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Fragile



Fragile X Syndrome (FXS)

- Most common genetic cause of inherited intellectual disability and autism spectrum disorder (ASD).
- Early identification results in appropriate management and improvement in functioning. Risk assessment in other family members can lead to prevention of the disorder.
- Estimated incidence is 1 in 4000 males and 1 in 8000 females (Hagerman RJ., 2017)
- 99% of FXS is primarily caused due expansion of a segment of CGG repeats in the 5' UTR of FMR1

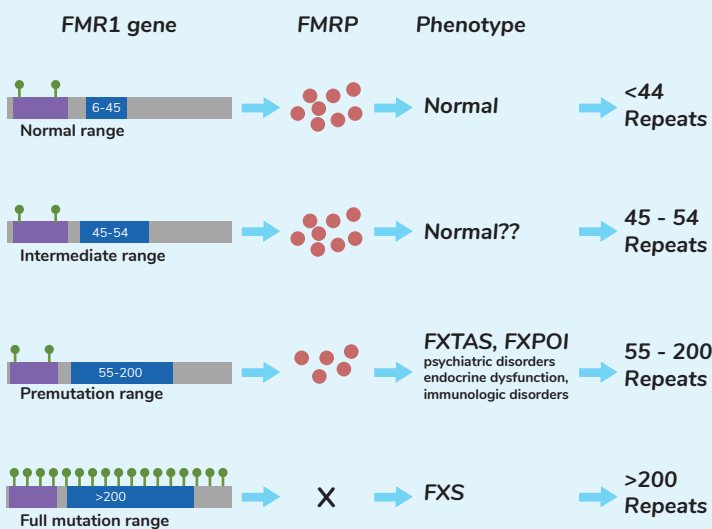


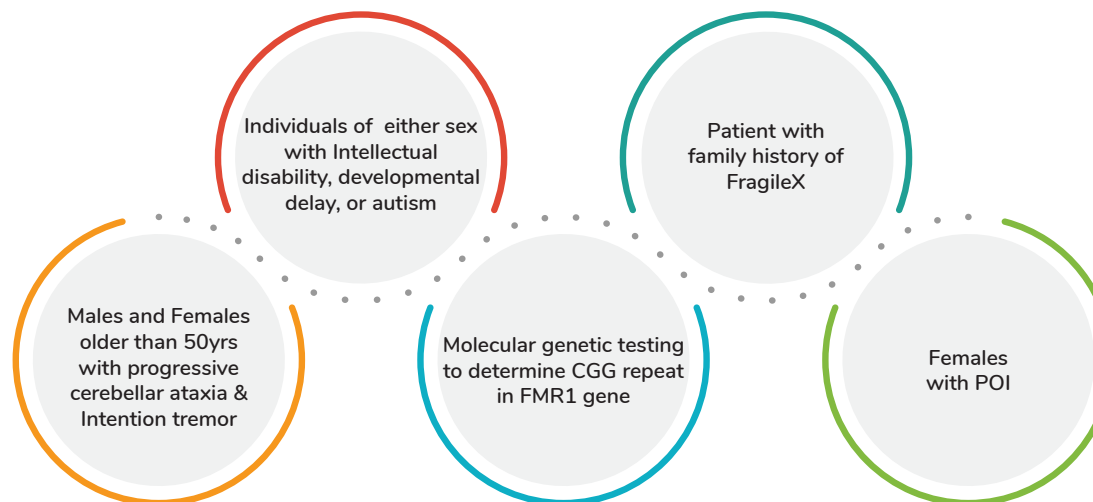
Figure Adapted from M. Mila, 2017. <https://doi.org/10.1111/cge.13075>

Methyl group
 CGC polymorphic region within the 5'UTR exon1
 CpG island of FMR1 gen

Key Features of this PCR(TP-PCR) based Assay:



Who Should Be Tested for Fragile X Syndrome:



Several medical professional societies including American Academy of Pediatrics Committee on Genetics have recommended offering chromosomal microarray (CMA) testing and Fragile X testing for individuals with ASD
 Consensus Statement of the Indian Academy of Pediatrics on Diagnosis and Management of Fragile X Syndrome in India (2019)

Test Details

| Test Code | Test Name | Sample Type | TAT |
|-----------|--------------------------------------|--------------------------|-----------------|
| MGM1221 | Fragile X Syndrome by PCR for Male | Peripheral blood in EDTA | 21 Working Days |
| MGM1222 | Fragile X Syndrome by PCR for Female | Peripheral blood in EDTA | 21 Working Days |

Reference PMID: 28960184, 33795824, 25227148