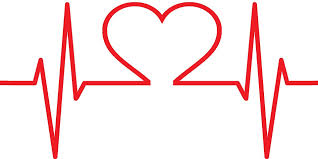
Watson & Crick Genetic Specialists

1953 Purine Lane

Pyrimidine, GA



Genetic Counselors Report

Genetic Counselor Name(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Task 1: Research

|  |  |  |
| --- | --- | --- |
| **Genetic Disorder** | **Notes** | |
| Achondroplasia | Overall Information |  |
| Inheritance  Pattern | Dominant OR Recessive |
| Symbols | Dominant Allele: \_\_\_\_\_\_ Recessive Allele: \_\_\_\_\_\_ |
| Cystic Fibrosis | Overall Information |  |
|  | Inheritance  Pattern | Dominant OR Recessive |
|  | Symbols | Dominant Allele: \_\_\_\_\_\_ Recessive Allele: \_\_\_\_\_\_ |
| Huntington’s Disease | Overall Information |  |
|  | Inheritance  Pattern | Dominant OR Recessive |
|  | Symbols | Dominant Allele: \_\_\_\_\_\_ Recessive Allele: \_\_\_\_\_\_ |
| Polydactyly | Overall Information |  |
|  | Inheritance  Pattern | Dominant OR Recessive |
|  | Symbols | Dominant Allele: \_\_\_\_\_\_ Recessive Allele: \_\_\_\_\_\_ |
| Sickle Cell Disease | Overall Information |  |
|  | Inheritance  Pattern | Dominant OR Recessive |
|  | Symbols | Dominant Allele: \_\_\_\_\_\_ Recessive Allele: \_\_\_\_\_\_ |
| Tay-Sachs Disease | Overall Information |  |
|  | Inheritance  Pattern | Dominant OR Recessive |
|  | Symbols | Dominant Allele: \_\_\_\_\_\_ Recessive Allele: \_\_\_\_\_\_ |
| **Overall Notes:** | | |
| Vocabulary |  | |
| Punnett Squares |  | |
| Probability Determination |  | |

Task 2: Genetic Counselor Case Study # \_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Genetic Disorder** | **Mother Genotype** | **Father Genotype** |
| Achondroplasia |  |  |
| Cystic Fibrosis |  |  |
| Huntington’s Disease |  |  |
| Polydactyly |  |  |
| Sickle Cell Disease |  |  |
| Tay-Sachs Disease |  |  |

Punnett Squares:

Achondroplasia Cystic Fibrosis

Phenotypic Ratio:

\_\_\_\_\_\_ = normal

\_\_\_\_\_\_ = carrier

\_\_\_\_\_\_ = affected

Phenotypic Ratio:

\_\_\_\_\_\_ = normal

\_\_\_\_\_\_ = carrier

\_\_\_\_\_\_ = affected

|  |  |
| --- | --- |
|  |  |
|  |  |

|  |  |
| --- | --- |
|  |  |
|  |  |

Huntington’s Disease Polydactyly

|  |  |
| --- | --- |
|  |  |
|  |  |

Phenotypic Ratio:

\_\_\_\_\_\_ = normal

\_\_\_\_\_\_ = carrier

\_\_\_\_\_\_ = affected

Phenotypic Ratio:

\_\_\_\_\_\_ = normal

\_\_\_\_\_\_ = carrier

\_\_\_\_\_\_ = affected

|  |  |
| --- | --- |
|  |  |
|  |  |

Sickle Cell Disease Tay-Sachs Disease

|  |  |
| --- | --- |
|  |  |
|  |  |

Phenotypic Ratio:

\_\_\_\_\_\_ = normal

\_\_\_\_\_\_ = carrier

\_\_\_\_\_\_ = affected

Phenotypic Ratio:

\_\_\_\_\_\_ = normal

\_\_\_\_\_\_ = carrier

\_\_\_\_\_\_ = affected

|  |  |
| --- | --- |
|  |  |
|  |  |

Which disorders do the offspring have a chance of having?



Task 3: Educational Materials

Use the following chart to collect additional information to be included in your educational materials.

|  |  |  |
| --- | --- | --- |
| **Genetic Disorder** | **Notes** | |
|  | Summary of Disorder |  |
| Symptoms |  |
| Cause |  |
| Inheritance |  |
| Treatments |  |
| Prognosis |  |
| **Genetic Disorder** | **Notes** | |
|  | Summary of Disorder |  |
| Symptoms |  |
| Cause |  |
| Inheritance |  |
| Treatments |  |
| Prognosis |  |

Additional Space for Additional Notes: