MULTIPLE SCLEROSIS

FOCUS ON

SPRING 2024

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SCAN ME
Access additional MS content online.
Use your mobile phone camera to activate the QR code.
Did you know that the telltale signs of MS—numbness, tingling, vision loss, trouble walking and talking, and memory loss—are also symptoms of vitamin B12 deficiency? With this knowledge, researchers tried to find the connection between the two. In lab studies, they found that some MS treatment boosts the brain’s ability to take in B12. This discovery suggests that delivering B12 directly to the brain, in addition to regular MS treatment, could improve disease control. It’s too soon to know for sure, but one day, this could be part of your treatment plan.

SOURCE: Sanford Burnham Prebys

MS can be mild and involve occasional flares or severe and advance to disability quickly. Little has been known about why the disease course can be so different for each person. New research begins to shed light on the question. In a study of more than 22,000 people with MS, scientists discovered the first gene variant linked to severe, disabling MS. Those who get a copy of this gene from both parents may need a cane or wheelchair up to 4 years sooner than others with MS. The discovery could lead to targeted treatment to help prevent disability in those with the most severe disease.

SOURCE: Nature

Exercise is a key part of your MS self-care. But that may be easier said than done. A new study explores why movement is harder for some people with MS than others. MS may involve one or more of three types of pain. Nociceptive and neuropathic pain, which are sporadic and felt in specific places in the body, come from tissue or nerve damage. But widespread pain with nociceptive features, or WPNF, is ongoing and felt all over. In the study, people with WPNF were much more likely to be sedentary and avoid exercise. Describe your pain to your care team in great detail so they can tailor exercise recommendations to your needs.

SOURCE: The Journal of Pain

2.8 MILLION
Number of people living with MS worldwide.
SOURCE: Atlas of MS
KNOW THE BASICS ABOUT MS
By Rachel Reiff Ellis
Reviewed by Neha Pathak, MD, WebMD Lead Medical Editor

Multiple sclerosis is an autoimmune disorder, which means your body's immune system mounts a response against itself. In MS, that immune response happens in the nervous system, making it more difficult for you to see, move, or feel sensations in certain ways.

SYMPTOMS OF MS
MS is different for everyone, but its symptoms are all related to the lesions (the areas of damage) on nerves in the body. The symptoms you get depend on where the lesions are.

“For example, if you have lesions on your spinal cord, you’re more likely to have problems with walking or using your hands,” says Cherie Binns, a registered nurse and patient healthcare liaison with the Multiple Sclerosis Foundation.

“Lesions in the brain tend to create more vision and cognitive issues. So one person might have visual impact and very little else, while another person might have weakness on one side or the other.”

About 85% of people with MS have the relapsing-remitting form of the disease. This type of MS involves periods of “attacks” or relapses of symptoms that can last for weeks to months at a time and then go away.

“You may feel like you’ve completely recovered and then it hits again,” Binns says. “And the only way to prevent it from hitting again is getting on to a medication that is effective at treating MS and staying on it.”

TREATMENT FOR MS
There isn’t a cure for MS, but there are treatments that help you recover more quickly from relapses, manage symptoms, and even change the way the disease progresses in your body.

“Disease-modifying therapies, also referred to as DMTs, modify the course of the disease,” Binns says. “If started early and maintained, many people at the outset of their disease who go on therapy will never develop a progressive form of MS and will continue to be productive members of society.”

WHO GETS MS?
Experts don’t know what causes MS or why some people get it more often than others. But there are some risk factors for the disease.

You’re at a slightly higher risk of getting it if a family member has it. Women are two to three times more likely to get it than men. Certain infections such as the Epstein-Barr virus may trigger it, and other factors such as obesity, smoking, and low levels of vitamin D increase your chances. Your race plays a part in your risk, too.

“We are now finding out that it is more common in persons of African descent than we ever knew before,” Binns says. “Women of African descent are being diagnosed at twice the rate of any other demographic, and men of African descent tend to have a more aggressive course of the disease.”

THE FUTURE OF MS
Binns is not only a longtime MS nurse, but she’s also lived with MS for almost 50 years. Her message? Be gentle on yourself and have hope.

“When I was diagnosed, there was only one medication available,” she says. “We now have more than 25 different medications that treat all types of MS on the market. There are still ramifications of MS, but now that I’m on one of the newer, more highly effective treatments, I walk without assistance, I drive, and I work full time. I’m very productive. MS is not a death sentence.”
HOW MS CAN CHANGE OVER TIME

LEARN MORE ABOUT THE PROGRESSION OF YOUR DISEASE

By Rachel Reiff Ellis
Reviewed by Neha Pathak, MD, WebMD Lead Medical Editor

It’s hard for doctors to predict how your MS will progress over time. Typically, the disease starts with periods of relapses (episodes of symptoms) followed by remission (recovery). This is why the most common form of MS is called “relapsing-remitting.” But the time between these periods and the severity of them varies widely from person to person.

“Progression is different for each patient,” says Lauren Tardo, MD, a neurologist at UT Southwestern’s Peter O’Donnell Jr. Brain Institute in Dallas, TX. “I like patients to know that we don’t typically expect to see rapid progression, and some patients may even reach a plateau point.”

PROGRESSION SIGNS

An MS relapse starts when nerves in the brain and spinal cord swell or get irritated and lose the coating (myelin) that surrounds and protects them. A plaque forms around them instead. Relapses can come on without warning, but sometimes they happen after a period of stress or illness in your life.

“Early on it’s going to be those discrete episodes, typically very clear new neurological symptoms that progress or persist over 24 hours,” Tardo says. “It’s very important that you contact your medical team when this happens.”

Other signs of relapse are trickier to see, such as changes in walking ability or cognitive changes you’d only notice over a period. Also tricky: just because you’re having MS symptoms doesn’t necessarily mean your disease is getting worse.

“It’s important to understand that not all symptoms equal progression,” says Tardo. “It’s very common to have an ebb and flow of symptoms, most notably the fatigue component that so many patients experience.”

TAKING CONTROL

With good MS management, including medical treatments and healthy lifestyle habits, you can help slow the potential progression of your disease.

“Today we have over two dozen medications specific for MS that have shown benefit in reducing the relapses, prevent the appearance of new lesions on MRI, and even able to slow the worsening symptoms that may become evident in between the relapses,” says Bianca Weinstock-Guttman, MD, SUNY distinguished professor in the Department of Neurology at Jacobs School of Medicine and Biomedical Sciences at the University at Buffalo.

Early treatment and following treatment plans closely are both key to preventing disease progression, Weinstock-Guttman says. As part of this prevention, your doctor will want to monitor your disease status during clinic visits with MRI evaluations to see how well treatment is working.

“The goal of early, aggressive treatment is to prevent relapses or new neurological events,” Tardo says. “Our newer therapies are good at this. Over time, the disease tends to transition to a progressive phase, for which treatments are limited. This is a high-priority area of current MS research, and there is ongoing work to solve the question of how to control MS progression later in the disease.”

PREVENTING PROGRESSION

Bianca Weinstock-Guttman, MD, shares healthful habits for MS management.

+ Healthy diet
+ Vitamin D supplements
+ Regular exercise
+ Good sleep
+ Don’t smoke
I have always been healthy. I’ve been to the hospital twice in my life—to deliver my son and my daughter. I never had high blood pressure. I ate healthy—not a lot of fried foods, lots of vegetables. I wasn’t perfect. I’ve always had a small frame, so I didn’t exercise much. I also didn’t get much sleep—normally about 4 hours per night. And I haven’t been great about keeping up with my annual physical exams. Last year, I said I would change that. But then everything changed on its own.

FROM WELL TO WHIRLWIND
In February 2023, I woke up and it felt like I couldn’t see as clearly out of my right eye. I thought it was because I was tired from staying up the night before. When my vision hadn’t changed after several days, I went to my eye doctor about three times. We tried hard contacts and drops. I hadn’t experienced anything like this before. It was almost like I was looking through something. I knew this was an issue. I’m thinking, I need this eye to see! He referred me to a neuro-ophthalmologist. That specialist did eye tests, but this time they added an MRI. I got my results and he said the MRI showed white lesions caused by inflammation of my optic nerve. That was it! It was like I was looking through lesions. Then he said, the results are often a sign of MS (multiple sclerosis). I thought, “Is this the MS I think it is?” From there he referred me to a neurologist. While waiting for the neurology appointment, he put me on a few rounds of IV and oral steroids to decrease the inflammation in my eye. It helped a bit.

LEARNING A NEW WORLD
It took a while to get an appointment with the first neurologist, so while I waited, I worked on getting another appointment. It was essential for me to have two different opinions to compare. I wanted to find doctors of color because that’s important to me. I finally went to my neurology appointment. My husband came with me and there was so much information to digest. It was late spring, and the doctor confirmed relapsing-remitting MS (RRMS). That was the bad news. The good news was that there are so many more treatment options now. Also, I’m blessed to not have a lot of symptoms right now. Still, it can be overwhelming, but I try not to worry and just take one day at a time.

LIVING WITH MS
With MS, everyone doesn’t have the same symptoms or treatments. Once I got my diagnosis, I asked a lot of questions. I began reaching out to find support. I found out I had a cousin with it and never knew. I found a sorority sister with it. It’s been helpful to talk to others who understand. Once I got my diagnosis, I took a week off work. I decided with my doctor’s input to pursue a more aggressive treatment up front after doing some research. It meant I would go to the doctor more often, but hopefully it wouldn’t deplete my white blood cells—leaving me at risk of getting sick. (I have young kids and my husband is a pastor, so I’m around people a lot.)

Every month I go in for IV treatment that lasts about an hour. I have to wait an hour afterward and will normally rest or work from home the rest of the day. I feel OK. My recent MRI showed another lesion. I’m figuring things out and making needed changes. I prioritize sleep—understanding now its connection to the brain. Some things I just have to let go of so I can get the rest I need. I’m still busy with my family, community work, and decorating our new family home. I’ve learned a lot through this process—mainly that you must keep living.
**NUTRITION, EXERCISE, AND LIFESTYLE**

**MAKING HEALTHY CHOICES CAN IMPROVE YOUR QUALITY OF LIFE**

By Kendall K. Morgan
Reviewed by Neha Pathak, MD, WebMD Lead Medical Editor

Nutrition, exercise, and a healthy lifestyle are important for anyone. When you have MS, it’s even more important to care for yourself in ways that may improve your overall health. Taking the first steps won’t be easy, says Kathy Zackowski, PhD, associate vice president for research at the National MS Society in Baltimore, MD. Give yourself some time to think it through before you jump in, she says.

**CONSIDER YOUR DIET**

There’s no specific or proven “MS diet,” Zackowski says. But any improvements you can make in your eating habits can go a long way toward protecting your general health and the health of your nervous system.

Some general recommendations include prepping and cooking meals at home as much as you can. Eat plenty of fresh fruits and veggies each day. Choose whole grains over those that are more refined, and limit foods that are heavily processed or high in added sugars.

**GET MOVING**

An active lifestyle including planned exercise can improve your health and MS symptoms, including fatigue, depression, and anxiety, Zackowski says. She says there’s also growing evidence it may have benefits for the nervous system itself, not just how you feel.

“Write down goals and feelings associated with the goals,” she says. “Talk to friends and family to help you shape your thoughts about what is possible.”

Remembering that most wellness strategies come with low risk and cost compared to medical interventions may help you find some motivation. Once you’ve put your personal goals together, she says, reach out to your doctors and share your plans with them. As you get going, remember that you can make any needed adjustments as you work up to your larger goals.

“Getting started is often the hardest part,” Zackowski says. “It is important to keep in mind that there are lots of options for addressing your overall health.”

**MAKE YOUR MENTAL HEALTH A PRIORITY**

**LEARNING COPING STRATEGIES EARLY WILL SET YOU ON A PATH TO SUCCESS**

By Kendall K. Morgan
Reviewed by Neha Pathak, MD, WebMD Lead Medical Editor

Finding out you have MS can be overwhelming. Many people with MS also have anxiety, depression, or other mental health challenges even before the diagnosis, says Meghan Beier, PhD, a rehabilitation neuropsychologist at Johns Hopkins Medicine in Baltimore.

“About half of people at the time of diagnosis already experience symptoms of depression and 40% have symptoms of anxiety,” Beier says. “Not only that, but more than half are experiencing impactful fatigue and chronic pain symptoms. When you put all of that together—not even considering the other neurologic symptoms—that can all impact somebody’s mental health and quality of life.”

**LEARN COPING SKILLS**

Thinking about ways to prioritize your mental health when you’re worried about your physical health may sound daunting. But, Beier says, it can help to learn some new strategies and coping skills early on. Ask if your clinic offers counseling or other therapy sessions for people newly diagnosed with MS or chronic illnesses in general.

If you don’t have easy access to a counselor, she says it may help to dig into self-help books you already have. Beier’s favored approach for chronic illnesses is known as acceptance and commitment therapy. It focuses on accepting your feelings as natural responses to your life circumstances that don’t prevent you from moving forward.

“Acceptance and commitment therapy is focused more on how to live out the values that are important to you despite having [a condition] you can’t get rid of,” Beier says. “Learning core skills in those areas can be effective.”

**FIND CONTROL AND FOCUS**

Another approach to coping with a new MS diagnosis involves identifying the things in life you can control. You’ll work toward focusing attention primarily in areas you can affect or change less on anything outside of that, Beier explains. To make mental health a priority, it also helps to ensure you’re taking time to do things in life that bring you joy.

“When people put time, attention, and energy on things that are valuable and important to them that they can still do, it tends to make them feel better,” Beier says.

“Take a fresh look at the way you’re prioritizing your mental health. When you can tolerate uncertainty and have good coping skills, we see people tend to do better over time even if the disease progresses in a way they didn’t want,” she says.

**TACKLING STRESS**

For good mental health, it helps to minimize and manage your stress. Some ways to lower stress include:

- Deep breathing
- Meditation
- Exercise or team sports
- Journaling
- Hobbies
- Tai chi
- Social time
- Yoga

Healthy lifestyle choices are yours to make, but you can get help, too. Ask your doctor if you should consider seeing rehabilitation experts or others, including:

- Occupational therapists
- Psychologists
- Physical therapists
- Exercise scientists
Once you’ve confirmed you have MS, you’ll need to weigh your treatment options. It’s best to see a doctor who specializes in MS. Some therapies can help with symptoms you’re having related to damage that’s already happened. Treatments for the MS itself, known as disease-modifying therapies (DMTs), will target the disease to help you avoid relapses and slow progression.

“A DM can help you accomplish the same thing, which is to reduce inflammation that contributes to symptoms and creates new damage in the central nervous system,” says Ari J. Green, MD, a neurologist and medical director of the UCSF Health Multiple Sclerosis Center in San Francisco. “The purpose of [treatment] would be to reduce or eliminate new inflammatory injury.”

**Consider Your Options**

Green says that the many treatment options now available thanks to progress in treating MS can feel overwhelming. “That’s the critical point.”

**Taking Aim at MS**

Many of your top treatment options will work in about the same way, by targeting the immune B cells that contribute to MS. “For the newly diagnosed, to make the conversation simple and straightforward, the question is, what do you want to achieve? What are your long-term life goals? If that includes maximal reduction in disability, then you’re likely talking about high-efficacy treatments, the majority of which target B cells.”

Ask your doctor about any differences to consider, including how often you’ll need treatment, and whether you can take it yourself or need an infusion. You also should check your insurance plan to see which medicines it will cover, Green says.

While medicines today can’t reverse symptoms you already have or repair the damage to your nervous system that’s already done, they can slow or stop the MS and its symptoms from getting worse. Treating your MS early, aggressively, and consistently is the best way to manage your disease and do all you can to avoid permanent disability, Green says.

**Safety Information**

**Who should not take KESIMPTA?**

Do not take KESIMPTA if you have active hepatitis B virus (HBV) infection.

**What is the most important information I should know about KESIMPTA?**

KESIMPTA can cause serious side effects such as:

- **Infections.** Serious infections, which can be life-threatening or cause death, can happen during treatment with KESIMPTA. If you have an active infection, your health care provider (HCP) should delay your treatment with KESIMPTA until you, your infection is gone, KESIMPTA taken before or after other medicines that weaken the immune system may increase your risk of getting infections. Tell your HCP right away if you have any infections or get any symptoms including painful and frequent urination, nasal congestion, runny nose, sore throat, fever, chills, cough, or body aches.
- **HBV reactivation.** If you have ever had HBV infection, it may become active again during or after treatment with KESIMPTA (reactivation). If this happens, it may cause serious liver problems, including liver failure or death. Before starting KESIMPTA, your HCP will do a blood test to check for HBV. They will also continue to monitor you during and after treatment with KESIMPTA for HBV. Tell your HCP right away if you get worsening tiredness or yellowing of your skin or the white part of your eyes.
- **Progressive Multifocal Lymphocryptovirus (PML).** PML may happen with KESIMPTA. PML is a rare, serious brain infection caused by a virus that may get worse over days or weeks. PML can result in death or severe disability. Tell your HCP right away if you have any new or worsening neurologic signs or symptoms. These may include weakness on one side of your body, loss of coordination in arms and legs, vision problems, changes in thinking and memory, which may lead to confusion and personality changes.

**Weakened immune system.** KESIMPTA taken before or after other medicines that weaken the immune system could increase your risk of getting infections. Before you take KESIMPTA, tell your HCP about all your medical conditions, including if you:

- Have or think you have an infection including HBV or PML.
- Have ever taken, currently take, or plan to take medicines that affect your immune system. These medicines could increase your risk of getting an infection.
- Have had a recent vaccination or are scheduled to receive any vaccinations.

**Vaccinations.** You should not receive ‘live’ or ‘live-attenuated’ vaccines at least 2 weeks before you start treatment with KESIMPTA. You should not receive ‘live’ or ‘live-attenuated’ vaccines while you are being treated with KESIMPTA and until your HCP tells you that your immune system is no longer weakened. Whenever possible, you should receive any ‘non-live’ vaccines at least 2 weeks before you start treatment with KESIMPTA.

- Talk to your HCP about vaccinations for your baby if you used KESIMPTA during your pregnancy.

- Are pregnant, think that you might be pregnant, or plan to become pregnant. It is not known if KESIMPTA will harm your unborn baby. Females who can become pregnant should use birth control (contraception) during treatment with KESIMPTA and for 6 months after your last treatment. Talk with your HCP about what birth control method is right for you during this time.

- Are breastfeeding or plan to breastfeed. It is not known if KESIMPTA passes into your breast milk. Talk to your HCP about the best way to feed your baby if you take KESIMPTA.

Tell your HCP about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

**How should I use KESIMPTA?**

See the detailed Instructions for Use that comes with KESIMPTA for information about how to prepare and inject a dose of KESIMPTA and how to properly throw away (dispose of) used KESIMPTA, Senseo-ready pens or prefilled syringes. Please see additional Important Safety Information on back cover and the accompanying Consumer Brief Summary on the following page.
KESIMPTA can cause serious side effects, including:

- Infections. Serious infections, which can be life-threatening or cause death, can happen during treatment with KESIMPTA. If you have an active infection, your healthcare provider should delay your treatment with KESIMPTA until your infection is gone. KESIMPTA taken before or after other medicines that weaken the immune system may increase your risk of getting infections.

Tell your healthcare provider right away if you have any infections or get any symptoms including painful and frequent urination, nasal congestion, runny nose, sore throat, fever, chills, cough, or body aches.

- Hepatitis B virus (HBV) reactivation. Before starting treatment with KESIMPTA, your healthcare provider will do blood tests to check for HBV. If you have ever had HBV infection, the HBV may become active again during or after treatment with KESIMPTA. Hepatitis B virus becoming active again (called reactivation) may cause serious liver problems including liver failure or death. You should not receive KESIMPTA if you have active hepatitis B liver disease. Your healthcare provider will monitor you for HBV infection during and after you stop using KESIMPTA. Tell your healthcare provider right away if you get worsening tiredness or yellowing of your skin or white part of your eyes during treatment with KESIMPTA.

- Progressive Multifocal Leuкоencephalopathy (PML). PML may happen with KESIMPTA. PML is a rare, serious brain infection caused by a virus that may get worse over days or weeks. PML can result in death or severe disability. Tell your healthcare provider right away if you have any new or worsening neurololgic signs or symptoms. These may include weakness on one side of your body, loss of coordination in arms and legs, vision problems, changes in thinking and memory which may lead to confusion and personality changes.

Weakened immune system. KESIMPTA taken before or after other medicines that weaken the immune system could increase your risk of getting infections.

What is KESIMPTA? KESIMPTA is a prescription medicine used to treat adults with relapsing forms of multiple sclerosis (MS) including:

- clinically isolated syndrome
- relapsing-remitting disease
- active secondary progressive disease

It is not known if KESIMPTA is safe or effective in children.

Do not use KESIMPTA if you:

- have active hepatitis B virus infection.

Before using KESIMPTA, tell your healthcare provider about all of your medical conditions, including if you:

- have or think you have an infection, including HBV or PML. See "What is the most important information I should know about KESIMPTA?"
- have ever taken, currently take, or plan to take medicines that affect your immune system. These medicines could increase your risk of getting an infection.
- have had a recent vaccination or are scheduled to receive any vaccination.
- You should receive any required ‘live’ or ‘live-attenuated’ vaccines at least 4 weeks before you start treatment with KESIMPTA. You should not receive ‘live’ or ‘live-attenuated’ vaccines while you are being treated with KESIMPTA and until your healthcare provider tells you that your immune system is no longer weakened.
- Whenever possible, you should receive any ‘non-live’ vaccines at least 2 weeks before you start treatment with KESIMPTA.

Talk to your healthcare provider about vaccinations for your baby if you used KESIMPTA during your pregnancy.

- are pregnant, think that you might be pregnant, or plan to become pregnant. It is not known if KESIMPTA will harm your unborn baby. Females who can become pregnant should use birth control (contraception) during treatment with KESIMPTA and for 6 months after your last treatment. Talk with your healthcare provider about what birth control method is best for you during this time.
- are breastfeeding or plan to breastfeed. It is not known if KESIMPTA passes into your breast milk. Talk to your health care provider about the best way to feed your baby if you take KESIMPTA.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I use KESIMPTA?

See the detailed Instructions for Use that comes with KESIMPTA for information about how to prepare and inject a dose of KESIMPTA and how to properly throw away (dispose of) used KESIMPTA Sensoready® pens or prefilled syringes.

- Use KESIMPTA exactly as your healthcare provider tells you to use it.
- KESIMPTA is given as an injection under your skin (subcutaneous injection), in your thigh or stomach-area (abdomen) by you or a caregiver. A caregiver may also give you an injection of KESIMPTA in your upper arm.
- Your healthcare provider will show you how to prepare and inject KESIMPTA the right way before you use it for the first time.
- Do not inject into areas where the skin is tender, bruised, red, scaly or hard. Avoid areas with moles, scars or stretch marks.
- The initial dosing is 20 mg of KESIMPTA given by subcutaneous injection at Weeks 0, 1, and 2. There is no injection at Week 3. Starting at Week 4 and then every month, the recommended dose is 20 mg of KESIMPTA administered by subcutaneous injection.
- If you miss an injection of KESIMPTA at Week 0, 1, or 2, talk to your health care provider. If you miss a monthly injection, give it as soon as possible without waiting until the next scheduled dose. After that, give your KESIMPTA injections a month apart.

What are the possible side effects of KESIMPTA? KESIMPTA may cause serious side effects, including:

- Injection-related reactions. Injection-related reactions is a common side effect of KESIMPTA. Injecting KESIMPTA can cause injection-related reactions that can happen within 24 hours (1 day) following the first injections and with later injections. Talk with your healthcare provider if you have any of these signs and symptoms:
  - at or near the injection site: redness of the skin, swelling, itching, pain or
  - that may happen when certain substances are released in your body: fever, headache, pain in the muscles, chills, and tiredness.
- Low immunoglobulins. KESIMPTA may cause a decrease in some types of antibodies. Your health care provider will do blood tests to check your blood immunoglobulin levels.

The most common side effects of KESIMPTA include:

- upper respiratory tract infection, with symptoms such as sore throat and runny nose, and headache.
- eye problems, pain in the upper eyelids, injection at Week 3. Starting at Week 4 and then every
- needle, KESIMPTA may be stored for up to 7 days at room temperature, up to 86°F (30°C).
- Write the date taken out of the refrigerator in the space provided on the carton.
- If stored below 86°F (30°C), unused KESIMPTA may be returned to the refrigerator and must be used within the next 7 days. If this KESIMPTA is not used within those 7 days, then discard the medicine.
- Do not freeze KESIMPTA.
- Do not shake KESIMPTA.

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

General information about the safe and effective use of KESIMPTA.

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

What are the ingredients in KESIMPTA?

Active ingredient: ofatumumab

Inactive ingredients: Sensoready pen and prefilled syringes: arginine, disodium edetate, polysorbate 80, sodium acetate trihydrate, sodium chloride, and Water for Injection. Hydrochloric acid may be added.
When I talked to my doctor about KESIMPTA for RMS, I knew it would be the right treatment choice for me.”

— JAMIE-LYNN SIGLER
Mom, Actor, MS Advocate
Switched to KESIMPTA® in 2023

Important Safety Information (cont)

- Use KESIMPTA exactly as your HCP tells you to use it.
- Your HCP will show you how to prepare and inject KESIMPTA the right way before you use it for the first time.
- Do not inject into areas where the skin is tender, bruised, red, scaly or hard. Avoid areas with moles, scars, or stretch marks.

KESIMPTA may cause serious side effects including:
- Injection-related reactions. Injection-related reactions are a common side effect of KESIMPTA. Injecting KESIMPTA can cause injection-related reactions that can happen within 24 hours (1 day) following the first injections and with later injections. Talk with your HCP if you have any of these signs and symptoms:
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- Low immunoglobulins. KESIMPTA may cause a decrease in some types of antibodies. Your HCP will do blood tests to check your blood immunoglobulin levels.

The most common side effects of KESIMPTA include:

- Upper respiratory tract infection, with symptoms such as sore throat and runny nose, and headache.
- Headache.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call 1-800-FDA-1088.

Please see additional Important Safety Information and the accompanying Consumer Brief Summary inside.