

FOR WHAT IT'S WORTH

MILLIONS OF UNITED STATES
GOVERNMENT RESEARCH
DOLLARS SPENT THIS YEAR



CYSTIC FIBROSIS

\$83

2012

2013

2014

2015

2016



SICKLE CELL DISEASE

\$78



BE A VOICE
WITH
SICKLE
& FLOW

www.sickleandflow.org

Sickle Cell Disease Awareness Month



Breaking down the numbers of SCD



Currently, the only cure for SCD is a bone marrow transplant



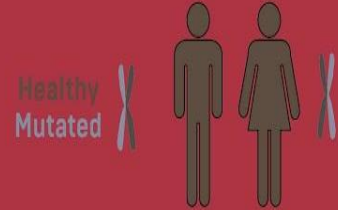
Affecting ~100,000 Americans, SCD is the most common genetic disorder in the US but is technically classified as a "rare disease"



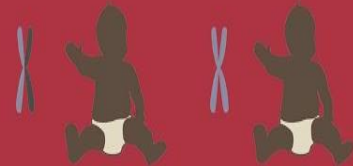
For an average person with SCD reaching age 45, total lifetime health care costs are estimated to be nearly \$1 million



SCD is an **autosomal recessive** trait. A mutated gene from both mother and father are required to cause the disease

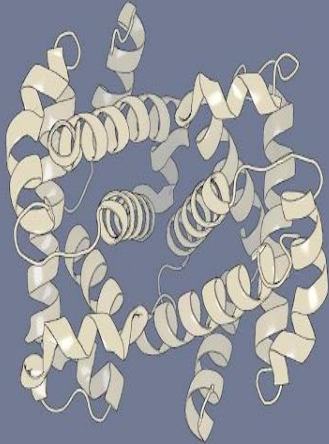


1 in 13 African American babies is born with at least one SCD mutated gene



1 in 365 African American babies is born with both mutated genes, causing SCD

Linus Pauling termed SCD the first "molecular disease" in 1951 after linking the condition to an abnormal hemoglobin protein



Earnest Irons first documented sickle-shaped cells in 1910



SCD receives its name from the "sickle" shape of mutated red blood cells

Healthy

Mutated



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