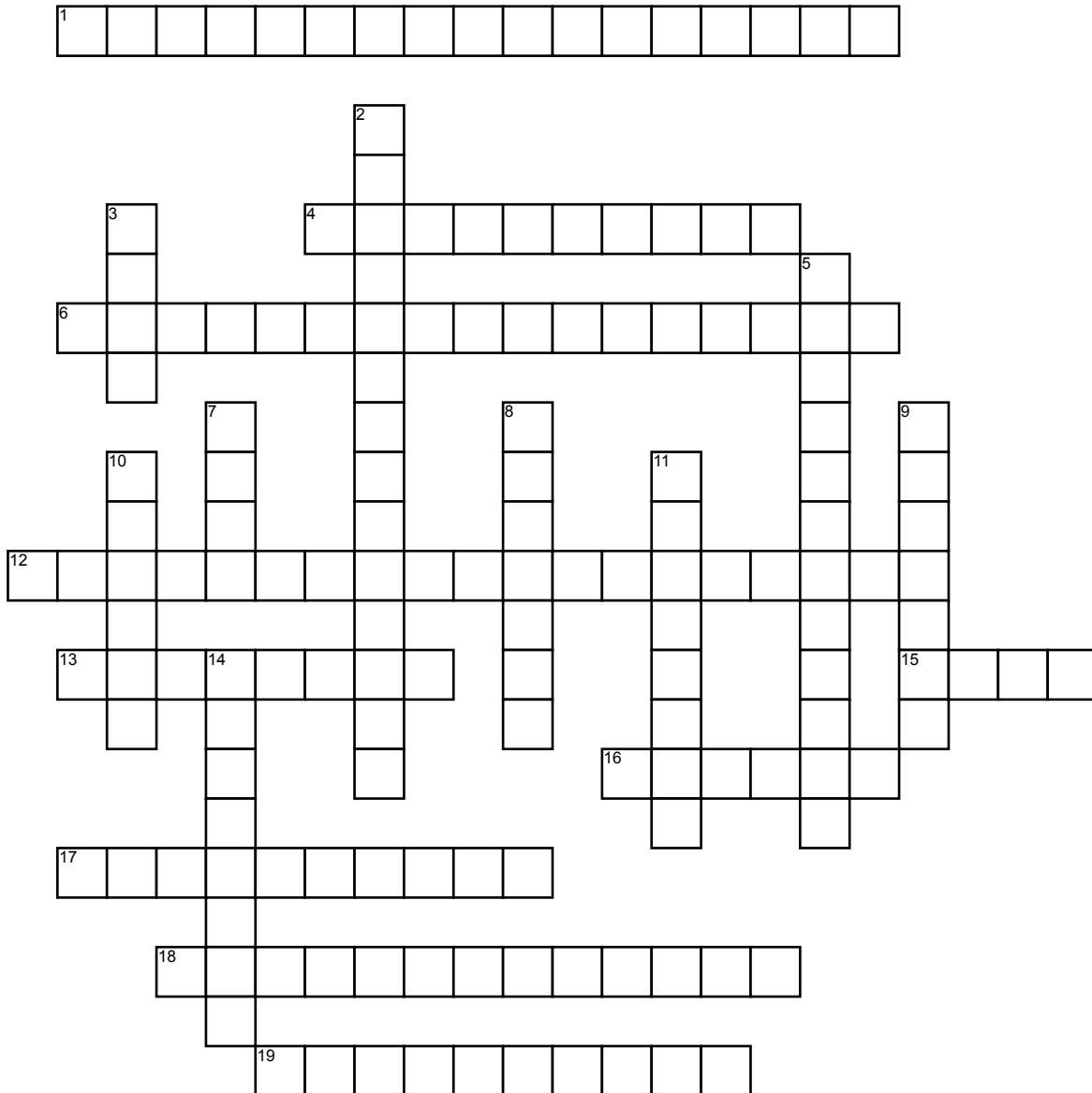


# Genetic Disorders and Screening



**Across**

- 1. If one parent carries mutated gene, each child has a 50% chance of being a carrier
- 4. Prenatal event done to diagnosis possible cleft in utero
- 6. Type of care required for complex genetic disorders
- 12. Single gene disorder affecting the face, lip pits most prominent characteristic
- 13. Unilateral or bilateral facial development disorder
- 15. VDW Syndrome mutation of which gene (majority)
- 16. Early treatment to build good habits

- 17. Pictures of paired chromosomes of an individual
- 18. Rare type of genetic disorder caused by mutations in non chromosomal DNA
- 19. Detailed DNA review of patient and family for likelihood of genetic disorder in offspring

**Down**

- 2. Disorders caused by combination of environmental and mutations in multiple genes
- 3. Number of genetic disorder types
- 5. Extremely extensive treatments needed, sometimes multiple times, with facial genetic disorders

- 7. This contains instructions for producing protein
- 8. Disorder caused by abnormalities in an individual's genetic material
- 9. Chromosomes carry this type of information
- 10. Gene disorder caused by mutations in a DNA sequence of one gene
- 11. Genetic testing looks at this to determine if someone has a genetic disorder, will develop one, or is a carrier
- 14. Humans have this many chromosomes in their body cells