



Interdepartmental PG seminar

Department of Physiology inducted and coordinated the smooth conductance of interdepartmental PG seminars for the year 2024-25 with other departments. We are thankful to the other departments for their active participation and effort.

S.no	Date	Department	Topic
1	23.08.2024	Physiology	MI
2	24.10.2024	Biochemistry	Thyroid disorders
3	23.12.2024	Pathology	Endocrine System
4	31.01.2025	Physiology	Autoimmunity



Department of Physiology,
Velammal Medical College Hospital & Research Institute, Madurai



Physiology – MI

The department of physiology had organized PG seminar for departments of various clinical, pre and para clinical departments on 23.08.2024.





PROGRAM DETAILS

WELCOME ADDRESS		
DEPARTMENT	SEMINAR TOPIC	TIME
ANATOMY	ANATOMY OF CORONARY ARTERY, LAYERS OF HEART WALL & INVOLVEMENT IN MI	10:10 TO 10:30 AM
PHYSIOLOGY	PECULIARTIES OF CORONARY BLOOD FLOW, REGULATION OF CORONARY CIRCULATION	10:30 TO 10:50 AM
BIOCHEMISTRY	BIOCHEMICAL MARKERS OF MI	10:50 TO 11:10 AM
PATHOLOGY	PATHOPHYSIOLOGY OF MI AND ATHEROSCLEROSIS	11:10 TO 11:30 AM
MICROBIOLOGY	IMMUNE RESPONSE DURING AND AFTER MI	11:30 TO 11:50 AM
PHARMACOLOGY	DRUGS ON ACUTE MI	11:50 TO 12:10 PM
GENERAL MEDICINE	DIAGNOSIS OF MI	12:10 TO 12:25 PM
GENERAL SURGERY	CABG	12:25 TO 12:40 PM
COMMUNITY MEDICINE	EPIDEMIOLOGY OF MI, PRIMARY & SECONDARY PREVENTION	12:40 TO 12:55 PM
VOTE OF THANKS		

KINDLY ADHERE TO YOUR STIPULATED TIMING

The topic, “Myocardial Infarction” was chosen as the central theme for the Interdepartmental PG seminar and according to the various disciplines, the components of the topic was segregated, and the corresponding department was asked to present the topic.

Involved departments were informed prior via an invite letter and their approval was obtained and the respective department HODs were requested to choose a topic aligning with



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the theme of the seminar and allot a Postgraduate to present the topic from their department side.

The topics and the PGs list from each department are as follows.

S.no	Department	Postgraduate	Topic
1	Anatomy	Dr. Rajalakshmi Dr. Charanya	Anatomy of coronary artery, layers of heart wall & involvement in MI
2	Physiology	Dr. Hari Viknesh	Peculiarities of coronary blood flow, regulation of coronary circulation
3	Biochemistry	Dr. Aarathy	Biochemical markers of MI
4	Pathology	Dr. Madhu Bala	Pathophysiology of MI and atherosclerosis
5	Microbiology	Dr. Jasmine Fathima	Immune Response during and after MI
6	Pharmacology	Dr. Mohamed Mohaideen	Drugs on acute MI
7	General Medicine	Dr. Ramprasadh	Diagnosis of MI
8	General Surgery	Dr. Shiva	CABG
9	Community Medicine	Dr. Pavithra Kani	Epidemiology of MI, primary and secondary prevention



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Biochemistry – Thyroid Disorders

The interdepartmental postgraduate seminar on "Thyroid Disorders: A Multidisciplinary Approach" was organized by the Department of Biochemistry at Velammal Medical College Hospital and Research Institute in Madurai. This educational event occurred on October 24, 2024, from 2:00-3:15 PM in the Medical College Demo Room II.

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DEPARTMENT OF BIOCHEMISTRY

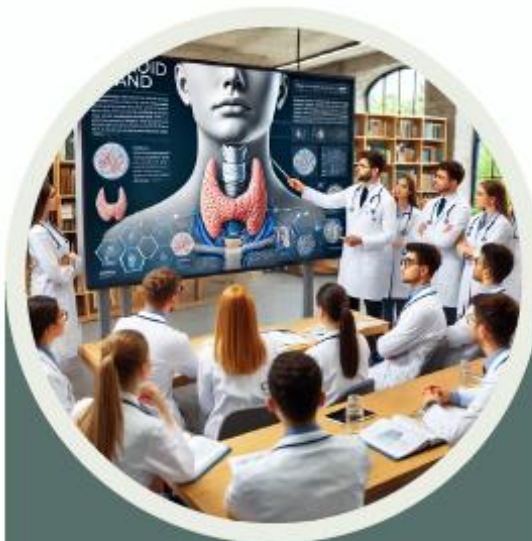
Interdepartmental Post Graduate Seminar
On
**Thyroid Disorders: A Multidisciplinary
Approach**

Venue: Department of Biochemistry in Medical College Demo Room - II



Date
october 24 2024

Time
2.00 - 3.15 PM





Event Structure and Participants

The seminar featured a well-organized agenda with precise time allocations for each presentation, demonstrating a comprehensive approach to thyroid disorders through multiple medical specialties. The event was initiated with a Welcome Address by Dr. Josephine Latha, HOD and Professor of Biochemistry.

Presentation Topics

The seminar covered the full spectrum of thyroid medicine:

1. **Structural Anatomy** (2:05-2:15 PM): Dr. Charanya (Anatomy) discussed thyroid gland structure and clinical significance.
2. **Hormone Synthesis** (2:15-2:30 PM): Dr. Hariviknesh (Physiology) explained thyroid hormone production and functions.
3. **Investigations** (2:30-2:40 PM): Dr. Dhiya Baskar (Biochemistry) covered diagnostic testing for thyroid disorders.
4. **Clinical Diagnosis** (2:40-2:50 PM): Dr. Haripriya G (General Medicine) presented on recognizing thyroid conditions.
5. **Surgical Interventions** (2:50-3:00 PM): Dr. Alagar (General Surgery) detailed surgical approaches.
6. **Pregnancy Implications** (3:00-3:10 PM): Dr. Monisha Shahitha GK (OB-GYN) addressed thyroid dysfunction during pregnancy.
7. **Psychiatric Connections** (3:10-3:20 PM): Dr. Hema Krishnan (Psychiatry) explored the relationship between mood disorders and thyroid function.

The event concluded with Dr. A. Hariharan, Associate Professor of Biochemistry, delivering the Vote of Thanks.



Pathology – Thyroid disorders

Team Pathology successfully coordinated a comprehensive thyroid disorders seminar featuring specialists across nine departments. The attendance sheet confirms all speakers participated as scheduled.

The program progressed logically from basic sciences (anatomy, physiology, biochemistry) through diagnostics (radiology) to clinical management (medicine, surgery) and specialty applications (OB-GYN, pathology). Each presenter maintained their allotted 10-minute timeslot, allowing for the full spectrum of thyroid care to be covered within the 85-minute session.

Dr. Jagan C opened the seminar, establishing the interdisciplinary framework, while each subsequent speaker built upon previous presentations to create a cohesive educational experience. All presenters signed the attendance record, confirming their commitment to this collaborative teaching initiative.





Opening Session (8:00-8:05 AM)

- **Welcome Address** delivered by Dr. Jagan C, Professor of Pathology
- Set the academic tone for this multidisciplinary exploration

Basic Sciences Foundation (8:05-8:35 AM)

- **Anatomical Perspective** (8:05-8:15 AM) - Dr. Rajalakshmi (PG Anatomy) covered thyroid gland structure with special emphasis on applied surgical anatomy.
- **Physiological Framework** (8:15-8:25 AM) - Dr. Hariviknesh (PG Physiology) explained thyroid hormone effects.
- **Biochemical Processes** (8:25-8:35 AM) - Dr. Aswini Prakash (PG Biochemistry) detailed thyroid hormone synthesis.

Diagnostic and Clinical Management (8:35-8:55 AM)

- **Radiological Assessment** (8:35-8:45 AM) - Dr. Sushmitha Priya (PG Radiology) presented imaging techniques.
- **Medical Therapeutics** (8:45-8:55 AM) - Dr. Thomas George (PG Medicine) discussed hypothyroidism and hyperthyroidism management.

Specialized Clinical Approaches (8:55-9:25 AM)

- **Surgical Interventions** (8:55-9:05 AM) - Dr. Shivson (PG Surgery) covered surgical management.
- **Obstetric and Gynaecological Considerations** (9:05-9:15 AM) - Dr. Udhaya Rajapriya (PG OB-GYN) addressed thyroid disorders in women's health.
- **Pathological Examination** (9:15-9:25 AM) - Dr. Malavika R (PG Pathology) concluded with thyroid disease pathology.



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The seminar demonstrated effective interdepartmental coordination with postgraduate participants from pathology, anatomy, physiology, biochemistry, radiology, medicine, surgery, and obstetrics & gynaecology, reflecting our institution's dedication to comprehensive medical education.



Physiology – Autoimmunity

The Department of Physiology conducted Interdepartmental PG seminar on the Topic “Autoimmunity” on 31.1.2025 between 10.00 AM to 12.00 PM in the Seminar Hall, Physiology department of Velammal Medical College. The postgraduates and faculty from respected departments attended the program. There were totally four seminar presentations from the departments of Physiology, Biochemistry, Microbiology and General Medicine.

**VELAMMAL MEDICAL COLLEGE
AND RESEARCH CENTRE**

DEPARTMENT OF PHYSIOLOGY
PRESENTS

**INTERDEPARTMENTAL
PG SEMINAR**

TOPIC :AUTOIMMUNITY

- DATE :31.01.2025
- TIME : 10.00 AM TO 12.00 PM
- VENUE: DEPARTMENT SEMINAR HALL, PHYSIOLOGY DEPARTMENT, VELAMMAL MEDICAL COLLEGE

The program started with the welcome address by D.J.T. Ajit Kumar, Assistant Professor, Physiology department. Dr. M. A. Hariviknesh, second year PG from Physiology department delivered a talk on “Development of immunity and mechanism of self – recognition.” He



explained about Major Histocompatibility complex, immunological tolerance and highlighted about positive and negative selection.



Following

this, Dr. R. Rithika, second year PG from Biochemistry department gave a talk on “Pathogenesis of Autoimmunity.” She explained various mechanisms by which autoimmunity occurs and highlighted about stages of autoimmune reactions. Dr. A. Asha Begam, third year PG from Microbiology department delivered a talk on “Auto Immune disorders and its diagnosis.” She emphasized about common autoimmune diseases and its laboratory diagnostic tests.



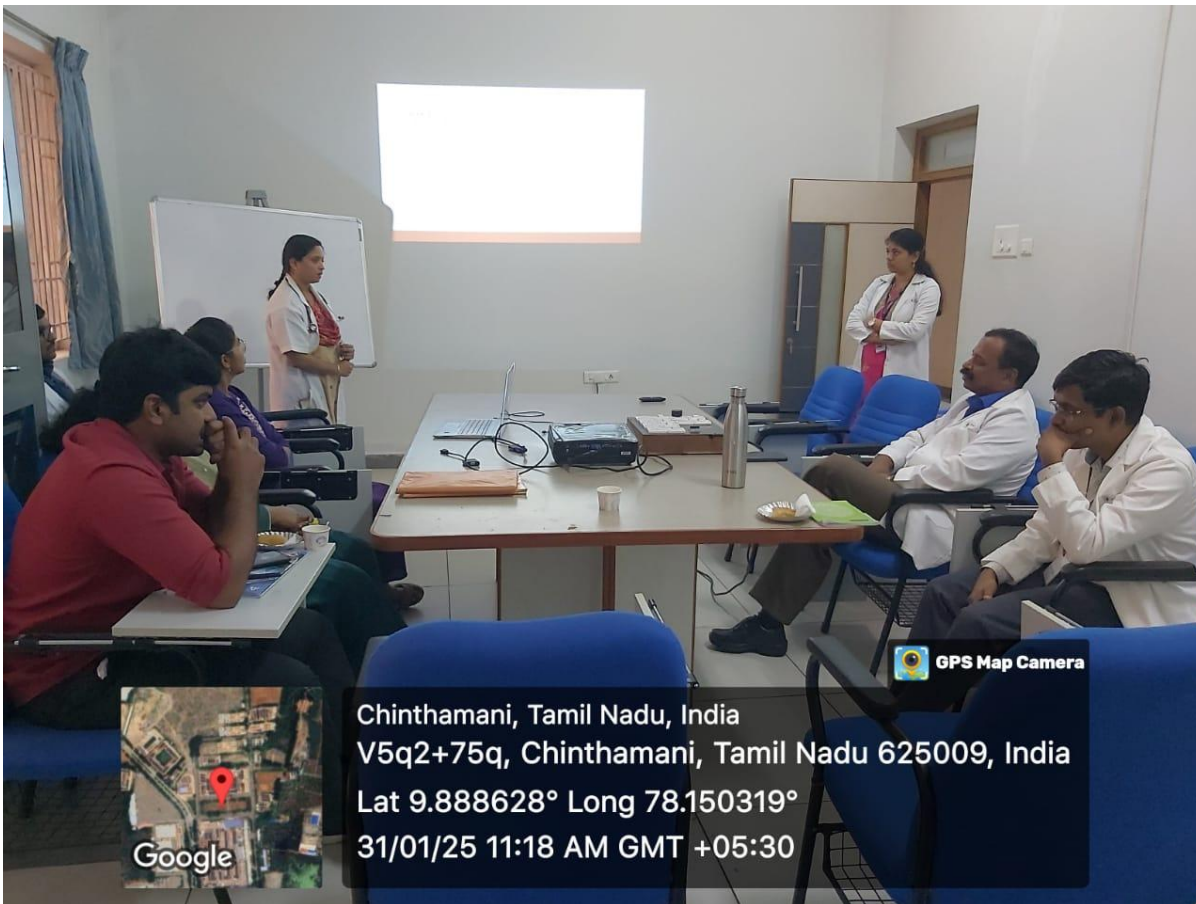
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Finally, Dr. G. Haripriya, third year PG from General Medicine department gave a talk on “Recent advances in treatment of autoimmune disorders”. She spoke about immunosuppressive drugs and complement targeted therapy.



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At the end of each presentation questions were asked to postgraduate and they answered it. The program ended with vote of thanks by Dr. M. Renu Meena, Assistant Professor, Physiology Department. This seminar enhanced the knowledge of postgraduate students about the underlying mechanism behind autoimmune disease and their investigations along with management of various autoimmune disorders.