

Workshop on “Team Approach for Comprehensive Health Care”

Date – 18th and 19th December 2017

‘Research is the foundation of science’ leading to evolution of a researcher, marking his footsteps towards ‘serving mankind’. According to Dr. Prabhakar Sharma, head and professor (nephrology and hypertension division), Department of Medicine, Texas Tech Health Sciences



Dr. Prabhakar delivering his lecture

Centre, Texas Tech University, Lubbock, USA, “The objective of research is essentially to gain economic progress, social development and serving humanity.” During his two days interactive session held on 18th and 19th December 2017 at CHARUSAT University, Changa, Anand, Gujarat, he interacted with students and faculties of paramedical division encouraging them for research with a team approach. According to him, team approach is the key to attain a noble work. He elaborated his views on team approach and avenues in allied health care system and highlighted the growing demand of paramedics in health care.

The session was co-chaired by Dr. Mohan Rajapurkar, director (research and postgraduate studies, nephrology division), Muljibhai Patel Urological Hospital, Nadiad, Gujarat.

On 18th the Provost (CHARUSAT University) welcomed Dr. Prabhakar Sharma and discussed about research and education at CHARUSAT. Then Dr. Prabhakar along with Dr. Darshan (Principal, CIPS) reached the venue (MTIN, auditorium). The session started with formal introduction of Dr. Prabhakar and then he lead the session. He interacted with students and faculties of ARIP, MTIN and CIPS. The theme of the talk was “Team Approach for Comprehensive Health Care”. The session continued for about 2 and half hour and the students as well as faculties attended it with a great interest. He told the students that without team approach there would be no progress. He even discussed that students and teachers are the pillar for the next generation of health care system and in the next generation what is the importance of



Students Group discussion after lecture series

the paramedics. He showed that in the current scenario there is an extreme need for

the Paramedics. He also discussed various opportunities available at university level and how research is the inseparable part of any education system. The session ended with question and answers. Then, as a host we made him visited the whole campus and where he was very much impressed with our Hospital facilities and service. His day ended with lunch where he interacted with principals of various departments and they shared the view about research at both universities.

The next day 19th started with an elaborative discussion between Dr. B. G. Patel (Provost, CHARUSAT), Dr. Devang Joshi (Registrar, CHARUSAT), Dr. Prabhakar Sharma (Head, Nephrology Division, TTU), Dr. Mohan Rjapurkar (Director, Research Department,

Muljibhai Patel Urological Hospital) and Dr. Darshan Patel (Principal, CIPS). All the dignitaries discussed about the research opportunities across the universities and probable MOUs between the universities. Importance of student and faculty exchange programs across the universities. Dr. Prabhakar and Dr. Rajapurkar showed a keen interest in collaborations.

After the official meeting Dr. Prabhakar initiated the session at ARIP conference room and Dr. Rajapurkar co-chaired the session. Dr. Balaganpathy (Principal, ARIP) and Dr. Darshan (Principal, CIPS) were also present along with faculties and students of various streams. The topic for interaction was “Research orientation of students and faculties and Avenues for faculty Development in Allied Health Sciences”.

The session proved to be a fruitful session in terms of students learning various research opportunities available at various Universities located abroad. The guest constantly emphasized on the importance of research in the development of Universities at global level and role of students and faculty members in research activity. He also discussed the increasing demand of the Allied Health Care Sector. At the end, the session was open for questions and answer. Dr.



Interaction between spokesperson and Charusat faculties



Interaction between spokesperson and Charusat faculties



Rajapurkar also shared his views about research and its importance. Both the invitees explicitly said that research is the heart of any institute and it would be rather recognized only by the research activities it performs.

The two day program was managed by Dr. Dhara Patel (Head, MLT Department, CIPS) under the constant guidance of Dr. Darshan Patel (Principal, CIPS).

Event Report

Our International Radiology day event was organized on 8th November 2017. The event was planned with a theme “Radiation awareness: we care for you” to create awareness and knowledge among students and public about the effects of radiation. This event basically aimed to aware students and general public about the measures and precautions required to avoid unnecessary exposure to radiation while working or visiting Radiology department such as X ray, CT scan, Mammography, Ultrasound etc. The event was organized by the Department of Medical Imaging and Radiology Technology, Charotar Institute of Paramedical Sciences (CIPS), Charotar University of Science and Technology (CHARUSAT).



Collage of photographs showing the activities of overall event

The event enclosed:

1. Guest speaker talk on CT and MRI safety in Radiology department by Dr. (prof.) Deepak V Mehta, Dept. of Radio Diagnosis, Karamsad Medical College.
2. Poster presentation on Personal Radiation Dosimetry, Precautions to be followed for Female patients during their clinical visits to radiology department by MRIT 3rd semester students.
3. Radiation awareness symbol presentation by MRIT 1st semester students.
4. Radiation awareness template preparation and distribution by Ms. Dolly Sharma, Assistant professor, MRIT Dept., CIPS. More than 100 participants including staffs and students have participated in this program.

**CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF MEDICAL SCIENCES
CHAROTAR INSTITUTE OF PARAMEDICAL SCIENCES (A Constituent of CHARUSAT)
DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY**

A Report on Three days workshop on Cell and Molecular Biology
At Akanksha Hospital, Anand
From 8th-10th March 2018

A workshop was organized by Akanksha Hospital & Research Institute from 8th march 2018 – 10th march 2018 which was attended by students of Department of Medical Laboratory Technology along with two faculty of Charotar Institute of Paramedical Science (CIPS), a constitute of CHARUSAT. The workshop was on “Cell and Molecular Biology” including “Embryology & Molecular Laboratory Techniques” for students to learn and have hands on trainings for the diagnostic techniques. The workshop basically aimed to teach students the basic technical aspects of molecular diagnostics and also how to deal with cell culturing. We were guided by Mr. Piyush Chudasama, molecular biologist and Khyati Patel, research assistant for the same.



Photographs showing series of events during the workshop

The workshop summary:

1. The three day workshop was planned from 10:00 am - 4:00pm at Akanksha hospital.
2. First day the students were given lectures on cell and molecular biology where various techniques like PCR and next generation sequencing was explained in detail. Next class was on cell culturing technique where they taught us the different clinical aspects of culturing. Post lunch session included visits to various labs of the diagnostics like sequencing, embryology and culturing.
3. Second day the students were divided in two groups batch 1 & 2. Batch 1 were given hands on training for molecular technique DNA Isolation and RT-PCR where they tested tissues for Endometrial Tuberculosis while students of batch 2 were given a demo of cell culturing and monocyte isolation.
4. Last day batches were switched and the same techniques were taught.
5. At the end of workshop students were given certificate for the same signed by Dr. Naina as well as Dr Harsha and Mr. Piyush.

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A REPORT ON ONE DAY EDUCATIONAL
WORKSHOP TO AKANKSHA HOSPITAL &
RESEARCH INSTITUTE 14th NOVEMBER, 2017

Department of Medical Laboratory Technology from Charotar Institute of Paramedical Sciences (CIPS), a constituent of CHARUSAT has visited Akanksha Hospital & Research Institute, Anand on 14th November 2017, as a part of industrial visit & workshop. 10 post graduate students along with 3 faculty members (Dr. Dhara Patel, Dr. Artee Tyagi and Mrs. Amita Patel) reached the destined institute at 10:45 am. Akanksha Hospital, under the flagship of Satkaival Trust is a well-known In vitro Fertilization clinic nationally as well as internationally.

Mrs. Harsha Ahir (Chief Embryologist, Akanksha IVF centre) and her Assistant Ms. Kruti Patel (M.Sc. Embryology) gave an introduction about vision and mission of Akanksha IVF Hospital and Research Institute. Our Paramedical team visited various departments of the institute from 11:00 am to 1:30 pm in the noon.

Our team started from Physiotherapy department and its importance during all the three trimesters of pregnancy. The head of the physiotherapy department shared her experiences in treating patients with various medical complications. The next department was dental department and we were explained about all different types of neonatal dental problems and prenatal dental problems. They shared with us the latest medical therapy they are using for treating patients. As a part of treatment they use platelet rich plasma injections for regeneration of new dental tissues. Another attractive department was of Cosmetology, the chief cosmetologist again shared her experiences and ongoing recent techniques in the field of cosmetic surgery, liposuction and various other post pregnancy treatments. She also explained the usage of platelet rich plasma in hair transplantation, cosmetic surgery and face lifting.

Our next destination was the Molecular Biology Lab where a detailed explanation by Ms. Shefali helped us to know the latest techniques of DNA fingerprinting, karyotyping and Polymerase Chain Reaction based determination of various genetic mutations. She also showed us an Illumina platform based Ion Torrent Next Generation Sequencing Technique to rule out certain rare genetic mutation right from the developing embryo. She also explained various basic instruments used in the molecular biology lab like centrifuge, SDS gel units, Agarose gel units.



Team of CIPS



Equipments in laboratory

Different Equipments in laboratory



Dr. Ketan, Chief Pathologist of the Pathology department gave detailed information about various immunological based tests for hormones. The pathology department was well equipped with modern instruments including Cobas, Automated ESR, Coagulometer, Automated Urinalysis, Biochemistry Analyzer and Haematological Cell Counter. He interacted with students by asking them questions and to which our students responded very well.

We departed from pathology lab to visit the final and the most awaited lab of the hospital which was the Embryology lab. Ms. Harsha and Ms. Kruti showed us various techniques used in collection of embryo and semen. She in detail explained the in vitro fertilization technique and its importance in infertility. She showed her painstaking work for the selection of best embryo to be implanted. She demonstrated the in vitro stage by stage development of the embryo through video. She also highlighted another technique called Intracytoplasmic Sperm Injection (ICSI). We had a lunch break from 1:30 pm to 2:00 pm where we enjoyed the meal served inhouse.



Photographs showing different activities done at Akanksha hospital

The second session from 2:00 pm onwards was interactive session where Dr. Maulina Patel, Ms. Harsha Ahir and Ms. Kruti Patel gave power point presentation on various fertilization techniques and showed various videos showing the whole IVF and ICSI technique and cleared all the doubts regarding it which were raised by students. Finally we left the institute at 3:45 pm with all the knowledge absorbed throughout the visit. We returned back the campus by 4:15 pm. The visit created interest in students and encouraged to think about research going on in the field.

A REPORT ON WORLD SIGHT DAY CELEBRATION
12TH OCTOBER, 2017

Theme of the seminar was **“Digital Eye strain & Galloping myopia”**.



Every year World Sight Day is celebrated on the second Thursday of October, to focus global attention on blindness and vision impairment. This year CIPS and CHRF decided to celebrate World sight day on 12th Oct 2017 keeping the same goal in mind.

The central theme of the event was to spread the awareness in youth about Digital eye strain and progressively increased risk of getting Myopia. All the students and staffs from each constituent institution of Charusat and CHRF were invited to attend the expert talk.

Event started with Prayer and then gathering was addressed by Dr. Uma Patel (COO CHRF). She very nicely explained importance of World sight day and initiated the event.

Master of ceremony Optom. Jaydevsinh Pargara introduced our first speaker. Optom. Jyoti Dave Singh (Managing trustee Jyoticare Benevolent Foundation). She is Contact lens practitioner in India as well as UK. She gave talk on ***“Galloping Myopia”***. She Enlightened the gathering about increased prevalence of Myopia among youth. The statistics about myopia were eye opening and everyone realized why it is considered as a global issue.



Inauguration ceremony on world sight day celebration

Following to that Optom.Yogesh Vaghela Assistant Professor, Dept. of Optometry, CIPS gave a very insightful talk on **“Digital eye strain”** He very nicely explained sources of Digital eye strain and how to alleviate symptoms related to that.



Experts delivering talk

After the talk there was a Panel discussion comprising Experts from the field of Optometry and Ophthalmology. The main aim of the panel discussion was to answer the questions and eradicate any myths related to eye health. There were many questions from audience and all were satisfactorily addressed by Experts from panel.

Once Panel discussion was over Optom.Jaydevsinh Pargara Shared heart touching poem **“Prabhu Tamaro khub khub abhar”** Written by II sem B.optometry student Nisarg Pandya. All were moved by his words.

Event concluded with very informative video on **“Prevention of Avoidable blindness”**



Panel discussion on digital eye strain