

Genetic Disorder Brochure Project

Overview

Create a tri-fold brochure for a doctor's office waiting room. The brochure should provide patients with information about one of the chromosomal genetic disorders listed below. Assume that most of the patients of your audience are adults with a typical high school science background.

The brochure should be creative as well as informative. You want people to pick it up and read through it. Be sure to include accurate, up-to-date information and graphics that illustrate important ideas. You should reference at least three sources of information for your brochure (Google DOES NOT count). You will list the name of these sites and their web address in a "For More Information" section of your brochure.

Procedure

You will research the genetic disorder of your choice (no more than 2 students per disorder. We will sign up for these) and use the following questions. as a guide, to the type of information you will need for your brochure.

- What other names are there for this disorder? (Any common names?)
- What causes the disorder? (mutation, nondisjunction) What gene or chromosome is affected by this disorder? (X, Y, #21). Is this an inherited disorder?
- Karyotype of the disorder
- What are the symptoms?
- Are there prenatal tests for this disorder?
- What population is affected? Can anyone be a candidate for the disorder?
- What kind of medical assistance will the affected child need? Will further assistance be needed, as the child grows older? What is the long-term outlook for the child?
- Are there any treatments or cures?
- Can this individual have children in the future? Will those children be affected?

Brochure

After researching the disorder, make an informational pamphlet that could be given to patients. This brochure should be of professional quality. It must fully inform the reader of all issues pertaining to the genetic disorder. Again, use the questions provided to guide your research. Your brochure will be graded based on accuracy, completeness, and creativity.

The brochure should follow the below guidelines:

- No larger than 8.5 x 11 unfolded
- Double sided, trifold design
- Include graphics/visuals with captions
- Include subheadings to organize information

For More Information

This section will serve as your works cited section. You will need to give the title of the web pages and their address that you used to research your disease. Google and Wikipedia DO NOT COUNT. At least three sources are required for this project. More than four is acceptable, and encouraged!

Here is an example of how you record your reference:

Huntington's Disease Society of America
<http://hdsa.org/>

Chromosomal Genetic Diseases

- Down Syndrome
- Turner Syndrome
- Edwards syndrome
- Patau Syndrome
- Prader-Willi Syndrome
- Angelman Syndrome
- Klinefelter syndrome
- Cri du chat
- Williams Syndrome
- Fragile X syndrome
- Wolf-Hirschhorn Syndrome
- Pallister Killian

Chromosomal Disorder Sign-Up

Disorder	Student 1	Student 2
Down Syndrome		
Turner Syndrome		
Edwards syndrome		
Patau Syndrome		
Prader-Willi Syndrome		
Angelman Syndrome		
Klinefelter syndrome		
Cri du chat		
Williams Syndrome		
Fragile X syndrome		
Wolf-Hirschhorn Syndrome		
Pallister Killian		

Chromosomal Disorder Brochure Rubric

Category	Advanced	Meets	Progressing	Not Yet
Content-Accuracy	The brochure has all of the required information and some additional information.	The brochure has all of the required information.	The brochure has most of the required information.	The brochure has little of the required information.
Graphics / Pictures	The graphics go well with the text, and there is a good mix of text and graphics.	The graphics go well with the text, but there are so many that they distract from the text.	The graphics go well with the text, but there are too few.	The graphics do not go with the accompanying text or appear to be chosen randomly.
Attractiveness & Organization	The brochure has exceptionally attractive formatting and well-organized information.	The brochure has attractive formatting and well-organized information.	The brochure has well-organized information.	The brochure's formatting and organization of materials is confusing to the reader.
Writing-Mechanics	All of the writing is in complete sentences. Capitalization and punctuation are correct throughout the brochure.	Most of the writing is in complete sentences. Most of the capitalization and punctuation are correct throughout the brochure.	Some of the writing is done in complete sentences. Some of the capitalization and punctuation are correct throughout the brochure.	Most of the writing is not done in complete sentences. Most of the capitalization and punctuation are not correct throughout the brochure.
"More Information"/ Sources	A variety of sources (more than 3) are accurately listed on the brochure.	Three sources are accurately listed on the brochure.	Fewer than three sources are accurately listed on the brochure.	Incomplete citations are listed on the brochure.

Comments:

Genetic Disorder Research Guide

Name _____

Disorder: _____

Sources of Information:

Site Name	Website

What other names are there for this disorder? (Any common names?)

What causes the disorder? (mutation, nondisjunction) Is this an inherited disorder? What gene or chromosome is affected by this disorder? (X, Y, #21)

Are there prenatal tests for this disorder?

What are the symptoms?

What population is affected? Can anyone be a candidate for the disorder?

What kind of medical assistance will the affected child need? Will further assistance be needed, as the child grows older? What is the long-term outlook for the child?

Are there any treatments or cures?

Can this individual have children in the future? Will those children be affected?