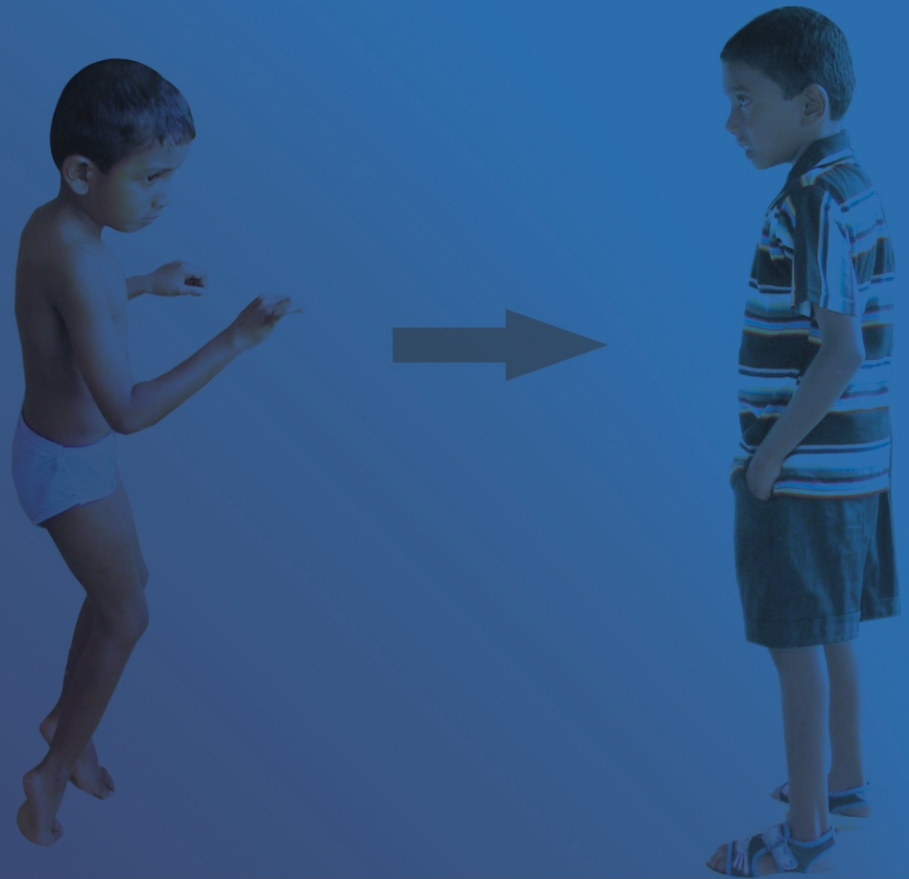


CEREBRAL PALSY : FUNCTIONAL REHABILITATION USING SEMLARASS



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Dr. Deepak Sharan
Biju Nirmal Jacob
Ajeesh P S

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Dr Deepak Sharan with Biju Nirmal Jacob (left) and Ajeesh P S (right)

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ABOUT THE AUTHORS

Dr. Deepak Sharan

After graduation and post graduation in Orthopaedics from JIPMER, Pondicherry, Dr. Sharan trained for over 5 years at the topmost Paediatric Orthopaedic centers in the world with an expertise in the management of Cerebral Palsy: Nottingham, Cardiff, Dundee (UK), San Diego, Los Angeles and Stanford (USA), besides obtaining postgraduate qualifications in Orthopaedic Engineering and Orthopaedic Rehabilitation Technology. Dr. Sharan is currently a member of the expert committee (of 5 physicians) on Cerebral Palsy, constituted by the Ministry of Social Justice and Empowerment (Govt. of India) in 2003-2004 to prescribe the national assessment norms for Cerebral Palsy and Autism. He is also an advisor to the National Trust for the Welfare of Persons with Autism, Cerebral Palsy, Mental Retardation and Multiple Disabilities, and to the Disability Commissioner (Govt. of Karnataka) and has conducted several training workshops in Bangalore on appropriate case selection for rehabilitative surgery for orthopaedic surgeons in the government sector. Dr. Sharan was honoured by the President of India, Dr. A P J Abdul Kalam in 2005 for developing SEMLARASS and was given National Disability Award in 2008 by the Govt. of India as the "Best Individual working for the Cause of Persons with Disabilities". Dr. Sharan is a member of American Academy of Cerebral Palsy and Developmental Medicine, American Academy of Orthopaedic Surgeons, Indian Orthopaedic Association, Pediatric Orthopaedic Society of India, Indian Shoulder Society, Indian Foot Society and Spina Bifida Association of India. Dr. Sharan founded RECOUP in 2001, and has treated over 10,000 patients with Cerebral Palsy over 17 years. He has produced over 100 publications or conference presentations on Cerebral Palsy.

Biju Nirmal Jacob

After obtaining his graduation and post graduation in Physiotherapy from Mahatma Gandhi University, Kerala, Mr. Jacob received specialised training in Pediatric Rehabilitation and Manual Therapy, and was the first physiotherapist to join RECOUP in 2001. He is presently working as a Senior Physiotherapist and Senior Manager- Academics at RECOUP, and is in charge of 15 major research projects.

Ajeesh PS

After obtaining his graduation and post graduation in Physiotherapy from Mahatma Gandhi University, Kerala, Mr. Ajeesh received specialised training in Pediatric Rehabilitation and Manual Therapy, and is presently working in RECOUP as Senior Physiotherapist and Manager- Training and is in charge of 15 major research projects.

Dr. Deepak Sharan, Biju Nirmal Jacob and Ajeesh PS have earlier edited RECOUP's HANDBOOK ON POST-OPERATIVE REHABILITATION FOR CEREBRAL PALSY in 2006, which was the precursor to

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We thank all the parents and patients who have given their kind contributions and cooperation to this book.

It is our fervent hope that this book will fulfil your clinical requirements and enhance the functional rehabilitation of children with cerebral palsy. We welcome your feedback about this book and would be grateful if any inadvertent errors are pointed out to us.

**Dr. Deepak Sharan
Biju Nirmal Jacob
Ajeesh PS**

FOREWORD

Dr. Takashi Matsuo, M.D.

Minamitama Orthopaedic Hospital,

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January 12, 2008



It is a great pleasure to introduce Dr. Deepak Sharan as a distinguished orthopaedic surgeon who understood the concept of OSSCS (Orthopaedic Selective Spasticity-control Surgery) and practically used it in his orthopaedic practice on cerebral palsy patients, combining with his surgical approach called Single Event Multilevel Lever Arm Restoration and Anti Spasticity Surgery (SEMLARASS) .

I am an orthopaedic surgeon mostly involved in treatment of cerebral palsy. While observing the disappointing postoperative outcomes after traditional release surgery, and while analysing the cause of these disappointing results, I noticed a consistent pattern of the spastic muscles that led to the origin of the concept of Orthopedic Selective Spasticity Control Surgery (OSSCS). Here, almost all type of hypertonicity (spasticity and involuntary movement) could be controlled without losing body stability.

While combining OSSCS with advanced orthopaedic surgery techniques such as open reduction of the hip, derotational osteotomy of the hip and correction of bony deformities, most of the motor disorders in cerebral palsy could be treated with magnificent functional results.

Dr Sharan found the OSSCS concept in my book, combined it with his own single event multilevel bony surgeries and has performed this combined single event multi level OSSCS (entitled SEMLARASS) for more than 600 patients all over India and other countries for the past 8 years with very encouraging functional results. Thus, he is one of the world-wide pioneers in management of cerebral palsy.

In November 2007, he invited me to the 4th National Conference of Childhood Disability Group at Bangalore, India, on Functional Management of Developmental Disabilities as a keynote lecturer. Here, while lecturing and operating with him, I had an opportunity to observe his enthusiasm in practicing treatment of cerebral palsy as a head of a multi-disciplinary rehabilitation team. His knowledge, experience and enthusiasm for management of cerebral palsy are well documented in this book with his recognition of importance of well trained, dedicated and qualified multidisciplinary team.

I trust this book will give enormous knowledge and will become an appropriate guideline to all coworkers on CP management as well as patients and parents.

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