

# YOUR GIFT MAKES AN IMPACT



NATIONAL FRAGILE X  
FOUNDATION



## What is Fragile X?

Fragile X is a group of conditions associated with alterations in the FMR1 gene on the X chromosome.



## Fragile X Syndrome

FXS is an inherited condition affecting intellectual, behavioral, and social development. It occurs in both males and females who have a full mutation of the FMR1 gene. Symptoms include intellectual disability, behavioral and learning challenges, and various physical characteristics.



## Fragile X-associated Primary Ovarian Insufficiency

FXPOI is a condition in which the ovaries are not functioning at full capacity, resulting in infertility, early menopause and other ovarian problems. FXPOI occurs in about 20% of women with the FMR1 Premutation.



## Fragile X-associated Tremor/Ataxia Syndrome

FXTAS is an "adult-onset" neurodegenerative condition associated with the FMR1 Premutation, more common in males than females over 50 years of age. FXTAS is associated with tremors, balance problems, and other neurological signs, and is often misdiagnosed as Parkinson's.



## What conditions benefit from Fragile X research?

- Alzheimer's Disease
- Parkinson's Disease
- Down's Syndrome
- Autism
- Cystic Fibrosis
- Polycystic Ovarian Syndrome
- Epilepsy
- ALS

## How common is Fragile X?

**1.5 million** individuals with the **Fragile X premutation**  
**100,000** individuals with **Fragile X syndrome**.

FXS is considered a rare disease. Rare diseases are defined as less than 200,000 individuals in the United States.

## How your gift to the National Fragile X Foundation makes an impact:



**\$50**

Helps guide a newly diagnosed family – to show them that it's going to be okay, and they are not alone on this journey



**\$100**

Helps support NFXF Advocates on Capitol Hill to share their story with their member of Congress, to help secure funding for research



**\$250**

Provides valuable, on-demand educational content, because knowledge is power, and knowledge improves lives



**\$500**

Helps bolster future generations of Fragile X professionals through support of younger researchers and clinicians

**Donate today at [fragilex.org](http://fragilex.org) or mail a check to:**

National Fragile X Foundation  
1012 14th Street NW, Suite 500  
Washington, DC 20005

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