



COLLEGE OF PHYSIOTHERAPY

Report on Lecture Series: Radiology - Insights in Imaging: Elevating Physiotherapy Practice

Date: February 26, 2024, to March 12, 2024

Venue: Seminar Hall, College of Physiotherapy, School of Health Sciences, DSU

Time: 11:00 a.m. to 01:00 p.m.

Introduction:

The College of Physiotherapy, School of Health Sciences, Dayananda Sagar University organized a comprehensive lecture series titled " Insights in Imaging - Elevating Physiotherapy Practice." The series aimed to provide basic knowledge and practical insights into the role of radiology in enhancing physiotherapy practices. It spanned from February 26, 2024, to March 12, 2024, encompassing various topics related to radiological imaging techniques and their applications in the field of physiotherapy. A total of 183 participants had registered for the Lecture series. The lecture series was conducted in Hybrid Mode. The sessions were handled by Department of Radiology and Department of Orthopaedics, CDSIMER. Our alumnus, Dr Shreya Jayanth, has taken part in the lecture series. There are around 12 colleges outside of DSU has taken part in the lecture series. A total of 13 lectures was conducted during the lecture series.

The list of colleges participated are listed below:

1. Narayana Hrudayalaya Institute of Physiotherapy, Bangalore
2. Columbia College of Physiotherapy, Bangalore
3. Yenapoya Physiotherapy College, Mangalore
4. Jindal Naturecure Institute, Bangalore

5. Hosmat Educational Institute, Bangalore
6. Amrutha ayurvedic Medical College and Hospital, Chitradurga
7. Kempegowda Institute of Physiotherapy, Bangalore
8. Dr M G R Medical University, Chennai
9. Vydehi Institute of Medical Sciences, Bangalore
10. Garden City University, Bangalore
11. Padmashree Institute of Physiotherapy, Bangalore
12. Head and Toe Physiotherapy Clinic, Bangalore

Objective:

The primary objective of the lecture series was to equip physiotherapy students and professionals with a deeper understanding of radiological imaging modalities, interpretation of images, and their integration into effective treatment plans. The sessions were designed to bridge the gap between theoretical knowledge and practical application, enabling participants to leverage radiology for better patient outcomes.

Session Highlights:

Introduction to Radiological Imaging: The series commenced with an overview of different imaging modalities such as X-rays, CT scans, MRI, and PET, Angiography, and Identification of Artifacts. The session focused on the principles, indications, and limitations of each modality, laying a strong foundation for subsequent discussions. The session was held on 26-02-2024 in between 11:00 a.m. and 01:00 p.m.

Imaging in neurological conditions and MRI of the Brain and Spinal Cord: A detailed exploration of radiological anatomy and common pathologies relevant to physiotherapy practice was conducted. Participants gained insights into identifying anatomical structures and pathological conditions through imaging studies. The session was held on 27-02-2024 in between 11:00 a.m. and 01:00 p.m.

Imaging in Cardiopulmonary conditions (Chest X-ray and Abdominal X-Ray): This session delved into the art of interpreting radiological images. Participants learned how to analyse images systematically, recognize normal versus abnormal findings, and correlate imaging findings with clinical presentations. The session was held on 28-02-2024 in between 11:00 a.m. and 01:00 p.m.

Ultrasound in Obstetrics and Gynaecology: ultrasound in Obstetric and Gynaecological conditions, in depth trimester wise ultrasound were discussed in detail. The session explored their applications in assessing obstetric and Gynaecological Conditions. The session was held on 29-02-2024 in between 11:00 a.m. and 01:00 p.m.

Imaging in Orthopaedic conditions: One of the key focuses was on integrating imaging findings into comprehensive treatment plans. Case studies and practical examples were used to demonstrate how radiology guides therapeutic interventions and rehabilitation strategies. The session was held on 01-03-2024 in between 12:00 noon. and 01:00 p.m.

Identification of Fracture Patterns in Radiology in Different Imaging Modalities: A crucial aspect of the series was addressing very commonly seen fracture patterns, how to identify the type of fractures in day-to-day life. Emphasis was placed on ensuring patient well-being and informed consent. The session was held on 05-03-2024 in between 12:00 noon. and 01:00 p.m.

Arthritis and Spine Imaging: it is difficult to identify various arthritis and spinal imaging. To overcome this problem, this topic was discussed and stretched so that it will be easy for the students to identify the arthritis and choose appropriate rehabilitation protocol. The session was held on 06-03-2024 in between 12:00 noon. and 01:00 p.m.

MRI of Knee and Shoulder: A crucial aspect of the series was addressing very commonly seen knee and shoulder injuries in an athlete as well as a common population. It is always important to know in-detail to identify these injuries, hence emphasis was made. The session was held on 07-03-2024 in between 12:00 noon. and 01:00 p.m.

Recognizing Benign and Malignant Tumours through X-rays and Advance

Imaging: One of the key focuses was on the said topic on identifying various tumours. Case studies, practical examples were used to demonstrate how to identify and choose an appropriate rehabilitation protocol. The session was held on 06-03-2024 in between 12:00 noon. and 01:00 p.m.

Valedictory:

On 12th March 2024 at 02:00 p.m. the valedictory event has been commenced by the gracious presence of our Chief Guest- Dr Veda Raju, Head of the Department, Department of Radiology, CDSIMER and our Guest of Honor- Dr Pushpa Sarkar, Dean, School of Health Sciences. Dr Gayathri Poojary, Emcee of the Day welcomed the Chief Guest, Audience and the fellow colleagues and Invited Dr Sathya Guruprasad, Professor and Principal, College of Physiotherapy, School of Health Sciences, DSU to give the welcome speech followed by Chief Guest Speech and the Guest of Honour. Ms Sayali, our postgraduate student had taken a step forward and given feedback on the program on behalf of the audience. Dr Srihari Sharma K N and Dr Sai Bhavani were the organizers of the event. The lecture series was concluded with seamless knowledge and experience from the renowned resource persons in the field.

Speaker Profiles:

The lecture series featured renowned experts in the fields of radiology and physiotherapy, including:

1. Dr. Chandana Udayakumar, Assistant Professor, Department of Radiology, CDSIMER
2. Dr Kiran Kumar B M, Assistant Professor, Department of Radiology, CDSIMER
3. Dr Malathi S Bhat, Senior Resident, Department of Radiology, CDSIMER
4. Dr Nithyashree, Senior Resident, Department of Radiology, CDSIMER
5. Dr C R Sushaal, Senior Resident, Department of Radiology, CDSIMER
6. Dr Goutham D V, Assistant Professor, Department of Orthopaedics, CDSIMER

7. Dr Azahar Hussain M, Assistant Professor, Department of Orthopaedics, CDSIMER
8. Dr Sachin H G, Assistant Professor, Department of Orthopaedics, CDSIMER
9. Dr Sunil L K, Assistant Professor, Department of Orthopaedics, CDSIMER
10. Dr Sachin M Khemkar, Assistant Professor, Department of Orthopaedics, CDSIMER

Audience Engagement:

The sessions encouraged active participation through interactive discussions, Q&A segments, and hands-on workshops. Participants had the opportunity to engage with speakers, share insights, and collaborate on case studies, fostering a dynamic learning environment.

Feedback and Evaluation:

Feedback from participants was overwhelmingly positive, highlighting the series' effectiveness in enhancing their understanding of radiological concepts and their practical applications in physiotherapy. Key takeaways included improved diagnostic skills, enhanced treatment planning abilities, and a deeper appreciation for the interdisciplinary approach between radiology and physiotherapy.

Conclusion:

The "Insights in Imaging: Elevating Physiotherapy Practice" lecture series was a resounding success, achieving its objectives of providing comprehensive knowledge and practical skills to physiotherapy students and professionals. The integration of radiological insights is expected to elevate the quality of patient care and outcomes in physiotherapy practice, emphasizing the importance of continued education and interdisciplinary collaboration in healthcare settings.

Program Co-ordinator

Principal Signature



COLLEGE OF PHYSIOTHERAPY

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Dear all,

I am writing to inform you about an upcoming lecture series- **Insights in Imaging: Elevating Physiotherapy Practice** starting from 26-02-2024 to 12-03-2024

We look forward to your participation in this event

Program coordinator

Principal