

Dr. Lukeshkumar Rajendra Bhuyar

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Summary:

- Health Care Rehabilitation professional with experience of over **12+ years in Prosthetics and Orthotics** at All India Institute of Physical Medicine and Rehabilitation (A.I.I.P.M.R) and OTTO BOCK INDIA
- **Clinical Prosthetist and Orthotist** and Academic Staff (Demonstrator) at AIIPMR, Government of India and **recognized by MUHS University ,Nashik**
- Provided **services to more than 10000+ patients with Locomotor Disabilities** in a multidisciplinary Rehabilitation set up
- Completed Masters degree in Prosthetics and Orthotics (MPO) to assure in-depth pragmatic knowledge of Prosthetics and Orthotics, under **MUHS (Gold Medalist-2018)**
- Recognized as a **top performer** to meet organizational goals and customer satisfaction
- Engaged as **Research Associate** with Biomedical Engineering and Technology incubation Centre (**BETiC**), **Mechanical Engg.Dept., IIT Bombay**

Skills and accomplishments:

- Prosthetic and Orthotic Management
- CAD CAM analysis and fitment
- Prosthetic and orthotic patient evaluation
- Proficient with OTTO BOCK modular systems such as Harmony System, Hydraulic Knee, Pneumatic Knee and C -Leg and OSSUR Products
- Well versed with conventional systems such as 4 bar linkage, drum break and through knee amputation knee joints
- 3D printing Technology

PROFESSIONAL EDUCATION

Academic

Masters in Prosthetics & Orthotics, All India Institute of Physical Medicine and Rehabilitation, Mumbai, India, under MUHS, 2016 (July)-2018 (July)

Bachelor in Prosthetics & Orthotics, All India Institute of Physical Medicine and Rehabilitation, Mumbai, India, under MUHS, 2005(July)-2009 (Feb)

Other courses

Entrepreneurship Awareness Programme – 2005.

Accounts Assistant Course – July 2009.

Medical Device Innovation Camp, IIT Bombay-2019

Auto Cad Lt 2000 course –Dec 2009.

PROFESSIONAL EXPERIENCE

Prosthetist and Orthotist

March 2015 – Till date

- Clinical Prosthetic and Orthotic assessment and fitting of lower extremity prosthesis
- Proficient time management to evaluate ,adjust and fit orthotic Devices
- Fitment of off shelf and custom spinal orthosis such as Milwaukee, Boston brace.
- Fitted different type of prosthetic feet, modular components and knee joints suiting

- patient activity level
- Fitment of upper limb prosthesis at different amputation levels
- Attending case clinics to discuss patient issues in a rehabilitation team.
- Suggesting and selecting materials and components used for custom AFO,KAFO,diabetic shoes with inserts.
- Repair and modify custom and prefabricated Orthoses
- Providing lectures in prosthetics and orthotics to AIIPMR academic batch
- Paper setter and Practical examiner for prosthetics and orthotics to MUHS university
- Participating in continuing rehabilitation programs from the Institute

All India Institute of Physical Medicine and Rehabilitation (AIIPMR), Mumbai, India

Junior Prosthetist and Orthotist

Aug 2009 – March 2015

- Orthotic assessment and fitting of lower extremity prosthesis
- Fitment and measurement of custom functional Devices such as KAFO,AFO,LSO,Diabetic shoes, compression stockings, knee orthosis and other such Devices.
- Evaluated and performed fitting on adults and children for custom and prefabricated Orthotic devices
- Evaluation and fitment of custom made spinal orthosis.
- Fitment of fracture braces related to trauma and sports injuries

OTTO BOCK India Pvt. Ltd. Mumbai

Clinical Prosthetist and Orthotist

March-Aug, 2009

- Evaluation ,casting ,designing and fitting of lower extremity prosthesis
- Attended fitment of microprocessor knee control joints such as C- leg
- Gait analysis of patient and suggestive corrective action on the prosthesis
- Fitment of hip disarticulation prosthesis
- Fitment of Rotationplasty prosthesis.
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All India Institute of Physical Medicine and Rehabilitation (AIIPMR), Mumbai, India

Internee

Sept 2008-Feb 2009

- Evaluation Casting , designing and fitment of Lower/Upper Extremity Orthoses
- Evaluation Casting , designing and fitment of Lower/Upper Extremity Prostheses
- Evaluation Casting , designing and fitment of Spinal Orthoses
- Attended CP-Clinic ,Diabetic Clinic ,P&O Critics
- Repair and modify custom and prefabricated Orthoses.
- Participating in Continuing Rehabilitation Education programs conducted by the Institute

PROFESSIONAL DEVELOPMENT

- **Rehabilitation council of India (Reg. No:A13667)**
- **Life Member: Orthotic and Prosthetic association of India (OPAI)**
- **Life Member: Indian Association of Assistive Technologist (IAAT)**
- **Life Member: Indian Federation of Neuro Rehabilitation (IFNR)**
- **Life Member: All India Cricket Association for the Physically Challenged (AICAPC)**
- **Life Member of Western India Prosthetic and Orthotic Society (WIPOS)**
- **Life Member of Society for Technologically Advanced Materials of India (STAMI)**
- **Life Member of InSc International Publishers (IIP)**
- **Reviewer of International Journal of Novel Research and Development**
- **Reviewer of International Journal of Current Science**

Continuing Rehabilitation Education (CRE)

1. Hands on CRE on **Advances in the Prosthetic Management of Rotationplasty (Resource Person-Faculty)** at AIIPMR, Mumbai, October-2019
2. CRE on **Principles of Amputee Rehabilitation : Current Perspective at Artificial Limb Centre (ALC) Pune, May – 2019**
3. Hands on Training in **Upper Extremity Hand Splinting** at POCL, Mumbai, 2018
4. **Total surface bearing trans tibial socket and hydraulic ankle alignment workshop** by Endolite India Pvt. Ltd. at AIIPMR in 2016
5. **Hands on CRE on Halo application in Spinal Injuries and Deformities at Indian Spinal Injury Centre, Delhi** in Nov-2014
6. **Workshop on effect of Echelon prosthetic foot from Endolite, held by ISHWAR institute Delhi** in 2013
7. Participated in Continuing Rehab. Programme (CRE) on **Modular Prosthetic knee joint**, by ENDOLITE, Mumbai -2009
8. Participated in Continuing Rehab Programme on **Modular Trans-Femoral Prosthetic socket by OTTO Bock**, Mumbai. – 2009
9. **Participated in Continuing Rehab Programme on Mayo-electric arm prosthesis by OTTO Bock**, Mumbai. – 2000

Conferences Attended

1. Deshpande- Gopalkrushnan Symposium on Innovation and Entrepreneurship, IIT Bombay in Jan 2019
2. 1st National Conference of Indian Association of Assistive Technologists, Bhubaneswar, Orissa in Dec 2018
3. OPAI MIDCON-2017 on Cutting Edge Technology with Robotics in Prosthetics & Orthotics for Divyangjan, Deharadun in March 2017
4. XXII OPAI National conference on Prosthetics and Orthotics at Delhi in 2016
5. XVIII National Conference of Orthotic and Prosthetic Society of India (OPSI) – 2008
6. Pre Conference Workshop on Podiatry and its management.- 2008

Scientific Papers/ Posters presented in Conferences

1. Prosthetic management of Patient with Rotationplasty – A case study; 1st National Conference of Indian Association of Assistive Technologists, Bhubaneswar, Orissa in Dec 2018
2. Stance Controlled KAFO ; 1st National Conference of Indian Association of Assistive Technologists, Bhubaneswar, Orissa in Dec 2018
3. Assistive Technologies in Stroke Rehabilitation” Empowering the Patients with Self- Management (poster);1st National Conference of Indian Association of Assistive Technologists, Bhubaneswar, Orissa in Dec 2018
4. Review of Osseointegration in the field of Prosthetics; OPAI MIDCON-2017 on Cutting Edge Technology with Robotics in Prosthetics & Orthotics for Divyangjan, Deharadun in March 2017
5. Prosthetic management of Rotationplasty; Orthotic and Prosthetic Association of India (OPAI) conference Jan-2016.
6. Indigenously developed Casting Apparatus and Bracing For the Correction of Genu Varum and Genu Valgum Defprmities:- Orthotic and Prosthetic Association of India (OPAI) conference Jan-2009

Research paper publications

1. Orthotic management of Idiopathic Scoliosis by Milwaukee brace-A case study; JOPAI ,Issue 2, June 2014
2. Comparative analysis between Rotationplasty Prosthesis made with foot in Full Plantar Flexion and Foot in 10 degrees short of Full Plantar Flexion; JOPAI, Issue 3, December 2019
3. Prosthetic Fitment Outcomes in Patient with Rotationplasty- A Case Series; International Journal of Healthcare & Biomedical Research, Volume 8, Issue 3, April 2020
4. Cost effective Transradial Assistive Prosthetic Hand; International Journal of Science and Research(IJSR), Volume 9, Issue 9, September 2020
5. Anatomical Motion Knee Joint – A new Design Concept of Prosthetic Knee Joint for Knee Disarticulation (KD) Amputation; IOSR Journal of Research & Method in Education (IOSR- JRME), Volume 10, Issue 5, Series 6 (Sept-Oct. 2020)
6. Dynamic Torticollis Orthosis – A new Design Concept of Cervical Orthosis for Children with Torticollis; IOSR Journal of Dental and Medical Sciences (IOSR-JDMS), Volume 19, Issue11, Series 2 (November-2020)
7. Non-Invasive Pin-less halo Orthosis; International Journal of Novel Research and Development, Volume7 issue 1, Jan 2022
8. Dynamic Progressive Orthosis for Elbow Flexion Contracture; International Journal of Novel Research and Development, Volume7 issue 1, Jan 2022
9. Comparative Analysis of Solid AFO vis-à-vis Articulated AFO using flexible ankle hinges in Children with Cerebral Palsy Spastic Diplegia with age group 5-12 years in terms of Gait Parameters; International Journal of Health Science and Research, Vol.12; Issue 2; Feb 2022
10. Ambulating the 'Different': A Prosthetic Approach towards Conservative Management of Congenital Anomalies, Volume7 issue 2, Feb 2022

Patent

1. **“DUAL MODE WHEELCHAIR FOR LOCOMOTOR DISABLED PEOPLE” (CBR No. 26672)**
2. **“TRANSTIBIAL PROSTHESIS WITH PROVISION FOR SQUATTING” (CBR NO. 22028)**
3. **“ANATOMICAL MOTION PROSTHETIC KNEE JOINT (AMPKJ)” (CBR NO. 26522)**
4. **“PROSTHETIC DESIGN FOR ROTATIONPLASTY” (CBR NO. 747)**

Awards Felicitated

- **Best Screening Device Research- Award at 5th MEDIC-2019, IIT Bombay**
- **Outstanding performance in MPO exam Award by Dr.S.Venketesh Director General of Health Sciences (DGHS), Govt. of India**
- **Outstanding Dissertation in MPO by AIIPMR society for Promotion of Medical Research**
- **Dyana Award for Outstanding Academic performance in MPO by Mr. Surendran, Director, DYANA**
- **POCL Award for best MPO student by Dr.Mukesh Doshi,Director,POCL**
- **Teacher Innovation Award by Zero-Investment Innovations for Education Initiatives ZIEI Innovations**
- **Certificate of completion for Participating in the I-NUBATE program conducted by IIT Madras**
- **Jury panel member at 4th Medical Device Innovation Camp at IIT Bombay**

**PERSONAL
DETAILS**

Gender: Male

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Marital Status: Married

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Languages: English, Hindi and Marathi

References:

Dr. MAHESH CHOUDHARI, M.D. ORTHO, PMR specialist, AIIPMR, MUMBAI. (+91 9920083839; drmahichoudhary@gmail.com)

Mr. ASHOK INDALKAR, HOD (P&O), AIIPMR, MUMBAI. (+91 9167460882; agindalkar@gmail.com)

Dr. RUPESH GHYAR, Sr. Research Scientist, BETiC, OrthoCAD Lab, IIT Bombay. (+91 9970642575; rupesh.ghyar@betic.org)

