

Genome: a tour and genetic disorder brochure

Create a tri-fold brochure for a doctor's office waiting room. The brochure should provide patients with information about one of the 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 four sources of information on a separate "works cited" page to hand in along with your brochure.

Genetic Disorder List

Achondroplasia	Muscular dystrophy
Alzheimer disease	Neurofibromatosis
Asthma	Phenylketonuria
Beta-thalassemia	Prader-Willi / Angelman syndrome
Breast cancer	Severe combined immunodeficiency
Cystic fibrosis	Sickle cell
Down syndrome	Tay-Sachs
Fragile X	Hemochromatosis
Hemophilia	Huntington disease
Lactose tolerance/intolerance	Leukemia
Marfan syndrome	Other?

Refer to the scoring rubric to help you select the information to be included and for general guidelines. The rubric will be used for grading purposes.

Scoring rubric for genetic disorder brochure

Rating Scale: 4 = Excellent 3 = Very Good 2 = Acceptable 1 = Unacceptable 0 = Missing

Section of Brochure	Score					Comments
Overall appearance of brochure						
• printed on 8.5 x 11 inch paper	4	3	2	1	0	
• includes graphics	4	3	2	1	0	
• neat and appealing	4	3	2	1	0	
Works Cited						
• 4 sources referenced	4	3	2	1	0	
• separate page from brochure	4				0	
Picture of Chromosome carrying gene for disorder selected:						
• chromosome accurately drawn	4	3	2	1	0	
• location of gene for disorder clearly marked			2	1	0	
Information about the disorder includes:						
• exact name of gene	4			1	0	
• name of protein coded for by gene (if available)	4			1	0	
• symptoms of disorder	4	3	2	1	0	
• complications associated with disorder	4	3	2	1	0	
• inheritance: type of mutation (is it sex-linked, autosomal dominant, autosomal recessive, etc.)	4	3	2	1	0	
• detection of carriers	4	3	2	1	0	
• treatment (care, cure, prevention, if any)	4	3	2	1	0	
• research outlook	4	3	2	1	0	
Places to go for more information about the disease						
• web sites (2 minimum)	4	3	2	1	0	
• organizations	4	3	2	1	0	
Two other interesting facts about this disease (example—pedigree showing transmission of the disease)	4	3	2	1	0	
Total Points	Grade =					