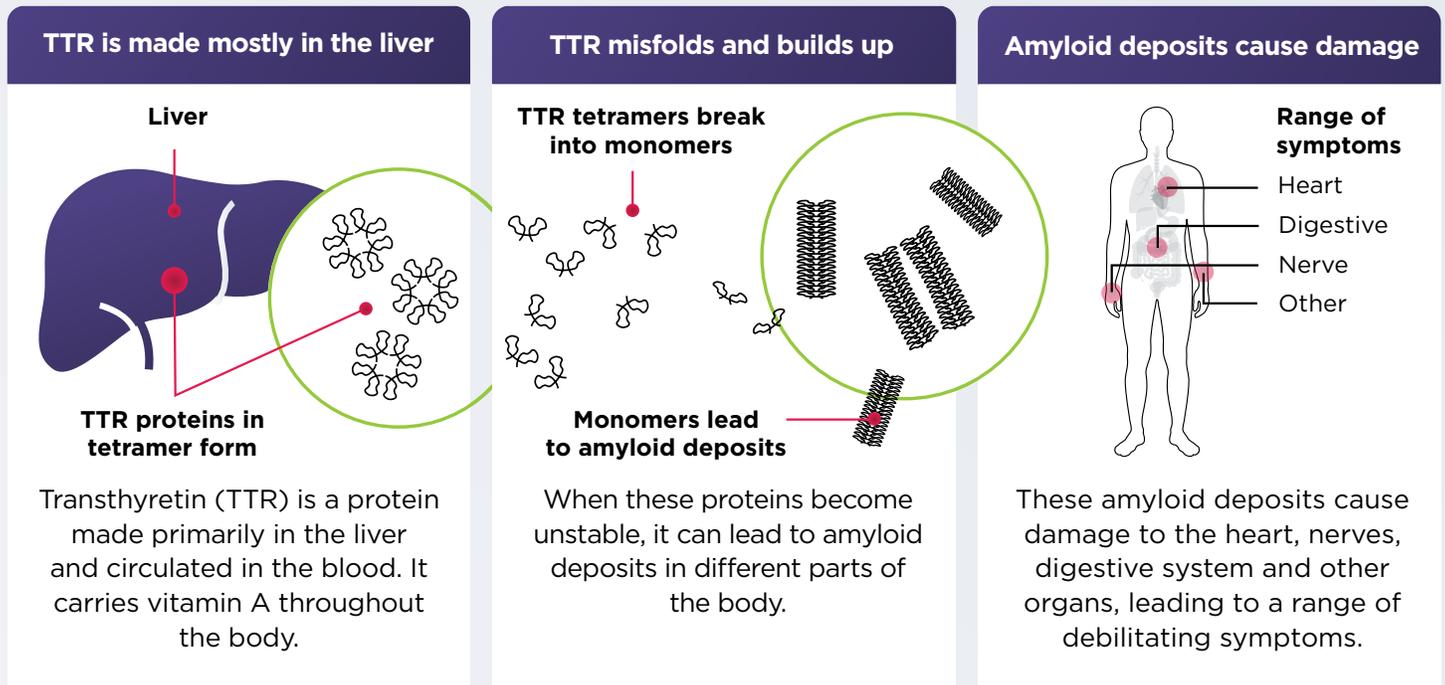
Learn more about self-care  
[caregiveraction.org/caregiver-self-care-guide](http://caregiveraction.org/caregiver-self-care-guide)



# What to know about ATTR amyloidosis

When supporting a person with an ongoing condition, it can be helpful to understand how the disease develops and what symptoms it can cause.

## How ATTR amyloidosis develops



## ATTR impacts daily life

Daily activities become more difficult, such as:



**Walking distances**



**Doing things for yourself like daily chores**



**Climbing stairs**



**Enjoying outings with friends and family**

**Encourage the person you care for to talk with their doctor if they have new or worsening symptoms, which may indicate progression of the disease.**

# Why genetic testing matters in ATTR

There are 2 types of ATTR. If the person you care for doesn't know which type they have, talk to them about asking their doctor for a genetic test. This information can be valuable for families.

## Wild-type ATTR (wtATTR)



- Cause unknown, but may be related to aging
- Commonly associated with heart (cardiac) symptoms

## Hereditary ATTR (hATTR)



- Caused by an inherited gene variant that runs in families
- Commonly associated with both heart (cardiac) and nerve (neuropathy) symptoms

## Genetic testing is the key to confirming hereditary ATTR



- If they are diagnosed with hATTR, the person you care for should tell their family members so that they can seek genetic testing
- Consider helping the person you care for to reach out to a genetic counselor for more hATTR knowledge and support
- A family member may inherit the TTR gene variant, but having the variant does not necessarily mean that they will develop hATTR

**Genetic testing is especially important for Black Americans with ATTR, who are at high risk of carrying the V122I gene variant.**

Please see additional **Important Safety Information** on page 11, and full **Prescribing Information**.

**amvuttra**  
(vutrisiran) injection  
25 mg/0.5 mL

# What to expect with AMVUTTRA® (vutrisiran)

Knowing how AMVUTTRA is given, and when and where to schedule treatments, can help you and the one you care for be prepared for the first dose and beyond.



## Given by a healthcare provider

so that you can feel confident the person you care for is getting their full dose on schedule.



## Given once every 3 months

helping you and the person you care for stay on track with their treatment plan.



## Injected under the skin

with a small needle, in a prefilled syringe, in the upper arm, thigh, or abdomen. AMVUTTRA may cause reactions at the injection site, such as bruising, redness, pain, itching, and warmth.



## Convenient treatment center options

let you and the person you care for work with their doctor to choose where they get treatment—at the doctor's office, a treatment center, or even at home, depending on their insurance plan.

## Watch a video about how AMVUTTRA is given

[amvuttra.com/resources](http://amvuttra.com/resources)



## Important Safety Information

### What are the common side effects of AMVUTTRA?

The most common side effects of AMVUTTRA were pain in the arms or legs, pain in the joints, shortness of breath, and low vitamin A levels.

These are not all the possible side effects of AMVUTTRA. Talk to your doctor about side effects that you experience. You are encouraged to report negative side effects of prescription drugs to the U.S. Food and Drug Administration (FDA). Visit [www.fda.gov/medwatch](http://www.fda.gov/medwatch), or call [1-800-FDA-1088](tel:1-800-FDA-1088).

Please see additional **Important Safety Information** on page 11, and full **Prescribing Information**.



# Planning for dosing days and beyond

There are many ways to support the person you care for as they start and continue on treatment with AMVUTTRA® (vutrisiran).

## Ways to support their treatment



Help find a treatment center near them by using the search tool at [amvuttra.com/centers](https://amvuttra.com/centers)\*



Help with scheduling appointments every 3 months and with setting calendar reminders to ensure that they receive their treatment as prescribed



Plan reliable transportation to and from the appointment; you can reduce travel time on dosing days by choosing the treatment center closest to you



If the appointment is missed, simply reschedule it as soon as possible; then resume dosing every 3 months from the most recently given dose



Take note if there are any side effects that occur after dosing, and tell the doctor about them right away

**Care tip: make your notes mobile**

Keeping notes on your phone can help ensure that information goes with you to the doctor's office. A variety of symptom trackers are also available in app stores.

\*The National Infusion Center Association (NICA) locator is for informational purposes only. No fees or other remuneration have been or will be paid to any treatment centers by Alnylam Pharmaceuticals for inclusion in this database. The treatment centers listed in this database do not represent an endorsement of, recommendation for, or referral to the treatment centers by Alnylam Pharmaceuticals. Listed treatment centers do not necessarily administer or endorse Alnylam products.

Please see additional **Important Safety Information** on page 11, and full **Prescribing Information**.

**amvuttra**  
(vutrisiran) injection  
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# Helping with healthcare management

Managing an ongoing condition requires planning and organization. You can support the person you care for on this journey by keeping notes on their health and attending doctor appointments with them.

## Learn more about how to talk with their doctor

[caregiveraction.org/how-to-talk-to-your-doctor](https://caregiveraction.org/how-to-talk-to-your-doctor)



### Keeping notes

- Help them keep a running list of questions for their next doctor visit
- Help organize their medical history, test results, and notes from previous doctor appointments
- Though the one you care for knows best how they're feeling, take note of any changes in their symptoms or their ability to do daily activities



### Attending appointments

- Help make sure that all questions and concerns are addressed by the doctor during the appointment
- Take note of next steps, follow-up appointments, lifestyle changes, and other care instructions from the doctor



# Support with Alnylam Assist®

Alnylam Assist® offers patient support services, including understanding insurance coverage, financial assistance, disease, and treatment education, and starting AMVUTTRA® (vutrisiran). Visit [AlnylamAssist.com](https://AlnylamAssist.com) for more in-depth information about the patient product support services provided through Alnylam Assist®.



**Alnylam Patient Education Liaisons (PELs)** can provide ATTR-CM, hATTR-PN, and AMVUTTRA education to patients, their families, and their caregivers

- Request to connect with a PEL at [amvuttra.com/educator](https://amvuttra.com/educator)
- Alnylam PELs do not offer medical advice. Please talk to your doctor for specific concerns



**Alnylam Case Managers provide one-on-one support**, including understanding insurance coverage, assessing financial program eligibility and conducting regular check-ins before and after each treatment



**Alnylam offers multiple financial assistance programs\*\*** that can help with eligible patients' medication costs



Visit [AlnylamAssist.com](https://AlnylamAssist.com) to learn more.  
Call **1-833-256-2748**, Monday-Friday, 8AM-6PM.

\*Patients must meet specified eligibility criteria to qualify for assistance. Alnylam reserves the right to make eligibility determinations and to modify or discontinue any program at any time.

†Patients with Medicare, Medicaid, or other government-sponsored insurance are not eligible for the Alnylam Assist® Copay Program. Out-of-pocket costs for the administration of AMVUTTRA will not be covered for patients residing where it is prohibited by law or where otherwise restricted.

Please see additional **Important Safety Information** on page 11, and full **Prescribing Information**.





**Together, you and the person you care for can take on ATTR-CM or hATTR-PN. It's time to prepare for the journey ahead.**

# Indications and Important Safety Information

## Indications

### What is AMVUTTRA® (vutrisiran)?

AMVUTTRA is a prescription medicine that treats the:

- cardiomyopathy of wild-type or hereditary transthyretin-mediated amyloidosis (ATTR-CM) in adults to reduce heart-related death, hospital stays and urgent visits.
- polyneuropathy caused by hereditary transthyretin-mediated amyloidosis (hATTR-PN) in adults.

## Important Safety Information

### What are the most important things I should know about AMVUTTRA?

#### AMVUTTRA can cause low vitamin A levels

Treatment with AMVUTTRA lowers the amount of vitamin A in your blood. Your doctor will tell you to take a vitamin A supplement every day. You should not take more than the amount of vitamin A recommended by your doctor.

Low vitamin A levels can affect vision. If you have problems with your vision (e.g., night blindness) while taking AMVUTTRA, talk to your doctor. Your doctor may refer you to an eye specialist.

#### What are the common side effects of AMVUTTRA?

The most common side effects of AMVUTTRA were pain in the arms or legs, pain in the joints, shortness of breath, and low vitamin A levels.

These are not all the possible side effects of AMVUTTRA. Talk to your doctor about side effects that you experience. You are encouraged to report negative side effects of prescription drugs to the U.S. Food and Drug Administration (FDA). Visit [www.fda.gov/medwatch](http://www.fda.gov/medwatch), or call 1-800-FDA-1088.

For additional information about AMVUTTRA, please see the full Prescribing Information.

amvuttra  
(vutrisiran) injection  
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The logo for AMVUTTRA (vutrisiran) injection, featuring the brand name in lowercase letters with a stylized graphic element to the right consisting of overlapping red, green, and blue shapes.

# Take on ATTR-CM and hATTR-PN with the person you care for



You play an important role by supporting the person you care for in their treatment journey with AMVUTTRA® (vutrisiran).



Alynlym Assist® offers multiple support options and financial assistance. For more information, visit [AlynlymAssist.com](https://AlynlymAssist.com).



You've risen to the challenge of caregiving. Now remember to take care of yourself: your mental and physical health matter too.



Learn more about AMVUTTRA  
[amvuttra.com](https://amvuttra.com)

## Indications

### What is AMVUTTRA® (vutrisiran)?

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**Please see additional Important Safety Information on page 11, and full Prescribing Information.**



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## HIGHLIGHTS OF PRESCRIBING INFORMATION

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

AMVUTTRA (vutrisiran) injection, for subcutaneous use  
Initial U.S. Approval: 2022

-----RECENT MAJOR CHANGES-----  
Indication and Usage (1) 3/2025

-----INDICATIONS AND USAGE-----  
AMVUTTRA is a transthyretin-directed small interfering RNA indicated for the treatment of:

- the polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults (1.1)
- the cardiomyopathy of wild-type or hereditary transthyretin-mediated amyloidosis in adults to reduce cardiovascular mortality, cardiovascular hospitalizations and urgent heart failure visits (1.2)

-----DOSAGE AND ADMINISTRATION-----  
The recommended dosage of AMVUTTRA is 25 mg administered by subcutaneous injection once every 3 months. (2.1)

- AMVUTTRA is for subcutaneous use only and should be administered by a healthcare professional. (2.2)

-----DOSAGE FORMS AND STRENGTHS-----  
Injection: 25 mg/0.5 mL in a single-dose prefilled syringe. (3)

-----CONTRAINDICATIONS-----  
None. (4)

-----WARNINGS AND PRECAUTIONS-----  
Reduced serum vitamin A levels and recommended supplementation: Supplement with the recommended daily allowance of vitamin A. Refer to an ophthalmologist if ocular symptoms suggestive of vitamin A deficiency occur. (5.1)

-----ADVERSE REACTIONS-----  
The most common adverse reactions (≥5%) were pain in extremity, arthralgia, dyspnea, and vitamin A decreased. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Alnylam Pharmaceuticals at 1-877-256-9526 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2025

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

## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

#### 1.1 Polyneuropathy of Hereditary Transthyretin-mediated Amyloidosis

AMVUTTRA is indicated for the treatment of the polyneuropathy of hereditary transthyretin-mediated amyloidosis (hATTR-PN) in adults.

#### 1.2 Cardiomyopathy of Wild-type or Hereditary Transthyretin-mediated Amyloidosis

AMVUTTRA is indicated for the treatment of the cardiomyopathy of wild-type or hereditary transthyretin-mediated amyloidosis (ATTR-CM) in adults to reduce cardiovascular mortality, cardiovascular hospitalizations and urgent heart failure visits.

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Recommended Dosage

The recommended dosage of AMVUTTRA is 25 mg administered by subcutaneous injection once every 3 months [see [Dosage and Administration \(2.2\)](#)].

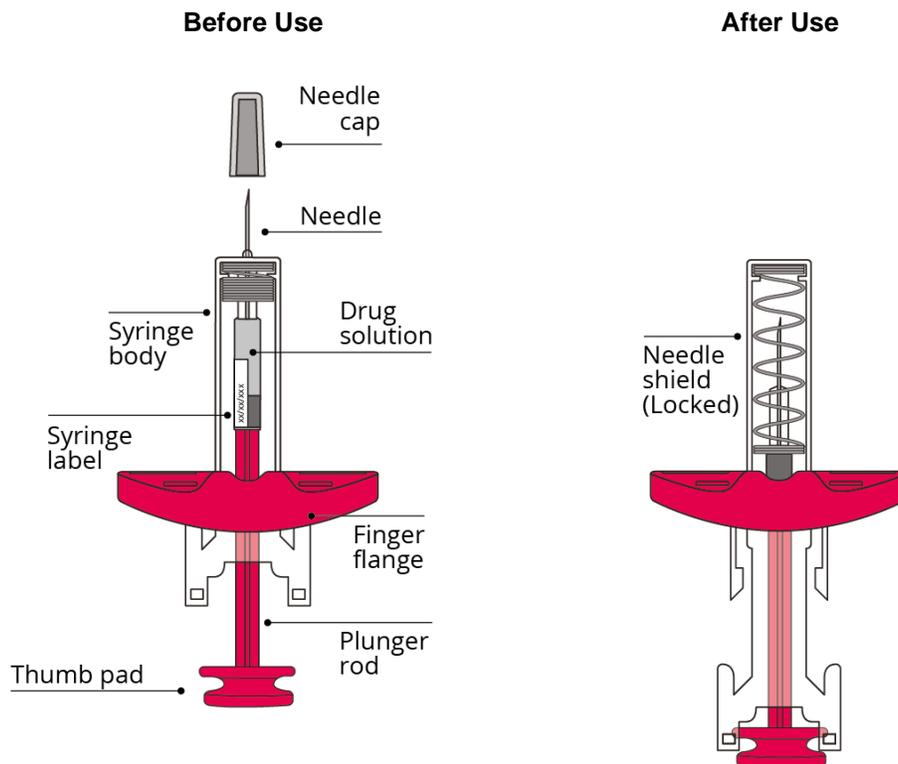
#### Missed Dose

If a dose is missed, administer AMVUTTRA as soon as possible. Resume dosing every 3 months from the most recently administered dose.

#### 2.2 Administration Instructions

AMVUTTRA is for subcutaneous use only and should be administered by a healthcare professional.

#### Syringe Appearance Before and After Use



## Preparation and Administration

### 1. *Prepare the syringe*

If stored cold, allow the syringe to warm to room temperature for 30 minutes prior to use.

Remove the syringe from the packaging by gripping the syringe body.

**Do not** touch the plunger rod until ready to inject.

Visually inspect the drug solution for discoloration and particulate matter prior to administration. AMVUTTRA is a sterile, preservative-free, clear, colorless-to-yellow solution. **Do not** use if it contains particulate matter or if it is cloudy or discolored.

Check the following:

- Syringe is not damaged, such as cracked or leaking
- Needle cap is attached to the syringe
- Expiration date on syringe label

**Do not** use the syringe if any issues are found while checking the syringe.

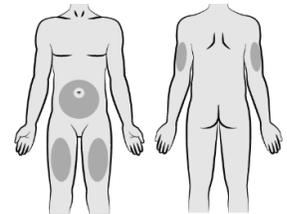
### 2. *Choose and prepare the injection site*

Choose an injection site from the following areas: the abdomen, thighs, or upper arms.

Avoid the following:

- 5-cm area around the navel
- Scar tissue or areas that are reddened, inflamed, or swollen

Clean the chosen injection site.



### 3. *Prepare the syringe for injection*

Hold the syringe body with one hand. Pull the needle cap straight off with other hand and dispose of needle cap immediately. It is normal to see a drop of liquid at the tip of the needle.

**Do not** touch the needle or let it touch any surface.

**Do not** recap the syringe.

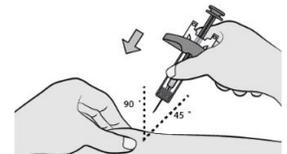
**Do not** use the syringe if it is dropped.



### 4. *Perform the injection*

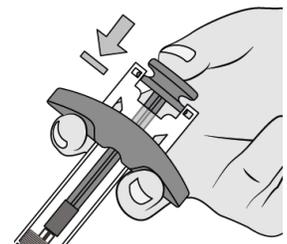
Pinch the cleaned skin.

Fully insert the needle into the pinched skin at a 45°-90° angle.



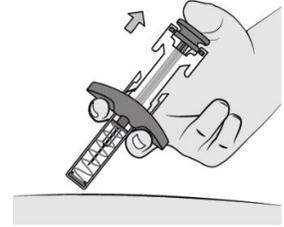
Inject all of the medication.

**Push the plunger rod as far as it will go** to administer the dose and activate the needle shield.



Release the plunger rod to allow the needle shield to cover the needle.

**Do not** block plunger rod movement.



5. *Dispose of the syringe*

**Immediately dispose** of the used syringe into a sharps container.

### 3 DOSAGE FORMS AND STRENGTHS

Injection: 25 mg/0.5 mL of vutrisiran as a clear, colorless-to-yellow solution in a single-dose prefilled syringe.

### 4 CONTRAINDICATIONS

None.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Reduced Serum Vitamin A Levels and Recommended Supplementation

AMVUTTRA treatment leads to a decrease in serum vitamin A levels [see [Adverse Reactions \(6.1\)](#) and [Clinical Pharmacology \(12.2\)](#)].

Supplementation at the recommended daily allowance of vitamin A is advised for patients taking AMVUTTRA. Higher doses than the recommended daily allowance of vitamin A should not be given to try to achieve normal serum vitamin A levels during treatment with AMVUTTRA, as serum vitamin A levels do not reflect the total vitamin A in the body.

Patients should be referred to an ophthalmologist if they develop ocular symptoms suggestive of vitamin A deficiency (e.g., night blindness).

### 6 ADVERSE REACTIONS

The following clinically significant adverse reactions are discussed in greater detail in other sections of the labeling:

- Reduced Serum Vitamin A Levels and Recommended Supplementation [see [Warnings and Precautions \(5.1\)](#)]

#### 6.1 Clinical Trials Experience

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

Two Phase 3 randomized, multi-center studies evaluated the safety of AMVUTTRA in 448 transthyretin-mediated amyloidosis (ATTR) patients, including 122 patients with hATTR-PN (HELIOS-A) and 326 patients with ATTR-CM (HELIOS-B) [see [Clinical Studies \(14\)](#)]. In both studies, patients were instructed to take the recommended daily allowance of vitamin A [see [Warnings and Precautions \(5.1\)](#)].

##### Polyneuropathy of Hereditary Transthyretin-mediated Amyloidosis

In HELIOS-A, 118 patients received at least 18 months of treatment. The mean duration of treatment was 18.8 months (range: 1.7 to 19.4 months). The median patient age at baseline was 60 years and 65% of the patients were male. Seventy percent of AMVUTTRA-treated patients were Caucasian, 17% were Asian, 3% were Black, and 9% were reported as Other. Forty-four percent of patients had the Val30Met mutation in the transthyretin gene; the remaining patients had one of 21 other mutations. At baseline, 70% of patients were in Stage 1 of the disease and 30% were in Stage 2.

The most common adverse reactions (at least 5%) were pain in extremity, arthralgia, dyspnea, and vitamin A decreased (see [Table 1](#)).

Seventy-four percent of patients treated with AMVUTTRA had normal vitamin A levels at baseline, and 98% of those with a normal baseline developed low vitamin A levels. In some cases, the decreased vitamin A level was reported as an adverse reaction (see [Table 1](#)).

**Table 1: Adverse Reactions Reported in at least 5% of Patients Treated with AMVUTTRA in HELIOS-A**

| Adverse Reaction  | AMVUTTRA<br>N=122<br>% |
|---|------------------------|
| Pain in extremity*  | 15                     |
| Arthralgia*   | 11                     |
| Dyspnea*  | 7                      |
| Vitamin A decreased†  | 7                      |
| *Comprised of several similar terms                             |                        |
| †Percentage only reflects those reported as an adverse reaction |                        |

In HELIOS-A, two serious adverse reactions of atrioventricular (AV) heart block (1.6%) occurred in patients treated with AMVUTTRA, including one case of complete AV block.

Injection site reactions were reported in 5 (4%) patients treated with AMVUTTRA. Reported symptoms included bruising, erythema, pain, pruritus, and warmth. Injection site reactions were mild and transient.

#### Cardiomyopathy of Wild-type or Hereditary Transthyretin-mediated Amyloidosis

In HELIOS-B, safety was evaluated in 654 patients with ATTR-CM, which included 257 patients treated with AMVUTTRA for ≥30 months, and 77 patients treated with AMVUTTRA for ≥36 months [see [Clinical Studies \(14\)](#)]. No new safety issues were identified. Eighty-two percent of patients treated with AMVUTTRA had normal vitamin A levels at baseline, and 80% of those with a normal baseline developed low vitamin A levels.

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### Risk Summary

There are no available data on AMVUTTRA use in pregnant women to inform a drug-associated risk of adverse developmental outcomes. AMVUTTRA treatment leads to a decrease in serum vitamin A levels, and vitamin A supplementation is advised for patients taking AMVUTTRA. Vitamin A is essential for normal embryofetal development; however, excessive levels of vitamin A are associated with adverse developmental effects. The effects on the fetus of a reduction in maternal serum TTR caused by AMVUTTRA and of vitamin A supplementation are unknown [see [Warnings and Precautions \(5.1\)](#) and [Clinical Pharmacology \(12.2\)](#)].

In animal studies, subcutaneous administration of vutrisiran to pregnant rats resulted in developmental toxicity (reduced fetal body weight and embryofetal mortality) at doses associated with maternal toxicity (see [Data](#)).

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

#### Data

##### *Animal Data*

Subcutaneous administration of vutrisiran (0, 3, 10, or 30 mg/kg/day) to pregnant rats during the period of organogenesis resulted in embryofetal mortality at the high dose and reduced fetal body weight at the mid and high doses, which were associated with maternal toxicity.

Subcutaneous administration of vutrisiran (0, 3, 10, or 30 mg/kg/day) to pregnant rabbits resulted in no adverse effects on embryofetal development.

Subcutaneous administration of vutrisiran (0, 5, 10, or 20 mg/kg) to pregnant rats every 6 days throughout pregnancy and lactation resulted in no adverse developmental effects on the offspring.

### **8.2 Lactation**

#### Risk Summary

There is no information regarding the presence of vutrisiran in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for AMVUTTRA and any potential adverse effects on the breastfed infant from AMVUTTRA or from the underlying maternal condition.

## 8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

## 8.5 Geriatric Use

No dose adjustment is required in patients  $\geq 65$  years of age [see *Clinical Pharmacology (12.3)*]. In HELIOS-A, a total of 46 (38%) patients  $\geq 65$  years of age, including 7 (6%) patients  $\geq 75$  years of age, received AMVUTTRA. In HELIOS-B, a total of 299 (92%) patients  $\geq 65$  years old, including 203 (62%)  $\geq 75$  years old, received AMVUTTRA. No overall differences in safety or effectiveness were observed between these patients and younger patients.

## 8.6 Renal Impairment

No dose adjustment is recommended in patients with mild or moderate renal impairment (estimated glomerular filtration rate [eGFR]  $\geq 30$  to  $< 90$  mL/min/1.73 m<sup>2</sup>) [see *Clinical Pharmacology (12.3)*]. AMVUTTRA has not been studied in patients with severe renal impairment or end-stage renal disease.

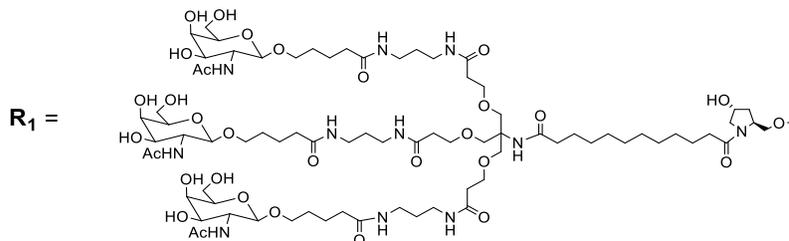
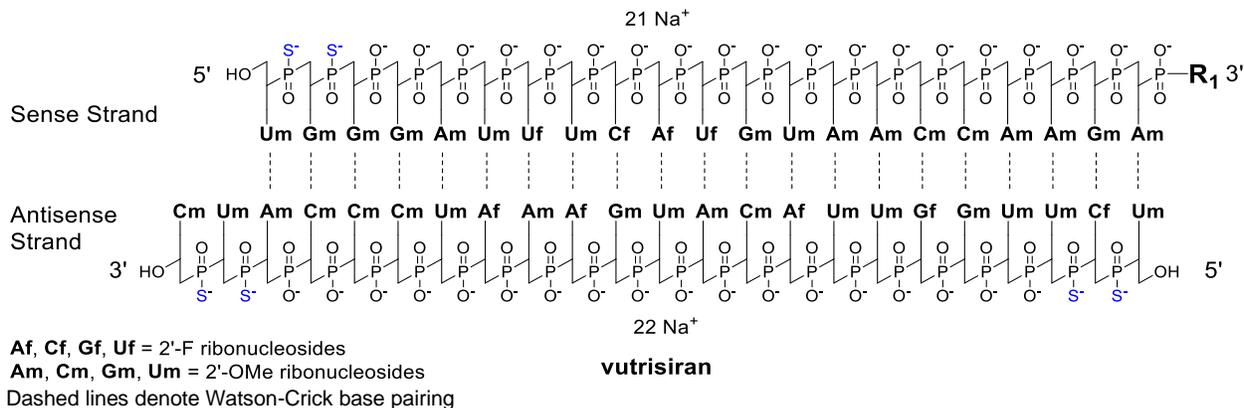
## 8.7 Hepatic Impairment

No dose adjustment is recommended in patients with mild (total bilirubin  $\leq 1 \times$  ULN and AST  $> 1 \times$  ULN, or total bilirubin  $> 1.0$  to  $1.5 \times$  ULN and any AST) or moderate (total bilirubin  $> 1.5$  to  $3 \times$  ULN and any AST) hepatic impairment [see *Clinical Pharmacology (12.3)*]. AMVUTTRA has not been studied in patients with severe hepatic impairment.

## 11 DESCRIPTION

AMVUTTRA contains vutrisiran, a chemically modified double-stranded small interfering ribonucleic acid (siRNA) that targets mutant and wild-type transthyretin (TTR) messenger RNA (mRNA) and is covalently linked to a ligand containing three *N*-acetylgalactosamine (GalNAc) residues to enable delivery of the siRNA to hepatocytes.

The structural formula of vutrisiran sodium is presented below.



The molecular formula of vutrisiran sodium is C<sub>530</sub>H<sub>672</sub>F<sub>9</sub>N<sub>171</sub>Na<sub>43</sub>O<sub>323</sub>P<sub>43</sub>S<sub>6</sub> with a molecular weight of 17,290 Da. The molecular formula of the free acid is C<sub>530</sub>H<sub>715</sub>F<sub>9</sub>N<sub>171</sub>O<sub>323</sub>P<sub>43</sub>S<sub>6</sub> with a molecular weight of 16,345 Da.

AMVUTTRA is supplied as a sterile, preservative-free, clear, colorless-to-yellow solution for subcutaneous injection. Each 0.5 mL of solution contains 25 mg of vutrisiran (equivalent to 26.5 mg vutrisiran sodium), 0.2 mg sodium phosphate monobasic dihydrate, 0.7 mg sodium phosphate dibasic dihydrate, 3.2 mg sodium chloride, water for injection, and sodium hydroxide and/or phosphoric acid to adjust the pH to  $\sim 7$ .

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Vutrisiran is a double-stranded siRNA-GalNAc conjugate that causes degradation of mutant and wild-type TTR mRNA through RNA interference, which results in a reduction of serum TTR protein and TTR protein deposits in tissues.

### 12.2 Pharmacodynamics

The pharmacodynamic effects of AMVUTTRA were evaluated in patients with hATTR-PN and ATTR-CM, treated with 25 mg AMVUTTRA administered by subcutaneous injection once every 3 months.

#### Polyneuropathy of Hereditary Transthyretin-mediated Amyloidosis

In HELIOS-A [see [Clinical Studies \(14\)](#)], vutrisiran reduced mean serum TTR at steady state by 83%. Similar TTR reductions were observed regardless of Val30Met genotype status, weight, sex, age, or race.

Vutrisiran also reduced the mean steady state serum vitamin A by 62% over 9 months [see [Warnings and Precautions \(5.1\)](#)].

#### Cardiomyopathy of Wild-type (wt) or Hereditary Transthyretin-mediated Amyloidosis (hATTR)

In HELIOS-B, the mean serum TTR reduction profile was similar with that observed in HELIOS-A, and consistent across the subgroups studied (age, sex, race, body weight, anti-drug antibody [ADA] status, ATTR disease type (wtATTR versus hATTR), NYHA class, and baseline tafamidis use).

Vutrisiran reduced the mean steady state serum vitamin A by 65% over 36 months. [see [Warnings and Precautions \(5.1\)](#)].

#### Cardiac Biomarkers

Biomarkers associated with heart failure (NT-proBNP and Troponin I) favored AMVUTTRA over placebo.

#### Cardiac Electrophysiology

At a dose 12 times the recommended dosage of 25 mg once every three months, AMVUTTRA does not prolong the QT interval to any clinically relevant extent.

### 12.3 Pharmacokinetics

The pharmacokinetic (PK) properties of AMVUTTRA were evaluated following a single dose in healthy subjects and multiple doses in patients with hATTR amyloidosis, as summarized in [Table 2](#).

**Table 2: Pharmacokinetic Parameters of Vutrisiran**

|  | Vutrisiran   |
|--|--|
| <b>General Information</b>   |  |
| <b>Dose Proportionality</b>  | Vutrisiran C <sub>max</sub> showed dose proportional increase while AUC <sub>last</sub> and AUC <sub>inf</sub> were slightly more than dose proportional following single subcutaneous doses ranging from 5 to 300 mg (i.e., 0.2 to 12 times the recommended dose) |
| <b>Accumulation</b>  | No accumulation of vutrisiran was observed in plasma after repeated every 3 months dosage*   |
| <b>Absorption</b>  |  |
| <b>T<sub>max</sub> [Median (Range)]</b>  | 4 (0.17, 12.0) hours <sup>†</sup>  |
| <b>Distribution</b>  |  |
| <b>Estimated Vd/F (%RSE)</b>   | 10.1 (5.8) L <sup>‡</sup>  |
| <b>Protein Binding</b>   | 80% <sup>§</sup>   |
| <b>Organ Distribution</b>  | Vutrisiran distributes primarily to the liver after subcutaneous dosing  |
| <b>Elimination</b>   |  |
| <b>Half-Life [Median (Range)]</b>  | 5.2 (2.2, 6.4) hours <sup>†</sup>  |
| <b>Apparent Clearance [Median (Range)]</b>   | 21.4 (19.8, 30) L/hour <sup>†</sup>  |
| <b>Metabolism</b>  |  |
| <b>Primary Pathway</b>   | Vutrisiran is metabolized by endo- and exonucleases to short nucleotide fragments of varying sizes within the liver  |
| <b>Excretion</b>   |  |
| <b>Primary Pathway</b>   | The mean fraction of unchanged vutrisiran eliminated in urine was approximately 19.4% at the recommended dose of 25 mg. The mean renal clearance of vutrisiran ranged from 4.5 to 5.7 L/hour <sup>¶</sup>  |
| <p>AUC<sub>inf</sub> = area under the concentration-time curve from the time of dosing extrapolated to infinity; AUC<sub>last</sub> = area under the concentration-time curve from the time of dosing to the last measurable concentration; C<sub>max</sub> = maximum plasma concentration; CV = coefficient of variation; RSE = relative standard error; T<sub>max</sub> = time to maximum concentration; Vd/F = apparent volume of distribution</p> <p>*After 25 mg every 3 months dosage in hATTR amyloidosis patients</p> <p><sup>†</sup>After 25 mg single dose in healthy subjects</p> <p><sup>‡</sup>Based on population PK model estimation</p> <p><sup>§</sup>Vutrisiran plasma protein binding was concentration-dependent and decreased with increasing vutrisiran concentrations (from 78% at 0.5 mcg/mL to 19% at 50 mcg/mL)</p> <p><sup>¶</sup>After single subcutaneous vutrisiran dose from 5 to 300 mg (i.e., 0.2 to 12 times the recommended dose) in healthy subjects</p> |  |

### Specific Populations

No clinically significant differences in the pharmacokinetics of vutrisiran were observed based on age, sex, race, mild and moderate renal impairment (eGFR ≥30 to <90 mL/min/1.73 m<sup>2</sup>), or mild (total bilirubin ≤1 x ULN and AST >1 x ULN, or total bilirubin >1.0 to 1.5 x ULN and any AST) and moderate (total bilirubin >1.5 to 3 x ULN and any AST) hepatic impairment. Vutrisiran has not been studied in patients with severe renal impairment, end-stage renal disease, severe hepatic impairment, or in patients with prior liver transplant.

## Drug Interaction Studies

No clinical drug-drug interaction studies have been performed with vutrisiran. In vitro studies suggest that vutrisiran is not a substrate or inhibitor of cytochrome P450 enzymes. Vutrisiran is not expected to cause drug-drug interactions by inducing CYP enzymes or modulating the activities of drug transporters.

## **12.6 Immunogenicity**

The observed incidence of anti-drug antibody (ADA, including neutralizing antibody) is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of ADA in the studies described below with the incidence of ADA in the other studies, including those of AMVUTTRA or of other siRNA products.

In HELIOS-A and HELIOS-B studies, 3 (2.5%) and 1 (0.3%) patient treated with AMVUTTRA, respectively, developed transient, low titer anti-drug antibodies. The available data are limited to make definitive conclusions regarding the effect of anti-drug antibodies on pharmacokinetics or pharmacodynamics of AMVUTTRA.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

#### Carcinogenesis

Subcutaneous administration of vutrisiran to male mice (0, 2, 6, or 13 mg/kg once every 4 weeks) for 100 weeks and to female mice (0, 3, 9, or 18 mg/kg once every 4 weeks) for 98 weeks resulted in no increase in tumors.

Subcutaneous administration of vutrisiran to male rats (0, 4, 7.5, or 15 mg/kg once every 4 weeks or 15 mg/kg once every 12 weeks) for 99 weeks and to female rats (0, 6, 12.5, or 25 mg/kg once every 4 weeks or 25 mg/kg once every 12 weeks) for 86-87 weeks resulted in no increase in tumors.

#### Mutagenesis

Vutrisiran was negative for mutagenicity in in vitro (bacterial mutagenicity, chromosomal aberration in human blood peripheral lymphocytes) and in vivo (rat bone marrow micronucleus) assays.

#### Impairment of Fertility

Subcutaneous administration of vutrisiran (0, 15, 30, or 70 mg/kg/week) to male and female rats prior to and during mating and continuing in females to gestation day 6 resulted in no adverse effects on fertility or reproductive performance.

## **14 CLINICAL STUDIES**

### **14.1 Polyneuropathy of Hereditary Transthyretin-mediated Amyloidosis**

The efficacy of AMVUTTRA was evaluated in a randomized, open-label clinical trial in adult patients with hATTR-PN (HELIOS-A; NCT03759379). Patients were randomized 3:1 to receive 25 mg of AMVUTTRA subcutaneously once every 3 months (N=122), or 0.3 mg/kg patisiran intravenously every 3 weeks (N=42) as a reference group. Ninety-seven percent of AMVUTTRA-treated patients and 93% of patisiran-treated patients completed at least 9 months of the assigned treatment.

Efficacy assessments were based on a comparison of the AMVUTTRA arm of HELIOS-A with an external placebo group in another study (NCT01960348) composed of a comparable population of adult patients with polyneuropathy caused by hATTR amyloidosis.

The primary efficacy endpoint was the change from baseline to Month 9 in modified Neuropathy Impairment Score +7 (mNIS+7). The mNIS+7 is an objective assessment of neuropathy and comprises the NIS and Modified +7 composite scores. In the version of the mNIS+7 used in the trial, the NIS objectively measures deficits in cranial nerve function, muscle strength, and reflexes, and the +7 assesses postural blood pressure, quantitative sensory testing, and peripheral nerve electrophysiology. The mNIS+7 has a total score range from 0 to 304 points, with higher scores representing a greater severity of disease.

The clinical meaningfulness of effects on the mNIS+7 was assessed by the change from baseline to Month 9 in Norfolk Quality of Life-Diabetic Neuropathy (QoL-DN) total score. The Norfolk QoL-DN scale is a patient-reported assessment that evaluates the subjective experience of neuropathy in the following domains: physical functioning/large fiber neuropathy, activities of daily living, symptoms, small fiber neuropathy, and autonomic neuropathy. The Norfolk QoL-DN has a total score range from -4 to 136, with higher scores representing greater impairment.

Additional endpoints were gait speed, as measured by the 10-meter walk test (10MWT), and modified body mass index (mBMI).

Treatment with AMVUTTRA in HELIOS-A resulted in statistically significant improvements in the mNIS+7, Norfolk QoL-DN total score, and 10-meter walk test at Month 9 compared to placebo in the external study ( $p < 0.001$ ) [Table 3, Figure 1, and

Figure 3]. The distributions of changes in mNIS+7 and Norfolk QoL-DN total scores from baseline to Month 9 by percent of patients are shown in Figure 2 and Figure 4, respectively.

The change from baseline to Month 9 in modified body mass index nominally favored AMVUTTRA [Table 3].

**Table 3: Clinical Efficacy Results (Comparison of AMVUTTRA Treatment in HELIOS-A to an External Placebo Control\*)**

| Endpoint†                   | Baseline, Mean (SD)       |                             | Change from Baseline to Month 9, LS Mean (SEM) |                        | AMVUTTRA-Placebo* Treatment Difference, LS Mean (95% CI) | p-value |
|-----------------------------|---------------------------|-----------------------------|--|------------------------|--|---------|
|                             | AMVUTTRA N=122 (HELIOS-A) | Placebo* N=77 (NCT01960348) | AMVUTTRA (HELIOS-A)                            | Placebo* (NCT01960348) |  |         |
| mNIS+7‡                     | 60.6 (36.0)               | 74.6 (37.0)                 | -2.2 (1.4)                                     | 14.8 (2.0)             | -17.0 (-21.8, -12.2)                                     | p<0.001 |
| Norfolk QoL-DN‡             | 47.1 (26.3)               | 55.5 (24.3)                 | -3.3 (1.7)                                     | 12.9 (2.2)             | -16.2 (-21.7, -10.8)                                     | p<0.001 |
| 10-meter walk test (m/sec)§ | 1.01 (0.39)               | 0.79 (0.32)                 | 0 (0.02)                                       | -0.13 (0.03)           | 0.13 (0.07, 0.19)  | p<0.001 |
| mBMI¶                       | 1058 (234)                | 990 (214)                   | 7.6 (7.9)                                      | -60.2 (10.1)           | 67.8 (43.0, 92.6)  | p<0.001 |

CI = confidence interval; LS mean = least squares mean; mBMI = modified body mass index; mNIS = modified Neuropathy Impairment Score; QoL-DN = Quality of Life-Diabetic Neuropathy; SD = standard deviation; SEM = standard error of the mean

\*External placebo group from another randomized controlled trial (NCT01960348)

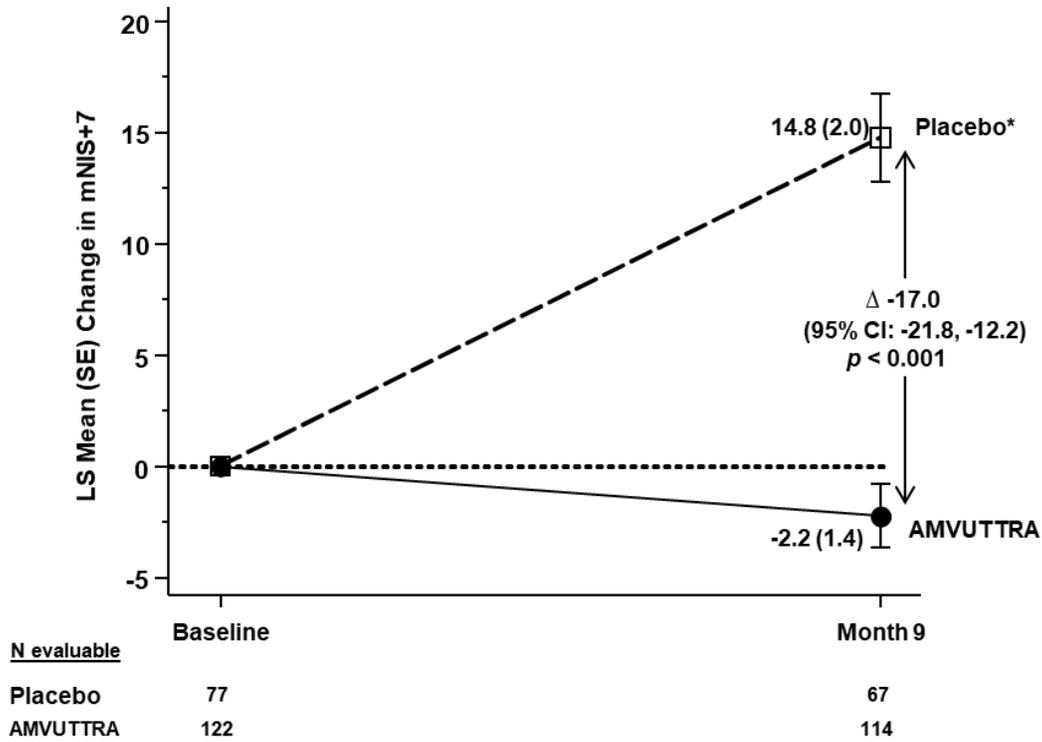
†All endpoints analyzed using the analysis of covariance (ANCOVA) with multiple imputation (MI) method

‡A lower number indicates less impairment/fewer symptoms

§A higher number indicates less disability/less impairment

¶mBMI: nominal p-value; body mass index (BMI; kg/m<sup>2</sup>) multiplied by serum albumin (g/L).

**Figure 1: Change from Baseline in mNIS+7  
(Comparison of AMVUTTRA Treatment in HELIOS-A to an External Placebo Control\*)**

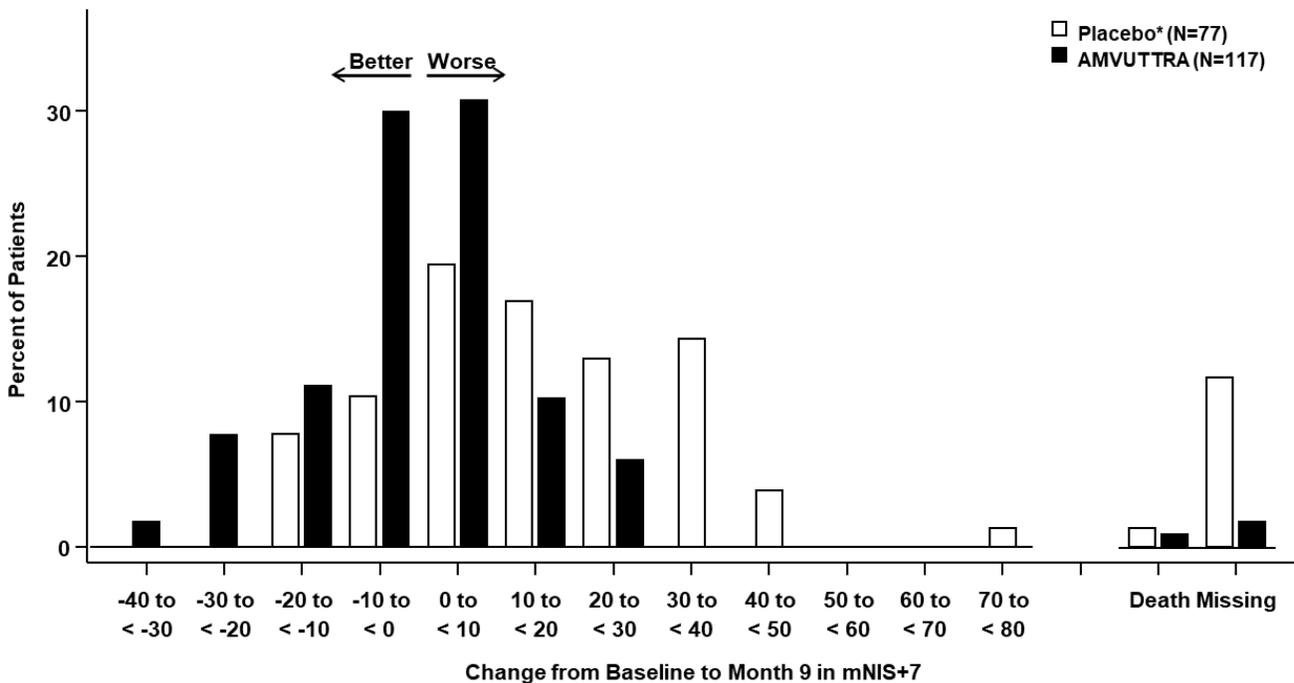


A decrease in mNIS+7 indicates improvement

Δ indicates between-group treatment difference, shown as the LS mean difference (95% CI) for AMVUTTRA – placebo

\*External placebo group from another randomized controlled trial (NCT01960348)

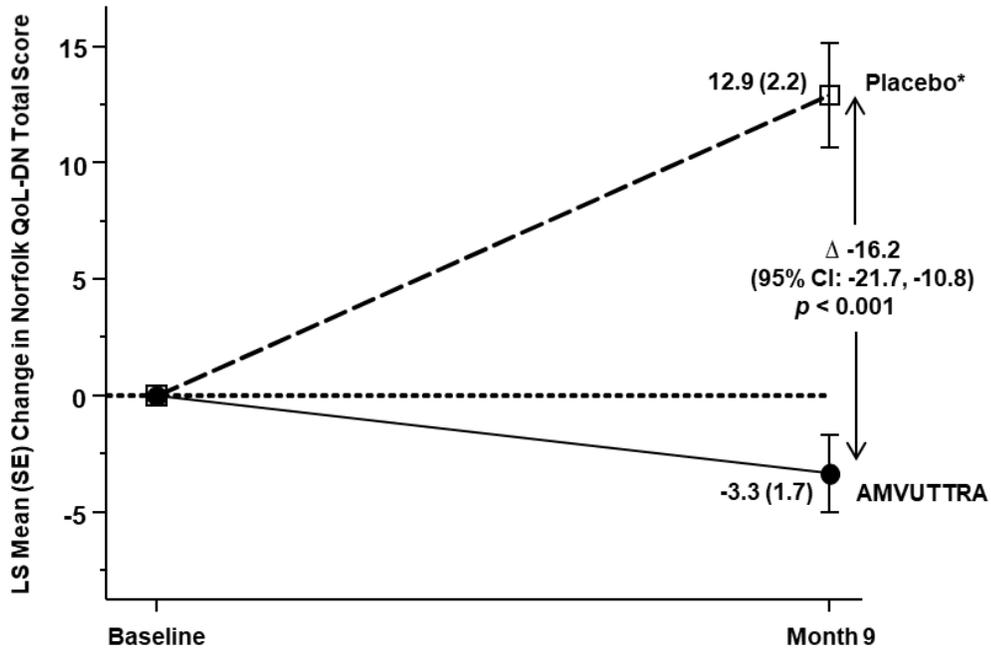
**Figure 2: Histogram of mNIS+7 Change from Baseline at Month 9  
(Comparison of AMVUTTRA Treatment in HELIOS-A to an External Placebo Control\*)**



Categories are mutually exclusive; patients who died before 9 months are summarized in the "Death" category only

\*External placebo group from another randomized controlled trial (NCT01960348)

**Figure 3: Change from Baseline in Norfolk QoL-DN Total Score (Comparison of AMVUTTRA Treatment in HELIOS-A to an External Placebo Control\*)**



**N evaluable**

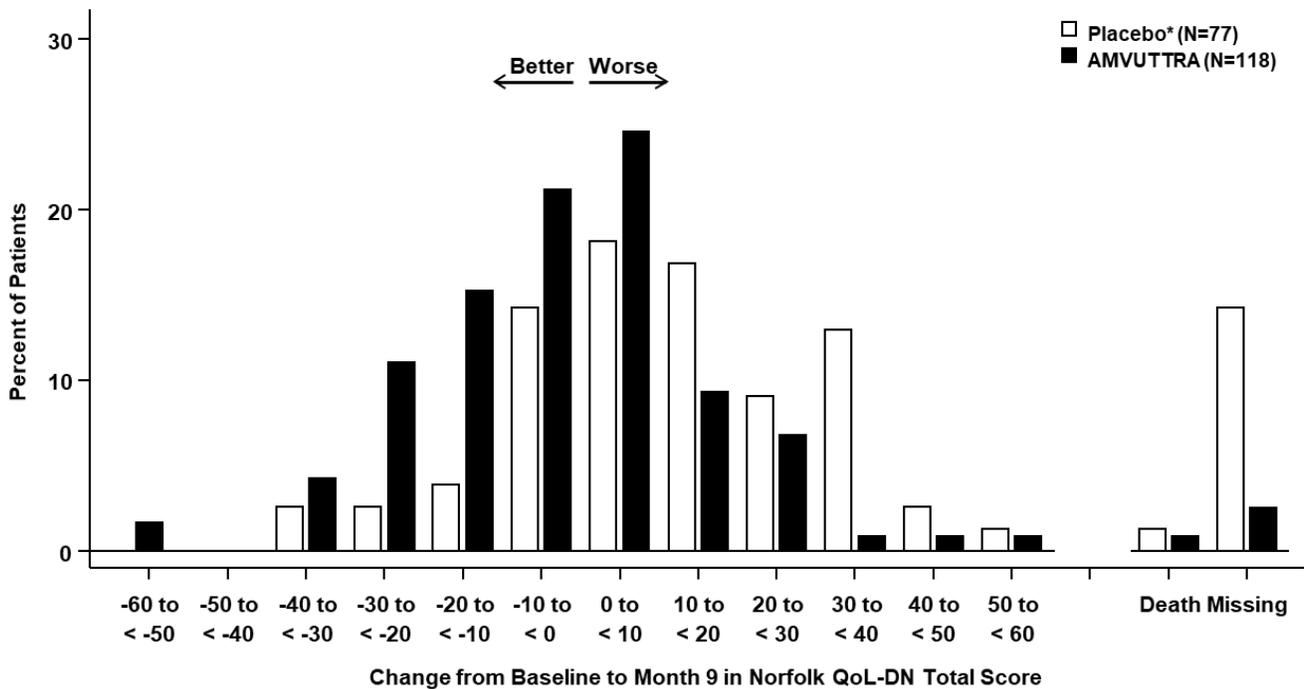
|          |     |     |
|----------|-----|-----|
| Placebo  | 76  | 65  |
| AMVUTTRA | 121 | 114 |

A decrease in Norfolk QoL-DN score indicates improvement

$\Delta$  indicates between-group treatment difference, shown as the LS mean difference (95% CI) for AMVUTTRA – placebo

\*External placebo group from another randomized controlled trial (NCT01960348)

**Figure 4: Histogram of Norfolk QoL-DN Total Score Change from Baseline at Month 9 (Comparison of AMVUTTRA Treatment in HELIOS-A to an External Placebo Control\*)**



Categories are mutually exclusive; patients who died before 9 months are summarized in the "Death" category only

\*External placebo group from another randomized controlled trial (NCT01960348)

Patients receiving AMVUTTRA in HELIOS-A experienced similar improvements relative to those in the external placebo group in mNIS+7 and Norfolk QoL-DN total score across all subgroups including age, sex, race, region, NIS score, Val30Met genotype status, and disease stage.

#### 14.2 Cardiomyopathy of Wild-type or Hereditary Transthyretin-mediated Amyloidosis

The efficacy of AMVUTTRA was evaluated in a multicenter, international, randomized, double-blind, placebo-controlled trial (HELIOS-B, NCT04153149) in 654 adult patients with wild-type or hereditary ATTR-CM. Patients were randomized 1:1 to receive 25 mg of AMVUTTRA (n=326) subcutaneously once every 3 months, or matching placebo (n=328).

Treatment assignment was stratified by baseline tafamidis use (yes versus no), ATTR disease type (wtATTR or hATTR amyloidosis), and by baseline New York Heart Association (NYHA) Class I or II and age <75 years versus all other. At baseline, 40% of patients were on tafamidis. The mean age of study participants was 75 years, 93% were male, 84% were White, 7% were Black or African American, 6% were Asian, 2% did not report race and 1% were race other, 88% had wild-type ATTR, 13% were NYHA Class I, 78% were NYHA Class II, and 9% NYHA Class III. No significant imbalance in baseline characteristics was observed between the two treatment groups.

Participants were permitted to initiate open-label tafamidis during the study. A total of 85 participants initiated tafamidis: 44 (22%) in the AMVUTTRA arm and 41 (21%) in the placebo arm. The median time to initiation of tafamidis for these 85 participants was 18 months.

The primary efficacy endpoint was the composite outcome of all-cause mortality and recurrent CV events (CV hospitalizations and urgent heart failure [UHF] visits) during the double-blind treatment period of up to 36 months, evaluated in the overall population and in the monotherapy population (defined as patients not receiving tafamidis at study baseline).

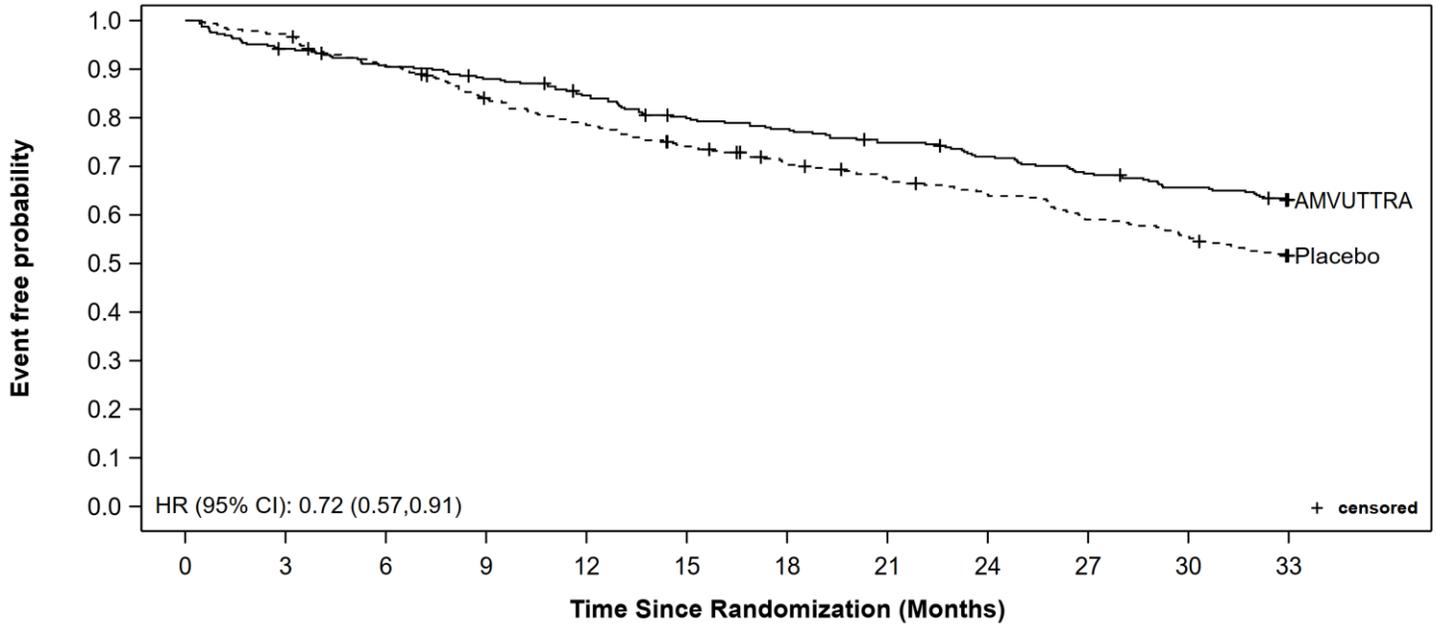
AMVUTTRA led to significant reduction in the risk of all-cause mortality and recurrent CV events compared to placebo in the overall and monotherapy population of 28% and 33%, respectively (Table 4). The majority of the deaths (77%) were CV-related. A Kaplan-Meier curve illustrating time to first CV event or all-cause mortality is presented in Figure 5.

Both components of the primary composite endpoint individually contributed to the treatment effect in the overall and monotherapy population (Table 4).

**Table 4: Primary Composite Endpoint and its Individual Components in HELIOS-B**

| Endpoint   |  | Overall population        |                 | Monotherapy population    |                 |
|--|--|---------------------------|-----------------|---------------------------|-----------------|
|  |  | AMVUTTRA (N=326)          | Placebo (N=328) | AMVUTTRA (N=196)          | Placebo (N=199) |
| <b>Primary composite endpoint*</b>   | Hazard Ratio (95% CI) <sup>†</sup><br><i>p</i> -value <sup>‡</sup> | 0.72 (0.55, 0.93)<br>0.01 |                 | 0.67 (0.49, 0.93)<br>0.02 |                 |
| <b>Components of the Primary Composite Endpoint</b>  |  |                           |                 |                           |                 |
| <b>All-cause mortality</b>   | Hazard Ratio (95% CI) <sup>‡</sup>                                 | 0.69 (0.49, 0.98)         |                 | 0.71 (0.47, 1.06)         |                 |
| <b>CV hospitalizations and UHF visits</b>  | Hazard Ratio (95% CI) <sup>†</sup>                                 | 0.73 (0.55, 0.96)         |                 | 0.67 (0.47, 0.96)         |                 |
| Abbreviations: CI=confidence interval; CV=cardiovascular; UHF=urgent heart failure.<br>Heart transplantation and left ventricular assist device placement are treated as death. Deaths after study discontinuation are included in the all-cause mortality component analysis.<br>* Primary composite endpoint defined as: composite outcome of all-cause mortality and recurrent CV events. Primary analysis included at least 33 months (and up to 36 months) follow-up on all patients.<br><sup>†</sup> Hazard Ratio (95% CI) and <i>p</i> -value are based on a modified Andersen-Gill model.<br><sup>‡</sup> Hazard Ratio (95% CI) is based on a Cox proportional hazard model. |  |                           |                 |                           |                 |

**Figure 5: Time to All-Cause Mortality or First CV Event (Overall population)**



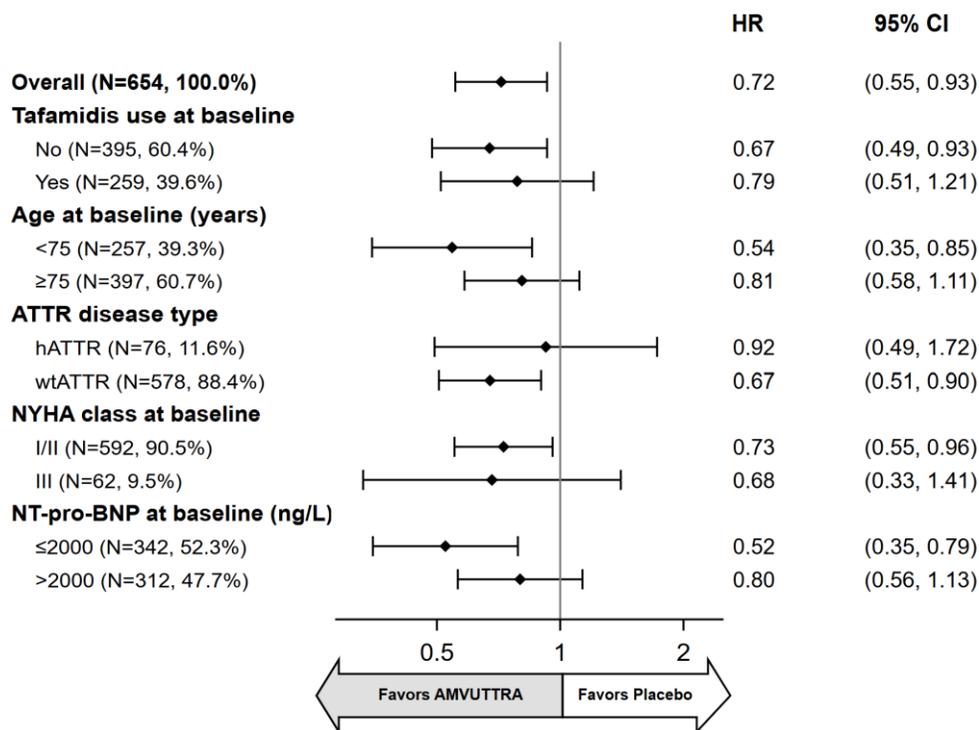
|          | No. at Risk (Cumulative No. of Events) |         |         |         |         |         |         |          |          |          |          |          |
|----------|--|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
|          | 0                                      | 3       | 6       | 9       | 12      | 15      | 18      | 21       | 24       | 27       | 30       | 33       |
| AMVUTTRA | 326(0)                                 | 306(19) | 294(30) | 284(39) | 271(50) | 254(65) | 247(72) | 237(81)  | 227(90)  | 216(101) | 206(110) | 185(118) |
| Placebo  | 328(0)                                 | 317(11) | 295(31) | 270(53) | 253(70) | 237(84) | 221(96) | 210(105) | 199(115) | 183(131) | 172(142) | 155(154) |

Abbreviations: CI=confidence interval; CV=cardiovascular; HR = hazard ratio.

Heart transplantation and left ventricular assist device placement are treated as death. HR and 95% CI are based on a Cox proportional hazard model. First CV event = First CV hospitalization or urgent heart failure visit after randomization.

Results from the subgroup analysis for the primary composite endpoint were consistent across prespecified subgroups in the overall population (Figure 6) and monotherapy population.

**Figure 6: Subgroup Analyses of the Primary Composite Endpoint (Overall Population)**



Abbreviations: ATTR = transthyretin amyloidosis; CI = confidence interval; hATTR = hereditary transthyretin amyloidosis; HR = hazard ratio; NT-pro-BNP = N-terminal prohormone of B-type natriuretic peptide; NYHA = New York Heart Association; wtATTR = wild-type transthyretin amyloidosis. HR and 95% CI are based on modified Andersen-Gill model analyses.

The treatment effect of AMVUTTRA on functional capacity and health status were assessed by the change from baseline to Month 30 in distance walked on 6-Minute Walk Test (6-MWT), and the Kansas City Cardiomyopathy Questionnaire-Overall Summary (KCCQ-OS) score, respectively.

At Month 30, the LS mean difference in change from baseline in distance walked on 6-MWT was 22 (95% CI: 8, 35; p=0.002) meters and 25 (95% CI: 7, 44; p=0.006) meters favoring AMVUTTRA over placebo in the overall population and monotherapy population, respectively.

At Month 30, the LS mean difference in the change from baseline in KCCQ-OS was 6 (95% CI: 2, 9; p=0.001) and 8 (95% CI: 4, 13; p=0.0003) favoring AMVUTTRA over placebo in the overall population and monotherapy population respectively.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### 16.1 How Supplied

AMVUTTRA is a sterile, preservative-free, clear, colorless-to-yellow solution for subcutaneous injection. AMVUTTRA is supplied as 25 mg/0.5 mL solution in a single-dose 1-mL prefilled syringe made from Type I glass with stainless steel 29-gauge needle with a needle shield. The prefilled syringe components are not made with natural rubber latex.

AMVUTTRA is available in cartons containing one single-dose prefilled syringe each.

The NDC is: 71336-1003-1.

### 16.2 Storage and Handling

Store at 2°C to 30°C (36°F to 86°F) in the original carton, until ready for use. Do not freeze.

## 17 PATIENT COUNSELING INFORMATION

### Recommended Vitamin A Supplementation

Inform patients that AMVUTTRA treatment leads to a decrease in serum vitamin A levels. Instruct patients to take the recommended daily allowance of vitamin A. Advise patients to contact their healthcare provider if they experience ocular symptoms suggestive of vitamin A deficiency (e.g., night blindness) and refer them to an ophthalmologist if they develop these symptoms [see [Warnings and Precautions \(5.1\)](#)].

### Pregnancy

Instruct patients that if they are pregnant or plan to become pregnant while taking AMVUTTRA they should inform their healthcare provider. Inform patients of the potential risk to the fetus, including that AMVUTTRA treatment leads to a decrease in serum vitamin A levels [see [Use in Specific Populations \(8.1\)](#) and [Clinical Pharmacology \(12.2\)](#)].

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Manufactured for: Alnylam Pharmaceuticals, Inc., Cambridge, MA 02142

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