



**February 2025**

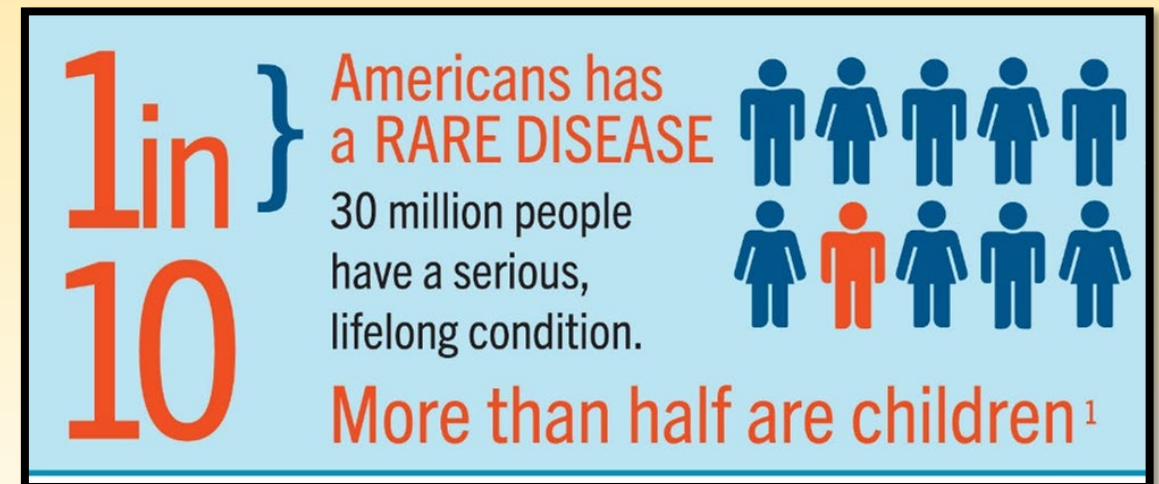
# How is **RARE DISEASE** defined?

**What does RARE mean?** Not often found or seen; not common, unusual

**What is a DISEASE?** A condition that affects the normal functioning of the body and causes illness

**RARE DISEASE:** A health condition that impacts a small percentage of the people

*Any condition affecting less than 200,000 people in the United States.*

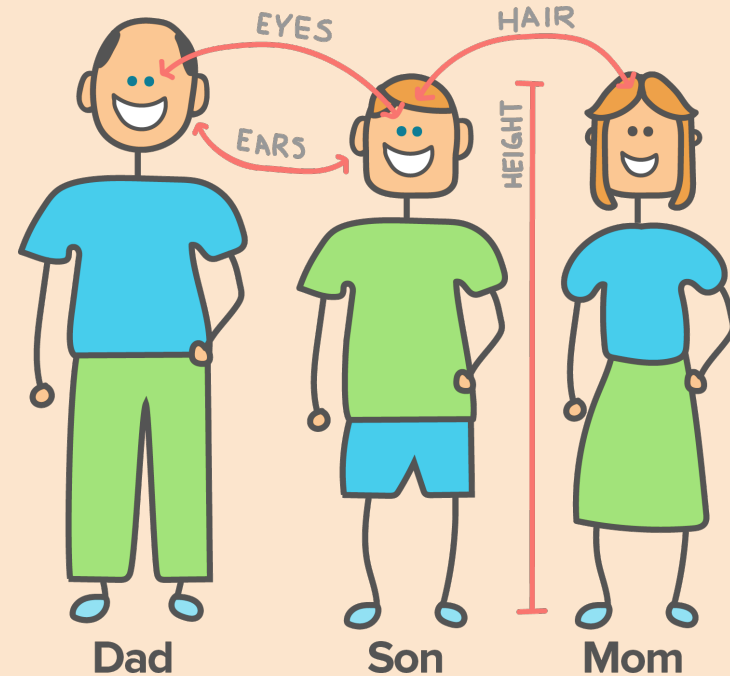


# Who is affected by Rare Diseases?

According to the National Institutes of Health (NIH): there are over 7,000 Rare Diseases.

The majority of rare diseases are *genetic*

*Genes* are passed down from parent to child, a special set of instructions that tell your body how to grow and work



Some rare diseases appear as a baby or young child, others do not appear until later in life.

## What are some of the problems people with **RARE DISEASE** experience?

- Difficulty in gaining an accurate diagnosis, it can even take years!
- Little or no research being done on the disease
- Difficulty finding a doctor who knows how to treat the particular disease
- Paying for treatments that are generally more expensive than those for common diseases
- Feelings of loneliness
- Of the 7,000 known rare diseases, approximately 95% have no treatment



## A Patient's Story: Paul's Story

This is Paul.

When Paul was just a toddler, he was diagnosed with Duchenne Muscular Dystrophy.

Duchenne Muscular Dystrophy is a rare genetic disease with no cure.

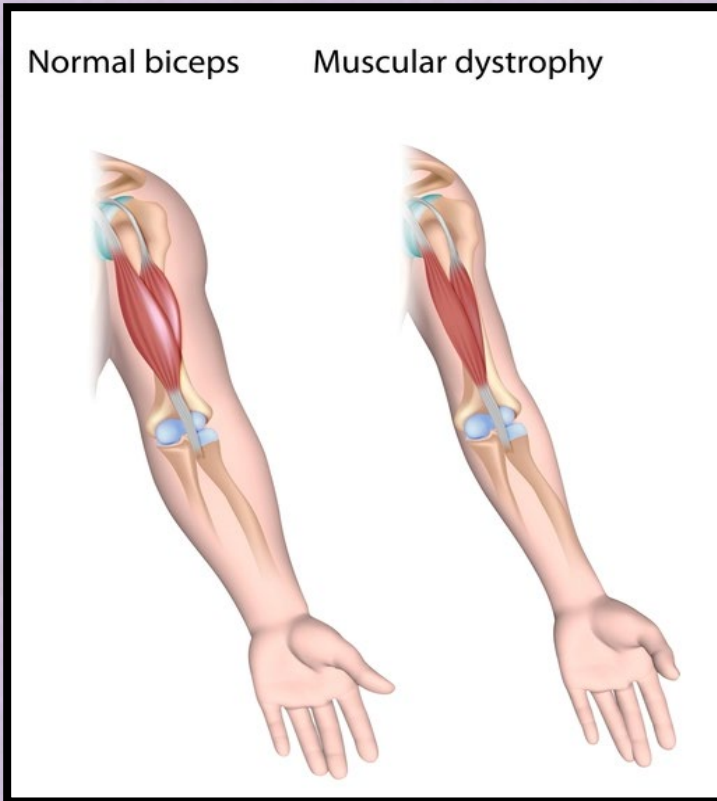
This disease affects people's muscles from a young age.

The muscles, including the heart muscle, get weaker and break down over time.

This makes it difficult for children to jump, run, and walk.



## A Patient's Story: Paul's Story, continued



Paul feels lucky to receive the medical help and therapies he's received.

Paul is now 12 years old.

He enjoys model cars and video games with his brother.

Unfortunately though, raising his arms has become much more difficult.

He is unable to stand or maintain his balance.

## A Patient's Story: Paul's Story, continued

Paul needs support for all daily activities, including getting in and out of bed. His muscles have broken down so much, that he must now use a wheelchair for the rest of his life.

Paul's parents help spread awareness about the difficulties patients and their families experience from the moment their child is diagnosed with a rare disease.



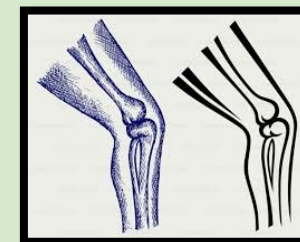
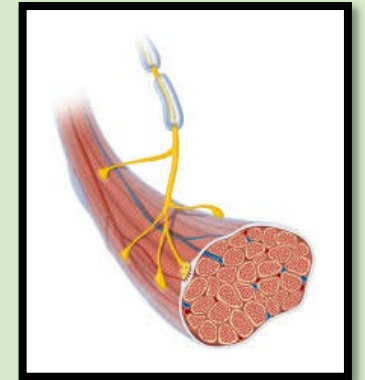
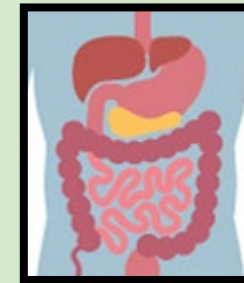
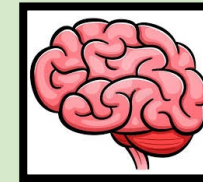
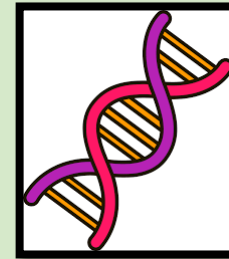
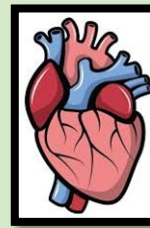
# A Rare Name for A Rare Disease

Many Rare Diseases are named for the physicians who first discovered them.



A few are named for patients, the hospitals where they were first identified, even the location of the body they affect. These locations include:

- Neurological (brain) and neuromuscular (nerves/muscles)
- Metabolic (digestive/stomach)
- Chromosomal (DNA/genes)
- Skin and bone
- Heart, blood, lungs, kidneys, and other body organs and systems



# A Parent's view

Each day I wake up, I pray that God has not taken (my son) away from us in the night.

When I lay eyes on him, and see his smiling face, it lights up my world.

Some days (my son) wakes up cheery and bouncing.

Other times he wakes up groggy because it's been a hard night.

Changing his diaper from over night is always different, sometimes its so full that it has leaked, sometimes its (yucky) and a red bum, and sometimes its just a quick change.

Getting (my son) changed and clothes on for the day, which is a challenge too.

Because clothes that fit my 9 year old is not made for diapers, it's not always accessible, and sometimes they don't work with his braces, walker, or shoes.



## A Parent's view, continued

Then (my son) is lifted into his chairlift, so he can get down the stairs safely.

This is new, because we have always carried him down the stairs.

But at 50 lbs and nearly 4 1/2 ft tall, it was a huge hazard.

When we get downstairs, (my son) sits in a special chair for meals and snacks.

I put on some cartoons for (my son) while I get his meds ready.

Each syringe, each bottle is specially marked.

I know each bottle and each dose...

Make sure that you are precise on the measurements...

All the meds total \$35,000 each month...



# A Parent's view, continued

The first hour is an exhausting start to the day.

But it's an important time to get everything on our list checked off, to keep (my son) safe.

We fight to find doctors who will listen.

We fight insurance companies when they deny tests, treatments, and therapies.

We fight the education system that is not prepared for our rare child.

We fight each day because at the end of the day that fight is life changing for our loved one.



# RARE DISEASE DAY

An awareness event that takes place every year  
on the last day of February:

**February 28**

**(or February 29 during Leap Years)**

The rarest of calendar dates to emphasize the nature of these diseases



**Dr. Meghan Martin, a pediatric emergency medicine physician who shares medical ideas for families via social media platforms.**

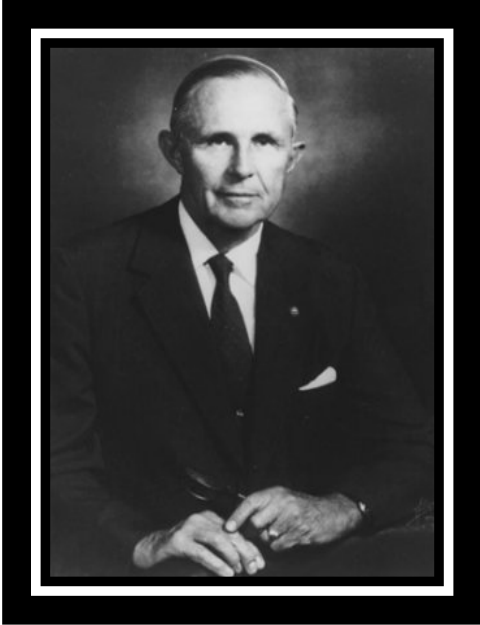
**Click to view the video she shared on Rare Disease Day last year.**

# Did you know?!

- In the United States, zebras are more rare than horses.
- Every zebra has a unique stripe pattern, like fingerprints, no two patterns are alike.
- *The term “**ZEBRA**” is often used to describe a rare or unexpected diagnosis.*



... But how did “**Zebra**” become a synonym for Rare?



## Horse or Zebra? Hooves Matter

Dr. Theodore Woodward, a professor in the 1940s, told his students:

**"When you hear hoofbeats behind you, don't expect to see a zebra."**

Did you catch this similar phrase, referenced in Dr. Megan Martin's video, on one of the previous slides?

**Dr. Woodward used this metaphor to teach the diagnosis of diseases.**

Horses are much more common animals, so assume it is a horse behind you, rather than a zebra.

In medical terms: think of the common diseases before the uncommon diseases.



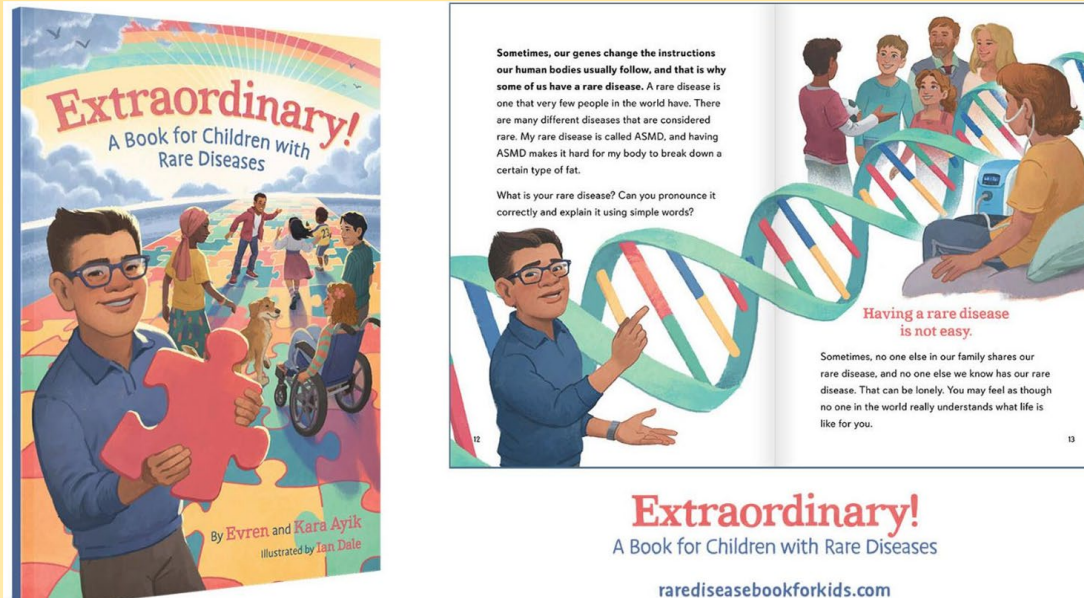
**With this information in mind, it should be no surprise that the ***ZEBRA*** is the mascot for rare diseases!**

# Book Recommendations

Written collaboratively by mother and son,

## *Extraordinary! A Book for Children with Rare Diseases*

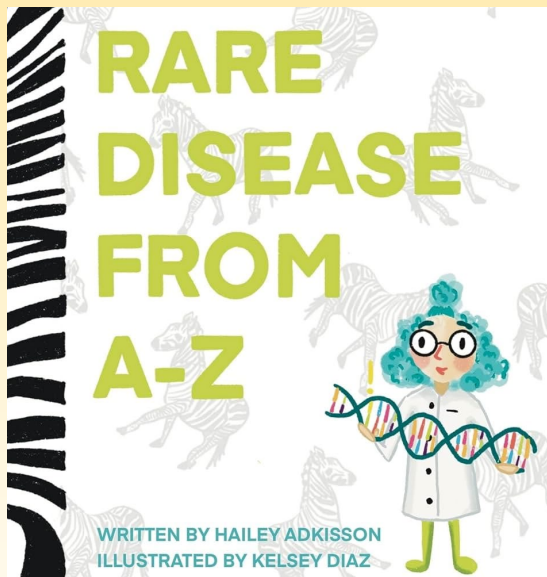
opens up a child-friendly discussion about identity, inclusion, and self-concept in light of the challenges and silver linings of living with a rare disease.



## *Rare Disease From A-Z*

Every page gives a description of the disease as well as how rare it is... While not every disease will have images of children on them, the ones that do are based off of real kids with the same diagnosis!

It's very important to us that we teach kids (and adults) real terminology, while explaining it in a simple way.



***SHOW YOUR STRIPES!***



St. Brigid students and faculty will be  
Celebrating Rare Disease Day on Friday, February 21<sup>st</sup>

Students are encouraged to ***dress down***, wearing

**Jeans**

on this day, to raise awareness of the daily challenges faced by those  
living with **genetic rare diseases**.



**Let's see your support with jeans for genes!**

The SPiCE Committee of SBK appreciates your support!

