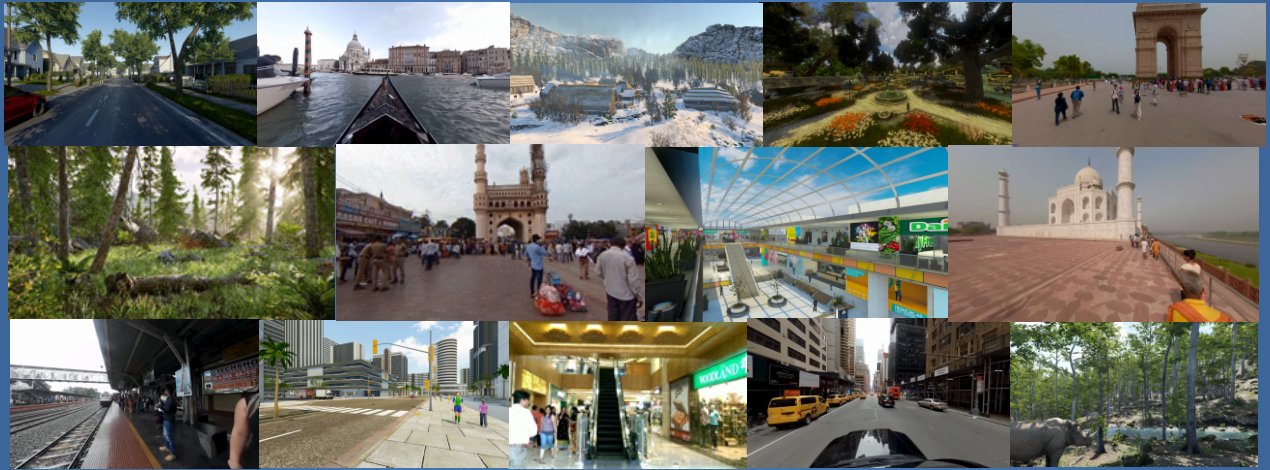




VR ROOM TREATMENT



Parijma Neurodiagnostic & Rehabilitation Centre

Developed by HD FALCON | Designed by 3D Content Studio

**Introducing** the first of its kind in India, “AKHIL Virtual Reality Room”

AKHIL (in Devanagari: अखिल) as the name connotes - "whole".

This innovative treatment is a Growth oriented, complete, novel, effective and safe treatment for situation specific anxiety and fears/phobias along with giving real-life experience for children aged between 3-18 years old with ASD and average ability. The treatment comprises sessions of Cognitive Behavior Therapy within a personalized Immersive Virtual Reality environment, equipping young people to manage their anxiety. It will also act as a medium of teaching by immersing them in a world of colour, nature and real world experiences. This will help them to learn and absorb better and faster.

## What is अखिल VR Room?

AKHIL VR ROOM is an Assistive Virtual Reality technology that can be used to support and enhance communication & learning for children with **Autism**, regardless of speech ability. It is a modified cognitive behavior therapy delivered by a health care professional within an innovative Immersive Virtual Reality setting. No goggles are required.

**“Tell me and I forget, Teach me and I may remember, Involve me and I learn”**

**Benjamin Franklin**

- The treatment is made up from Initial preparatory work around emotional understanding and planning therapy/treatment.
- During treatment, the young person sits inside the Virtual Reality Room with a therapist.
- Projected images & videos on the walls & ceiling of the Virtual Reality Room are made to replicate the young person’s individual situation specific anxiety – for example, a specific home, school or community based situation that can be visually represented, and that which causes them anxiety.
- The health professional works with the young person on cognitive and behavioral strategies that are likely to be helpful in dealing with their real-life scenarios.
- The therapist will work on this situation specific virtual reality life scenarios with the child and guide him/her to overcome it.
- Multiple tailor-made videos can be created for different children with different abilities, each video focused on improving the child's limitations. It could be a video on colours, numbers, animals, nature etc.
- Children with autism and ADHD can be taught much better and faster because they will be fully involved in this realistic virtual environment.

## Benefits

- Lead to improvements in situation specific anxiety, phobias and fears for most children, meaning real life functional improvements for activities that were previously not possible.
- Have a lasting effect – from the research and clinical information available at present, most children who benefit continue to do so even after 12 months

## VR Room Includes

Most situations that can be visually and audibly represented can be treatment targets.

- VR Forest with wildlife and waterfall
  - VR Public spaces like shopping malls, etc.
  - VR Road with Dogs, cats, vehicles & pedestrians
  - VR Scenes in various lighting
  - VR Parks
  - VR Snow mountains
- and many more VR Scenarios



Exclusive Feature: Ability to showcase different Actual Real-World locations in VR Room opening up endless possibilities.

## How अरुंhil VR Room started ?

The project was conceptualized under the able and experienced guidance of Dr. Suresh Aroor and Dr. Sudhindra Aroor, and aided by other like-minded professionals, in particular, Dr. MSPLN Raju, MBBS, DCH (London) of Kakinada, Andhra Pradesh.

Dr. MSPLN Raju is a practicing Pediatrician with over 40 years experience in medical care of children. He takes a personal interest in physical, behavioral and emotional well-being of children from birth until the age of 14 years.

Our efforts are to make PARIJMA into one of its kind, unique, equipped with latest technology, affordable Pediatric Neuro Rehabilitation Centre that is available to all needy, especially in areas where there is a dearth of such quality facilities.

By the strenuous efforts and able guidance of Dr Sudhindra Aroor, this new year 2022, another innovative feather is being added to PARIJMA - which is both joyful and effective.



# About Parijma Neurodiagnostic & Rehabilitation Centre

Parijma Neurodiagnostic & Rehabilitation Centers, Bengaluru & Mangaluru is, & continues to be a pioneer in the field of pediatric neurology & neuro-rehabilitation for the last 30 years.

Parijma is the brainchild of Dr Suresh Rao Aroor, one of the first pediatric neurologists of South India & it has been his untiring endeavour to provide  
“TOTAL & COMPREHENSIVE PEDIATRIC NEUROLOGY CARE UNDER ONE ROOF”

Under his able guidance, PARIJMA brings together super-specialists of neurology & all its allied fields to work together for overall development of each child. Founded & run by pediatric neurologists, Parijma has the largest & most comprehensive exclusive pediatric neuro-rehabilitation facility in the private sector. We have a multi-disciplinary team of > 35 dedicated therapists in the fields of Physiotherapy, Child psychology, Early intervention & Infant stimulation, Occupational therapy, Speech therapy & Remedial / Behaviour therapy.

We have among the biggest set-ups for exclusive pediatric neuro-rehabilitation in the country with a multi-level & customized rehabilitation plan for each child & every child monitored at every level of different therapies till graduation. With over 30 years of experience in exclusive pediatric neuro-rehabilitation, we have developed our own customized therapy equipment as well as innovative & fun therapy activities for optimum child development. This is borne out by the trust of thousands of parents and our vast number of children with neuro-developmental disorders who have now graduated from Parijma.



## Facilities

- Neurology Consultations
- Physiotherapy & Neuro-Rehabilitation
- EEG, ENMG, BAER, VEP
- Speech Therapy
- Psychological Assessment
- Group Therapy
- Infant Stimulation
- Behaviour & Remedial Therapy
- Occupational Therapy
- IMPRESSC Therapy
- TRAMS Therapy



## Speciality Areas

- Pediatric Neurology
- Autism
- Epilepsy
- Cerebral Palsy
- Child Psychology
- Headache
- Neuromuscular Disorders
- Learning Disabilities
- Hyperactivity
- Intellectual Disability

Our expertise in the above areas are both in terms of trained specialists & also novel & unique treatments.

# What is Autism?

**Autism** is known as a “spectrum” disorder because there is wide variation in the type and severity of symptoms people experience. Autism is a complex, lifelong developmental disability that typically appears during early childhood and can impact a person’s social skills, communication, relationships and self-regulation. People with ASD have difficulty with social communication and interaction, restricted interests & repetitive behaviors. The present yearly incidence rate is around 1 in 59 children. However in the last 5-10 years, the incidence rate has gone up tremendously.

## What are the causes for Autism ?

The known potential causes include Genetics, Environmental factors, Dietary / Gut dysbiosis theory.

## What are the treatments for Autism ?

There is no single treatment for Autism. It is a combination of –

1. Early intervention therapy.
2. Medications
3. Supplements & diets



# Understanding Autism

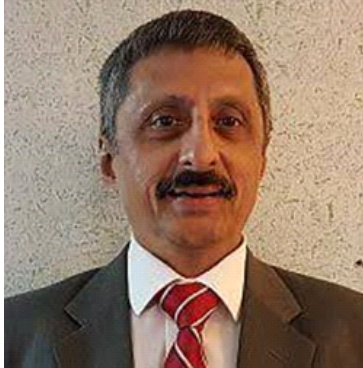
**While there is currently no known single cause of autism, early diagnosis helps a person receive the support and services that they need, which can lead to a quality life filled with opportunity.**

Treatment for ASD should begin as soon as possible after diagnosis. Early treatment for ASD is important as proper care can reduce the individuals difficulties while helping them learn new skills and make the most of their strengths.

The wide range of issues facing people with ASD means that there is no single best treatment for ASD. Working closely with a doctor or health care professional is an important part of finding the right treatment program.

It is important to note that when the challenges of autism are understood and appropriately addressed, and the autistic is accepted for who they are, the potential of a person on the autism spectrum is no less than a neurotypical person. Too many professionals look at autism as something that needs to be controlled and contained. Autism, as a neurodiversity, needs to be understood. Once understood, then the person's potential can be realized. This does not mean that Autism is not a disability. There are for sure aspects of Autism that are disabling and very challenging. Nevertheless, seeking to understand the neurodevelopmental differences in an effort to promote growth and development can help the autistic individual reach their potential while addressing the disabling aspects.

# Our Pioneers



## Dr. Suresh Rao Aroor

Parijma is the brain child of Dr. Suresh Rao Aroor, a qualified Pediatric Neurologist.

He has conceptualized the need for multidisciplinary team approach for most neurologic disorders and has started this very unique institute, which has most disciplines required for the diagnosis, treatment and rehabilitation of such patients. – Total neurocare under one roof.

### Education Qualification:

- M.B.B.S., D.C.H., M.D., (PAED) – Kasturba Medical College (KMC), Mangalore
- D.M (NEURO), NIMHANS, Bangalore
- Fellowship in Pediatric Neurology from University of California at Los Angeles – UCLA (U.S.A.)
- FRCP (Glasgow).

### Work Experience:

- 1.Worked at National Institute of Mental Health and Neuroscience (NIMHANS), Bangalore for 11 years as Faculty in Pediatric Neurology (1981-1991)
- 2.Worked – 10 years at Manipal Hospital, Bangalore as HOD & Chief Neurologist (1991-2002)
- 3.At present working at Parijma Neurodiagnostic and Rehabilitation Centre, Bangalore & Mangaluru as Director and Pediatric Neurologist(1991–till date)

**Numerous special achievements, honours, affiliations & publication to his credit.**



## Dr. Sudhindra Aroor

Dr. Sudhindra Aroor is a renowned paediatric neurologist at Parijma neurodiagnostic and rehabilitation center where we have more than 11,000 patients with epilepsy on active follow-up.

Main interests and expertise lies in the field of epilepsy, headache and stroke disorders. He is a well-known member of the Indian Academy of Paediatrics & Indian Academy of Neurology.

### Education Qualification:

- M.B.B.S., M.D., (PAED)-K S Hegde Medical Academy, Mangalore
- D.M (NEURO) – MS Ramaiah institute of Neurosciences Bangalore

### Work Experience:

- Consultant Pediatric Neurologist at Parijma Medical Centers' – Wilson Garden, HBR Layout, Bengaluru & Parijma Institute of Neurosciences – Falnir road, Mangaluru
- Visiting consultant Pediatric Neurologist at Rangadore Memorial hospital & Malathi Manipal hospital, Bengaluru.

**Numerous special achievements, honours, affiliations & publication to his credit.**

# Ashwasan Charitable Trust

ASHWASAN CHARITABLE TRUST is a charitable wing of Parijma neurodiagnostic and rehabilitation centre formed by a group of like-minded patients and few faculty members of Parijma.

## Our Aim

- 1.To provide for overall improvement of physically & mentally challenged children including those with neurological disorders like Cerebral palsy, epilepsy, mental retardation, autism, learning disability etc.
- 2.To provide a platform for parents to come together to avail of organised and comprehensive services for their children.
- 3.Dissemination of scientific and up to date information on neurological disorders by doctors and therapists.
- 4.Setting up of a corpus fund which can be used for medical and therapy expenses of needy patients.

## Our activities

- 1.Distribution of free anti epileptic drugs. Authentic patients who are below poverty level are identified and supported. ( At present, around Rs 4 Lakhs worth of medication are being dispensed annually to these patients ).
- 2.Providing special appliances to handicapped children for their rehabilitation.
- 3.Completely voluntary based trust. All work carried out by volunteers & trustees without monetary returns.
- 4.All events and promotions organised annually are sponsored by corporate organizations. Hence all donations are used only for betterment of disabled children.

## Donations

We welcome donations from public which are INCOME TAX EXEMPT (under section 80G)

# About Development Team

HD FALCON in collaboration with 3D Content Studio designed and developed the AKHIL VR ROOM **“A fusion of design and technology.”**

**HD FALCON:** specializes in providing professional digital marketing display products. We provide our customers with a one-stop solution for commercial display products, especially , 3D holographic display, Digital free-standing kiosk, Rear projector displays and Curved/flat video wall solutions. Our products are widely used in all kinds of high end applications, such as banks, hotels, board rooms, public control center, airport, military monitoring center and more."

**3D CONTENT STUDIO:** We provide Highest Quality 3D Holographic Content, 3D Product Visualization, Professional Logos Designs, 3D Animation & Visual development & Augmented Reality development & IoT. We create personalized, engaging and impactful content by using novel technologies. We help companies sell their products by providing 3D product animation and video production services. Our team is spread across the world, dynamically working together through efficient project management and cloud storage.



VR ROOM TREATMENT

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