



JOHNS HOPKINS

M E D I C I N E

Adult Glut1 Deficiency Syndrome Survey

Participation in this survey is voluntary. Please complete this survey if you are 18 years of age or older with Glut1 Deficiency Syndrome (G1DS). One survey per person with G1DS, please. Names are not recorded. Identifying individual information is not shared. Your completion of the survey or questionnaire will serve as your consent to be in this research study.

► General Information:

1. My age: _____
2. My gender: Male Female
3. My age when Glut1 Deficiency Syndrome was diagnosed: _____
4. My Glut1 Deficiency Syndrome was diagnosed by:
 - Lumbar puncture
 - Genetic Testing – SLC2A1 autosomal dominant new mutation
 - Genetic Testing – SLC2A1 autosomal dominant inherited mutation
 - Genetic Testing – SLC2A1 autosomal recessive mutation
 - Based on symptoms
 - Other: _____

Thank you for your participation in this survey.

Please continue and complete the rest of the survey.
We will share the results at the next Glut1 Deficiency Foundation meeting.

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Associate Professor of Neurology
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Director, Adult Epilepsy Diet Center



To preserve anonymity, please return survey via email to info@G1Dfoundation.org OR mail to:
Glut1 Deficiency Foundation • PO Box 737 • Owingsville, KY 40360

Glut1 Deficiency Syndrome Symptoms:

- Do you have any of the following symptoms? *(check all that apply)*
 - Seizures
 - Dystonia
 - Parkinsonian symptoms
 - Migraine
 - Mobility issues
 - Memory difficulties
 - Depression
 - Anxiety
 - Other (please write in): _____
 - Paroxysmal exertional dyskinesias (PED)
 - Alternating Hemiplegia
 - Ataxia
 - Writer's Cramp
 - Cognitive difficulties
 - Speech difficulties
 - Obsessive-compulsive tendencies
 - Sleep difficulties
- Did you have unusual eye/head movements as an infant? YES NO
- Have you noticed any triggers for your symptoms? YES NO
If yes, what are the triggers? _____

- Did symptoms change at puberty? YES NO
If yes, how did symptoms change? _____

- If female, do symptoms relate to your menstrual cycle? YES NO
If yes, how are they related? _____

- Compared to childhood, if applicable, how are seizures now?
 - 100% gone (*seizure-free*)
 - 90-99% gone (*once in a while*)
 - 50-90% better (*improved, but still frequent*)
 - 0-50% improved (*really not better*)
 - Worse
 - Seizures began as an adult
 - Never had seizures
- Compared to childhood, if applicable, how are abnormal movements now?
 - 100% gone (*free of abnormal movements*)
 - 90-99% gone (*once in a while*)
 - 50-90% better (*improved, but still frequent*)
 - 0-50% improved (*really not better*)
 - Worse
 - Movement began as an adulthood
 - Never had abnormal movements
- Have you been given any diagnosis other than Glut1 Deficiency? YES NO
If yes, please list: _____

Have you transitioned to an adult neurologist? YES NO
 If yes, was this a smooth transition? YES NO

DIET INFORMATION:

1. What diet are you receiving currently **OR** have you tried in the past?

CURRENT PAST

- Ketogenic Diet (*circle ratio*): 3:1 4:1 Other _____
- Modified Ketogenic Diet (*circle ratio*): 1:1 2:1 Other _____
- Modified Atkins Diet – Net Carbohydrates: _____g/day
- Low Glycemic Index Treatment
- Medium Chain Triglyceride (MCT) Diet
- Other (*please specify*): _____
- None/Regular

2. If you are not receiving any of these diets, why was it stopped or not started?

If you have answered NONE to 1 and 2, skip to MEDICATIONS.

3. Age at start of a ketogenic diet: _____
4. If you have switched diets, at what age? _____
 From what diet to what diet? _____
5. Are you followed at a ketogenic diet center? YES NO
6. Do you have an adult dietitian/nutritionist? YES NO
7. Has your ketogenic diet center discussed coming off the diet ever? YES NO
 If no, have they specifically said it's a lifelong treatment? YES NO
 Do you plan to stop the diet ever? YES NO NOT SURE
8. Has your ketogenic diet center discussed transitioning to the MAD? YES NO
9. Do you check ketones through: URINE BLOOD NEITHER
 If yes, what is an effective level for optimal symptom control? _____
10. Do you see a relationship between seizures and ketones?
 YES NO NOT SURE NO SEIZURES
11. Do you see a relationship between learning/behavior/mood/energy/movement problems and ketones? YES NO NOT SURE NO PROBLEMS
12. Did you see a change in ketones at puberty? YES NO
 If female, do you see a change in ketones during menstrual cycle? YES NO
 If yes, how? _____
13. Do you take ketogenic diet supplements?
 Multivitamin Calcium Polycitra / Cytra K / Potassium Citrate
 Vitamin D Carnitine Triheptanoin Other: _____
14. Have you had high cholesterol levels while on the diet? (*check all that apply*)
 CHILD ADOLESCENT/TEEN ADULT
15. Do you take medications to treat diet side effects? (*check all that apply*)
 Kidney stones High cholesterol Gastroesophageal reflux
 Constipation Other: _____
16. Do you currently have or have you ever had a feeding tube? YES NO
17. How effective is the diet in adulthood? LESS MORE SAME

Medications & Other Treatments:

1. Are you on antiseizure medications? YES NO
If yes, which one(s)? _____
2. Have you been on antiseizure medications in the past? YES NO
If yes, which one(s)? _____
3. If yes to #1 or #2, were they helpful? YES NO
4. Do you take medications for any other symptoms of GIDS? YES NO
If yes, please list the medications and what they treat.

5. Do you take any supplements (*besides those used with a ketogenic diet*) that are helpful? If so, what supplement and how does it help?

6. Do you have a Vagus Nerve Stimulator? YES NO
If yes, is it helpful?

Therapy:

1. Do you receive any of the following therapy services? (*check all that apply*)
 Speech Occupational Physical Behavioral Other: _____
2. Did you receive any of the following in the past but no longer? (*check all that apply*)
 Speech Occupational Physical Behavioral Other: _____
3. What physical activities do you find helpful? _____
4. List any assistive devices you use? _____

Social/Emotional Support:

1. Have you participated in secondary school options? YES NO
2. Have you participated in vocational rehabilitation training? YES NO
3. Did you have help with transitioning from school services to more independence?
 YES NO If yes, what kind of assistance? _____
4. What job opportunities have been available to you? (*check all that apply*)
 Volunteer work Part-time work Full-time work
 Day program Vocational program Other: _____
5. How do you handle transportation? _____
6. Are you involved in: (*check all that apply*)
 Activities with a lot of friends Activities with 1-2 friends
 Support group activities Other: _____
7. Do you live: (*check all that apply*) Alone With family With friends
 In a group home Attend a day program
8. Are you: (*check all that apply*) Single Dating Married Divorced Separated
9. Are you able to provide your own daily living skills? (*check all that apply*)
 Dressing Cooking Household chores Managing finances Driving
10. How often do you feel happy? (*check all that apply*)
 Always Almost always Frequently Sometimes Rarely Never
11. Do you receive any type of financial support? (*check all that apply*)
 SSI disability Special needs trust Waiver programs
 None Other: _____
12. Does someone have guardianship care over you? YES NO
13. Do you have children? YES NO Do they have GIDS? YES NO
14. Do you have other family members who have GIDS? YES NO