





#### Part 1

- Genetics 101 review
- Why does genetics matter for EI?
- "Red Flags" for genetics in children

#### Part 2

- Who is NYMAC and what do we do in VA?
- Who are the Virginia Genetic Navigators (GNS) and what do they do?
- How can NYMAC and VA's GNs be a resource for El professionals?

8







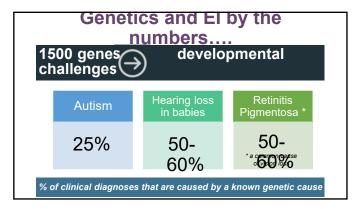
## Why is genetics important?

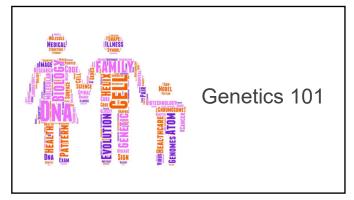
Because some health challenges can be caused by changes in our genes.

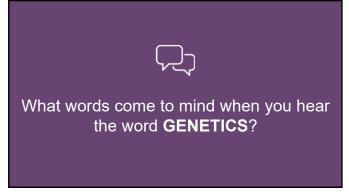


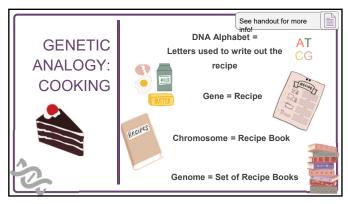


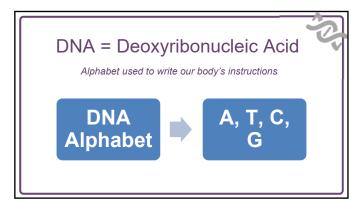


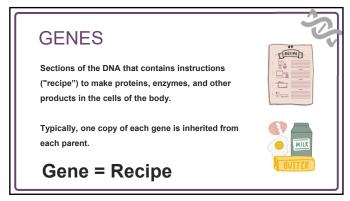


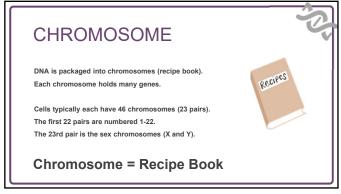


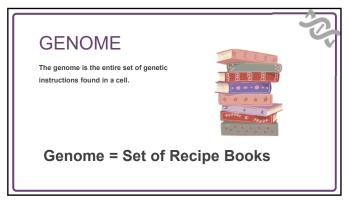


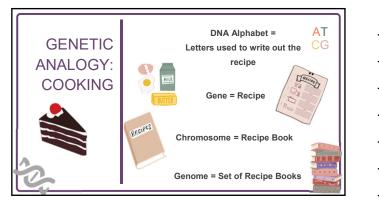












How can genetic changes lead to health challenges and disability?

19

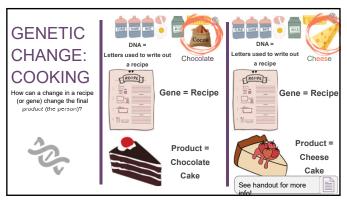
#### **GENETIC CHANGES**

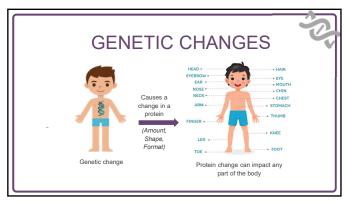
...do not always cause health challenges

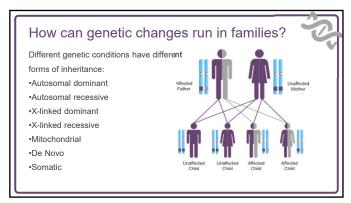
Mutations/pathogenic variants = changes in genes that can cause needed products to form and/or function differently

Can have very big changes or very small changes

20

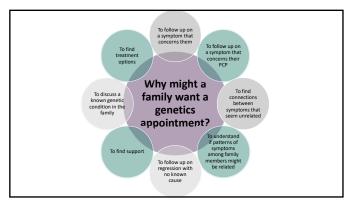








Why might a family want a genetics appointment?

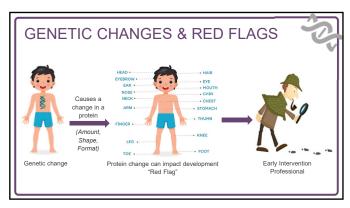




26

All genetic conditions are detected at birth All genetic Every childhood conditions are untreatable or condition is caused by genetics through NBS uncurable A genetic diagnosis All genetic changes All genetic testing is cannot help a child cause disease very expensive thrive CREDIT: MSRGN's Genetic Connections For Early Intervention Professionals Workshop







## Genetics & Development

What are some genetic conditions that the children you've worked with have had?

Has anyone on the call today ever suspected that a health condition in a family that you're working with might run in their family (but there's nedicarpaints). no diagnosis yet)?



31

#### Overlap Between Developmental Red Flags And Genetics Red Flags

Example: Developmental delay and hypotonia may be a "red flag" for conditions such as autism or various genetic conditions



32

## A visit to a genetics specialist can be helpful if you are concerned about your child's...

















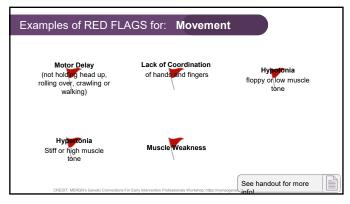


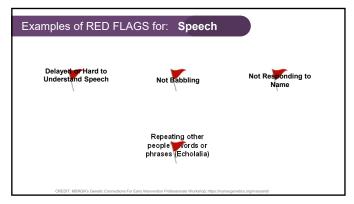


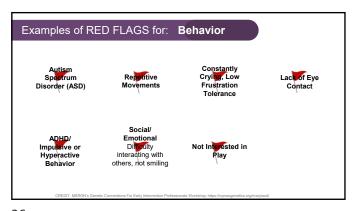


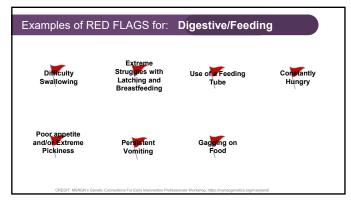
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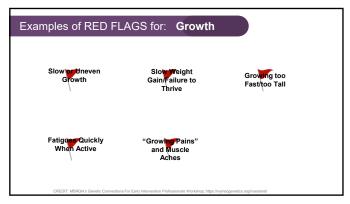
- you or your partner have been told you have a higher chance to have a child with a health issue
  you have a family member with a genetic condition
  you believe your family's medical issues could have a genetic explanation

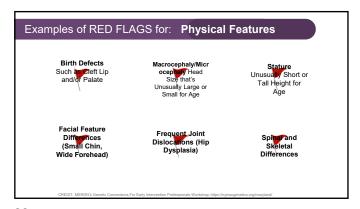


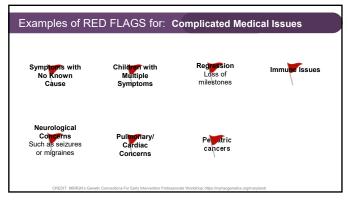




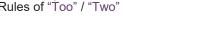








### Other Red Flags The Rules of "Too" / "Two"



- · TOO tall
- · TWO tumors
- · TOO short
- TWO generations
- · TOO early
- · TWO in the family · TWO birth defects
- · TOO many
- · TOO young
- · TOO different
- · TOO many illnesses

See handout for more	

41

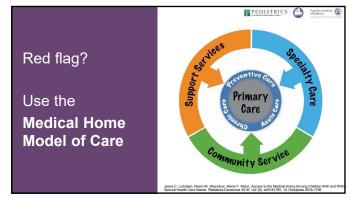
**EVERY CHILD WITH A GENETIC CONDITION HAS** RED FLAGS...

> **BUT EVERY CHILD WITH** A RED FLAG DOES NOT HAVE A GENETIC CONDITION

Red flag?

Use the Medical Home Model of Care

43



44

# Thank you! Questions?

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