

**ANNUAL REPORT 2019-20**

**1.1 About the Institute**

All India Institute of Physical Medicine and Rehabilitation, established in 1955 as a Pilot Project with technical expertise and manpower support from United Nations Organization, came under the administrative control of the Ministry of Health and Family Welfare, Government of India in 1959.

This apex Institute of Ministry of Health and Family Welfare in the field of Physical Medicine and Rehabilitation is well recognized for its commitment to provide comprehensive rehabilitation services to persons with severe and permanent locomotor disabilities.

Along with this the Institute runs training courses, most of them Post Graduate level, in Physical Medicine & Rehabilitation and allied rehabilitation fields.

The Institute is actively involved in disability rehabilitation related research work and is recognized by Department of Science and Technology (DST), Govt. of India as a research institute.

**VISION**

To actualize the potential of every person with Locomotor Disability to ensure for him/her equal opportunities, protection of rights and full participation in the society.

**FACILITIES**

- The Institute is one of the best equipped Rehabilitation Centre in India. It provides comprehensive rehabilitation services to Persons with Disability (PWDs) with departments that include: Physical Medicine & Rehabilitation, Radiology, Pathology, Anaesthesiology, Physiotherapy, Occupational therapy, Prosthetic & Orthotic, Speech Therapy, Medical Social Work, Vocational Guidance, Academic section with E-library, Vocational Training, Administrative and Hindi department.

**1.2 ANNUAL STATISTICS (April 19– October, 2019)**

1	<b>No. of PWD (Assessed &amp; Intervened)</b>	<b>OPD</b>	<b>P. Th.</b>	<b>O. Th.</b>	<b>Radiology</b>	<b>Pathology</b>	<b>Speech</b>
		16686	17556	6550	No. of patients X-rayed - 2875 Total No. X-rays- 4000 No. of USG done-815	Average No. of investigation per day-68 No. of investigation done- 10416	1504
2	<b>No. of Certificates issued</b>	<b>Disability Certificates</b>		<b>Driving Certificates</b>	<b>Railway Cert.</b>	<b>Other Cert.</b>	
		88		420	123	47	
3	<b>Surgeries performed (Major &amp; Minor)</b>	<b>Major</b>		<b>Minor</b>	<b>Minor OT Procedures</b>		
		166		599	1186		
4	<b>No. of Aids &amp; Appliances delivered</b>	<b>Orthoses</b>		<b>Prostheses</b>	<b>Splints /Adaptive devices</b>		
		1686		355	322		
5	<b>Clinics</b>	<b>P &amp; O Clinic</b>	<b>CP Clinic</b>	<b>Diabetic Foot Clinic</b>	<b>Case Conference</b>	<b>Obesity clinic</b>	
		347	236	12	15	62	
6	<b>VTW deptt.</b>	<b>No. of PWDs assisted for training &amp; employment</b>			<b>Fabrication of Mobility aids and seating devices</b>		
		05			43		
7	<b>MSW deptt.</b>	<b>No. of PWDs given financial assistance and ambulatory aids</b>			<b>Peer counselling and other training activities conducted</b>		
		116			2750		

**1.3 AUGMENTATION OF CAPACITY**

**I. Physiotherapy Department**

- New services launched in the department :
  - Educational lecture to persons with stroke and care givers
  - Training of care givers of children with cerebral palsy.

**II Prosthetic & Orthotic Department –**

Patient care services and fabrication of appliances were improved by the addition of following equipment :

- Procurement of Flat Bed Oven for Mouldling /Draping of Thermoplastic Sheets.
- Prosthetic Designs for Congenital Pseudo –Arthrosis of Tibia.
- Use of double mouthed adapter for patients with long trans-tibial stumps.

**III Occupational Therapy Department**

- Standing wheelchair is a recent acquisition in the department and is used for patients who are dependent on wheelchair. This is an electronic system which is battery operated and allows person to stand while in the wheelchair. Patients like the fully supported standing given along with the mobility. It helps in building up their confidence and keeps at bay complications of heterotrophic ossification, urinary complications etc.
- The Detailed Assessment of Speed of Handwriting –DASH was purchased & brought in use in October, 2019. It can be used to help identify children with handwriting difficulties and also provide relevant information for intervention planning. It is used to analyse the speed and legibility of a person's handwriting.

**IV Speech Therapy Department**

- New born screening centre for communication disorders was inaugurated in collaboration with All India Institute of Speech & Hearing (AIISH) Mysore on 09.08.2019.

**1.4 In-service Training**

As a part of capacity building activities staff of Institute were sent on various administrative and academic training programmes.

<b>In-service Training for Medical and Paramedical</b>	<b>Hindi Training</b>	<b>Administrative Training</b>
11	01	08

**1.5 Research and Development –**

Research work on topics as given below has either been completed or is going on :

➤ **Occupational Therapy Department**

- A descriptive and comparative study analyzing the performance of typically developing Indian children on motor free visual perceptual test - 4
- A study to compare handwriting components and to identify the common errors noticed in children from different medicines of school.
- Effectiveness of standing wheelchair in achieving functional independence in patient with SCI.
- Use of Jebson Taylor hand function test to compare hand functions in people with carpal tunnel syndrome and healthy individuals.
- To find the effectiveness of Occupational Therapy intervention in managing childhood obesity in Indian Children aged 5-12 years.
- A comparative study to determine the efficacy of hand arm bimanual intensive therapy (HABIT) and conventional Occupational Therapy in children with Cerebral Palsy.

➤ **Physical Medicine & Rehabilitation**

1	Effect of stroke rehabilitation on caregivers in terms of care giving burden & quality of life.
2	Comparative study of lung function using spirometry in children with and without cerebral palsy.
3	A prospective study of effect of common lower extremity surgeries followed by splintage and exercised on spasticity in patients with spastic diplegic cerebral palsy.
4	A study of prevalence of hip subluxation in spastic cerebral palsy non ambulatory patients and its correlation with spasticity in hip flexor and adductor group of muscles.

➤ **Physiotherapy Department**

S. No.	Areas of Research	No. of Studies
1	Observational and interventional studies in adults and elderly	1 study
2	Observational studies of autonomic function, electrophysiological assessment, trunk muscle strength, proprioception and trunk balance, in person with type II Diabetic Mellitus	3 studies
3	Observational and interventional studies in children with cerebral palsy	4 studies
4	Observational and interventional studies on Pain management, Amputee Rehabilitation, Kinesiological EMG in Musculoskeletal conditions	4 studies
5	Observational and interventional studies Stroke Rehabilitation	6 studies
6	Observational and interventional studies in Rehabilitation of persons with spinal cord injury.	1 study

➤ **Prosthetic & Orthotic Department**

Sr. No.	Name of Project
1	Low Cost Sports Prosthesis for Case of Congenital Tibial Hemimelia
2	Mechanical Four Bar Linkage Prosthetic Knee Joint with Extension Assist
3	Mechanical Shoulder Joint Using Disk Brake Locking Mechanism for Shoulder Disarticulation
4	Weight Activated Gait Initiative Prosthetic Hip Joint
5	Portable Photo PodoScope
6	Modified Partial Foot and Syme's Prosthesis
7	Below Knee Bathing Prosthesis
8	Knuckle Bender Splint
9	Casting Frame for CRS Socket

**1.6 Scientific Research, Publications & Presentations**

Sr. No.	Department	Staff Guided Research				
		Papers Presented	Papers Published	Dissertation Completed	Invited Lecturers	Conference / Workshop / Seminars / Attended
1	Medical a) PMR b) Radiology	00 01	01 01	02	01 --	Conf.- 02 W/s -01 Conf.- 01
2	Physiotherapy Department	--	02	06	04	Conf.- 03 W/s-03 Seminar -03
3	Occupational Therapy	01	01	--	--	Conf.- 01 W/s - 01 Seminar -02
4	Prosthetic & Orthotic	05	--	09	--	Conf.- 07
5	Speech Therapy	--	--	--	02	--
6	MSW	--	--	--	03	W/s - 01

**1.7 Conferences, CRE Workshops held at this Institute.**

Sr. No	Activities	Duration
(i)	Balance – Physiotherapeutic Perspective	27 <sup>th</sup> – 28 <sup>th</sup> April, 2019
(ii)	Neurodevelopmental kinesiology	29 <sup>th</sup> September, 2019
(iii)	CRE on Advance in the Prosthetic management of rotationplasty	19 <sup>th</sup> – 28 <sup>th</sup> October, 2019

**1.8 Implementation of Right to Information Act. (RTI)**

Institute is responding to information sought by the applicants. Nominated Central Public Information Officer (CPIO) duly assisted by the committee members provides such information.

RTI applications received – 15  
RTI applications replied – 12  
RTI applications rejected – 04

**1.9 Data of Person with disabilities in the Institute**

Staff Strength	No. of PWD's employed	% of PWDs
Group 'A' - 50	02	4%
Group 'B' - 59	00	0%
Group 'C' - 166	08	4.82%
<b>Total</b>	<b>10</b>	<b>3.64%</b>

No PWDs have been appointed during 2019-20

**1.10 ATN's in respect of the audit observations**

Action taken note is enclosed. (ANNEXURE –I)

**1.11 Gender issues**

Female members are included in selection committee for recruitment and academic courses. All the special facilities admissible to lady employees are provided by the Institute. A sexual harassment committee is constituted with a senior lady officer as chairperson.

**1.12 Academic Activities**

**Details of Students for the year 2019-20**

S r. No	Name of Course	Recognized by/ Course affiliated to	Duration (yrs)	Intake Capacity(A/Y) April 19- March 20	Student on Roll		Passed out student in Summer 2018 Exam
					1 <sup>st</sup> yr	2 <sup>nd</sup> yr	
1	MD (PMR)	MUHS, Nashik	3	02	1 <sup>st</sup> yr	01	01
					2 <sup>nd</sup> yr	02	
					3 <sup>rd</sup> yr	02	
2	MPTh	MUHS, Nashik	2	06	1 <sup>st</sup> yr	06	06
					2 <sup>nd</sup> yr	12	
3	MOTH	MUHS, Nashik	3	04	1 <sup>st</sup> yr	02	03
					2 <sup>nd</sup> yr	02	
					3 <sup>rd</sup> yr	02	
4	MPO	MUHS, Nashik/R CI	2	04	1 <sup>st</sup> yr	03	01
					2 <sup>nd</sup> yr	04	
* 5	BPO	MUHS, Nashik/R CI	4	30	1 <sup>st</sup> yr	25	18
					2 <sup>nd</sup> yr	29	
					3 <sup>rd</sup> yr	18	
					4 <sup>th</sup> yr	26	
					Interne	09	
6	FCR PT	MUHS, Nashik	1	15	1 <sup>st</sup>	02	01
7	FCR OT	MUHS, Nashik	1	15	1 <sup>st</sup>	00	NA
8	DHLS	(AYJNIH H)/ RCI	1	25	1 <sup>st</sup>	04	Result awaited

\* RCI inspection was conducted and approval was received for 5 years for DHLS programme.

Proposal for increased in intake capacity of MD (PMR) course from 2 to 4 seats is accepted by Government of Maharashtra and acceptance from MUHS, Nashik and MCI, New Delhi is under process

**1.13 Other activities of staff and students**

**a. Hindi Department**

- Hindi Pakhawada celebration by staff and students in September, 2019 under which many competitions and activities to promote use of Hindi were conducted.

#### **1.14 Other activities**

Swachhata Pakhwada, International Yoga day, vigilance awareness week, Communal Harmony week, Unity Day, Constitution Day, World Physiotherapy Day, World Occupational Therapy Day, World Autism Day, 150 years of Mahatma Gandhi Jayanti, Swachha Bharat Abhiyan and International day of Persons with disabilities were celebrated by staff & students.

#### **1.15 Awards**

- (i) Shri Lukesh Kumnar Bhuyar, Brace Maker & Fitter was a member of research team which has been given award for making Best Screening Device during the 5 days MEDIC programme at IIT, Mumbai IN October, 2019.
- (ii) Ms. Rutuja Raut stood First in MPTh (Neuro physiotherapy) in MUHS.
- (iii) Mr. Bhavani Shankar Student of MPO of this Institute has been awarded Gandhian Young Technological Innovation Awards 2019 by Shri Muppavarapu Venkaiah Naidu, Hon'ble Vice President of India for his research project in Design of Appropriate prosthesis for Elbow Disarticulation Amputees which was his dissertation at AIIPMR.
- (iv) The institute was awarded Rajbhasha Shield and Certificate for the second time by Narakas, Mumbai for excellent work in Hindi (May 2019).

**Annual Report April 2019 - October 2019**

**Institute has developed following Prosthesis:**



**Prosthetic Designs for Congenital Pseudo-Arthritis of Tibia**



**Development of a Low Cost Sports Prosthesis for Tibial Hemimelia**



# Development of a Low Cost Sports Prosthesis for Rotationplasty

## AWARDS



MPO student of this Institute receiving the Gandhian Young Technological Innovation Award



Mr. Lukesh Kumar Bhuyar from this Institute speaking after receiving Best Screening Device Research in MEDiC IIT, Mumbai



Institute authorities receiving the Rajbhasha Shield certificate, awarded by NARAKAS in May 2019

**Government of India**  
**ALL INDIA INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION**

Haji Ali, K. Khadye Marg, Mahalaxmi, Mumbai – 400 034.

**CHECK LIST (Annual Report 2019-20)**

Name of programme/Division : **All India Institute of Physical Medicine and Rehabilitation,**  
**Mumbai.**

(i)	Whether the material has been approved by the JS/AS concerned	N.A.
(ii)	Whether the material is in MS WORD format [.doc file; font size:12 ; Font type:Times New Roman]  Whether the soft copy of material has been sent through e-mail (at healthcdn1@gmail.com) / CD along-with hard copy.	Yes / <del>No</del>
(iii)	Whether material for the introduction to be given by secretary (H&FW) has been enclosed.	<del>Yes</del> / No
(iv)	Whether photographs with caption enclosed.	Yes / <del>No</del>
(v)	Whether the material in respect of North-Eastern States enclosed.	<del>Yes</del> / No
(vi)	Whether the material in respect Gender Issue enclosed.	Yes / <del>No</del>
(vii)	Whether ATNs in respect of the audit observations have been enclosed in the prescribed format.	Yes / <del>No</del>
(viii)	Whether Annexures enclosed.	Yes / <del>No</del>