

NAME:

LABORATORY 10; EXERCISE 3. PEDIGREE ANALYSIS

Purpose – This Laboratory will be divided into three exercises. In the first exercise you will be asked to develop your own model Pedigrees for common Modes of Inheritance. In the second exercise you will use these models to help answer a set of questions. For the last exercise, you will act as a Genetic Counselor assigned to analyze a set of actual case studies.

SPECIFIC LABORATORY PROTOCOL –

Now that you have mastered Pedigrees, it is time to open your practice as a Genetic Counselor. Choose one of the case studies provided that involve real-life examples (names and all identifying information changed, of course). For each case study:

1. Draw a Pedigree (using standard symbols) from the family history given to you. Be sure you use the standard symbol to indicate the Proband and as many genotypes as possible.
2. Determine the most probable Mode of Inheritance for the disorder. For help, refer to “Tips for Identifying Modes of Inheritance.”
3. Explain how the Pedigree does or does not allow you to eliminate other possible modes of inheritance.
4. Answer the questions included in your scenario for the family history for each case. Use the pages that follow to put your answer.

Case No.

Patient Name:



