

Name \_\_\_\_\_

## Chromosomal Disorders Webquest

*There are many inherited disorders in the human population. This webquest covers some of these disorders. Using the websites listed below, answer the following questions. You do not have to memorize the frequency at which these traits occur; however, take a look at those numbers and think about how prevalent some of these traits are. Use any of the links found on this assignment to answer the questions:*

General Genetic/Chromosomal disorders information listing

[http://dir.yahoo.com/Health/Diseases\\_and\\_Conditions/Genetic\\_Disorders/](http://dir.yahoo.com/Health/Diseases_and_Conditions/Genetic_Disorders/)

Use <http://www.achondroplasia.co.uk/> to answer the following questions.

1. What is the common name of Achondroplasia?
2. How is Achondroplasia inherited?
3. What are some of the characteristics of individuals with Achondroplasia?

Use the following website (<http://www.ygyh.org/cf/whatisit.htm>) to answer the questions below.

4. What are some of the major symptoms of cystic fibrosis?
5. In what ethnic group(s) is CF most common?
6. How is CF inherited?
7. What type of screening is done for CF?
8. What treatments are available to CF patients?

Use <http://www.ygyh.org/dmd/whatisit.htm> to answer the questions that follow about Duchenne Muscular Dystrophy.

11. How is DMD inherited?
12. What are the symptoms of DMD?
13. How is DMD diagnosed?
14. How is DMD treated?

Use <http://www.ygyh.org/fragx/whatisit.htm> to answer the following questions.

15. Where does the name Fragile X Syndrome come from?
16. What are the symptoms of this disorder? Of what is Fragile X said to be the most common cause?
17. What type of screening is done for Fragile X?
18. What treatments are available for people with Fragile X Syndrome?

Use the website, <http://www.nlm.nih.gov/medlineplus/klinefelterssyndrome.html> to answer questions about Klinefelter's syndrome.

19. How is Klinefelter's inherited?
20. What are some of the symptoms of Klinefelter's?
21. How is screening for Klinefelter's done?
22. What are some of the treatments available to males with Klinefelter's?

Use the website, <http://www.ygyh.org/marfan/whatisit.htm> to answer the following questions about Marfan Syndrome.

23. What are some of the characteristics and symptoms of Marfan Syndrome?
24. What are some of the treatments available to those afflicted with Marfan Syndrome?
25. What U.S. President is thought to have had Marfan Syndrome?

Use the website <http://www.medhelp.org/lib/pku.htm> to answer the following questions about Phenylketonuria (PKU).

26. What causes PKU?
27. What is the mode of inheritance of PKU?
28. What are some of the symptoms of PKU?
29. How are infants tested for PKU?
30. How is PKU treated?

Use the following website <http://www.pwsausa.org/faq.htm> to answer questions about Prader-Willi Syndrome

31. What are some of the characteristics/symptoms of Prader-Willi Syndrome?
32. What parent donates the defective chromosome that causes this disorder?
33. Which chromosome is associated with this disorder?
34. What is wrong with that particular chromosome?

Use <http://www.nlm.nih.gov/medlineplus/ency/article/001660.htm> and the yahoo site to answer the questions below concerning Trisomy 13.

35. What is the other name for Trisomy 13?
36. What does *trisomy* mean?
37. What are some of the symptoms of this disorder?
38. What is the life expectancy of individuals with this disorder?

Use the yahoo website at the top of the page to answer the following questions about Trisomy 21.

39. What is the common name of Trisomy 21?
40. What are some of the features that make Trisomy 21 easy to recognize?

Use [http://medgen.genetics.utah.edu/photographs/pages/trisomy\\_18.htm](http://medgen.genetics.utah.edu/photographs/pages/trisomy_18.htm) to answer the following questions.

41. What is the other name for Trisomy 18?
42. Does this disorder affect more males or females?
43. What are some of the symptoms of this disorder?

Use the following website <http://www.turnersyndrome.org/#!overview/ctzx>

to answer questions about Turner's Syndrome

44. How is Turner's Syndrome inherited?
45. How is Turner's Syndrome diagnosed?
46. What are some of the characteristics and symptoms of Turner's Syndrome?
47. What are some of the treatments for Turner's Syndrome?