DECCAN • 110110

Vice

disrupts the production of

a protein (FMRP) essen-

tial for brain develop-

Suhas,

ment," he says.

President

Fragile X Syndrome in children

Doctors urge parents to watch for developmental delays, social withdrawal, and hyperactivity potential red flags of this genetic disorder

KNOW THE RED FLAGS

- Speech or language delays
- Learning disabilities
- Repetitive speech or movements
- Poor social interaction
- Sensory sensitivities (light, noise, textures)
- Difficulty with transitions
- Anxiety or mood swings
- Autism-like traits



PRAMITA BOSE

Then three-year-old Varun began struggling

in playschool, his parents grew increasingly concerned. His cognitive development

lagged, and he showed little interest in learning.

Ten-year-old Eshani, meanwhile, withdrew socially

EARLY SIGNS TO WATCH FOR CHILDREN WITH FRAGILE X MAY DISPLAY:

- Speech delays
- Attention issues
- Hyperactivity
- Emotional meltdowns
- Sleep disturbances
- Learning disabilities Autism-like behaviours (e.g., hand-flapping, avoid-
- ing eye contact) Difficulty adapting to

routine changes Physical signs are subtle in early stages, but neuroimaging like 3T MRI can offer insight into underlying brain changes.

IN SPECIFIC CASES, NEUROIMAGING LIKE 3T MRI CAN AÍD IN UNDERSTAND-ING BRAIN FUNCTION AND DRAFTING PER-**SONALISED THERAPEUTIC PLANS. A HOLIS-**TIC, COORDINATED APPROACH BETWEEN **HEALTHCARE, SCHOOL AND FAMILY SUP-**PORT SYSTEMS IS VITAL FOR LONG-TERM IMPROVEMENT." - DR MALINI SABA

'THE BRAIN IS A DELICATE MACHINE'

Psychoanalyst **Dr Malini Saba**, founder of the Saba Family Foundation, adds: "FXS can affect how a person learns and responds to the world. A small shift in DNA can alter how we react emotionally. It's a reminder of how complex the brain is."



NO CURE, BUT HELP IS AVAILABLE

"While there's no cure for FXS, symptom management through early intervention makes a significant difference," says Dr Suhas. In some cases, medication is prescribed for

Dr Saba adds, "There's no antidote, but getting timely help really changes outcomes. Therapies must be tailored to each child's needs — helping with emotional regulation, communication, motor skills, and daily functioning."

WHY BOYS ARE MORE AFFECTED

XS affects boys $oldsymbol{\Gamma}$ more severely than girls. "Males often face more pronounced intellectual and behavioural challenges, while females may experience subtler learning or emotional difficulties," notes Dr Suhas.

THE GENETICS BEHIND IT **HOPE LIES IN** RESEARCH XS stems from CGG

Though current ■ science can't reverse the mutation, researchers are exploring gene therapy and protein replacement. "We're not there yet," admits Dr Suhas. "but science is advancing." In the meantime, families are urged to recognise the signs early, seek support, and advocate for coordinated care across schools, homes, and healthcare systems.

