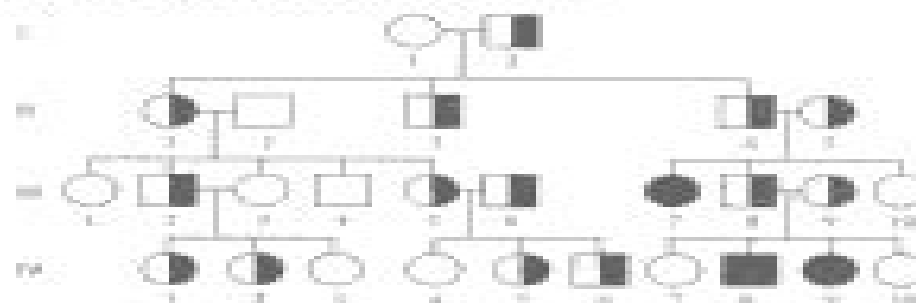
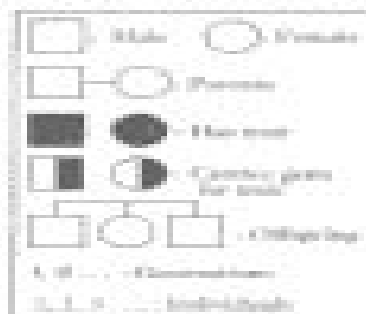


## Pedigree Worksheet 1

### Sickle Cell Anemia

Analyze the pedigree for sickle-cell anemia. Use the key below to the left to help. Remember, sickle-cell anemia is a recessive blood disorder. After analyzing, answer the questions.



- How many generations are represented in the pedigree? \_\_\_\_\_
- In generation I, which parent is heterozygous for the recessive allele? \_\_\_\_\_
- How many offspring from generation I inherited the sickle-cell allele? \_\_\_\_\_
- Which individual in generation II married a spouse who is homozygous dominant? \_\_\_\_\_
- In which generation does the first case of sickle-cell anemia appear? \_\_\_\_\_
- Which generation contains the most male carriers? \_\_\_\_\_
- Have any individuals had incestuous relationships? If so, which ones? \_\_\_\_\_
- Can two carriers produce an individual with sickle-cell anemia? \_\_\_\_\_
- Can a normal homozygous individual produce offspring with sickle-cell anemia? \_\_\_\_\_
- Which parents produce two children with sickle-cell anemia? \_\_\_\_\_
- If individual IV-5 mates with a male carrier for sickle-cell trait, what is the chance their first offspring will have sickle-cell anemia? \_\_\_\_\_
- If individual IV-10 mates with another individual, is there any way an offspring could have sickle-cell anemia? Explain. \_\_\_\_\_

# Sickle Cell Anemia Pedigree Worksheet Answers

**Miriam Bloom**



## **Sickle Cell Anemia Pedigree Worksheet Answers:**

Sickle Cell Anemia and Sickle Cell Trait Job Corps (U.S.),1972      Answers to Common Questions about Sickle Cell Disease ,1973      Adolescents with Sickle Cell Anemia and Sickle Cell Trait National Institutes of Health (U.S.),1978

**Sickle Cell Anemia** Judy Monroe Peterson,2008-08-15 Sickle cell anemia is a genetic disease of the blood It is caused by a defect in one gene of a person Genes are the elements in cells that carry the information that determines traits such as hair or eye color In sickle cell anemia a defect in the gene controls how hemoglobin is made This defect can be passed from parents to their children Students explore the history of sickle cell anemia the pioneering doctors who studied its cause and early treatments They also investigate hemoglobin S who gets sickle cell and how the gene mutation is inherited They learn about the different types of sickle cell disease and treatments including blood transfusions and bone marrow transplants and some of the promising new research in medicines and gene therapy      **Sickle Cell Anemia and Your Child** Roland B.

Scott,Althea D. Kessler,1960      **Understanding Sickle Cell Disease** Miriam Bloom,1995 For general readers a guide to understanding a debilitating genetic disease that affects tens of thousands who are of African heritage      **Answers to Frequently Asked Questions about Sickle Cell Disease** National Heart and Lung Institute,1973      *SICKLE CELL AND YOU: Navigating Life With Sickle Cell Anaemia* Kabo Issik,2024-04-01 Sickle Cell And You Navigating Life With Sickle Cell Anaemia by Kabo Issik is a heartfelt and informative guide designed to support individuals and families navigating the complexities of sickle cell anaemia This book delves into the author s personal journey with sickle cell disease within his family offering a blend of personal anecdotes practical advice and medical knowledge It begins with an introduction to the basics of sickle cell anaemia explaining the genetic underpinnings and the various forms of the disease and extends into comprehensive guidance on living with managing and understanding the condition From daily life adjustments and managing crises to the role of caregivers and navigating healthcare Issik provides insights into the challenges and resilience fostered by living with sickle cell disease Aimed at patients parents caregivers and anyone looking to understand more about sickle cell anaemia this book is a testament to strength perseverance and hope in the face of a challenging genetic disorder

*Community Educational Program Planning Guide* National Association for Sickle Cell Disease (U.S.),1976\*      **Sickle Cell Trait** New York Heart Association. Committee on Sickle Cell Anemia,Children's Blood Foundation,New York (State). Department of Health,1972      *Sickle cell anemia* Rumi Michael Leigh,2022-08-21 Sickle Cell Anemia Things You Should Know Questions and Answers explains this inherited blood disorder in a simple question and answer format covering causes symptoms complications and treatments Inside you will learn what sickle cell anemia is how it affects red blood cells and hemoglobin and why these cells become rigid sticky and sickle shaped The book explains how sickle cell anemia shortens the life of red blood cells and disrupts normal blood flow leading to serious health problems It covers symptoms such as extreme pain fatigue infections slow growth delayed puberty swelling in the hands and feet and vision problems Complications are

also discussed including stroke pulmonary hypertension organ damage blood clots gallstones priapism ulcers blindness and pregnancy risks Readers will also find explanations of diagnostic methods from blood tests to prenatal testing and treatment options such as medications blood transfusions and bone marrow transplant This book is suitable for anyone who wants to understand sickle cell anemia its effects on the body and current approaches to treatment in a direct and easy to read way

Factsheet for on Sickle Cell Trait and Anemia Charles F. Whitten, National Association for Sickle Cell Disease (U.S.), 1974

Sickle-Cell Disease 109 Success Secrets - 109 Most Asked Questions on Sickle-Cell Disease - What You Need to Know

Marilyn Lambert, 2014-10-14 Sickle cell disease like never before Sickle cell disease SCD either sickle cell anaemia SCA either drepanocytosis is a genetic blood chaos distinguished by red blood cells that presume an Abnormal inflexible sickle form Sickling reduces the cells flexibleness and outcomes in a hazard of different difficulties The sickling happens since of a alteration in the haemoglobin segment of DNA Individuals with one duplicate of the obsolete segment of DNA exhibit either usual and Abnormal haemoglobin This is an illustration of codominance There has never been a Sickle cell disease Guide like this It contains 109 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Sickle cell disease A quick look inside of some of the subjects covered Sickle cell disease Inheritance Heterozygote advantage Mutate By impact on protein sequence Race and health Controversy regarding race in biomedicine Thalassemia Pathophysiology Sickle cell disease Sickle cell crisis Stroke Thrombotic stroke Roman Fever disease Origin and prehistoric period Sickle cell disease Transfusion therapy Anemia Signs and symptoms J B S Haldane Sickle cell disease Complications Heterozygous advantage Fructosamine Use in medicine Human genetic engineering 1990s Haemoglobin electrophoresis Hydroxyurea Uses Prospective memory Diseases and Disorders Heterozygote advantage Sickle cell anemia Sickle cell disease Folic acid and penicillin Autoimmune hemolytic anemia Diagnosis 2005 in Africa Sickle cell disease Salmonella Enteritis salmonellosis or food poisoning Salmonella RNA codon table Effect of mutations and much more *Pathology of Sickle Cell Disease* Joseph Song, 1971 *Sickle Cell Anemia* Jane S. Lin-Fu, 1975 Sickle Cell Disease Graham R. Serjeant, Beryl E. Serjeant, 2001 Sickle cell disease is one of the grand diseases in the terminology of Victorian pathology because its widespread and multitudinous manifestations may affect any organ system in the body It has served as a model of molecular disease being one of the first genetic disorders to be explained at the molecular level Since publication of the Second Edition however further advances have been made Much has been learnt about the causes of variability in the natural history of the disease and of the reasons why there are such marked variations in the patterns of morbidity and mortality As Director of The Jamaican Sickle Cell Unit Graham Serjeant and his colleagues have shown the disease to be extremely variable ranging from a severe clinical course with death in early childhood to mildly affected patients living to the age of 80 years This extreme

variability within a single genotype implies that other factors both genetic and environmental must influence expression of the disease This new edition contains many new references and incorporates the latest thinking on the biology of the disease and the best practice in its management      *Questions & Answers* Missouri. Department of Health, Missouri. Sickle Cell

Anemia Program,1987\*      **Sickle Cell Anemia** Jane S. Lin-Fu,United States. Maternal and Child Health Service,1972

The World and the Sickle-cell Gene Mohamed Ismail Johnson,1984

**Planning for Sickle Cell Anemia in**

**Pennsylvania** Pennsylvania. Irvis Committee on Sickle Cell Anemia,1973

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