

# Fragile X Syndrome

**Fragile X syndrome (FXS)** is a genetic condition that causes varying degrees of mental impairment ranging from mild learning disabilities to mental retardation (cognitive impairment). FXS is the most common inherited form of cognitive impairment known and a leading known cause of autism. FXS is caused by **one** gene that interferes with the formation of a special protein normally found in the brain. As many as **one in 151** women and **one in 468** men are carriers of this gene, and it affects one in 3,600 boys and one in 4,000 to 6,000 girls.

Some characteristics (*not all are always present*) of Fragile X Syndrome are:

- Mild learning problems to severe cognitive impairment
- Behavior issues such as ADHD and ADD
- Autistic-like features such as poor social skills, poor eye contact, hand-biting and hand-flapping
- Shyness and social anxiety
- Prominent ears, prominent forehead and long narrow face
- Sensitivity to sounds or lights
- Difficulty adjusting to change

Some older adults with premutations (carriers) may develop a neurological condition called **Fragile X-associated tremor/ataxia syndrome (FXTAS)**. Often misdiagnosed as a "Parkinson's-like" condition, individuals may also have symptoms of ataxia, neuropathy and dementia.

**Fragile X-associated primary ovarian insufficiency (FXPOI)**, commonly causes early menopause, is a condition that affects 20-25% of the female FXS carrier population.



## Where To Go For More Information



P.O. Box 1414  
Troy, MI 48099-1414  
313-689-3340  
[contact@fxam.org](mailto:contact@fxam.org)  
[Fxam.org](http://Fxam.org)



**Fragile X Syndrome Clinic**  
Alfred Taubman Health Care Center  
1500 East Medical Center Drive  
Ann Arbor, MI 48109  
734-764-0579  
[fragile-x-clinic.med.umich.edu/](http://fragile-x-clinic.med.umich.edu/)



## 20th ANNUAL GOLF OUTING

Wesburn Golf  
and Country Club  
September 7, 2019

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The Fragile X Association of Michigan is a 501(c)(3) (fed. Tax ID# 56-2450171) charitable organization.

313-689-3340  
[Fxam.org](http://Fxam.org)

## Mission

The **Fragile X Association of Michigan (FXAM)** unites the fragile X community to:

Enrich lives through educational and emotional support,

Promote public and professional awareness, and

Advance research toward improved treatments and a cure for fragile X syndrome.

Our sincere gratitude goes to the following businesses, organizations and individuals for their generous donations:

### The Mickelson (\$1,300+ )

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Waypoint  
Greg & Felcia Wurth

We would also like to thank the following businesses, organizations and individuals for their donations and/or time:

Bob Asmussen  
Rachel Bailey  
Daniel & Beverly Buckley  
Florence Coleman  
Rick Coleman  
Steven Fellows, Attorney at Law  
Joann Forde  
Bob & Joann Forde  
Kathy Forde  
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Weight Watchers  
Mike Weiss  
West Branch Country Club

*We apologize if we omitted listing your donation. Due to printing requirements this list is not complete. Contributions will be noted in our October newsletter.*