EDUCATOR'S GUIDE TO REMETHYLATION DISORDERS (CBLG & CBLE)



What is Cobalamin G and E?

CbIG and CbIE are two rare **genetic** disorders that occur when the body is unable to process vitamin B12 to methylcobalamin which is needed to synthesize methionine, an important building block for the body. CbIG and CbIE are forms of **Homocystinurias** (**HCU**). Children with CbIG/CbIE have elevated homocysteine and low methionine in their blood.

How can HCU affect the body?

The buildup of homocysteine levels can have dangerous and life-threatening impacts.

High homocysteine levels may cause:

- Feeding Difficulties, Vision Problems
- Seizures
- Poor Muscle Tone and Coordination
- Developmental Delay, Microcephaly
- Cerebral Atrophy, Neurological disorders
- Blood clots or strokes

How can I help?

Teach your student as you would anyone else. Your student with CbIG and E may need additional time or attention to keep pace with the classroom. However, your student is not 'sick'. If they follow their treatment plan, they can be just as successful as their peers.

Help to ensure that your student takes their medication(s). Peer pressure may cause children to secretly empty or hide formula. It is important your student has a place they feel safe storing and consuming their formula.

Communicate with parents and ask questions. Since you spend a fair amount of time with your student, you may be the first to notice issues related to HCU. Successful HCU management will rely on both parents and school staff communicating with each other.



Individuals with CbIG and CbIE can have strokes. If you are concerned that your student is actively having a stroke (symptoms include but this is not an extensive list: sudden confusion, loss of skills, difficulty communicating, one-sided weakness or facial droop), please seek immediate medical attention. If you feel that your student has had a stroke (in the recent or not so recent past), promptly discuss this with their parent.



Treat them the same as your other students. Your student is not sick and shouldn't be treated as such. If they follow their medication regimen they can be just as successful as their classmates

Patients can't feel when their HCY levels are high (unlike a diabetic who can feel when their insulin is low/

high). Regular blood draws are required to manage medication and mitigate negative effects. Symptoms usually occur after a prolonged period of high homocysteine levels. Levels increase gradually, they do not spike suddenly.







Possible Medication Side Effects

- Bruising
- Circular redness for injection site
- Stomach upset
- Unpleasant body odor/breath (often described as fishy)
- Nausea



EDUCATIONAL **ACCOMODATIONS**

Children with cblG/cblE may experience challenges at school. It is important to meet with the student and their family prior to the beginning of the school year to discuss what, if any, accommodations may be needed to ensure the student's educational success. These accommodations may be in the form of a 504 plan, IHP or IEP, depending on the student and their needs.

CbIG/cbIE impacts the whole body. Some students may need additional services.

- Vision Itinerant
- Reading Help
- Speech, OT or PT
- Counseling
- Occupational Therapy
- Protection from bullying
- Ensure that ALL teachers and staff members are aware of the students' condition and accommodations. (related arts, school nurse, administrators, cafeteria staff, etc)
- If the student rides a bus, you may need to make the accommodations available to their bus driver.

CLASSROOM ACCOMODATIONS

- Preferential seating
- Modified textbooks or audio-visual materials
- Oral test and visual aids
- Low vision Accommodations
- Easy access to bathroom and/or nurse
- Accommodations for fine and gross motor activities
- · Assisting with self-help skills
- Access to assistive technology

SNACK OTHER **ACCOMODATIONS TO CONSIDER**

- * Your student may need to establish a time during the school day to go to the school nurse for medication.
- # If necessary, please allow your student to consume an approved snack before taking medication as it helps alleviate nausea and stomach pain.

Even though cblG/cblE is a metabolic disorder, your student should not need a special diet. Check with your students guardian to make sure snacks given out during parties are okay.

Communication is key!

should you notice anything that seems 'off' with your student.



