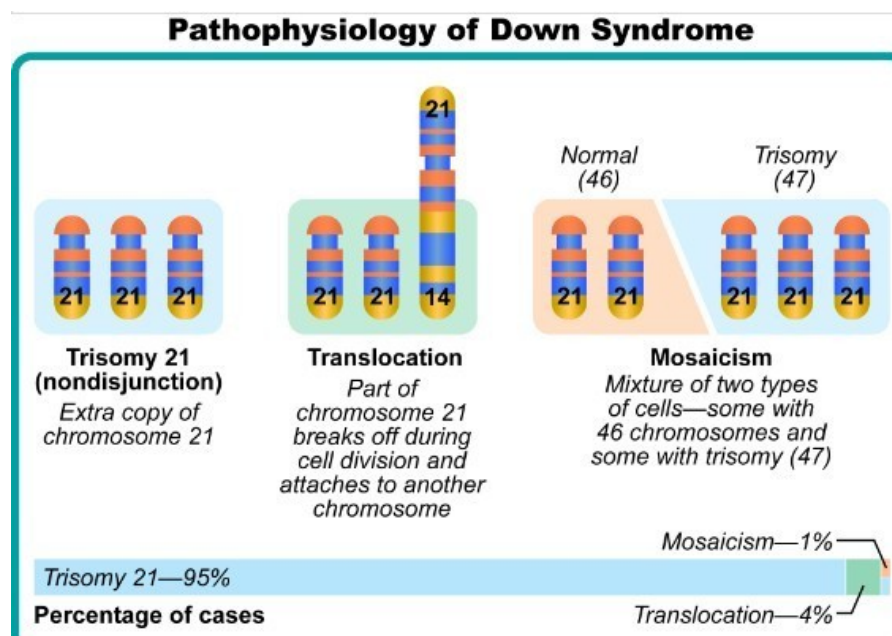


Patho Quiz 2

Down Syndrome

- A chromosomal genetic disorder that occurs in individuals with an extra copy of a chromosome from the 21st pair
- Causes: biological mother's ovum (egg), biological father's sperm, after fertilization
- Comorbid conditions: hearing loss, leukemia, sleep apnea, immune deficiency
- 3 types
 - Complete Trisomy 21
 - Nondisjunction
 - Extra copy of chromosome 21
 - Extra copy of chromosome alters how the fetus body and brain develop
 - Extra chromosome is present in all cells in the person's body
 - Translocation trisomy 21
 - Part of Extra chromosome breaks off during cell division and attaches, or translocates, to a different chromosome
 - Extra chromosome may be complete or partial and impacts the body and brain development
 - Mosaic trisomy 21
 - A combination of cells with three copies of chromosome 21 and the others with only two
 - Mixture of two types of cells – some with 46 chromosomes and some with trisomy (47)
 - Delayed development of fetus body and brain



- Clinical manifestations
 - Signs and symptoms