

AUTISM – HOW UMBILICAL CORD STEM CELLS CAN POTENTIALLY TREAT THE DEBILITATING CONDITION

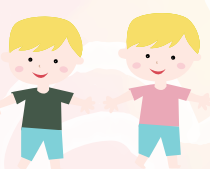
#AutismAwarenessMonth

QUICK FACTS ABOUT AUTISM

Autism now affects

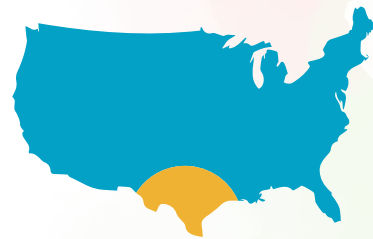


1 in 68 children



1 in 42 boys

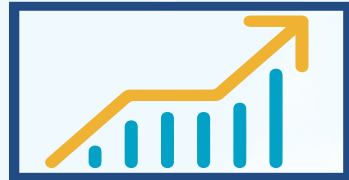
Boys are nearly **5x** more likely than Girls to have autism.



2 Million out of 325.7 million has AUTISM in U.S.



Autism costs a family \$60,000 a year on average.

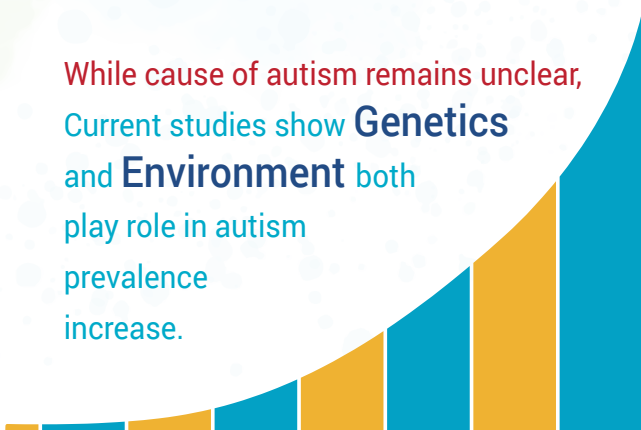


Autism prevalence figures are growing and is one of the fastest-growing developmental disorders in the U.S.

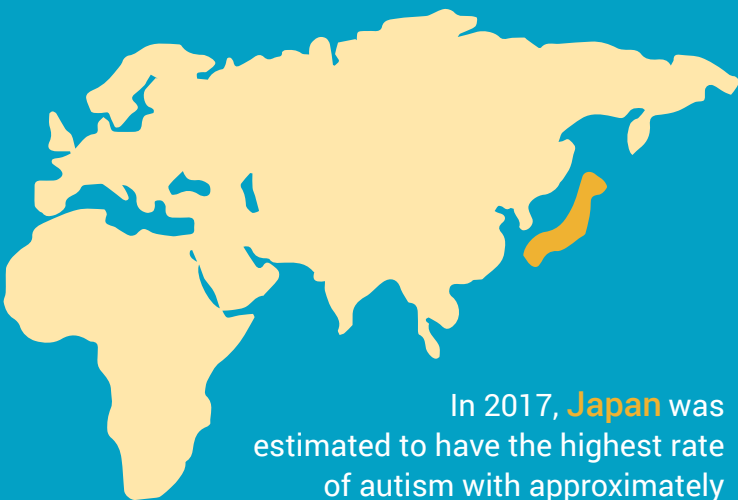
While there is no medical detection or known cure for autism, thousands of children have shown significant improvement resulting from early diagnosis and use of effective interventions.



While cause of autism remains unclear, Current studies show **Genetics** and **Environment** both play role in autism prevalence increase.



There are around 700,000 people on the autism spectrum in the UK that's more than 1 in 100. If you include their families, autism is a part of daily life for 2.8 million people.



In 2017, Japan was estimated to have the highest rate of autism with approximately 161 Children per 10,000 with the disorder.

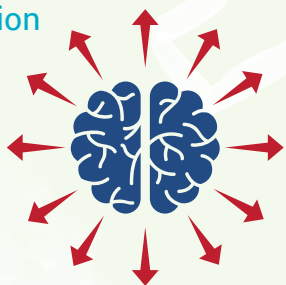
A NEW HOPE FOR AUTISM



On a clinical trial, 30 Children with Autism received an infusion of their own cord blood stem cells collected at birth.

Any positive effects seen after the treatment will most likely not wear off over time.

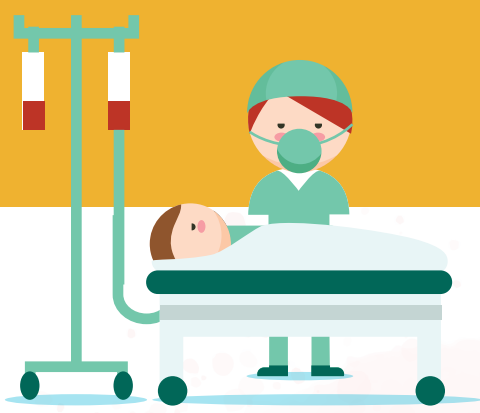
When children with autism gain a new skill, it's like making a new connection in the brain). The brain shouldn't deteriorate unless it is a degenerative disease.



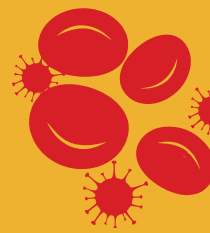
60% of the parents of the children who participated in the study said they saw moderate to significant improvements, especially in Language & Social Skills.



Afterwards, the participants were regularly tested for a year using a variety of psychological and cognitive assessment tools.

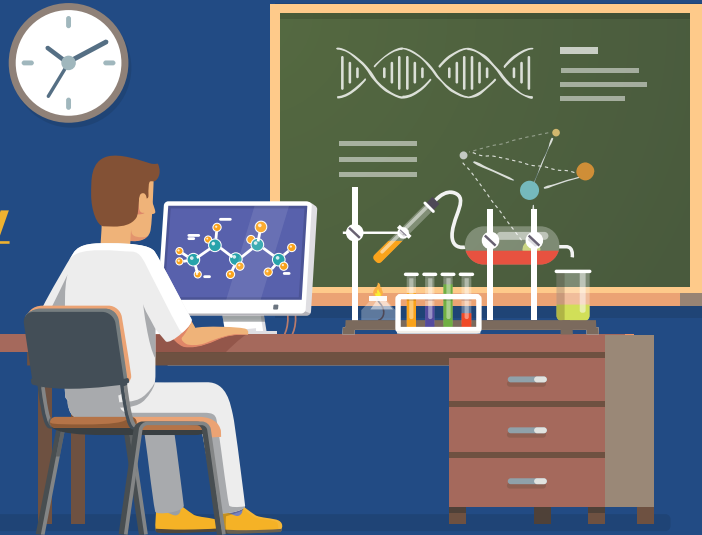


Intravenous administration of umbilical cord mesenchymal stem cells (MSCs) has been shown in multiple clinical trials to decrease inflammation which may alleviate symptoms of autism.



The rationale behind treating autism with umbilical cord tissue-derived mesenchymal stem cells is that autism, and its degree of severity, has been significantly correlated with inflammatory and neuro-inflammatory cytokines including macrophage-derived chemokine (MDC) and thymus & activation-regulated chemokine (TARC).

Research has shown that cord blood cells can help reduce the inflammation and signal healthy cells to help repair areas of the brain which have been damaged due to autism.



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