



August 2023-November 2023
Topic #8:
Seizures and Genetics



It's **TIME** to **KICK-off** Topic #8:

Seizures

For the next 4 months we will explore the topic of
NBS in various ways:

August: Newsletter (you are reading that now!)

September: Webinar (**coming up on Sept. 26th, register [HERE](#)**)

October: Check your Snail Mailbox for some MAIL!

November: Family Centered Perspectives & Conversation

Please take ONE hour (or more!) to review the resources in this newsletter and please **TAKE THE SURVEY** below!

We thank you for taking TIME 4 GENETICS!
You can access the T4G Library Archives [here](#).

Register NOW!

September 26, 2023

(at 11am PT, noon MT, 1pm CT, and 2pm ET)

Webinar:
**The Genetics of Pediatric Seizures
and Epilepsy**

CME and CEU is available



JOIN US FOR THE TIME 4 GENETICS WEBINAR:

THE GENETICS OF PEDIATRIC SEIZURES AND EPILEPSY



September 26, 2023

(at 11am PT, noon MT, 1pm CT, and 2pm ET)



Guest Presenter:
Amanda G. Sandoval Karamian, MD
Assistant Professor of Pediatric
Neurology & Epilepsy
University of Utah | Primary
Children's Hospital

*MSRGN's Time 4 Genetics Initiative is a primary
care provider genetics education program
focusing on pediatric genetic topics.*

[Register Here](#)

This initiative is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$600,000.00 with 0 percent financed with non-governmental sources. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA, HHS, or the U.S. Government. For more information, please visit HRSA.gov.



In support of improving patient care, this activity has been planned and implemented by Mountain States Regional Genetics Network and Projects In Knowledge®. Projects In Knowledge is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

The Genetics of Pediatric Seizures and Epilepsy

September 26, 2023

(at 11am PT, noon MT, 1pm CT, and 2pm ET)

featuring Guest Presenter:

Amanda G. Sandoval Karamian, MD

Assistant Professor of Pediatric Neurology & Epilepsy
University of Utah Primary Children's Hospital

To register please click: [here](#)

For a clickable and ready to share PDF version of this flyer please
download: [here](#)

[Register Here](#)

Resources for TOPIC #8: Seizures

We encourage you to take an hour (or more!) to read the information below. Feel free to forward and share this newsletter with your staff and colleagues.



Video from:
The Epilepsy Foundation
**Epilepsy and
Genetics: The Basics**

Topics

The basics of genes and genetic testing

What do we know about the genetics of epilepsy?

What are the benefits and limitations of testing?

What genetic tests are available for people with epilepsy?

How do I go about getting testing and insurance coverage?



**Genetic Testing and
Counseling for the
Unexplained Epilepsies:
An Evidence-based
Guideline of the National
Society of Genetic
Counselors**

"Epilepsy, defined by the occurrence of two or more unprovoked seizures or one unprovoked seizure with a propensity for others, affects 0.64%

Guest Speaker
Beth Rosen Sheidley, MS, CGC
Co-Director, Epilepsy Genetics
Program
Senior Genetic Counseling Program
Manager
Division of Epilepsy, Department of
Neurology
Boston Children's Hospital
Boston, MA

Recorded: January 22, 2020

[Watch Video Here](#)



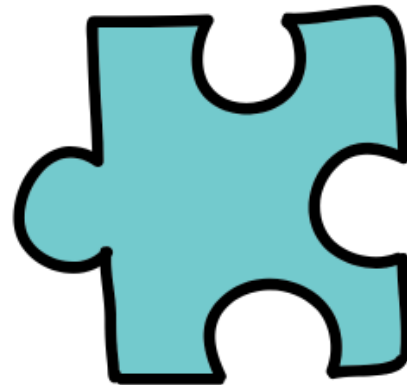
Genetic Testing
and Seizures
Resource and Video
to share with Patients and
Families

What Kinds Of Results Can I Expect From Genetic Testing?

- Positive Test Result**
 - For a person with epilepsy, a positive result means that a genetic change has been identified as the cause of his or her epilepsy diagnosis.
 - A positive result in an otherwise healthy individual could indicate that person is at risk for epilepsy.
 - Genetic testing may also give information about reproductive risks and can help clarify if and how epilepsy is inherited in a family.
- Negative Test Result**
 - A negative test result in a person with epilepsy means

of the population and can lead to significant morbidity and mortality. A majority of unexplained epilepsy (seizures not attributed to an acquired etiology, such as trauma or infection) is estimated to have an underlying genetic etiology."

[Read Paper Here](#)



News Article: Genetic Testing Provides a Missing Piece:

Two Colorado sisters had dozens of seizures every day.

Then a genetic test revealed they needed a vitamin.

[Read Article Here](#)

- that a genetic cause of epilepsy was not identified using the test that was performed.
- A negative result does not completely exclude the possibility of a genetic diagnosis.
 - In some cases, more testing may be considered.

- Uncertain Test Result**
- It is also possible to receive uncertain results from a genetic test.
 - An uncertain result means that a genetic finding was detected, but the meaning of the finding is not known.
 - These results are referred to as genetic **variants of uncertain significance (VUS)**. A VUS result may be re-interpreted at a later date when more information becomes available and could end up being re-classified as either benign (negative) or pathogenic (disease causing/positive).

(excerpt from:
<https://www.epilepsy.com/causes/genetic/testing>)

**Video for families
about Variants of
Uncertain Significance
(VUS)**



Don't forget to REGISTER for the MSRGN Genetics Summit 2023

October 11-12, 2023

*A virtual summit to educate,
engage, and connect
families, providers,
and public health
professionals around
contemporary topics in
genetics.*

Register Here

DATA TIME!

Don't Forget!

**Data from Topic #7
(Newborn Screening)
is DUE NOW!
(by 9/6/23)**

**Download the Zip Code
Collection Tool Here**

We are all done with topic #6! We hoped you enjoyed the **Newborn Screening** topic area.

Please **email Kristi** any zip codes (**download tool here**) of those

**Take Topic #7 Survey
on Newborn Screening
Here**

patients with whom you utilize any of the Time 4 Genetics information, resources, and tools! You can also include any zip code of patients you used Topic #1 (Red Flags), Topic #2 (Developmental Delays), Topic #3 (EDS), Topic #4 (Genetic Testing), Topic #5 (Autism), or Topic #6 (Cerebral Palsy) info for as well!

Email Kristi with questions or zip codes

If you have not yet had a chance to provide feedback on topic #7 (NBS) through the **evaluation/survey**, please do so. **WE HAVE GREATLY SHORTENED THE SURVEY** and it should only take you about 2-4 minutes to complete!

THANK
you

This publication and Time 4 Genetics initiative are supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$600,000 with 0 percentage financed with nongovernmental sources. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA, HHS, or the U.S. Government. For more information, please visit HRSA.gov.

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