

REPORT ON CME PROGRAM

Department of Physiology

Topic: Navigating the complexities of Acid-Base Disorders

Date: 19.07.2025

The Department of Physiology, Arunai Medical College & Hospital, organized a **Continuing Medical Education (CME)** programme on “*Navigating the Complexities of Acid-Base Disorders*” on **19th July 2025** at Lecture Hall, Ground Floor, Arunai Medical College campus. The programme was well-attended, with **252 participants** joining in person, while additional participants accessed the sessions through the online platform, ensuring wider academic reach. The event was accredited by the **Tamil Nadu Medical Council (TNMC)** and awarded **2 credit hours for speakers and 1 for delegates**.

The CME was designed to strengthen participants’ knowledge of **acid-base physiology**, its **clinical relevance**, and its role in the **diagnosis and management of complex disorders**.

Programme Highlights

- The day commenced with the “*Reel Science*” showcase (8:00–10:00 AM), featuring “*3 Minutes to Physio – Bite-sized Brilliance from MBBS Minds*.” These short videos, prepared by Phase I MBBS students, highlighted fundamental physiology concepts through creative and concise presentations.
- The **Inaugural Session** began with a warm welcome address by **Dr. Jeneth Berlin Raj T, Professor & Head, Department of Physiology**, followed by the **Keynote Address** from **Dr. D. Gunasingh, Dean & Principal, Arunai Medical College & Hospital**. The session concluded with a formal vote of thanks delivered by **Dr. Vishnu Priya, Associate Professor of Physiology**.

Scientific Sessions

1. **Session I – “The Acid-Base Compass”** delivered by **Dr. Jeneth Berlin Raj T**, the session began with a concise overview of fundamental principles of acid-base physiology and progressed into the innovative *Acid-Base Compass* approach. The session was highly interactive, with structured audience engagement and practical case examples. Dr. Jeneth concluded by addressing participant queries, ensuring conceptual clarity.
2. **Session II – “Balancing the pH Scale”**, by **Dr. Prem Balaguru**, Faculty at Cuddalore Government Medical College, Chidambaram, and Expert Faculty at DAMS (Delhi Academy of Medical Sciences), the session explored physiological principles of acid-base balance, focusing on buffer systems and the regulatory roles of respiratory and renal mechanisms. The clinical segment emphasized differentiation between metabolic and respiratory disorders, recognition of compensatory responses, and the interpretation of arterial blood gas (ABG) analyses. A **case-based discussion on mixed acid-base disorders** stimulated

active audience participation, reinforcing the clinical utility of the concepts discussed.

Closing Session

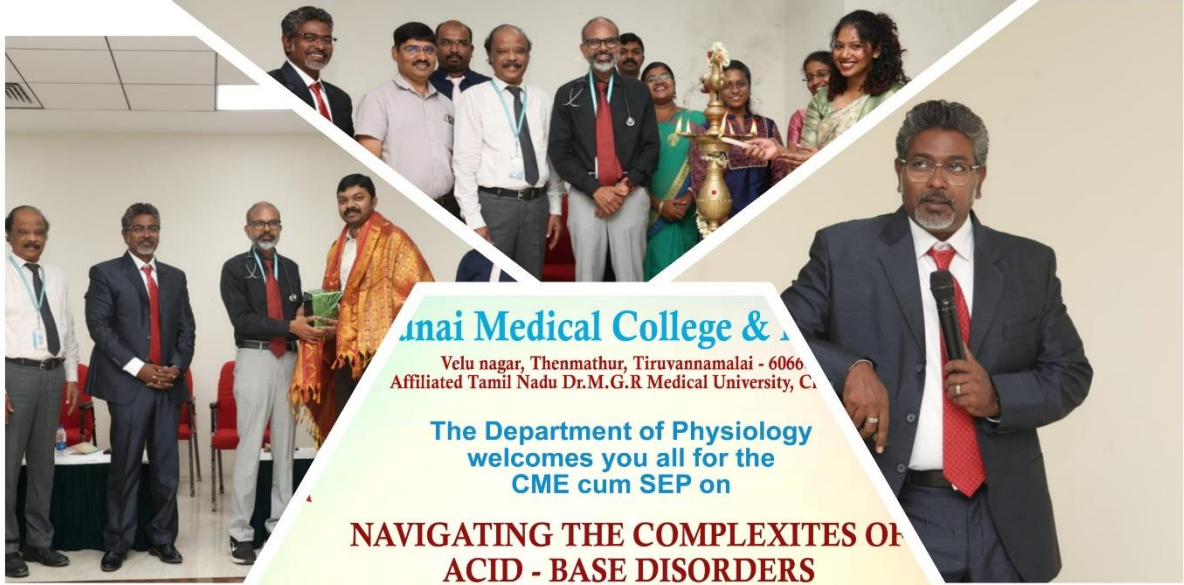
The CME concluded with the **distribution of certificates** to core committee members and participants. Certificates for online attendees were disseminated digitally. A **group photograph** of the Department of Physiology faculty and staff marked the end of the event.

Feedback & Outcomes

Feedback received from participants emphasized:

- The clarity and systematic delivery of complex topics
- The practical orientation of the discussions
- The usefulness of case-based examples in linking theory with clinical application
- The innovative integration of student-led video presentations with expert-led scientific sessions

Overall, the CME programme achieved its objectives of enhancing both theoretical understanding and clinical application of acid–base disorders. By combining **academic rigor, interactive teaching, and innovative student engagement**, the event made a significant contribution to the professional and academic enrichment of all attendees.



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The Department of Physiology
welcomes you all for the
CME cum SEP on

**NAVIGATING THE COMPLEXITIES OF
ACID - BASE DISORDERS**



SPEAKERS

Session 1

Session 2