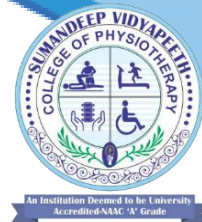


RENAISSANCE



PARCON 2019

Special Edition
For
National Conference on
"Physiotherapy and Rehabilitation:
Evidences leading to New Horizons"
September 2019

Hosted by:

College of Physiotherapy
Sumandeep Vidyapeeth

(Declared as an Institution Deemed to be University u/s 3 of the UGC act, 1956)

NAAC 'A' Grade, 3.53 CGPA & Conferred with UGC-CATEGORY-1 status

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Conference Supported by: Gujarat Council on Science and Technology (GUJCOST)
Department of Science and Technology, Government of Gujarat

: Supported By :



Department of Science & Technology
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CONFERENCE PROCEEDINGS
National Conference of "Physiotherapy & Rehabilitation
Evidences leading to new Horizons"

20th to 21st Sept. 2019
College of Physiotherapy, SVDU, Vadodara, INDIA.



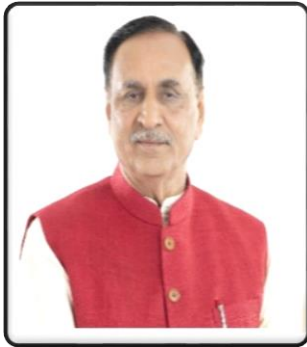
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MESSAGES



Vijay Rupani

Chief Minister, Gujarat State

apro/ug/2019/09/12/pp

Dt.12-09-2019

MESSAGE

“Service to mankind is service to God”

Doctors are the persons whom people trust the most. Our society reveres the Doctors like they are next to God. Physiotherapy and Rehabilitation work for the betterment of the patients. It is pleasing to learn that the **Sumandeeep Vidyapeeth** is working with the motto **“Rehabilitate to perfection.”**

Sumandeeep Vidyapeeth is organizing **“National Conference on Physiotherapy and Rehabilitation: evidences leading to new Horizons.”** I wish the Vidyapeeth best for the success of the conference as it is a first of its kind conference to be held in Gujarat, I hope your research will help people to improve the quality of life. Once again best wishes for the conference.

(Vijay Rupani)

NITIN PATEL

Deputy Chief Minister,
Gujarat State



No. : Finance/R.&B./H.&F.W./M.E./N.,K./C.P.

57/494/19

**Finance, Roads and Building,
Health and Family Welfare,
Medical Education,
Narmada, Kalpasar,
Capital Project**

Government of Gujarat,
Swarnim Sankul-1, 2nd Floor,
Sardar Bhavan, Sachivalaya,
Gandhinagar-382010

Date : 13.09.2019

Message

College of Physiotherapy, Sumandeep Vidyapeeth has created a space for itself on the map of Gujarat by becoming vibrant center for physiotherapy education and training. With the advancement in the field of technology and medicine, the average lifespan of human beings has increased to a large extent. However, the quality of life as well as the advent of other lifestyle diseases is on a surge. All this shall require a tremendous workforce towards the increased need for hospitalization and care giving services. There is a greater need for efficient and trained rehabilitation professionals.

Also, today the advances in technology has brought a paradigm shift in the field of 'Rehabilitation'. It is indeed a matter of pleasure to note that the college is organizing a conference on the comprehensive rehabilitation involving the whole team. There are eminent speakers who will be discussing about the evidences leading new horizons in their respective fields. The conference is happening in the cultural city of Gujarat.

I send my heartiest good wishes to the Organizing team, the Principal and her colleagues and Sumandeep Vidyapeeth. I wish the conference a grand success.

Nitin Patel
(Nitin Patel)

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Dr. Mansukh. K. Shah
Founder President
Sumandeep Vidyapeeth Trust

Message

I am immensely pleased to know that The College of Physiotherapy has organized a National Conference on Physiotherapy and Rehabilitation on 20th and 21st September, which is being graced by Nationally reputed faculty from all over India.

The College of Physiotherapy since its inception in 2001, was one of the founding pillars of Sumandeep Vidyapeeth which got notified in 2007.

Since then the College has kept astride with the development and progress of Sumandeep Vidyapeeth specially in the fields of Academics, Research and optimal patient care.

This is thanks to the sincere and dedicated faculty in the college, supportive staff and academically oriented students.

The National Conference will provide a great opportunity to all faculty and delegates to explore new horizons in Physiotherapy and Rehabilitation.

I extend my best wishes to the Organizing team of the College of Physiotherapy and wish the National Conference great success.

(Dr.M.K.Shah)

डॉ. बी.डी. अथणी
Dr. B.D. Athani
M.S.(Ortho.), DNB
Principal Consultant



भारत सरकार
स्वास्थ्य सेवा महानिदेशालय
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नई दिल्ली -110 108
Government of India
Directorate General of Health Services
439-A, A-Wing, Nirman Bhawan,
New Delhi- 110108



दिनांक/Dated.....

MESSAGE

I am extremely glad to know that the College of Physiotherapy, Sumandeep Vidyapeeth, (An Institution Deemed to be University), has organised a National Conference on Physiotherapy and Rehabilitation with the theme "Evidences leading to new Horizons."

The role of physiotherapy in the setting of secondary care, tertiary care including care in Emergency and Intensive Care Units in healthcare setups has come to be well recognised by now and even goes beyond to be a valuable member in rehabilitation team in the management of impairments, disabilities causing functional incapacities. Convincing evidence has emerged that physiotherapy measures improve rehabilitation outcomes.

This Conference would provide a great opportunity for all health professionals apart from Physiotherapists, to update themselves on the latest technologies, recent advances and innovations in the field of Physiotherapy. A galaxy of eminent speakers in the field of Physiotherapy, from all over the country will be deliberating on various aspects of Rehabilitation, specialised treatment protocols in basic and advances care of a myriad of patients with disability, post operative status patients with special needs etc., and an overall holistic approach towards patient care and will share their valuable experience.

The entire organising team under the able leadership of Dr. Prof Lata Parmar needs to be appreciated and complimented for having put in great efforts for organising a National level Conference at Sumandeep Vidyapeeth. I wish the Conference a grand success.

New Delhi
September 11, 2019


(Dr. B.D. Athani)



Prof. Dr. M. M. Prabhakar, M.S.Ortho
Director Medicity Ahmedabad-Civil Hospital,
Medical Superintendent-Civil hospital, Ahmedabad

Message

I would like to congratulate college of physiotherapy, Sumandeep Vidyapeeth for organizing a National conference on the lesser discussed topic of "Physiotherapy and Rehabilitation' Evidences leading to new Horizons."

This conference aims at sharing knowledge on evidences generated for professional excellence in physiotherapy and rehabilitation. This kind of conferences provides good food for thought and gives the audience something new to think of. It provides a platform to express and exchange the experiences and novel ideas which help us promote research.

Physiotherapists have brains similar to that of a scientist, heart overflowing with humanity and hands of an artist. A physiotherapist is material in improving the quality of life of a patient and adds life to the years. Physiotherapists will play a vital role in 'FIT INDIA' movement. The discussions in this conference will help the society at large.

My best wishes and Blessing for grand success of this conference.

(Prof. Dr. M. M. Prabhakar)

Dr. Dixit Shah

President

Sumandeep Vidyapeeth Trust



Message

Dear Friends,

It is indeed a matter of pride that college of Physiotherapy, Sumandeep Vidyapeeth (Institution Deemed to be University) has taken an important step in the direction of establishing its identity by organizing first ever Physiotherapy & Rehabilitation conference 'National conference on Physiotherapy and Rehabilitation: Evidences Leading to New horizons' to be held in Gujarat, Western region of India. Distinguished speakers of national and international repute will enlighten the audiences attending the conference from various states.

Advances in technology has significantly influenced the health care systems around the world. Physiotherapists and other rehabilitation professionals need to keep pace with the emerging technologies, highlighting the requirement of such platform for exchange of ideas and explore new opportunities. This is need of the hour especially as great amount of information available at one click requires to be evaluated on the basis of 'Evidences'.

On behalf of the Trust I wish to welcome all the delegates in the cultural city of Gujarat.

I send my heartiest good wishes to the Organizing team, the Principal and colleagues for great success of the conference.

(Dr.Dixit Shah)



Dr. Harshad Shah
Chancellor
Sumandeep Vidyapeeth
(An Institution Deemed to be University)

Message

I am delighted to know that College of Physiotherapy have organized a two-day National level Conference on “Physiotherapy and Rehabilitation” at Sumandeep Vidyapeeth.

It is a matter of great pride that as Chancellor this is my first opportunity to welcome the Chief Guest, Guest of Honor, and all dignitaries and senior faculty attending the National Conference to Sumandeep Vidyapeeth, An Institution Deemed to be University having the highest NAAC Accreditation in Gujarat.

It is great opportunity for Academicians, Clinicians, Physiotherapists, Rehabilitation specialists, students and all health professionals to discuss and share their experiences in the field of Physiotherapy and rehabilitation.

I congratulate the Organizing Team of PARCON 2019 for having arranged such an informative conference with a very innovative theme of “Evidences leading to new Horizons.”

I wish the conference great success.

(Dr. Harshad Shah)

Dr.Rajesh Bharaney

Vice Chancellor
Sumandeep Vidyapeeth
(An Institution Deemed to be University)



Message

It is indeed a matter of great pride that College of Physiotherapy, Sumandeep Vidyapeeth, (An Institution Deemed to be University), has organized a National conference on Physiotherapy and Rehabilitation with the theme “Evidences leading to new Horizons.”

Physiotherapy practice at our Institution is based on systematic clinical reasoning, search for evidences leading to adopting a problem-solving approach aimed at delivering holistic patient-centric care.

Sumandeep Vidyapeeth has benchmarked Evidence Based Education System as its best practice, and the National conference organized also carries the same theme to present “Evidences leading to new horizons.”

It's a great opportunity for all health professionals apart from Physiotherapists, to update themselves on the latest technologies, recent advances and innovations in the field of Physiotherapy.

A galaxy of eminent speakers in the field of Physiotherapy, from all over the country will be deliberating on various aspects of Rehabilitation, specialized treatment protocols in basic and advanced care of a myriad of patients with disability, post-operative status patients with special needs etc, and an overall holistic approach towards patient care.

The entire organizing team under the able leadership of Dr.Prof. Lata Parmar needs to be appreciated and complimented for having put in great efforts for organizing such a successful National Conference at Sumandeep Vidyapeeth.

(Dr.Rajesh Bharaney)



Dr. Chandramani B. More
Registrar,
Sumandeep Vidyapeeth
(An Institution Deemed to be University)

Message

Sumandeep Vidyapeeth, an Institution Deemed to be University, extends warm wishes to the Organizing Committee of National Conference on “Physiotherapy and Rehabilitation: Evidence Leading to new Horizons” which is scheduled on 20th & 21st September 2019. At the outset, my heartiest congratulations to Dr. Lata Parmar, Organizing Chairperson and Principal, College of Physiotherapy; for hosting the National Conference on the most important topic, in day today practice. The Institute is actively involved in organizing various educational programs in the campus so as to enhance the quality practices. We are certain that this will help the professionals to update their knowledge and enhance their clinical skills. We wish the program a grand success.

(Dr. Chandramani B. More)

Dr. G V Shah

Dean SBKS MI&RC

Sumandeep Vidyapeeth

(An Institution Deemed to be University)



Message

College of Physiotherapy, Sumandeep Vidyapeeth is a pulsating center for physiotherapy education and training.

The college is organizing National Conference on 'Physiotherapy and Rehabilitation: Evidences Leading to New Horizons' on the 20th and the 21st September 2019. This conference has invited speakers of national and international repute.

This conference will provide a great platform for the all physiotherapy and rehabilitation professionals to explore and exchange the scientific and technological advances for mutual benefits and for the benefit of the society.

I congratulate the principal and her entire team and send my best wishes and blessings for a successful event.

(Dr. G V Shah)



Gujarat State Council for Physiotherapy, Gujarat State

Dr. Nipul Salvi (PT)

President



Message

It gives me pleasure to note that College of Physiotherapy, Sumandeep Vidyapeeth, an Institution Deemed to be University, is organizing a National Conference on "Physiotherapy and Rehabilitation: Evidences leading to new Horizons" on 20th and 21st September 2019.

Gathering the scientific evidences is very necessary for the future improvements. I am confident that the conference which is aimed at pooling in the expertise & knowledge of evidences for Physiotherapy & rehabilitation will provide a good opportunity for exchange of ideas on further enhancing the quality of the field & help the physiotherapy to reach to the new horizon.

I wish conference every success.

N. V. Salvi.

Dr. Nipul Salvi (PT)



Gujarat State Council for Physiotherapy
Gujarat State



Dr. Prakruti Motka (PT)
Registrar I/c

Message

I am very happy to note that College of Physiotherapy, Sumandeep Vidyapeeth, an Institution Deemed to be University, is organizing a National Conference on "Physiotherapy and Rehabilitation: Evidences leading to new Horizons" on 20th and 21st September 2019.

It is really appreciable that institute is organizing such event when there is increasing amount of available published evidence and the continual need to apply and update evidence in to practice. Scientific research & advancement in the field of Physiotherapy has paved the way for formulating better strategies to help patients affected by injury, illness & disability.

I am sure; the conference will provide the great platform to all the participants to share their experience & work towards improving their skills & knowledge.

My best wishes for the success of the Conference.

Dr. Prakruti Motka (PT)



Prof. Dr. Ali Irani PhD.
PhD President of International Affairs, IAP
H.O.D. Physiotherapy and Sports Medicine,
Nanavati Super Specialty Hospital

Dear All,

It gives me great pleasure to pen down this message for the First Ever National Conference on "Physiotherapy and Rehabilitation: Evidences leading to new Horizons" 2019 to be held in Gujarat, India, by College of Physiotherapy, Sumandeep Vidyapeeth.

As medicine has branched out so has our profession Physiotherapy. We as Physiotherapists have not restricted ourselves only to Orthopedics and Neurology, but have also expanded into various branches such as Women's Health, Geriatrics, Pediatrics, Early Intervention, Sports Medicine & Fitness, Manual Therapy, Cardiac Rehabilitation, Chest Physiotherapy, Community Rehabilitation, Stress Management, Disaster Management and ICU care to name a few.

More than 6,000 out of the total 23,000 Physiotherapists in India are based abroad which proves that the world has accepted the high standard of our educational status.

It has therefore become important, to generate on the recent and emerging trends in the field of physiotherapy to propel the culture of academic exchange in order to achieve excellence in our field.

I applaud the organizing team of Sumandeep Vidyapeeth, as it is their hard work and dedication has helped bring together everyone on a common platform to share their knowledge and provide comprehensive solutions through dialogue. I would like to congratulate you, for actively contributing to the field of physiotherapy by promoting academic research and development.

Last, but not the least, I would like to remind all the participating students that, success is very demanding so I would like to appeal to all of you, to grab this golden opportunity and widen your horizons in order to take firm charge of the future of physiotherapy. Focus on making indefatigable efforts to work towards the enrichments of our profession so that it may stand out as a flawless example to be followed not only in India but Globally. The future of our profession lies in your hands. So it is for you to shoulder the responsibilities and carry forward the good work done by your seniors.

I extend my best wishes to all participants, invited delegates and speakers and hope that Conference on "Physiotherapy and Rehabilitation: Evidences leading to new Horizons" 2019 is a great success.

I wish you All the Very Best!!!

Prof. Dr. Ali Irani PhD, PhD President of International Affairs, IAP H.O.D.
Physiotherapy and Sports Medicine, Nanavati Super Specialty Hospital

Prof. Dr. Lata Parmar

Organizing Chairman &
Principal, College of Physiotherapy
Sumandeep Vidyapeeth
(An Institution Deemed to be University)



Message

The term Rehabilitation encompasses a larger context, of bringing one to normal or near normal status, in all dimensions of Health, namely Physical, Mental, Social and Emotional dimensions as defined by WHO.

Though all dimensions need a perfect balance for a good health it is the Physical dimension that has been paid more attention as it directly affects an individual's productivity and contribution to the society. So, in many ways Physiotherapy also known as Physical therapy, which deals with Physical rehabilitation, has almost become synonymous with the term rehabilitation.

But in its true sense 'Rehabilitation' involves all dimensions of health and many professionals who look after these dimensions, work as a rehabilitation team member and work tirelessly to achieve this greater goal of bringing someone to a normal or near normal status in all the dimensions.

It is also an accepted fact that each profession has grown dramatically in the area of their specialty over these years and this development has significantly contributed in achieving greater heights in rehabilitation.

Albeit being a team member many of us have remained ignorant about the heights achieved by our fellow team members. Staying true to the holistic meaning of the term Rehabilitation, this Conference envisages bringing all the members of rehabilitation under one roof and letting each and every member of the team to know the success achieved by other members.

This conference is being the first of its kind in Western part of India, especially in Gujarat state. Gujarat has recently witnessed an increase in the awareness of Physiotherapy and also an increase in the number of Physiotherapists. It is essential to recognize that it is not merely the 'Physical Rehabilitation', but all other dimensions of rehabilitation essential to achieve the final, greater goal. This conference tries to achieve that objective and hope we remain successful in achieving that. This all is hoped to be achieved by all the iconic / stalwart speakers, experts in their respective fields, who will enlighten all the audiences.

I, also as a part of the Organizing team, pray and wish this conference a great success.

Congratulations and All the best

(Prof. Dr. Lata Parmar)



Dr. G. P. Kumar

Organizing Secretary- PARCON 2019
Professor, College of Physiotherapy
Sumandeep Vidyapeeth
(An Institution Deemed to be University)

Message

Dear Delegates,

Greetings from the Organizing team of PARCON 2019 and College of Physiotherapy, SVDU. It is indeed a great pride and pleasure to welcome you all on behalf of the Organizing team to Vadodara, the Cultural Capital of Gujarat and also to the conference.

India, a land of diversities, is currently witnessing great changes in many sectors including healthcare sector. Diversity exists in the delivery of Physiotherapy and Rehabilitation too. Advanced therapeutics like Artificial Intelligence, Virtual Reality and Robotics are tout to be the future of rehabilitation in Metros, whereas the very basic services of Rehabilitation is still in its nascent stage elsewhere.

Every profession in the Rehabilitation team is progressing like never before and we yet to know each other completely about the successes that we have achieved so far. Thus, We, the family members of College of Physiotherapy, SVDU, at Vadodara, who always have a penchant for quality, have felt that the gap needs to be filled and decided create a platform to address this need.

National Conference on Physiotherapy and Rehabilitation, abbreviated as PARCON, could well be the first step towards the series of initiatives that the Institution has planned to undertake. The well thought out theme of the conference "Evidences leading to new horizons" is intended to inform us about the new horizons that need to be conquered. The theme also concords well with Sumandeep Vidyapeeth, An institution deemed to be University, where Evidence Based Practice has been instilled into a way of quality practice.

This could be the first conference of its kind in Gujarat as well as in the Western region of India where rehabilitation team members could have opportunity to showcase and present their ideas, thoughts, and developments in their very own field that could lead to better services to the needy and a meaningful life in the community.

I am confident that the two stalwarts of rehabilitation team, both at the State and National level, who have helmed the position of leadership in various

rehabilitation teams will deliver their keynote addresses that will enrich the knowledge of budding physiotherapy and rehabilitation professionals and also inspire them for advancement in learning and serving the mankind. The Plenary sessions will cover the different aspects of rehabilitation and I am sure the renowned plenary speakers will educate the audiences about the recent advances that have been achieved in their respective field and also present the evidences for their scientific practice.

This conference also gives a platform for many to showcase their researches which can be considered as the surrogate marker for the quality of research carried out in rehabilitation field. Scientific presentations will ignite the future researchers with innumerable questions that are yet to be answered and also to carry out good quality researches.

We are trying our best to ensure that your time and stay in the city of Vadodara during the conference be one of the most memorable one and you go back with rich information and as a proud member of the rehabilitation team.

I take this opportunity to thank Gujarat Council on Science and Technology (GUJCOST), Department of Science and Technology, Government of Gujarat for supporting the conference.

I welcome you again to this wonderful gathering and make the maximum out of it. I thank each and every one of you who are contributing to the success of this conference.



Genesis & Growth of Rehabilitation

The importance of 'Exercise & Physical Activity' has been known since early era in most of the countries in the world. However, its establishment with recognized identity was after the World War I & II.

Hippocrates and later Galenus are known to be the first practitioners of physical therapy. They advocated massage, hydrotherapy and other manual techniques to heal the mankind in 460 BC. Gymnastic on was developed in 18th century, Per Henrik Ling is known as "Father of Swedish Gymnastics," in 1894 Britain established 'Chartered Society of Physiotherapy', the nurses initially played vital role. Physiotherapists were known as "reconstruction aides." in 1914. At the end of the 19th century modern physical therapy was established in Britain. This was soon followed in America, where the Orthopedic Surgeons began treating children with disabilities, employing women trained in physical education, for massage, and remedial exercises. In Polio outbreak of 1916 these treatments were applied and promoted.

In America following the outbreak of World War I, first school of physical therapy was established at Walter Reed Army Hospital in Washington D.C. mainly women were recruited to work with and restore physical function to injured soldiers. Research catalyzed the physical therapy movement. The first physical therapy research was published in the United States in March 1921 in "The PT Review." In the same year, Mary McMillan organized the Physical Therapy Association (now called the American Physical Therapy Association – APTA. With the advent of World War II and a nationwide polio epidemic during the 1940s and 1950s, physical therapists were in greater demand than ever before. <https://www.apta.org/History/>

In the coming years, physical therapy will find complements and assistance from the emerging wearable ecosystem. Future wearables will be small, affordable, open, durable devices that will help patients, insurers, and PTs alike. These devices will be used to track patients both in and out of the clinic, while providing real-time interventions that prevent fatigue and injuries.

Physical therapy is, and always will be, a hands-on field, but that doesn't mean technology can't play a pivotal role. Advances in robotics and bionics help therapists diagnose more precisely, increase clinic efficiencies, and reach more patients. Furthermore, such technologies improve patient engagement and HEP compliance. All of this boils down to a better patient experience, which in turn can lead to improved outcomes.

Occupational therapy (OT) is the use of assessment and intervention to develop, recover, or maintain the meaningful activities, or occupations, of individuals, groups, or communities. OTs often works with people with mental health problems, disabilities, injuries, or impairments.

The American Occupational Therapy Association defines an occupational therapist as someone who "helps people across their lifespan participate in the things they want and need to do through the therapeutic use of everyday activities (occupations). Common occupational therapy interventions include helping children with disabilities to participate fully in school and social

situations, injury rehabilitation, and providing supports for older adults experiencing physical and cognitive changes. Occupational therapists often work closely with professionals in physical therapy, speech therapy, audiology, nursing, social work, clinical psychology, medicine, and assistive technology.

Speech pathology got recognition in the 1920s and in 1926, the American Academy of Speech Correction was formed. Over the next twenty years speech therapy approaches developed and became more widespread. At time of World War II, and soldiers with brain injuries were becoming a concern, it was speech pathology researchers who worked with them through therapy.

A speech pathologist is an expert in communication. They study speech, language, voice, fluency and swallowing in people of all ages. It wasn't until the late 1960's that a distinction between speech disorders and language disorders was recognized. A speech disorder is identified as when someone has a hard time producing speech sounds and stuttering occurs. A language disorder is when someone has trouble understanding others and can't share their own thoughts and feelings.

Orthotic and Prosthetic: The origin of orthotic and prosthetic practice is traceable back to ancient times. The first orthotic craftsmen applied leather, textiles and the metals at their disposal to splint-making and bone-setting. Evidence exists of prosthetic limbs being applied as far back as 2500 BC.

Though those early practitioners were surprisingly innovative, their craft was extremely slow to develop through the 19th century. They learned their trade on the job and functioned in small independent workshops; there was no organized education, formal research or group collaboration for sharing ideas and experience. That situation began to change in late-World War I when representatives of the nation's 10 leading prosthetic firms gathered to discuss the state of U.S. prosthetic practice and technology, which was then significantly lagging Europe. That meeting led to the creation of the Artificial Limb Manufacturers and Brace Association; an event now considered to be the turning point for O&P growth.

The large number of American casualties in World War II and the polio epidemic of the 1950s greatly increased the need for orthotic and prosthetic care in America and with it the need for formalized education programs and scientific research. An explosion of innovation followed, accompanied by creation of university-based orthotic and prosthetic training programs. In 1970, the American Academy of Orthotists and Prosthetists was established to further the scientific and educational attainments of O&P practitioners.

Increased demand for O&P services led to improved technology in components, materials and clinical skills beginning in the 1960s. Particularly noteworthy was the introduction of composite materials such as fiberglass and high-temperature thermoplastics in the 1970s.

Accelerated innovation in orthotic and prosthetic assembly has continued into the 21st century, driven by increased worldwide demand, microprocessor technology and government programs

to provide top-quality prostheses and orthoses for military casualties of U.S. campaigns in Iraq and Afghanistan. Though still in their infancy, powered prosthetic limbs and electric orthoses promise to be the “next big thing” in this field; many other exciting concepts are also on the drawing board.

Assistive technology refers to hardware and software designed to help people with disabilities. Some types of assistive technology provide physical assistance, while others provide helpful aids for individuals with learning disabilities. ... Wheelchairs provide mobility for individuals who are unable to walk.

Some examples of assistive technologies are:

- Mobility aids, such as wheelchairs, scooters, walkers, canes, crutches prosthetic devices, and orthotic devices
- Hearing aids to help people hear or hear more clearly
- Cognitive aids, including computer or electrical assistive devices, to help people with memory, attention, or other challenges in their thinking skills
- Computer software and hardware, such as voice recognition programs, screen readers, and screen enlargement applications, to help people with mobility and sensory impairments use computers and mobile devices.
- Tools such as automatic page turners, book holders, and adapted pencil grips to help learners with disabilities participate in educational activities
- Physical modifications in the built environment, including ramps, grab bars, and wider doorways to enable access to buildings, businesses, and workplaces
- Adaptive switches and utensils to allow those with limited motor skills to eat, play games, and accomplish other activities
- Devices and features of devices to help perform tasks such as cooking, dressing, and grooming; specialized handles and grips, devices that extend reach, and lights on telephones and doorbells are a few examples

WHO estimates that more than one billion people (mostly older people and people with disabilities) are in need of one or more assistive products. With populations ageing and the rise in noncommunicable diseases, this number is expected to increase to beyond two billion by 2050. Currently, only one in ten people in need have access. To address the substantial gap between the need for and provision of assistive technology, WHO established the Global Cooperation on Assistive Technology (GATE).

It takes a lot of schooling and research to officially become professional in Physiotherapy, Speech therapy, Occupational therapy, Prosthetics & Orthotics etc. All must have their master's degree at a minimum, and many go on to achieve their doctorate.

PROGRAM SCHEDULE

Day 1: 20th September 2019, Friday

Time	Details	Resource	Time
8:30 am – 10:00 am	Registration & Breakfast		Foyer, SBKSMIRC
9:00 am – 10:00 am	Scientific presentations: Platform/Oral Presentations		Hall A, Microbiology Demo room, Ground floor, SBKSMIRC
10:30 am- 11:30 am	Inauguration function		Auditorium, 1st Floor, SBKSMIRC
11:30 am – 12:15 pm	Key note address I “Rehabilitation in India- Past, Present & Future”	Dr. B. D. Athani, Principal Consultant: DGHS, GOI	Auditorium, 1st Floor, SBKSMIRC
12:15 pm – 1 pm	Key note address II Overview of “Physiotherapy & Rehabilitation – Current scenario in Gujarat”	Dr. M. M. Prabhakar, Director, Medicity Ahmedabad and Medical Superintendent Civil Hospital A'bad	Auditorium, 1st Floor, SBKSMIRC
1pm – 2pm	Lunch Break		
2:00 pm – 2:30 pm	Plenary session I “Robotics & AI: Physiotherapeutic & Rehabilitation challenges of the future.”	Dr. Raju Parasher, M.S (PT), PhD/Ed.D	Auditorium, 1st Floor, SBKSMIRC
2:30 pm – 3:00 pm	Plenary session II “Role of Assistive Technology in Rehabilitation: Principles & Practices in Indian Scenario”	Mr. Nekram Upadhyay, Assistive Technology & Rehab Engineering	Auditorium, 1st Floor, SBKSMIRC
3:00 pm – 3:30 pm	Plenary session III “The role of Ergonomics in the prevention of work-related Musculoskeletal disorders in healthcare professionals”	Dr. Deepak Sharan, M.S. (Ortho)	Auditorium, 1st Floor, SBKSMIRC
3:30 pm – 4:00 pm	Plenary session IV “New horizons in Speech, language and hearing”	Dr. Rajashekhar, PhD	Auditorium, 1st Floor, SBKSMIRC
4:00 pm- 4:15 pm	Tea Break		
4:15 pm onwards	Scientific presentations: Platform/Oral presentations Poster presentations		Hall A Microbiology Demo room, Ground floor / Hall B Biochemistry Demo room, Ground floor Poster displaying area

Day 2: 21st September 2019, Saturday			
8:30 am- 9:15 am	Breakfast		
9:30 am – 10:00 am	Plenary session V “Advances in Occupational Therapy: Role in sleep deprivation”	Dr. Amitabh Kishor Dwivedi, PhD	Auditorium, 1st Floor, SBKSMIRC
10:00 am – 10:30 am	Plenary session VI Recent Advances in Orthotics and Prosthetics	Dr. Veerendra Shandilya	Auditorium, 1st Floor, SBKSMIRC
10:30 am -10:45 am	Tea Break		
10:45 am – 11:15 am	Plenary session VII “Community based Early Intervention & Rehabilitation”	Dr. Gaurij Hood, M.D. (Community Medicine)	Auditorium, 1st Floor, SBKSMIRC
11:15 am -11:45 am	Plenary session VIII “Medical Social Work as Profession and Its role in Rehabilitation”	Dr.M.N. Parmar, PhD	Auditorium, 1st Floor, SBKSMIRC
11: 45 am -12:15 pm	Valedictory ceremony		
12:15 pm onwards	Lunch		



KEYNOTE SPEAKERS



Dr. B D Athani

Principal Consultant, Directorate General of Health
Services (DGHS),
Govt. of India, New Delhi

Dr. B D Athani is presently Principal consultant & Special Director General of Health Services (DGHS) Govt. of India. He holds Masters' degree in Physical Medicine and Rehabilitation Program from AIIPM & RC, Mumbai, in 1983 and MS Orthopedic Surgery from KIMS in 1985. He has served as Director, AIIPM & RC, Mumbai. He was Medical Superintendent and is now a visiting consultant in Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi. He is engaged intensively in the management of paediatric orthopaedic cases and has conducted several workshops on cerebral palsy, deformity correction, and club foot.



Dr. M M Prabhakar

Director, Medicity Ahmedabad and
Medical Superintendent Civil Hospital A'bad

Dr. M M Prabhakar has done M.S. (Orthopaedics) from B. J. Medical College, Ahmadabad. He is the Director Medicity Ahmedabad -Civil Hospital, Medical Superintendent-Civil hospital, Prof. Orthopaedics, Civil Hospital, A'bad; Add. Director of Medical Education and Research, Ex-Director Govt. Spine Institute & Govt. Physiotherapy college, Ex- HOD of Orthopaedics BJMC, Ex- Chairman of Gujarat state council for Physiotherapy. Under his dynamic leadership, civil hospital received "India Health Care Awards 2013." He has been instrumental in initiating various projects such as "A Leg to stand on," "Gujarat Club Foot Project," "Identification and sensitization of disabled people in Gujarat" and has led from the front in managing various natural disasters like Bhuj earthquake, etc. He is instrumental in getting state council for Physiotherapy.

PLENARY SESSIONS



Dr. Deepak Sharan

Dean, RECOUP Research & Education Foundation
Medical Director, RECOUP Neuro-musculoskeletal
Rehabilitation Centre, Bangalore

Dr. Deepak Sharan has done Masters in Orthopedic Surgery from Pondicherry University in 1994. He is the Dean of RECOUP Research and Education Foundation & the Medical Director of RECOUP Neuro-musculoskeletal Rehabilitation Centre. He is the Founder Director of EPM International Ergonomics School, Milan, Italy. He is also the Founder and President of Indian Ergonomics School. He has special interests and skills in Rehabilitation of Musculoskeletal Disorders, e.g., Myofascial Pain and Dysfunction, Repetitive Strain Injuries, Rehabilitative Surgery for Neuromuscular Disorders and backpack injuries. He is the recipient of many international scholarships and awards.



Dr. B. Rajashekar

Founder Dean & Professor,
Department of Speech & Hearing,
College of Health Professions (MCHP), MAHE, Manipal

Dr. B. Rajashekhar is Founder Dean and presently Professor in the Department of Speech & Hearing at Manipal College of Health Professions (MCHP), MAHE, Manipal. He has served in various capacities in Manipal since 1976. He is the recipient of many honors (Dr. Ratna Oration Award), and international fellowships (USA & UK). He is member of the first ENT – SLP team to start TEP mode of voice restoration for Laryngectomies in India.



Dr. Raju K Parasher

Director/Principal,
Amar Jyoti Institute of Physiotherapy (AJIPT), New Delhi

Dr. Raju K Parasher is working as Director/Principal in Amar Jyoti Institute of Physiotherapy, Delhi. He is MSPT Neurology from Chicago Medical School, USA in 1990 and Ph.D/Ed.D from Teachers' College, Columbia University, New York City, USA in 1998. He is having more than 37 years of experience and his areas of interest are neuro-musculoskeletal and motor control & learning. He is the president of 'Society of Indian Physiotherapists'.

PLENARY SESSIONS



Dr. Amitabh Dwivedi

Dean, Jaipur Occupational Therapy College,
Maharaj Vinayak Global University, Jaipur

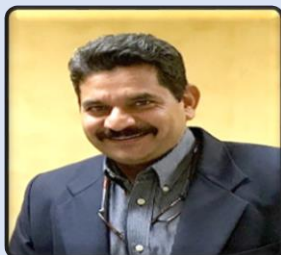
Dr. Amitabh Dwivedi is working as Principal, Jaipur Occupational Therapy College, Maharaj Vinayak Global University, Jaipur since 2012. He has done his BOT from NIOH, Kolkata; MOT from Manipal University and PhD from Maharaj Vinayak Global University, Jaipur in 2017. He has many publications to his credit. He has special recognition and knowledge in the area of environmental modification and adaptive devices fabrication. He has received International Award from IJRULA in association with World Research Council for Best Researcher in Occupational Therapy & the Goal Achiever Award for “Best Educationist of Health Technology & Leadership”.



Dr. Gaurij Hood

Consultant Public Health Specialist,
Community & Family Physician,
Head of Outreach and Early Intervention Centre and
Child Malnutrition Treatment Centre, Shrimad
Rajchandra hospital,
Dharampur, Valsad, Gujarat

Dr. Gaurij Hood is Consultant Public Health specialist, Community & Family physician, Head of Outreach and Early intervention centre and Child Malnutrition treatment centre in Shrimad Rajchandra hospital, Dharampur, Valsad, Gujarat since 2013. He has done his M.B.B.S and M.D. (Community Medicine) from Mahatma Gandhi Institute of Medical Sciences, Sewagram, Wardha.



Dr. Veerendra Shandilya

Managing Director and Full time Consultant Orthotist
and Prosthetist at Bionic Rehabs

Dr. Veerendra Shandilya is a Managing Director and Full time Consultant Orthotist and Prosthetist at Bionic Rehabs, Vadodara, India. He is BPO from AIIPMR, Mumbai. US certified ABCPO & BOCPO. Receipt of “Life time achievement Award” from orthotics and Prosthetics association of India in 2014. He is also joint Director at Jaya Rehab Center, Bidada.

PLENARY SESSIONS



Dr. Nekram Upadhyay

Head, Department of Assistive Technology,
Indian Spinal Injuries Centre (ISIC), New Delhi

Dr. Nekram Upadhyay has completed his higher studies at University of Illinois at Chicago, USA specializing in Assistive Technology and Rehabilitation Engineering. Mr. Upadhyay joined Indian Spinal Injuries Centre (ISIC) in 2006 where he established the first Department of Assistive Technology. He is recipient of several awards in innovative technology such as prestigious Universal Design Award 2013, Rotary Innovative Technology Professional Award, and the Ford Foundation International Fellowship Award.



Dr. M N Parmar

Professor, Faculty of Social Work,
M. S. University, Vadodara

Dr. M N Parmar is the professor, Faculty of Social Work, Maharaja Sayajirao University (MSU), Vadodara. He is a B.A. LLB graduate who completed his Ph.D from The M.S. University, Vadodara. He also holds a degree of Medical Social Worker. He is a syndicate member of MSU and director of child line project, TISS & government of India. He has attended as well as organized many seminars and conferences. He is also a well published author who has won "Harion award for Best Research Paper in Social Sciences" in 1999-2000. He has attended and organized 14 NSS camps in Tribal and Rural areas.

Chair Persons for the Plenary sessions:

Date: 20/09/2019		Day: Friday
Session I		
Dr Jitendra Lakhani Professor, Dept of Medicine, SBKSMIRC	Dr Priyanshu Rathod Director, School of Physiotherapy, R K University	
Session II		
Dr. Paresh P Golwala Additional Dean, HOD, Orthopedics, SBKSMIRC	Dr Yagna Shukla Senior Lecturer, Physiotherapy College, Civil Hospital, Ahmedabad	
Date: 20/09/2019		Day: Saturday
Session III		
Dr. (Brig.) Arvind Kumar Chaudhary Professor, Dept of Community Medicine, SBKSMIRC	Dr Daxa Mishra Professor, K M Patel Institute of Physiotherapy	
Session IV		
Dr. (Brig.) Arvind Kumar Chaudhary Professor, Dept of Community Medicine, SBKSMIRC	Dr. M. Balaganapathy Principal I/C. ARIP, Charusat University	

Scientific Paper Presentations

Paper No.	Topic	Presenter
1	Reference values for trunk mobility in normal adults	Purvi Patel
2	Correlation of Pain, Kinesiophobia and Physical Activity Level in Subjects with Chronic Low Back Pain	Megha Jayswal
3	To compare the effect of drawing in maneuver (deep abdominals) exercises versus core strengthening (superficial abdominals) exercises on primary dysmenorrhea	Hitiksha Dedania
4	To compare the effect of scapular stability exercise versus scapular proprioceptive neuromuscular facilitation on function of paretic upper extremity of stroke patients	Avanee Vajar
5	Effect of pelvic floor muscle training based on severity of incontinence on incontinence episodes in women with stress urinary incontinence.	Zarna Shah
6	A comparative study of transversus abdominis endurance and lower extremity balance in individuals with non-specific low back pain and asymptomatic individuals	Bhavik Jhaveri
7	Correlation of body mass index and fear of falls in community dwelling elderly	Parag Ranade
8	Effects of pranayama on respiratory function and breathing capacity in college students	Modi Sarjan
9	Comparison of efficacy of high voltage pulsed current and zinc iontophoresis in healing of pressure ulcers in patients with spinal cord injury	Vandana Patel
10	Lower limb flexibility, muscle strength and its association with multidirectional reach test in elderly subjects	Hunita Dhanju
11	Validity and Reliability of the Physical Activity Questionnaire for Older Children (PAQ-C) in Gujarati Language	Salvi Shah
12	Correlation of smartphone usage with cervical proprioception and pressure performance index -an observational study	Darshini Shah
13	Effect of balance training versus strengthening exercises on balance confidence in older adults with Diabetes mellitus	Neeomi Patel
14	Analysis of Disability in Community Dwelling Ischemic Heart Disease Individuals Using WHODAS 2.0- A Cross sectional Survey	Varoon Jaiswal

15	Effect of Swiss ball training on positive and negative breath holding capacity in physical therapy students	Dvisha Patel
16	High intensity versus low intensity plyometrics training on selected fitness variables among football players	Falak Kanabar
17	Correlation of BMI to tandem stance and unipedal stance in school children, age group between 6 to 12 years	Dhwani Chanpura
18	Physical activity of community dwelling elderly population - A Survey	Samira Patel
19	Effect of Mckenzie Method on pain and Function in patients with Cervicogenic Headache: an experimental study	Seema Saini
20	Correlation between hand grip strength, hand power, core strength and core endurance in physiotherapists	Ashna Suthar
21	Respiratory muscle strength in children in age group 7-12 years A cross-sectional observational pilot study	Prajakta Patil
22	Efficacy of non-weight bearing proprioceptive exercises on pain and function in subjects with knee osteoarthritis	Vaibhavi Shah
23	Comparison of the immediate effect of slow pace breathing exercise bhrastrika pranayama and fast pace breathing exercise kapalabhati on blood pressure and heart rate in normal healthy individuals	Hemal Dalal
24	Correlation of foot posture with mechanical low back pain: an observational study	Deval Contractor
25	Comparison between bubble pep and balloon blowing technique on pulmonary function in patients with intercostal drainage tube in pleural effusion	Misri Bhavsar
26	Inter-rater and Intra-rater Reliability and Validity of instrument made in rural set up to measure Maximum Inspiratory Pressure (MIP).	Rasal Sarvesh Vivekanand
27	To establish norms of 'Unipedal stance test' with eyes open in healthy adults	Anishma Chungath

Scientific Poster Presentations

Poster No.	Topic	Presenter
1	A patient with chronic hypersensitivity pneumonitis: case report	Maitri Thakar
2	Comparison of Visual and Auditory Reaction Time in Physically Active and Inactive Male and Female Adolescents: An Observational Study.	Zoya Khatri
3	Respiratory symptoms and lung capacities in ceramic workers of Morbi	Shriya M Gupta
4	Prevalence of work-related musculoskeletal disorders in auto rickshaw, car and bus drivers in Ahmednagar city	Deeba Shaikh
5	Correlation of Body Mass Index with Balance in Spastic Diplegic Cerebral Palsy	Rinkle Rathod J
6	Perception of epilepsy amongst physiotherapy students and professionals – a cross sectional survey	Geeta Bhatt
7	Effect of immediate shoulder rehabilitation on upper limb function and quality of life following surgery in women with breast cancer – a systematic review	Jinal Thakkar
8	Level of Physical Fitness Among Students Of Vikhe Patil Institute Of Medical Sciences, Ahmednagar	Kalyani Nalawade
9	Association of Cardio-respiratory Endurance and BMI among Postmenopausal Indian population	Mamta Chainani
10	A Systemic Review to find out Most Reliable Management to Treat Rheumatoid Arthritis (Ra) Patients And See Effects Of Same On Pain, Aerobic Capacity, Strength, Psychological Health And Functional Capacity	Heta Bipinbhai Kotak
11	Immediate effect of eccentric training versus foam roller on ankle dorsiflexion range of motion: an interventional study	Nidhi Nitin Kumar Rana
12	Outcomes 3 years after traumatic spinal cord injury in Gujarat: a follow-up study	Ankita Gosai
13	A study to find out relation between the house brackmann facial nerve grading global score with electrophysiological parameters (latency and amplitude of compound motor action potential) of facial nerve in patients with bell's palsy – a co-relational study	Krina Ved
14	The impact of Telehealth on Effective Delivery of Home-Based Exercise Program (HBEP) in Neuromuscular Rehabilitation: Randomized Control Trial	Harshad Morasiya

15	Influence of Severity of Knee OA and Its Association with Physical Function in Community Dwelling Older Adults	Sanskruti Ravindra Tahakik
16	Correlation of pain and kinesiophobia in tailors with neck pain	Aastha Bodade
17	Effects of table top game activities on depression in geriatric population	Darji Hemal
18	Patient's Adherence to Physiotherapist Prescribed Self-Management Strategies: A Physical Therapist's Perspective	Heta D Baxi
19	Correlation of smartphone addiction with grip strength and hand function in young healthy adults	Hilery Patel
20	Correlation of Fears and Beliefs about Knee Osteoarthritis with Balance in Patients with Osteoarthritis of Knee	Priyal P Bhatt
21	Translation and Cultural Adaptation of SIO Obesity-Related Disability Test (TSD-OC) for Gujarati Population	Chaitali J Bhatt
22	Prevalence of medial and lateral epicondylitis and its effect on upper extremity function in garage workers of Ahmedabad	Payal U Bhardiwala
23	Quality of life assessment in night shift watchmen – an observational study	Bansari Patel
24	Immediate Effect of Blow Bottle PEP(BBPEP) Device on Oxygenation Saturation Among the Patients with Open Heart Surgery- A Pilot Study	Abhaya Sanjay Mahadik
25	Prevalence of Musculoskeletal Disorders in Patients Undergoing Haemodialysis in a Tertiary Care Hospital: Cross-sectional study	Sanjaitha Jayaprakash
26	Cardiovascular response to core stability exercises on Swiss ball and floor in hypertensive individuals	Bharvi Malaviya
27	Upper Crossed Syndrome" A Rising Problem in College Students – A Cross-Sectional Study	Pooja Dhage
28	Prevalence of Work-Related Musculoskeletal Disorders in Small Scale Industrial Workers: A Cross- Sectional Study	Nilesh Dond
29	Physical Activity levels in patients with type 2 diabetes in mid-Maharashtra state region	Tirth Rambhia
30	An observational study to find out quality of life of professional physiotherapists.	Sandhya Bhambani
31	Perception of falls and preventive measures among elderly population in Ahmednagar-India	Aarya Mehta
32	Peak expiratory flow rate measure among community dwelling elderly rural population	Agrawal Sheetal Tarachand
33	Prevalence of Neck and Low Back Pain and its effects on quality of life (QOL) in Tailors of Ahmedabad	Krishna Chaudhary

34	Using ICF To Understand Personal and Environmental Factors Associated with Functional Status In Children With Cerebral Palsy In Ahmednagar District.	Gargi Ayachit
35	Effectiveness of clamshell exercise on pain and functional limitations in young adults with patellofemoral pain syndrome.	Ashna Suthar
36	Effectiveness of perturbation training on balance in patients with knee osteoarthritis: an evidence-based study	Snehal Vasava
37	A study to evaluate the effectiveness of deep transverse friction massage and ischemic compression in upper trapezitis-quasi experimental study	Jaria Sefali
38	Effectiveness of mikhled knee exercise program on pain and functional disability in subjects with osteoarthritis of knee joint	Aashka Bodade
39	Lower limbs flexibility, muscle strength and power and their association with agility in non-specific recreational sport players	Mayuri Saxena
40	Correlation of spasticity, weakness and contracture of elbow flexors and wrist flexors with upper extremity functions in chronic stroke patients	Palak Ashokkumar Shrimali
41	Correlation Between Anthropometric Parameters and Hand Span with Hand Grip Strength in Normal Healthy Individuals	Mansi Patel
42	Home-based exercise program after Hip replacement	Axita Vyas
43	Effect of mirror feedback on multi-directional reach	Shruti Talnikar
44	Cardiopulmonary resuscitation knowledge/awareness among final year B. Physiotherapy Students: A Questionnaire based study	Himadri Tripathi
45	Knowledge of mothers' regarding infants' developmental milestones in four domains: gross-motor, fine-motor, language, personal-social- a pilot study	Pooja Thakur
46	The Effect of Right and Left Nostril Breathing Exercise on Cardio - Respiratory Parameters	Heena Parmar
47	Measurement of lumbar lordosis angle using flexible ruler in college going students with or without non-specific low back pain	Nidhi Pareshbhai Patel
48	Normative data of hand grip strength in various age groups of Adult	Modi Pinal
49	Relationship between Transversus Abdominis Strength and Lumbar Lordosis in Young Adults: A Pilot Study	Deepali Patil
50	Assessment of Functional End Ranges of lower limb joints in positions commonly used for ADL'S in India: A Pilot Study	Lavina Khatri
51	Effect of electrical stimulation in spasticity in spinal cord lesion patients- A Pilot Study	Pawan Kumar

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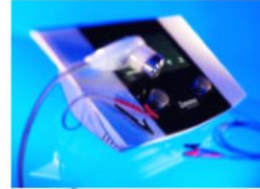
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