

FOR PATIENTS WITH
IgA NEPHROPATHY (IgAN)

 **TARPEYO**[®]
(budesonide) delayed release capsules • 4 mg

GO FROM
IgAN

TO
I CAN

Indication

What is TARPEYO?

TARPEYO is a prescription medicine used to reduce the loss of kidney function in adults with a kidney disease called primary immunoglobulin A nephropathy (IgAN) who are at risk for their disease getting worse. It is not known if TARPEYO is safe and effective in children.



Not an actual patient.

**The first and only
FDA-approved medicine that
targets a source of IgAN**

Learn how TARPEYO can help
preserve your kidney function

Important Safety Information

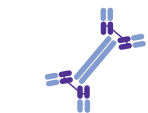
Do not take TARPEYO if you are allergic to budesonide or any of the ingredients in TARPEYO. See the end of the Patient Information for a complete list of ingredients in TARPEYO.

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

YOUR IMMUNE SYSTEM

PLAYS A PART IN IgA NEPHROPATHY (IgAN)

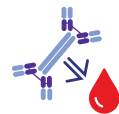
There is a gut-kidney connection in IgAN. IgA1 is usually formed in a specific area of the gut, but the kidneys are the organs that end up becoming damaged.



1

How IgAN is believed to form in the body

An antibody known as **IgA1** is made mainly in the gut.



2

For people with IgAN, **more IgA1 enters the bloodstream** than in people without IgAN.



3

For people with IgAN, **their immune system sees the IgA1 as harmful**. It produces specific antibodies against the IgA1 and forms abnormal clusters with it.



4

These clusters can build up in your kidneys and can lead to inflammation and damage.



5

Kidney inflammation and damage reduce your kidneys' ability to filter waste and fluid in your blood. This can result in blood and protein in your urine.

TARPEYO WAS DESIGNED TO TREAT IgAN

TARPEYO[®]
(budesonide) delayed release capsules • 4 mg



TARPEYO is designed to deliver treatment to an area of the gut thought to play an important role in IgAN.



The TARPEYO capsule is designed to release medicine to a specific area of the gut. The active ingredient in TARPEYO acts locally to reduce inflammation.



The goal of TARPEYO treatment is to reduce the amount of IgA1 that is produced.



Reducing IgA1 can reduce the buildup of abnormal IgA1 clusters. Reducing these clusters may reduce the loss of kidney function over time.*

Ask your doctor how TARPEYO fits into your treatment plan.

*It has not been established to what extent the efficacy of TARPEYO is from local effects (in the gut) vs systemic effects (in circulation).

Important Safety Information (cont'd)

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

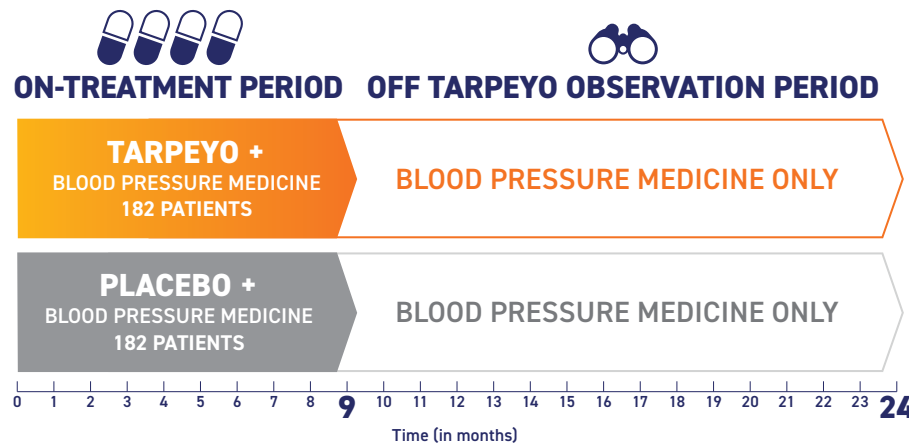
- have liver problems
- have an infection
- have or have had tuberculosis
- plan to have surgery
- have high blood sugar levels (prediabetes or diabetes)
- have high blood pressure (hypertension)
- have chickenpox or measles or have recently been near anyone with chickenpox or measles
- have glaucoma or cataracts
- have decreased bone mineral density (osteoporosis)
- have a family history of diabetes or glaucoma

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

TARPEYO WAS STUDIED IN A 2-YEAR TRIAL

The trial was designed so researchers could study the effects of TARPEYO during the 9-month ON-TREATMENT period AND for 15 more months OFF TARPEYO TREATMENT to see if there was a lasting effect.

9-month ON-TREATMENT period, 15-month observation period



364 adults with IgAN took part in the trial

- The combination of **TARPEYO plus blood pressure medicine helps manage both a source of IgAN and the damaging effects of IgAN** on the kidneys

UNDERSTANDING THE RESULTS OF TARPEYO ON KIDNEY FUNCTION

The main goal of the study was to see the effect of TARPEYO on kidney function over time (measured by eGFR)

- eGFR is a test that measures your level of kidney function
- It stands for estimated glomerular filtration rate
- eGFR measures how well your kidneys filter waste and toxins from your blood
- If your eGFR number changes drastically, talk to your doctor

As your kidney function gets worse, your eGFR number goes down, so a **higher eGFR number is better**.

Important Safety Information (cont'd)

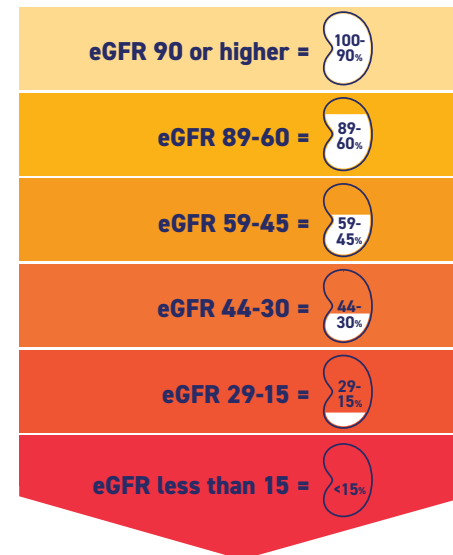
Before taking TARPEYO, tell your healthcare provider about all of your medical conditions, including if you (cont'd):

- have stomach ulcers
- are pregnant or plan to become pregnant. TARPEYO may harm your unborn baby. Talk to your healthcare provider about the possible risk to your unborn baby if you take TARPEYO when you are pregnant
- are breastfeeding or plan to breastfeed. It is not known if TARPEYO passes into your breast milk or if it will affect your baby. Talk to your healthcare provider about the best way to feed your baby during treatment with TARPEYO

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

TARPEYO[®]
(budesonide) delayed release capsules • 4 mg

Percentage of kidney function
based on your eGFR score



TARPEYO
REDUCED
THE LOSS OF
KIDNEY FUNCTION **by 50%***

LASTING RESULTS: change in eGFR at 2 years†

TARPEYO +
BLOOD PRESSURE MEDICINE

lost
5.3
mL/min/1.73 m²

vs

PLACEBO +
BLOOD PRESSURE MEDICINE

lost
11.2
mL/min/1.73 m²

*At 2 years, there was a >50% difference in loss of kidney function as measured by eGFR in people who received TARPEYO plus blood pressure medicine vs those who received placebo plus blood pressure medicine. Calculated as relative reduction (9.4% TARPEYO plus blood pressure medicine vs 20.3% placebo plus blood pressure medicine).

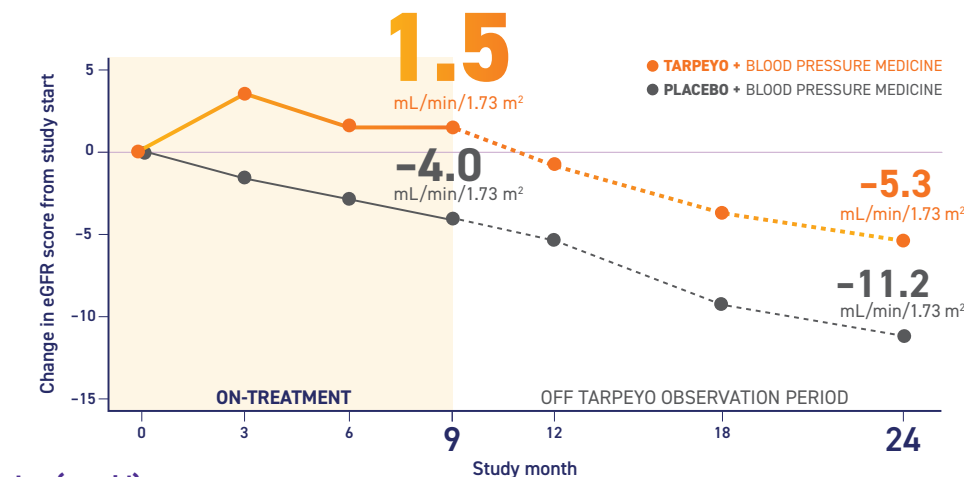
†At the start of the study, the average eGFR was approximately 58 mL/min/1.73 m², with 60% of patients having an eGFR <60 mL/min/1.73 m².

Important Safety Information (cont'd)

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. TARPEYO and other medicines may affect each other causing side effects.

TARPEYO
STABILIZED
KIDNEY FUNCTION DURING
9 -MONTH ON-TREATMENT PERIOD

eGFR during 2-year study



Important Safety Information (cont'd)

How should I take TARPEYO?

- Take TARPEYO exactly as your healthcare provider tells you
- Your healthcare provider will decide how long you should take TARPEYO. Do not stop taking TARPEYO without first talking with your healthcare provider
- Take your prescribed dose of TARPEYO 1 time each day in the morning, at least 1 hour before a meal
- Swallow TARPEYO capsules whole. **Do not** open, chew, crush, or break TARPEYO capsules before swallowing
- If you miss a dose of TARPEYO, take your prescribed dose at your next scheduled time. **Do not** take two doses of TARPEYO at the same time
- If you take too much TARPEYO, call your healthcare provider right away or go to the nearest hospital emergency room

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

UNDERSTANDING PROTEINURIA RESULTS

- Protein in your urine, or proteinuria, is considered a risk factor for your IgAN getting worse
- Higher protein levels in the urine are associated with more rapid loss of kidney function
- One way to measure proteinuria is with a UPCR test. UPCR stands for urine protein-to-creatinine ratio
- In people with IgAN, the goal is to keep proteinuria under 0.5 grams per day

eGFR vs UPCR—What's the difference?

- eGFR is considered the best measure of your kidney function



- UPCR measures the amount of protein in your urine. It is not a measure of your overall kidney function, it is a sign of kidney damage

Important Safety Information (cont'd)

What should I avoid while taking TARPEYO?

Do not eat grapefruit or drink grapefruit juice during your treatment with TARPEYO. Eating grapefruit or drinking grapefruit juice can increase the level of TARPEYO in your blood.

The **TARPEYO** study measured both kidney function and proteinuria.

TARPEYO + BLOOD PRESSURE MEDICINE LOWERED PROTEINURIA

Change in proteinuria at 2 years

TARPEYO +
BLOOD PRESSURE MEDICINE

34%
reduction

vs

PLACEBO +
BLOOD PRESSURE MEDICINE

4%
reduction

Proteinuria reduction can take time

- Because of how TARPEYO works, it **may take some time** before you see changes in your lab results



On average, patients started to see reductions in proteinuria at Month 3. Reductions lasted through Month 24.

52% reduction in proteinuria achieved at 12 months, even after stopping TARPEYO treatment at 9 months

Every patient is different. It's important to stick with your treatment plan. Do not stop taking TARPEYO without checking with your doctor first.

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

TARPEYO IS A 9-MONTH COURSE

TAKEN ONCE A DAY

Make TARPEYO part of your morning routine



Take all 4 capsules in the morning, at least 1 hour before breakfast.

Make sure to **avoid grapefruit or grapefruit juice** while on TARPEYO.



Swallow the capsules whole.

Do not crush, chew, or open them.



When your doctor decides to **stop treatment**, you should reduce your dose of TARPEYO to **2 capsules per day for 2 weeks**.

Important Safety Information (cont'd)

What are the possible side effects of TARPEYO?

TARPEYO may cause serious side effects, including:

- **Effects of having too much corticosteroid medicine in your blood (hypercorticism):** Long-time use of TARPEYO can cause you to have signs and symptoms of too much cortisol, a stress hormone in your blood. Tell your healthcare provider if you have any of the following signs and symptoms of hypercorticism: acne, bruise easily, rounding of your face (moon face), ankle swelling, thicker or more hair on your body and face, a fatty pad or hump between your shoulders (buffalo hump), or pink or purple stretch marks on the skin of your abdomen, thighs, breasts, or arms

A 9-MONTH COURSE MAY FIT INTO YOUR LIFE



It's important to take TARPEYO for the full 9 months to potentially see results similar to those seen in clinical trials.

Important Safety Information (cont'd)

What are the possible side effects of TARPEYO? (cont'd)

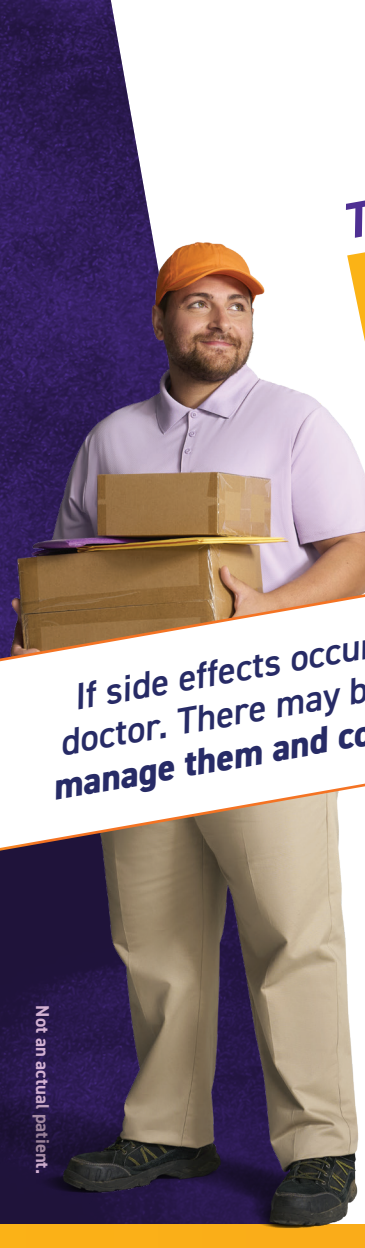
- **Adrenal suppression:** When TARPEYO is taken for a long period of time (chronic use), adrenal suppression can happen. This is a condition in which the adrenal glands do not make enough steroid hormones. Symptoms of adrenal suppression include tiredness, weakness, nausea and vomiting, and low blood pressure. Tell your healthcare provider if you are under stress or have any symptoms of adrenal suppression during treatment with TARPEYO
- **Risk of immunosuppression:** TARPEYO weakens your immune system. Taking medicines that weaken your immune system makes you more likely to get infections. Avoid contact with people who have contagious diseases, such as chickenpox or measles, during treatment with TARPEYO. Tell your healthcare provider right away if you come in contact with anyone who has chickenpox or measles. Consult with your healthcare provider regarding appropriate vaccination scheduling

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

TARPEYO®
(budesonide) delayed release capsules • 4 mg



Not actual patients.



If side effects occur, discuss them with your doctor. There may be options that allow you to manage them and continue with your treatment.

TARPEYO WAS GENERALLY WELL TOLERATED

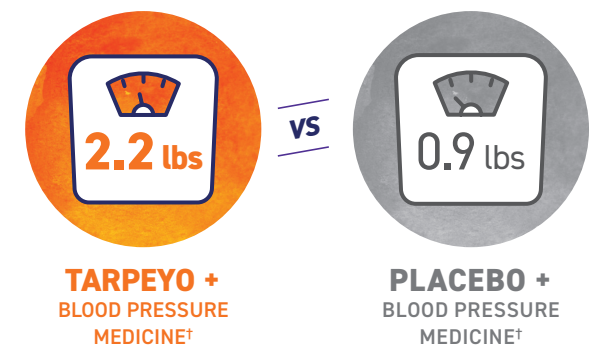
- These are not all the possible side effects of TARPEYO. Talk to your doctor about all possible side effects
- TARPEYO may cause serious side effects, including effects of having too much corticosteroid medicine in your blood (hypercorticism), adrenal suppression, and risk of immunosuppression

Most common side effects*

	TARPEYO + BLOOD PRESSURE MEDICINE 195 patients	PLACEBO + BLOOD PRESSURE MEDICINE 194 patients
Swelling of the lower legs, ankles, and feet	17%	5%
High blood pressure	12%	3%
Muscle spasms	12%	4%
Acne	11%	1%
Headache	10%	7%
Upper respiratory tract infection	8%	6%
Swelling of the face	8%	0.5%
Weight increase	7%	3%
Indigestion	7%	2%
Irritation or inflammation of the skin	6%	1%
Joint pain	6%	2%
Increased white blood cell count	6%	0.5%

*These side effects were experienced by at least 5% of patients treated with TARPEYO plus blood pressure medicine and were at least 2% more common than patients treated with blood pressure medicine alone.

ON AVERAGE, PATIENTS ON TARPEYO DID NOT EXPERIENCE SUBSTANTIAL WEIGHT GAIN



- The majority of patients (87%) finished the 2-year study
- Increases in body weight resolved within 3 months of ending treatment
- Some patients experienced small changes to blood pressure or blood sugar. These changes resolved to pre-treatment levels within 3 months of completing TARPEYO

†Maximum average body weight increase at 6 months for TARPEYO group and 12 months for placebo group.
‡Your doctor will likely order lab tests to see how well you are responding to treatment.

Unlike other treatments for IgAN, there are no FDA-mandated tests, immunizations, or birth control required when taking TARPEYO.‡

Important Safety Information (cont'd)

What are the possible side effects of TARPEYO? (cont'd)

- Tell your healthcare provider if you develop any symptoms of infection during treatment with TARPEYO, including fever, feeling tired, chills, aches, pain, and nausea and vomiting

Please see Important Safety Information throughout and accompanying Full Prescribing Information.



Not an actual patient.

SUPPORT AND FINANCIAL ASSISTANCE MADE EASY

TARPEYO Touchpoints is a program that supports you throughout your treatment journey.

- **Care Navigators are your primary point of contact.** They can connect you with the clinical team, provide helpful resources, and help track your TARPEYO shipment each month
- TARPEYO will be **shipped directly to your doorstep**
- **TARPEYO Touchpoints can also help you:**
 - » Understand your insurance benefits
 - » Obtain a prior authorization and appeals assistance

Not sure where to start? Call Touchpoints today!

**Get in touch with a Care Navigator who can answer your questions.
1-833-444-8277, Monday through Friday, 8 AM to 8 PM ET**

DON'T LET COST GET IN THE WAY



A Care Navigator can help find the right financial assistance for you

- **TARPEYO Touchpoints Copay Assistance Program:** If you have commercial insurance, you may be eligible to **pay as little as \$0 per prescription***†
- **TARPEYO Touchpoints Patient Assistance Program (PAP):** If you are underinsured or uninsured, you may be eligible to receive your prescription at no cost**

97% of TARPEYO patients have paid less than \$10 per prescription.‡

*Eligibility required. Please view the full terms and conditions on [TARPEYOTouchpoints.com](https://www.tarpeyotouchpoints.com).

†To qualify for the TARPEYO Touchpoints Copay Assistance Program, you must: (a) be a resident of the United States or a US territory, (b) have a valid prescription for TARPEYO, (c) be commercially insured and approved.

‡To qualify for the TARPEYO Touchpoints Patient Assistance Program, you must: (a) be a resident of the United States or a US territory, (b) have a valid prescription for TARPEYO, (c) have no coverage/not enough coverage or insurance that doesn't cover TARPEYO, (d) meet annual household income threshold based on household size, (e) agree to and provide income verification (soft credit check, tax returns, 3 months of pay stubs, unemployment checks, or bank statements), (f) be enrolled by your doctor through TARPEYO Touchpoints. (g) Not valid for prescriptions reimbursed in whole or in part by any government-funded program including but not limited to Medicare, Medicare Part D, Medicaid, Medigap, VA, CHAMPUS, DOD, TRICARE, or any state, patient foundation, or other pharmaceutical program.

§All patients regardless of insurance type. This includes Commercial, Medicare, Medicaid, and cash-paying patients from January 2022 through June 2024.

Important Safety Information (cont'd)

The most common side effects of TARPEYO include:

- | | | |
|--|-------------------------------------|--|
| • swelling of the lower legs, ankles, and feet | • headache | • indigestion |
| • high blood pressure | • upper respiratory tract infection | • irritation or inflammation of the skin |
| • muscle spasms | • swelling of the face | • joint pain |
| • acne | • weight increase | • increased white blood cell count |

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

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

To get started, you and your doctor will fill out an enrollment form.

GO FROM
IgAN

TO

I CAN



Not actual patients.

*Learn how **TARPEYO** can help
preserve your kidney function*

- ✓ **First and only FDA-approved medicine that targets a source of IgAN**
- ✓ **Slowed kidney function loss**
- ✓ **Significantly lowered proteinuria** better than placebo + blood pressure medicine
- ✓ **9-month course of treatment** that may fit into your life
- ✓ **No FDA-mandated tests, immunizations, or birth control required**
- ✓ **Support and financial assistance** made easy with **TARPEYO Touchpoints®**

 **TARPEYO**[®]
(budesonide) delayed release capsules • 4 mg

*Hear from real **TARPEYO** patients
about their experiences.*



*Ask your doctor if **TARPEYO** is right for you.*

Indication

What is **TARPEYO**?

TARPEYO is a prescription medicine used to reduce the loss of kidney function in adults with a kidney disease called primary immunoglobulin A nephropathy (IgAN) who are at risk for their disease getting worse. It is not known if **TARPEYO** is safe and effective in children.

Important Safety Information

Do not take **TARPEYO if you are allergic to budesonide or any of the ingredients in **TARPEYO**. See the end of the Patient Information for a complete list of ingredients in **TARPEYO**.**

Please see Important Safety Information throughout and accompanying Full Prescribing Information.

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calliditas
THERAPEUTICS

HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use TARPEYO safely and effectively. See full prescribing information for TARPEYO.
TARPEYO (budesonide) delayed release capsules, for oral use
Initial U.S. Approval: 1997

-----**RECENT MAJOR CHANGES**-----
Warning and Precautions (5.2) 06/2024
-----**INDICATIONS AND USAGE**-----
TARPEYO is a corticosteroid indicated to reduce the loss of kidney function in adults with primary immunoglobulin A nephropathy (IgAN) who are at risk for disease progression. (1)
-----**DOSAGE AND ADMINISTRATION**-----
• The recommended dosage is 16 mg administered orally once daily, in the morning at least 1 hour before a meal. (2)
• Swallow whole. Do not open, crush or chew. (2)
• The recommended duration of therapy is 9 months. When discontinuing, reduce dosage to 8 mg once daily for the last two weeks. (2, 5.1)
-----**DOSAGE FORMS AND STRENGTHS**-----
Delayed release capsules: 4 mg (3)
-----**CONTRAINDICATIONS**-----
• Hypersensitivity to budesonide or any of the ingredients in TARPEYO. (4)

-----**WARNINGS AND PRECAUTIONS**-----
• **Hypercorticism and Adrenal Axis Suppression:** Follow general warnings concerning corticosteroids, patients with hepatic impairment may be at increased risk. Taper upon discontinuation. (2, 5.1, 8.6, 12.3)
• **Immunosuppression and Increased Risk of Infection:** Avoid use in patients with active or quiescent tuberculosis infection, untreated fungal, bacterial, systemic viral or parasitic infections, or ocular herpes simplex. May affect vaccine efficacy. (5.2)
• **Other Corticosteroid Effects:** Monitor patients with concomitant conditions where corticosteroids may have unwanted effects (e.g., hypertension, diabetes mellitus). (5.3)
-----**ADVERSE REACTIONS**-----
Most common adverse reactions (≥5%) are peripheral edema, hypertension, muscle spasms, acne, headache, upper respiratory tract infection, face edema, weight increased, dyspepsia, dermatitis, arthralgia, white blood cell count increased. (6.1)
To report SUSPECTED ADVERSE REACTIONS, contact Calliditas Therapeutics at 1-844-IGA-0011 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
-----**DRUG INTERACTIONS**-----
Potent CYP3A4 Inhibitors (e.g. ketoconazole, grapefruit juice): Can increase systemic budesonide concentrations: avoid concomitant use. (7.1)
-----**USE IN SPECIFIC POPULATIONS**-----
Lactation: Routine monitoring of linear growth in infants is recommended with chronic use of budesonide in the nursing mother. (8.2).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.
Revised: 06/2024

FULL PRESCRIBING INFORMATION: CONTENTS*

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- 2 DOSAGE AND ADMINISTRATION
- 3 DOSAGE FORMS AND STRENGTHS
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* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION
1 INDICATIONS AND USAGE
TARPEYO is indicated to reduce the loss of kidney function in adults with primary immunoglobulin A nephropathy (IgAN) who are at risk for disease progression.
2 DOSAGE AND ADMINISTRATION
The recommended treatment duration of therapy is 9 months, with a dosage of 16 mg administered orally once daily [see *Clinical Studies* (14.1)]. When discontinuing therapy, reduce the dosage to 8 mg once daily for the last 2 weeks of therapy [see *Warnings and Precautions* (5.1)].
The delayed release capsules should be swallowed whole in the morning, at least 1 hour before a meal. Do not open, crush or chew.
If a dose is missed, take the prescribed dose at the next scheduled time. Do not double the next dose.
Safety and efficacy of treatment with subsequent courses of TARPEYO have not been established.
3 DOSAGE FORMS AND STRENGTHS
Delayed release capsule containing 4 mg budesonide. White coated opaque capsules printed with “CAL10 4MG” in black ink.
4 CONTRAINDICATIONS
TARPEYO is contraindicated in patients with hypersensitivity to budesonide or any of the ingredients of TARPEYO. Serious hypersensitivity reactions, including anaphylaxis have occurred with other budesonide formulations.

5 WARNINGS AND PRECAUTIONS
5.1 Hypercorticism and Adrenal Axis Suppression
When corticosteroids are used chronically, systemic effects such as hypercorticism and adrenal suppression may occur. Corticosteroids can reduce the response of the hypothalamus-pituitary-adrenal (HPA) axis to stress. In situations where patients are subject to surgery or other stress situations, supplementation with a systemic corticosteroid is recommended. When discontinuing therapy [see *Dosing and Administration* (2)] or switching between corticosteroids, monitor for signs of adrenal axis suppression.
Patients with moderate to severe hepatic impairment (Child-Pugh Class B and C respectively) could be at an increased risk of hypercorticism and adrenal axis suppression due to an increased systemic exposure of oral budesonide. Avoid use in patients with severe hepatic impairment (Child-Pugh Class C). Monitor for increased signs and/or symptoms of hypercorticism in patients with moderate hepatic impairment (Child-Pugh Class B) [see *Use in Specific Populations* (8.6), *Clinical Pharmacology* (12.3)].
5.2 Immunosuppression and Increased Risk of Infection
Corticosteroids, including TARPEYO, suppress the immune system and increase the risk of infection with any pathogen, including viral, bacterial, fungal, protozoan, or helminthic pathogens. Corticosteroids can:
• Reduce resistance to new infections
• Exacerbate existing infections
• Increase the risk of disseminated infections
• Increase the risk of reactivation or exacerbation of latent infections
• Mask some signs of infection

Corticosteroid-associated infections can be mild but can be severe and at times fatal. The rate of infectious complications increases with increasing corticosteroid dosages. Monitor for the development of infection and consider TARPEYO withdrawal as needed.

Tuberculosis

If TARPEYO is used to treat a condition in patients with latent tuberculosis or tuberculin reactivity, reactivation of tuberculosis may occur. In patients with latent tuberculosis or tuberculin reactivity TARPEYO should be discontinued.

Varicella Zoster and Measles Viral Infections

Varicella and measles can have a serious or even fatal course in non-immune patients taking corticosteroids, including TARPEYO. In corticosteroid-treated patients who have not had these diseases or are non-immune, particular care should be taken to avoid exposure to varicella and measles:

- If a TARPEYO-treated patient is exposed to varicella, prophylaxis with varicella zoster immune globulin may be indicated. If varicella develops, treatment with antiviral agents may be considered.
- If a TARPEYO-treated patient is exposed to measles, prophylaxis with immunoglobulin may be indicated.

Hepatitis B Virus Reactivation

Hepatitis B virus reactivation can occur in patients who are hepatitis B carriers treated with immunosuppressive dosages of corticosteroids, including TARPEYO. Reactivation can also occur infrequently in corticosteroid-treated patients who appear to have resolved hepatitis B infection.

Screen patients for hepatitis B infection before initiating immunosuppressive treatment with TARPEYO. For patients who show evidence of hepatitis B infection, recommend consultation with physicians with expertise in managing hepatitis B regarding monitoring and consideration for hepatitis B antiviral therapy.

Fungal Infections

Corticosteroids, including TARPEYO, may exacerbate systemic fungal infections; therefore, avoid TARPEYO use in the presence of such infections.

Amebiasis

Corticosteroids, including TARPEYO, may activate latent amebiasis. Therefore, it is recommended that latent amebiasis or active amebiasis be ruled out before initiating TARPEYO in patients who have spent time in the tropics or patients with unexplained diarrhea.

Strongyloides Infestation

Corticosteroids, including TARPEYO, should be discontinued in patients with known or suspected Strongyloides (threadworm) infestation. In such patients, corticosteroid-induced immunosuppression may lead to Strongyloides hyperinfection and dissemination with widespread larval migration, often accompanied by severe enterocolitis and potentially fatal gram-negative septicemia.

Cerebral Malaria

Avoid corticosteroids, including TARPEYO, in patients with cerebral malaria.

Ocular Herpes Simplex Virus Infection

Corticosteroids, including TARPEYO, may exacerbate ocular herpes simplex virus infections; therefore, avoid TARPEYO use in the presence of such infections.

Kaposi's Sarcoma

Kaposi's sarcoma has been reported to occur in patients receiving corticosteroid therapy, most often for chronic conditions. Discontinuation of corticosteroids may result in clinical improvement of Kaposi's sarcoma.

Immunizations

Corticosteroid therapy, including TARPEYO, may decrease the immune response to some vaccines.

5.3 Other Corticosteroid Effects

TARPEYO is a systemically available corticosteroid and is expected to cause related adverse reactions. Monitor patients with hypertension, prediabetes, diabetes mellitus, osteoporosis, peptic ulcer, glaucoma or cataracts, or with a family history of diabetes or glaucoma, or with any other condition where corticosteroids may have unwanted effects.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Hypercorticism and adrenal axis suppression [see Warnings and Precautions (5.1)]
- Risks of immunosuppression [see Warnings and Precautions (5.2)]
- Other corticosteroid effects [see Warnings and Precautions (5.3)]

6.1 Clinical Trials Experience

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

The safety of TARPEYO was evaluated in 389 patients in the randomized, double-blind, placebo-controlled study, NeflgArd (NCT: 03643965, Phase 3 clinical study in adults with primary IgAN). The data below reflect TARPEYO exposure in 195 patients with a median duration of 41 weeks, compared with comparable exposure to placebo in 194 patients.

The most common adverse reactions, reported in greater than or equal to 5% of TARPEYO-treated patients and greater than or equal to 2% higher than placebo, in the 9-month treatment period are listed in Table 1.

Most adverse reactions that occurred at a greater incidence for TARPEYO compared to placebo were consistent with hypercortisolism and reversible, resolving within 3 months after discontinuation.

Table 1: Reported adverse reactions occurring in greater than or equal to 5% of TARPEYO treated patients, and greater than or equal to 2% higher than Placebo

Adverse Reaction	TARPEYO 16 mg (N=195)	Placebo (N=194)
	n (%)	n (%)
Peripheral edema	33 (17)	10 (5)
Hypertension	23 (12)	6 (3)
Muscle spasms	23 (12)	8 (4)
Acne	22 (11)	2 (1)
Headache	19 (10)	14 (7)
Upper respiratory tract infection	16 (8)	12 (6)
Face edema	15 (8)	1 (0.5)
Weight increased	13 (7)	6 (3)
Dyspepsia	13 (7)	4 (2)
Dermatitis	12 (6)	2 (1)
Arthralgia	12 (6)	4 (2)
White blood cell count increased	11 (6)	1 (0.5)

7 DRUG INTERACTIONS

7.1 Interaction with CYP3A4 Inhibitors

Budesonide is a substrate for CYP3A4. Avoid use with potent CYP3A4 inhibitors; e.g. ketoconazole, itraconazole, ritonavir, indinavir, saquinavir, erythromycin, and cyclosporine [see Clinical Pharmacology (12.3)].

Avoid ingestion of grapefruit juice with TARPEYO. Intake of grapefruit juice, which inhibits CYP3A4 activity, can increase the systemic exposure to budesonide [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The available data from published case series, epidemiological studies and reviews with oral budesonide use in pregnant women have not identified a drug-associated risk of major birth defects, miscarriage or other adverse maternal or fetal outcomes. There are risks to the mother and fetus associated with IgA Nephropathy. Infants exposed to in utero corticosteroids, including budesonide, are at risk for hypoadrenalism (see Clinical Considerations). In animal reproduction studies with pregnant rats and rabbits, administration of subcutaneous budesonide during organogenesis at doses approximately 0.3 times or 0.03 times, respectively, the maximum recommended human dose (MRHD), resulted in increased fetal loss, decreased pup weights, and skeletal abnormalities. Maternal toxicity was observed in both rats and rabbits at these dose levels (see Data).

The estimated background risk of major birth defects and miscarriage of the indicated population is unknown. All pregnancies have a background risk of birth defects, loss, or other adverse outcomes. 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.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risk

IgA nephropathy in pregnancy is associated with adverse maternal outcomes, including increased rates of cesarean section, pregnancy-induced hypertension, pre-eclampsia and preterm delivery, and adverse fetal/neonatal outcomes, including stillbirth and low birth weight.

Fetal/Neonatal Adverse Reactions

Hypoadrenalism may occur in infants born to mothers receiving corticosteroids during pregnancy. Infants should be carefully observed for signs of hypoadrenalism, such as poor feeding, irritability, weakness, and vomiting, and managed accordingly [see Warnings and Precautions (5.1)].

Data

Animal Data

Budesonide was teratogenic and embryo-lethal in rabbits and rats.

In an embryo-fetal development study in pregnant rats dosed subcutaneously with budesonide during the period of organogenesis on gestation days 6 to 15 there were effects on fetal development and survival at subcutaneous doses up to approximately 500 mcg/kg in rats (approximately 0.3 times the maximum recommended human dose (MRHD) on a body surface area basis).

In an embryo-fetal development study in pregnant rabbits dosed during the period of organogenesis on gestation days 6 to 18, there was an increase in maternal abortion, and effects on fetal development and reduction in litter weights at subcutaneous doses from approximately 25 mcg/kg (approximately 0.03 times the MRHD on a body surface area basis).

Maternal toxicity, including reduction in body weight gain, was observed at subcutaneous doses of 5 mcg/kg in rabbits (approximately 0.006 times the maximum recommended human dose on a body surface area basis) and 500 mcg/kg in rats (approximately 0.3 times the maximum recommended human dose on a body surface area basis).

In a peri- and post-natal development study, subcutaneous treatment of pregnant rats with budesonide during the period from Day 15 post coitum to Day 21 post partum, budesonide had no effects on delivery, but did have an effect on growth and development of offspring. In addition, offspring survival was reduced and surviving offspring had decreased mean body weights at birth and during lactation at exposures ≥ 0.012 times the MRHD (on a mg/m² basis at maternal subcutaneous doses of 20 mcg/kg/day and higher). These findings occurred in the presence of maternal toxicity.

8.2 Lactation

Risk Summary

Breastfeeding is not expected to result in significant exposure of the infant to TARPEYO. Lactation studies have not been conducted with oral budesonide, including TARPEYO, and no information

is available on the effects of the drug on the breastfed infant or the effects of the drug on milk production. One published study reports that budesonide is present in human milk following maternal inhalation of budesonide (*see Data*). Routine monitoring of linear growth in infants is recommended with chronic use of budesonide in the nursing mother. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for TARPEYO and any potential adverse effects on the breastfed infant from TARPEYO, or from the underlying maternal condition.

Data

One published study reports that budesonide is present in human milk following maternal inhalation of budesonide, which resulted in infant doses approximately 0.3% to 1% of the maternal weight-adjusted dosage and a milk to plasma ratio was approximately 0.5. Budesonide was not detected in plasma, and no adverse events were noted in the breastfed infants following maternal use of inhaled budesonide.

Assuming a daily average milk intake of about 150 mL/kg/day and a milk to plasma ratio of 0.5, the estimated oral dose of budesonide for a 5 kg infant is expected to be less than 2 mcg/day for a maternal dose of 16 mg TARPEYO. Assuming 100% bio-availability in the infant this is about 0.1% of the maternal dose and about 3% of the highest inhaled dose used clinically for asthma in infants.

8.4 Pediatric Use

The safety and efficacy of TARPEYO in pediatric patients have not been established.

8.5 Geriatric Use

Clinical studies of TARPEYO did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

8.6 Hepatic Impairment

Patients with moderate to severe hepatic impairment (Child-Pugh Class B and C, respectively) could be at an increased risk of hypercorticism and adrenal axis suppression due to an increased systemic exposure to budesonide [*see Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*]. Avoid use in patients with severe hepatic impairments (Child-Pugh Class C). Monitor for increased signs and/or symptoms of hypercorticism in patients with moderate hepatic impairment (Child-Pugh Class B).

10 OVERDOSAGE

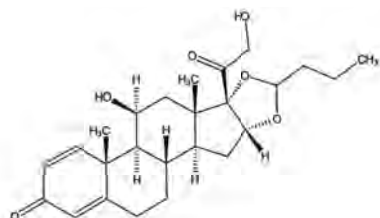
Reports of acute toxicity and/or death following overdosage of corticoids are rare.

In the event of acute overdosage, no specific antidote is available. Treatment consists of supportive and symptomatic therapy.

11 DESCRIPTION

TARPEYO (budesonide) delayed release capsules, for oral administration, contain budesonide, a synthetic corticosteroid, as the active ingredient. Budesonide is designated chemically as 16 α , 17 α -(1R)-Butylidenebis(oxy))-11 β , 21-dihydroxypregna-1,4-diene-3,20-dione.

Budesonide is provided as a mixture of two epimers (22R and 22S). The empirical formula of budesonide is C₂₅H₃₄O₆ and its molecular weight is 430.5. Its structural formula is:



Budesonide is a white to off-white, tasteless, odorless powder that is practically insoluble in water, sparingly soluble in alcohol, and freely soluble in chloroform.

The beads in each capsule contain the following inactive ingredients: sugar spheres (sucrose and starch), hypromellose, polyethylene glycol, citric acid monohydrate, ethyl cellulose, medium chain triglycerides and oleic acid. The capsule shells contain hypromellose and titanium oxide (E171); and the printing ink on the capsules contain shellac, propylene glycol and black iron oxide (E172). The enteric coating on the capsules contain: methacrylic acid and methacrylate copolymer, talc and dibutyl sebacate.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Budesonide is a corticosteroid with potent glucocorticoid activity and weak mineralocorticoid activity that undergoes substantial first pass metabolism. Mucosal B-cells present in the ileum, including the Peyer's patches, express glucocorticoid receptors and are responsible for the production of galactose-deficient IgA1 antibodies (Gd-Ag1) causing IgA nephropathy. Through their anti-inflammatory and immunosuppressive effects at the glucocorticoid receptor, corticosteroids can modulate B-cell numbers and activity. It has not been established to what extent TARPEYO's efficacy is mediated via local effects in the ileum vs systemic effects.

12.2 Pharmacodynamics

Treatment with corticosteroids, including TARPEYO, is associated with a suppression of endogenous cortisol concentrations and an impairment of the hypothalamus-pituitary-adrenal (HPA) axis function.

12.3 Pharmacokinetics

Absorption

Following single oral administration of TARPEYO 16 mg to healthy subjects, the average geometric mean C_{max} (CV%) was 4.4 ng/mL (58.3), and AUC₀₋₂₄ was 24.1 h*ng/mL (49.7). Median T_{lag} (min, max) was 3.1 h (0, 6) while median T_{max} (min, max) was 5.1 h (4.5, 10).

Food Effect

There was no clinically relevant food effect observed on the overall systemic exposure of budesonide when either a moderate or high fat meal was consumed 1 hour after administration of TARPEYO.

Distribution

Approximately 85 to 90% of budesonide binds to plasma proteins in blood over the concentration range of 0.43 to 99 ng/mL. The volume of distribution at steady state reported in the literature is 3 to 4 L/kg.

Metabolism

Budesonide is metabolized by the liver (and to lesser extent the gut), primarily by oxidative pathways via CYP3A4 to two main metabolites, 16 α -hydroxyprednisolone and 6 β -hydroxybudesonide, which have less than 1% of the corticosteroid activity of budesonide.

Elimination

Budesonide had a high plasma clearance, 0.9 to 1.8 L/min in healthy adults, which is close to the estimated liver blood flow, and, accordingly, suggests that budesonide is a high hepatic clearance drug.

Following single oral administration of TARPEYO 16 mg to healthy subjects, the elimination half-life (t_{1/2}) for TARPEYO ranged from 5.0 to 6.8 hours.

Excretion

Budesonide was excreted in urine and feces in the form of metabolites. After oral as well as intravenous administration of micronized [³H]-budesonide, approximately 60% of the recovered radioactivity was found in urine. The major metabolites, including 16 α -hydroxyprednisolone and 6 β -hydroxybudesonide, are mainly renally excreted, intact or in conjugated forms. No unchanged budesonide was detected in urine.

Specific Populations

Age, race, and body weight

The effect of age, race, and body weight on the pharmacokinetics of TARPEYO has not been established.

Sex

Of the 143 healthy volunteers included in the Phase 1 studies, 29% were female. Pharmacokinetics of budesonide was similar between males and females.

Hepatic Impairment

Subjects with moderate hepatic impairment (Child-Pugh class B) had 3.5 times the budesonide AUC compared with healthy volunteers while subjects with mild hepatic impairment (Child-Pugh class A) had approximately 1.4 times the budesonide AUC compared with healthy volunteers.

Patients with severe hepatic impairment (Child-Pugh Class C) have not been studied.

Renal Impairment

Intact budesonide is not excreted renally. The main metabolites of budesonide, which have negligible corticosteroid activity, are largely (60%) excreted in urine.

Drug Interaction Studies

Budesonide is metabolized via CYP3A4. Potent inhibitors of CYP3A4 can increase plasma levels of budesonide.

Thus, clinically relevant drug interactions with potent CYP3A4 inhibitors, such as ketoconazole, itraconazole, ritonavir, indinavir, saquinavir, erythromycin, cyclosporine, and grapefruit juice, are to be expected. Conversely, induction of CYP3A4 potentially could result in the lowering of budesonide plasma concentrations.

Effects of Other Drugs on Budesonide

Ketoconazole

In an open, non-randomized, cross-over study, 6 healthy subjects were given budesonide 10 mg as a single dose, either alone or concomitantly with the last ketoconazole dose of 3 days treatment with ketoconazole 100 mg twice daily. Co-administration of ketoconazole resulted in 8-fold the AUC of budesonide, compared to budesonide alone.

In an open, randomized, cross-over study 8 healthy subjects were given Entocort EC 3 mg as a single dose, either alone or concomitantly with the last ketoconazole dose of 4 days treatment with ketoconazole 200 mg once daily. Co-administration of ketoconazole resulted in 6.5-fold the AUC of budesonide, compared to budesonide alone.

Grapefruit Juice

In an open, randomized, cross-over study, 8 healthy subjects were given Entocort EC 3 mg, either alone, or concomitantly with 600 mL concentrated grapefruit juice (which inhibits CYP3A4 activity predominantly in the intestinal mucosa), on the last of 4 daily administrations. Concomitant administration of grapefruit juice resulted in doubling the bioavailability of budesonide compared to budesonide alone.

Proton Pump Inhibitors

The pharmacokinetics of TARPEYO have not been evaluated in combination with proton pump inhibitors (PPIs). Since the disintegration of TARPEYO is pH dependent, the release properties and uptake of budesonide may be altered when TARPEYO is taken after treatment with PPIs. In a study assessing intragastric and intraduodenal pH in healthy volunteers after repeated dosing with the PPI omeprazole 40 mg once daily, intragastric and intraduodenal pH did not exceed that required for disintegration of TARPEYO. Beyond the duodenum, PPIs such as omeprazole are unlikely to affect pH.

Oral Contraceptives (CYP3A4 Substrates)

In a parallel study, the pharmacokinetics of budesonide were not significantly different between healthy female subjects who received oral contraceptives containing desogestrel 0.15 mg and ethinyl estradiol 30 μ g and healthy female subjects who did not receive oral contraceptives. Budesonide 4.5 mg once daily for one week did not affect the plasma concentrations of ethinyl estradiol, a CYP3A4 substrate. The effect of budesonide 16 mg once daily on the plasma concentrations of desogestrel and ethinyl estradiol was not studied.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies with budesonide were conducted in rats and mice. In a two-year study in Sprague-Dawley rats, budesonide caused a statistically significant increase in the incidence of gliomas in male rats at an oral dose of 50 mcg/kg (approximately 0.03 times the maximum recommended human dose (MRHD) on a body surface area basis). In addition, there were increased incidences of primary hepatocellular tumors in male rats at 25 mcg/kg (approximately 0.015 times the MRHD on a body surface area basis) and above. No tumorigenicity was seen in female rats at oral doses up to 50 mcg/kg (approximately 0.03 times the MRHD on a body surface area basis). In an additional two-year study in male Sprague-Dawley rats, budesonide caused no gliomas at an oral dose of 50 mcg/kg (approximately 0.03 times the MRHD on a body surface area basis). However, it caused a statistically significant increase in the incidence of hepatocellular tumors at an oral dose of 50 mcg/kg (approximately 0.03 times the MRHD of a body surface area basis). The concurrent reference corticosteroids (prednisolone and triamcinolone acetonide) showed similar findings. In a 91-week study in mice, budesonide caused no treatment-related carcinogenicity at oral doses up to 200 mcg/kg (approximately 0.06 times the MRHD on a body surface area basis).

Budesonide was not genotoxic in the Ames test, the mouse lymphoma cell forward gene mutation (TK⁺) test, the human lymphocyte chromosome aberration test, the Drosophila melanogaster sex-linked recessive lethal test, the rat hepatocyte UDS test and the mouse micronucleus test.

In rats, budesonide had no effect on fertility at subcutaneous doses up to 80 mcg/kg (approximately 0.05 times the MRHD on a body surface area basis). However, it caused a decrease in prenatal viability and viability in pups at birth and during lactation, along with a decrease in maternal food consumption and body weight gain, at subcutaneous doses of 20 mcg/kg (approximately 0.012 times the MRHD on a body surface area basis) and above. No such effects were noted at 5 mcg/kg (approximately 0.003 times the MRHD on a body surface area basis).

14 CLINICAL STUDIES

14.1 Treatment of IgAN

TARPEYO was shown to reduce the loss of kidney function in adults with primary IgAN at risk of disease progression in the NeflgArd trial. While the effect on kidney function that was seen during the 9-month treatment period persisted following completion of treatment, TARPEYO did not change the long-term rate of decline in kidney function.

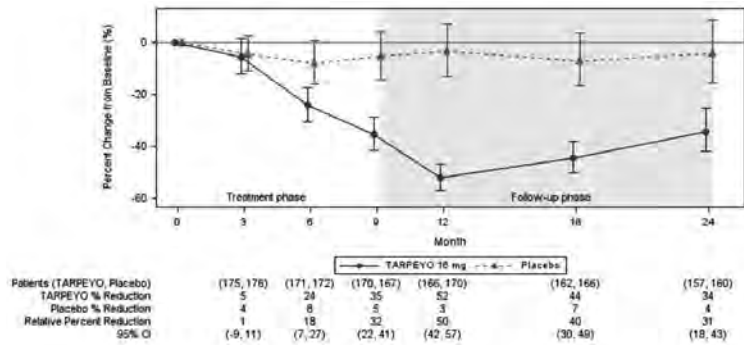
NeflgArd Study: A Phase 3, Double-Blind Placebo-Controlled, Randomized Trial in Adults with Primary IgAN

The effect of TARPEYO on proteinuria and kidney function (estimated glomerular filtration rate, eGFR) was assessed in a randomized, double-blind, phase 3, 2-part, multicenter study (NeflgArd, NCT: 03643965) in adults with biopsy-proven IgAN, eGFR ≥35 mL/min/1.73 m², and proteinuria (defined as either ≥1 g/day or urine protein to creatinine ratio (UPCR) ≥0.8 g/g) who were on a stable dose of maximally-tolerated RAS inhibitor therapy. Patients with other glomerulopathies, nephrotic syndrome, or those who had been treated with systemic immunosuppressive medications were excluded. Patients were randomized 1:1 to either TARPEYO 16 mg once daily or placebo and treated for nine months followed by a 2-week taper of either TARPEYO 8 mg once daily or placebo. Patients were then followed off-treatment for 15 months. The primary endpoint for Part A of the study (interim analysis) was the ratio of UPCR (based on 24-hour urine collections) at 9 months compared to baseline based on the first 199 randomized patients who completed the Month 9 visit. The primary endpoint for Part B of the study (final analysis) was a time-weighted average of the log ratio of eGFR at each time point over 2 years relative to baseline.

Of the 364 randomized patients evaluated for efficacy, 66% were male, 76% were Caucasian, 23% were Asian, and 20% were from North America. The median age was 43 years (range 20 to 73 years). At baseline, the mean eGFR was approximately 58 mL/min/1.73 m², with 60% of patients having an eGFR <60 mL/min/1.73 m². The mean baseline UPCR was 1.5 g/g and 21% of patients had proteinuria >3.5 g/24 hours. Approximately 70% of patients had a history of hypertension and 7% had a history of type 2 diabetes mellitus. At baseline, 98% were treated with an angiotensin-converting enzyme (ACE) inhibitor or angiotensin receptor blocker (ARB) and <1% of patients were on a sodium-glucose cotransporter 2 (SGLT2) inhibitor. At study entry, the median systolic/diastolic blood pressure was 125/79 mmHg.

The trial met the prespecified Part A primary endpoint based on an interim analysis of 199 randomized patients who had completed the Month 9 visit. The interim analysis showed a 31% reduction in UPCR in patients treated with TARPEYO 16 mg once daily compared to placebo (95% CI: 16% to 42% reduction; p=0.0001). In the final analysis of 364 patients, the percentage change in UPCR observed at 9 months was consistent with the results in the subset of 199 patients included in the interim analysis. The final analysis of the percentage change in UPCR during the treatment and follow-up phase is shown in Figure 1.

Figure 1: LS Mean (95% CI) Percentage Change from Baseline in UPCR (g/g) in NeflgArd Study (Full Analysis Set)



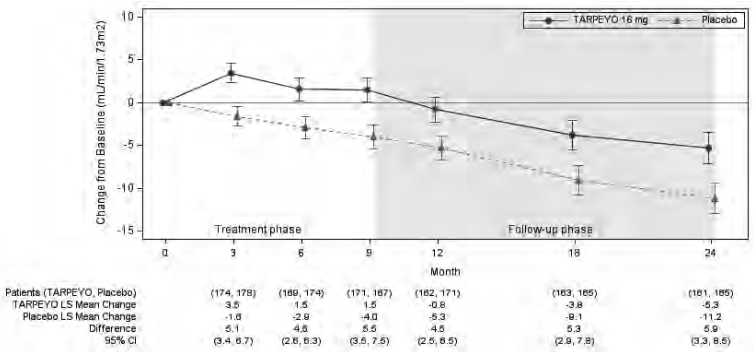
Estimated mean percentage change from baseline in UPCR with 95% confidence intervals estimated from a mixed model repeated measures analysis of log-transformed post-baseline to baseline ratios at 3, 6, 9, 12, 18, and 24 months. Analysis included all UPCR data regardless of use of prohibited medication at any point during the study.

Values reported under the figure are converted to percent reduction from baseline. Relative percent reductions comparing TARPEYO and placebo are estimated from the regression model. Abbreviations: UPCR, urine protein to creatinine ratio; CI, confidence interval; LS, least squares.

In the final analysis of 364 patients, the trial met the prespecified Part B primary endpoint (p<0.0001).

The mean change from baseline in eGFR and respective 95% CI for each arm at each scheduled visit during the treatment and follow-up phase is shown in Figure 2. The favorable effect of TARPEYO on eGFR was seen by Month 3 (the earliest assessment) and did not appear to increase in magnitude over two years. At Year 2, there was a 5.9 mL/min/1.73 m² difference in the mean change from baseline in eGFR between TARPEYO and placebo (95% CI: 3.3 to 8.5 mL/min/1.73 m²; p<0.0001).

Figure 2: LS Mean (95% CI) Change from Baseline in eGFR (mL/min/1.73 m²) in NeflgArd Study (Full Analysis Set)



Estimated least squares mean change from baseline in eGFR (mL/min/1.73 m²) with 95% confidence intervals estimated from a mixed model repeated measures analysis of post-baseline to baseline differences at 3, 6, 9, 12, 18, and 24 months. Analysis was based on untransformed data and includes all eGFR data regardless of use of prohibited medication at any point during the study. A total of 15 patients in the TARPEYO arm and 20 patients in the placebo arm received rescue medication during the 2-year study. Abbreviations: eGFR, estimated glomerular filtration rate; CI, confidence interval; LS least squares

The treatment effect based on the change from baseline in eGFR at 2 years was consistent across key subgroups, including key demographic (such as age, sex, race) and baseline disease (such as baseline proteinuria) characteristics.

16 HOW SUPPLIED/STORAGE AND HANDLING

TARPEYO (budesonide) delayed release capsules 4 mg, are white opaque-coated capsules marked with "CAL10 4 MG" in black ink on the body of the capsule. They are supplied as follows: NDC 81749-004-01: Bottles of 120 capsules. Child-resistant cap.

Store at 20-25°C (68 - 77°F); excursions permitted to 15° to 30°C (59° to 86°F). [See USP Controlled Room Temperature].

Keep container tightly closed. Protect from moisture.

17 PATIENT COUNSELING INFORMATION

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

Advise patients that TARPEYO may cause hypercorticism and adrenal axis suppression and to follow a taper schedule, as instructed by their healthcare provider if discontinuing therapy [see *Warnings and Precautions* (5.1)].

TARPEYO causes immunosuppression. Advise patients to avoid exposure to people with chicken pox or measles and, if exposed, to consult their healthcare provider immediately. There is an increased risk of developing a variety of infections, including worsening of existing tuberculosis, fungal, bacterial, viral or parasitic infections, or ocular herpes simplex, and to contact their healthcare provider if they develop any symptoms of infection [see *Warnings and Precautions* (5.3)]. Provide advice regarding vaccination schedules for immunocompromised patients.

Advise patients that TARPEYO delayed release capsules should be swallowed whole and not chewed, crushed or broken and to take TARPEYO in the morning, at least 1 hour before a meal [See *Dosage and Administration* (2)].

Advise patients to avoid the consumption of grapefruit juice for the duration of their TARPEYO therapy [See *Drug Interactions* (7.1)].

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Manufactured for and distributed by:

Calliditas Therapeutics AB
Stockholm, Sweden

Patent: <http://www.calliditas.com/patents>

Patient Information
TARPEYO (tar-PAY-oh)
(budesonide)
delayed release capsules

What is TARPEYO?

TARPEYO is a prescription medicine used to reduce the loss of kidney function in adults with a kidney disease called primary immunoglobulin A nephropathy (IgAN) who are at risk for their disease getting worse.

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

Do not take TARPEYO if you are allergic to budesonide or any of the ingredients in TARPEYO. See the end of this leaflet for a complete list of ingredients in TARPEYO.

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

- have liver problems.
- plan to have surgery.
- have chickenpox or measles or have recently been near anyone with chickenpox or measles.
- have an infection.
- have high blood sugar levels (prediabetes or diabetes).
- have glaucoma or cataracts.
- have a family history of diabetes or glaucoma.
- have or have had tuberculosis.
- have high blood pressure (hypertension).
- have decreased bone mineral density (osteoporosis).
- have stomach ulcers.
- are pregnant or plan to become pregnant. TARPEYO may harm your unborn baby. Talk to your healthcare provider about the possible risk to your unborn baby if you take TARPEYO when you are pregnant.
- are breastfeeding or plan to breastfeed. It is not known if TARPEYO passes into your breast milk or if it will affect your baby. Talk to your healthcare provider about the best way to feed your baby during treatment with TARPEYO.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. TARPEYO and other medicines may affect each other causing side effects.

How should I take TARPEYO?

- Take TARPEYO exactly as your healthcare provider tells you.
- Your healthcare provider will decide how long you should take TARPEYO. Do not stop taking TARPEYO without first talking with your healthcare provider.
- Take your prescribed dose of TARPEYO 1 time each day in the morning, at least 1 hour before a meal.
- Swallow TARPEYO capsules whole. **Do not** open, chew, crush, or break TARPEYO capsules before swallowing.
- If you miss a dose of TARPEYO, take your prescribed dose at your next scheduled time. **Do not** take two doses of TARPEYO at the same time.
- If you take too much TARPEYO, call your healthcare provider right away or go to the nearest hospital emergency room.

What should I avoid while taking TARPEYO?

Do not eat grapefruit or drink grapefruit juice during your treatment with TARPEYO. Eating grapefruit or drinking grapefruit juice can increase the level of TARPEYO in your blood.

What are the possible side effects of TARPEYO?

TARPEYO may cause serious side effects, including:

- **Effects of having too much corticosteroid medicine in your blood (hypercorticism).** Long-time use of TARPEYO can cause you to have signs and symptoms of too much cortisol, a stress hormone in your blood. Tell your healthcare provider if you have any of the following signs and symptoms of hypercorticism:
 - acne
 - thicker or more hair on your body and face
 - bruise easily
 - a fatty pad or hump between your shoulders (buffalo hump)
 - rounding of your face (moon face)
 - pink or purple stretch marks on the skin of your abdomen, thighs, breasts, or arms
 - ankle swelling

- **Adrenal suppression.** When TARPEYO is taken for a long period of time (chronic use), adrenal suppression can happen. This is a condition in which the adrenal glands do not make enough steroid hormones. Symptoms of adrenal suppression include:

- tiredness
- weakness
- nausea and vomiting
- low blood pressure

Tell your healthcare provider if you are under stress or have any symptoms of adrenal suppression during treatment with TARPEYO.

- **Risk of immunosuppression.** TARPEYO weakens your immune system. Taking medicines that weaken your immune system makes you more likely to get infections. Avoid contact with people who have contagious diseases, such as chickenpox or measles, during treatment with TARPEYO. Tell your healthcare provider right away if you come in contact with anyone who has chickenpox or measles. Consult with your healthcare provider regarding appropriate vaccination scheduling.
- Tell your healthcare provider if you develop any symptoms of infection during treatment with TARPEYO, including:
 - fever
 - feeling tired
 - chills
 - aches
 - pain
 - nausea and vomiting

The most common side effects of TARPEYO include:

- swelling of the lower legs, ankles, and feet
- high blood pressure
- muscle spasms
- acne
- headache
- upper respiratory tract infection
- swelling of the face
- weight increase
- indigestion
- irritation or inflammation of the skin
- joint pain
- increased white blood cell count

These are not all the possible side effects of TARPEYO.

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 TARPEYO?

- Store TARPEYO at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep TARPEYO in a tightly closed container.
- Protect from moisture.

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

General information about the safe and effective use of TARPEYO.

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

What are the ingredients in TARPEYO?

Active ingredient: budesonide

Inactive ingredients: sugar spheres (sucrose and starch), hypromellose, polyethylene glycol, citric acid monohydrate, ethyl cellulose, medium chain triglycerides and oleic acid.

The capsules contain: hypromellose and titanium oxide (E171).

The printing ink on the capsules contain: shellac, propylene glycol and black iron oxide (E172).

The enteric coating on the capsules contain: methacrylic acid and methacrylate copolymer, talc and dibutyl sebacate.

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