

Meet Hannah*

Hannah is a 25 year old living with intractable epilepsy.

Hannah's diagnostic odyssey lasted into adulthood

**7
months
old**

As an infant, Hannah experienced two seizures. She was referred to a pediatric neurologist but was not immediately prescribed anti-seizure medications (ASMs). She was eventually diagnosed with epilepsy with focal onset seizures and started her first ASM.

It took time to find a combination of ASM's that kept Hannah's seizures under control and medication adjustments were continually made. She began to experience tonic-clonic seizures, which required further ASM adjustments from her neurologist. She was also diagnosed with developmental delay and eventually mild intellectual disability.

**8
months -
6
years**

**13
years
old**

Hannah's seizures worsened. While she previously could go months without a seizure, she was now experiencing frequent breakthrough seizures. Multiple ASM adjustments occurred, and she had a vagus nerve stimulation device implanted.

As an adult, Hannah continued to experience monthly tonic-clonic seizures and adjustments to her numerous ASMs. Her neurologist referred her to a genetics clinic for exome sequencing.

Hannah's exome test results identified a de novo pathogenic loss-of-function variant in *SCN1A*. An earlier diagnosis could have resulted in earlier seizure control since many of Hannah's previous medications were contraindicated with her specific *SCN1A* variant.

**25
years
old**

Hannah's diagnosis brought clarity to:

- her symptoms
- future family planning and reproductive counseling for her and her siblings
- medical management for her neurologist

