

Where is the RNS System available?

The RNS System is currently available at most comprehensive epilepsy centers (CECs) throughout the United States. CECs are specialized epilepsy centers that have a team of experts who can provide a complete evaluation for epilepsy. AdventHealth is the only health care system in Central Florida with this innovative technology and has the only Level 4 Epilepsy Center in Central Florida for both adults and children—the highest designation for comprehensive, quality care.

For more information or to schedule an appointment, please call 407-303-7520.



AdventHealth Epilepsy Center
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ATENCIÓN: si habla español, tiene a su disposición servicios gratuitos de asistencia lingüística. Llame al número siguiente 407-303-3025.

ATANSYON: Si w pale Kreyòl Ayisyen, gen sèvis èd pou lang ki disponib gratis pou ou. Rele nimewo ki anba an 407-303-3025.

The NeuroPace RNS[®] System

Seizure-Control Therapy Device



Stop Seizures Before They Get Started

The NeuroPace RNS® System is the world's first and only closed-loop brain responsive neurostimulator, designed to prevent epileptic seizures. When surgically implanted into the brain, it works to recognize each patient's unique "seizure fingerprint." Within milliseconds of detecting unusual brain activity, the device sends brief pulses that instantly disrupt this activity and normalize brainwaves, often preventing a seizure and before symptoms can be felt.

The RNS System is a proven treatment option for adults who have disabling seizures that are not controlled by medication. Unlike most epilepsy treatments that deliver therapy continuously, this smart device responds only when seizure activity is detected. The system offers an ideal alternative for patients who are not surgical candidates.

Around-the-Clock Monitoring

The RNS System is the only epilepsy therapy that also provides physicians clinical data about their patients' seizure frequency and activity. The device collects ongoing information that can be uploaded to a secure database that your doctor can access at any time. This insightful data provides a "window to the brain," ensuring that therapies are optimized based on very specific individual care needs.

Frequently Asked Questions

Who is a candidate for the RNS System?

The RNS System is for individuals 18 and older who have tried at least two anti-seizure medications, but still suffer from frequent and disabling partial-onset seizures that come from one or two areas of the brain. Talk with your doctor to find out if the RNS System is right for you.

Will insurance cover the RNS System?

The RNS System is broadly covered by private and government insurance.

What are the potential benefits?

Seizure reduction: In clinical studies, patients treated with the RNS System experienced significant seizure reduction - that continued to improve over time. They achieved 60% seizure reduction after three years and 66% seizure reduction at the six-year mark.

Improved quality of life: Patients treated with the RNS System reported statistically significant improvements in mood and overall quality of life, including physical health, mental health, cognition and a reduction in seizure anxiety.

Reversible: The RNS System is non-destructive to brain tissue and does not cause any neurocognitive deficits. And it's reversible with a simple outpatient procedure.

Can I expect to be seizure-free?

Although you should not expect to be free from seizures with the RNS System, a subset of patients report experiencing seizure-free periods.

- 36% had at least one three-month period without a seizure
- 23% had at least one six-month period without a seizure
- 13% had at least one yearlong period without a seizure

How long will I stay in the hospital after my surgery?

Most patients stay one to two nights in the hospital before going home. After returning home, typically you can resume normal activities. Your medical team can provide additional details tailored to your specific health care needs.

How often does the battery in the implant have to be replaced?

At medium stimulation and detection settings, the battery in your neurostimulator is estimated to last about eight years. Your doctor will let you know when it needs to be replaced. During a replacement procedure, the surgeon will remove the old neurostimulator from the tray that is secured in the skull and replace it with a new one. Replacement procedures are typically done in an outpatient setting and last about an hour.

Can the RNS System be removed if I change my mind?

Yes, the RNS System can be turned off and you can have it removed, but it is not necessary. The neurostimulator and leads are designed so they can be left in place even when no longer delivering therapy.

Will I be able to stop taking my anti-seizure medications?

The RNS System is considered a complementary treatment to your medications. Your doctor would make a final determination regarding any change in your medications.

Will I be able to go through airport security?

You will not have any travel restrictions with the RNS System. Airport scanners will not damage the system, but could temporarily disrupt stimulation. You may want to inform the airport or security personnel that you have the RNS System by showing your medical implant identification card.