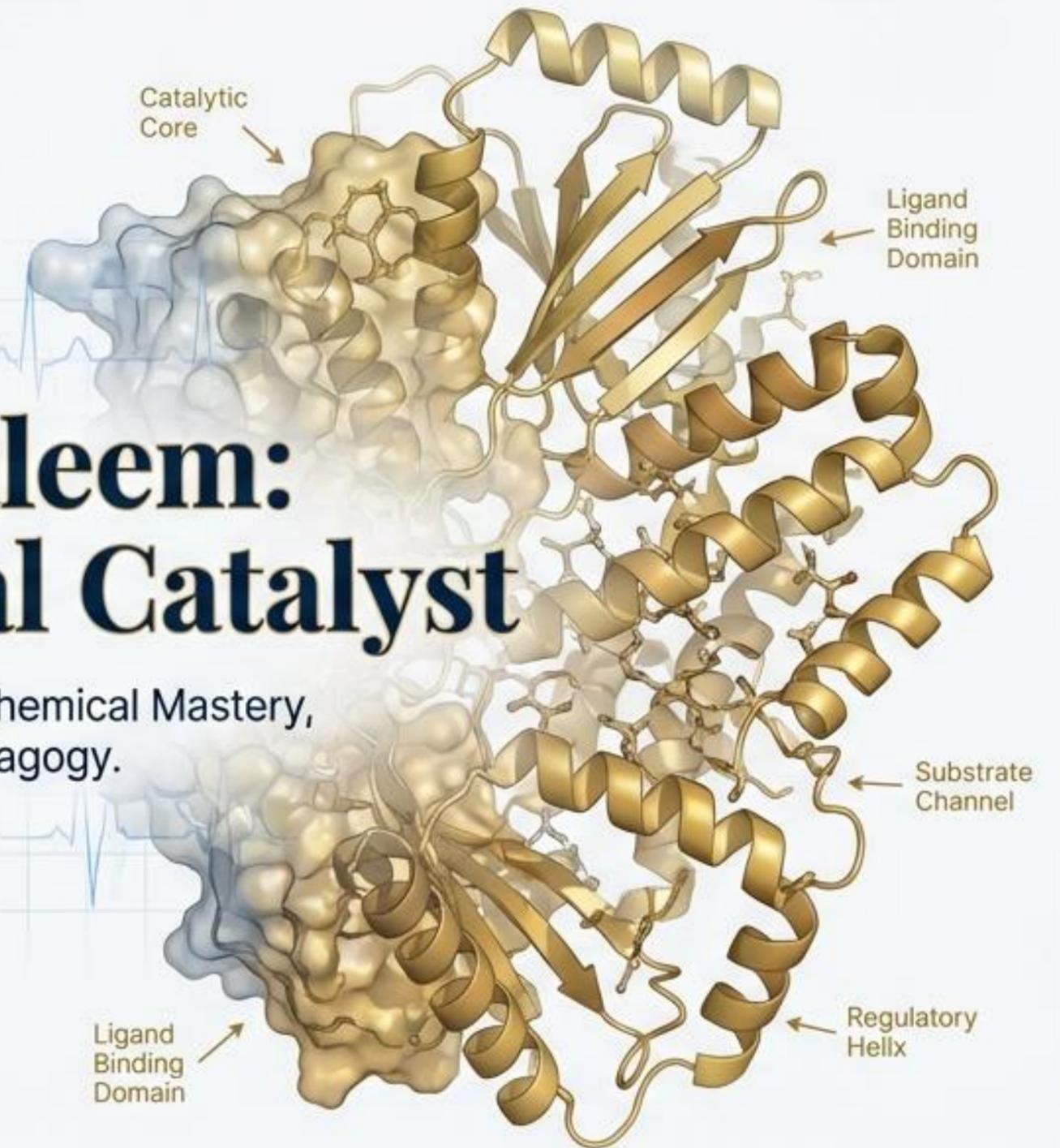




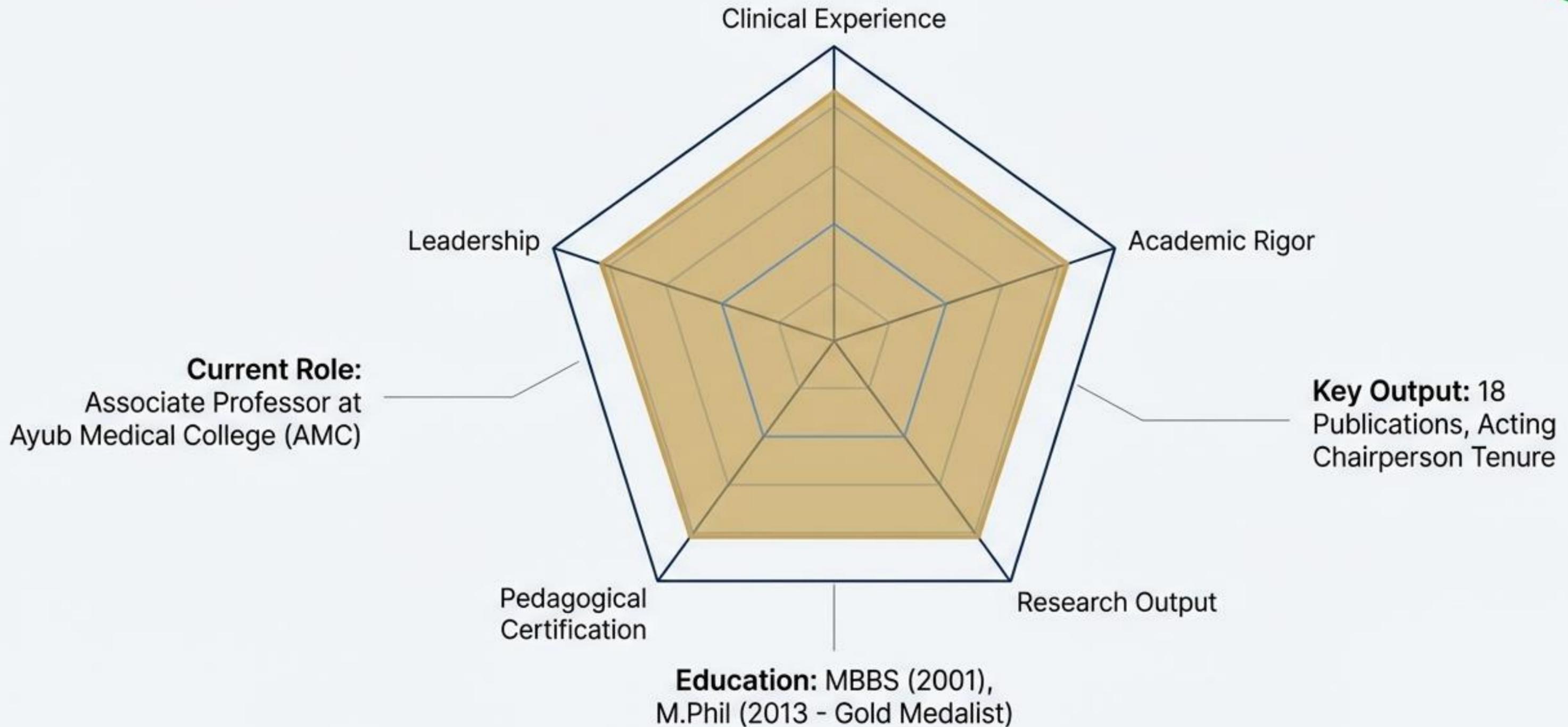
# Dr. Nadia Haleem: The Translational Catalyst

Bridging Clinical Anesthesiology, Biochemical Mastery,  
and Advanced Medical Pedagogy.



Associate Professor of Biochemistry, Ayub Medical College, Abbottabad.

# Executive Profile & Professional DNA

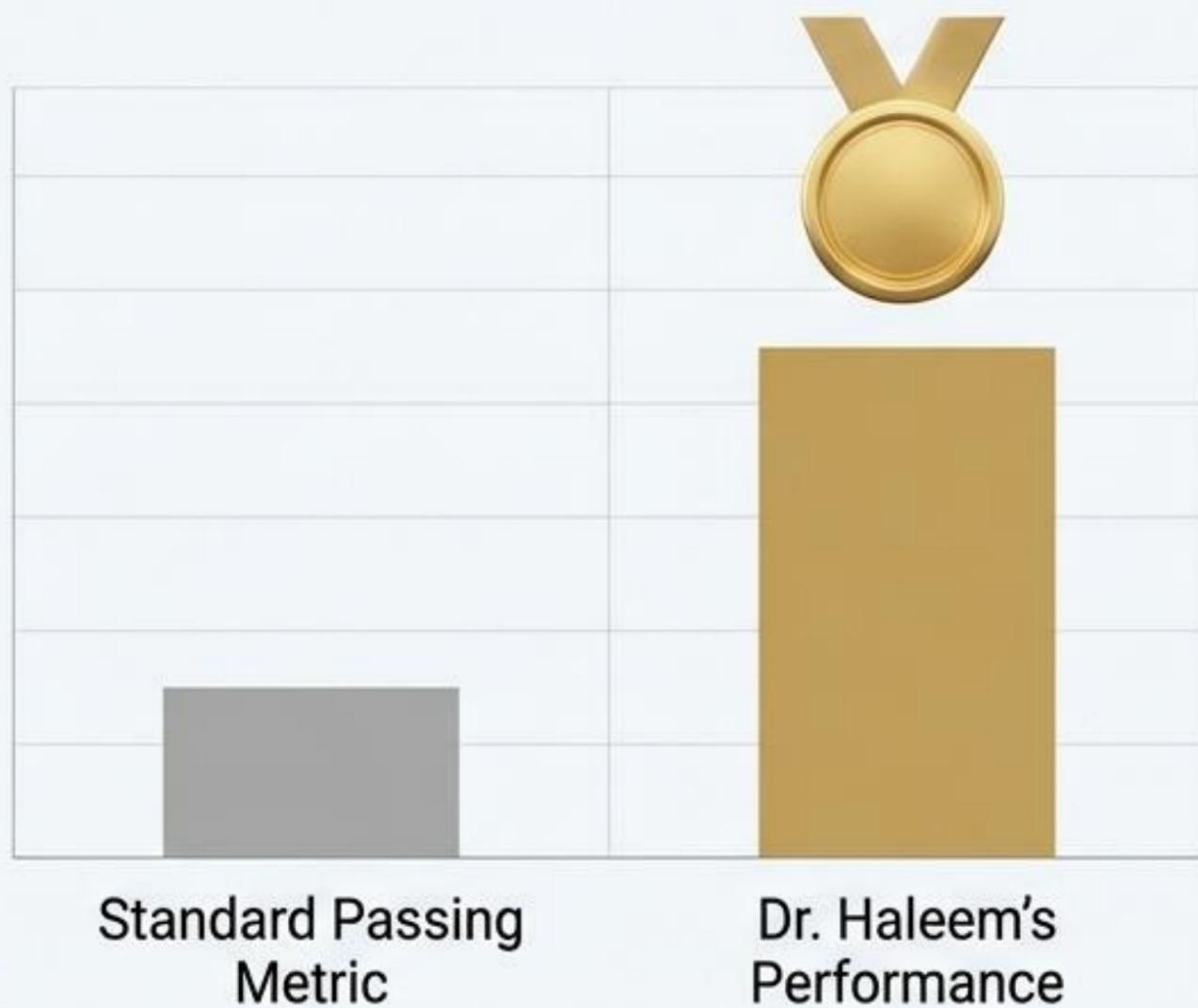


# The Foundational Journey: A Non-Linear Path





# Academic Metamorphosis & Provincial Recognition



1st Position in M.Phil Cohort (Spring 2011)

Top in Province (Khyber Pakhtunkhwa).

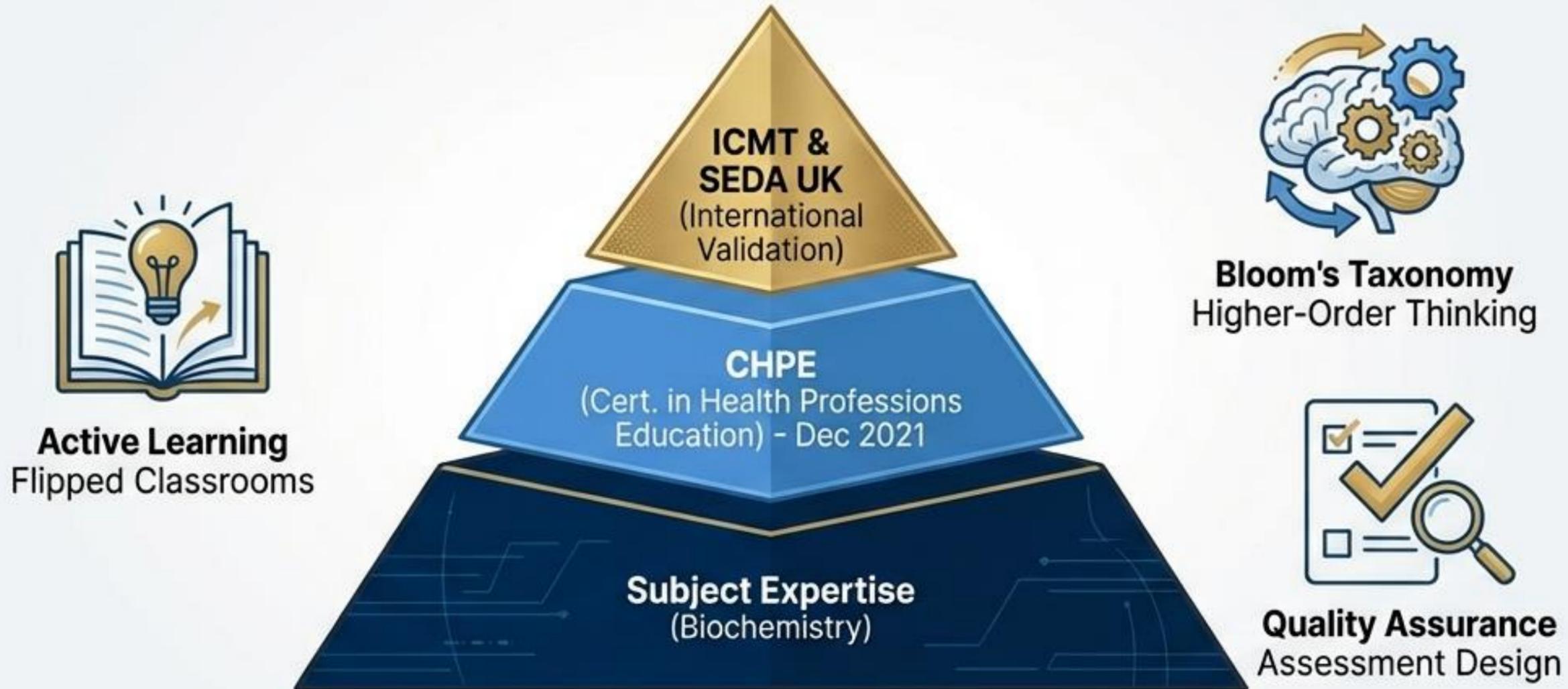


Transitioning from the operation theater to the research lab required a profound cognitive shift. This achievement solidified her status as an undisputed subject matter expert before joining the AMC faculty.



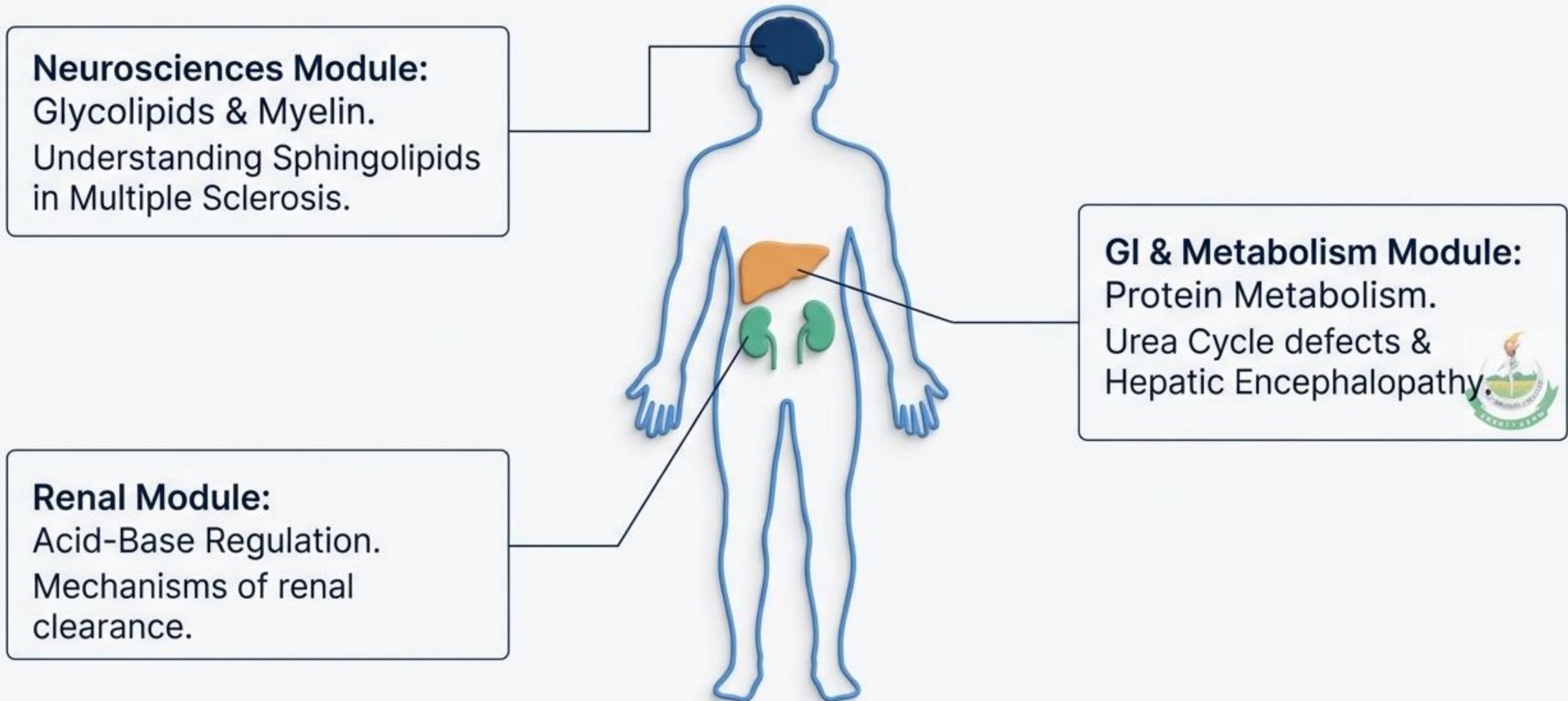
## The Science of Teaching: Pedagogical Frameworks

Building educational expertise from subject knowledge to international validation.

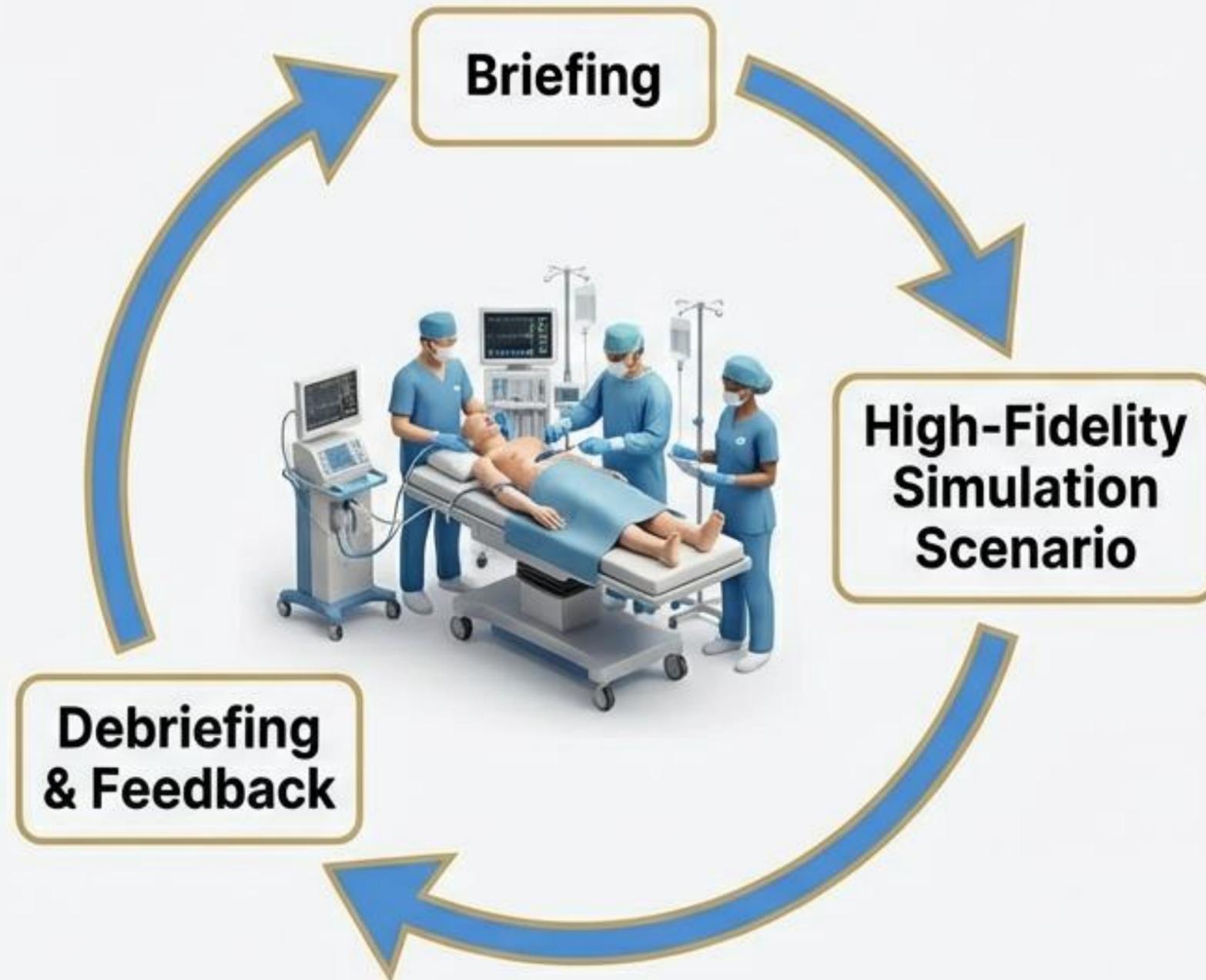


**Insight:** Transitioning from the operation theater to the research lab required a profound cognitive shift. This achievement solidified her status as an undisputed subject matter expert before joining the AMC faculty.

# Modular Integration at Ayub Medical College



# Beyond the Classroom: Simulation & Crisis Management

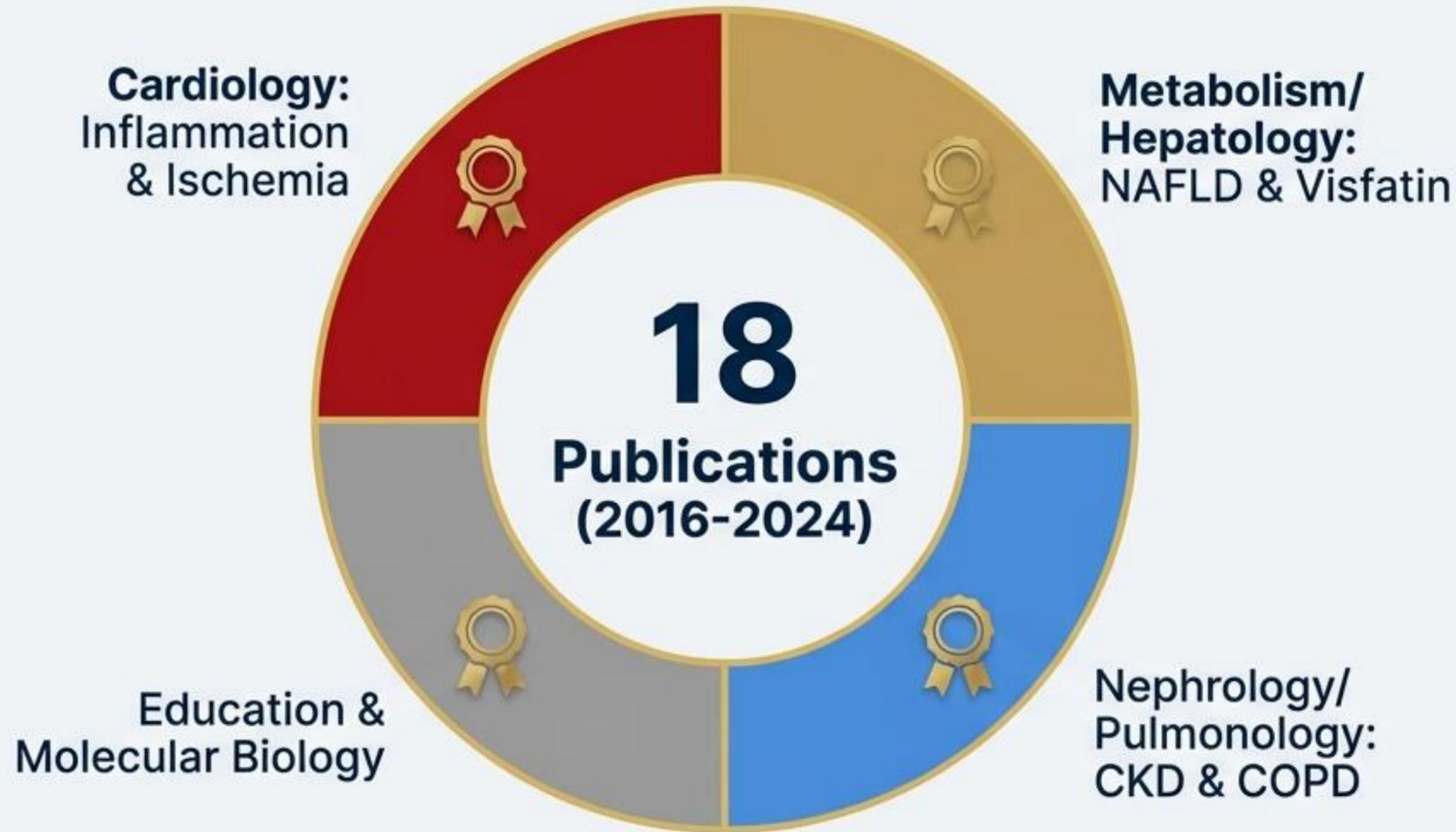


- 🏆 **Role:** Facilitator for College of Physicians and Surgeons Pakistan (CPSP)
- 🏆 **Event:** IMECON 2026 Workshop (WS-306)
- 🏆 **Topic:** Strengthening Team Dynamics and Leadership Skills through Simulation
- 🏆 **Context:** Using Anesthesia background to train for high-stakes, zero-risk environments.

# Departmental Leadership & Governance



# Research Portfolio: The 18-Publication Matrix



## List of Publications

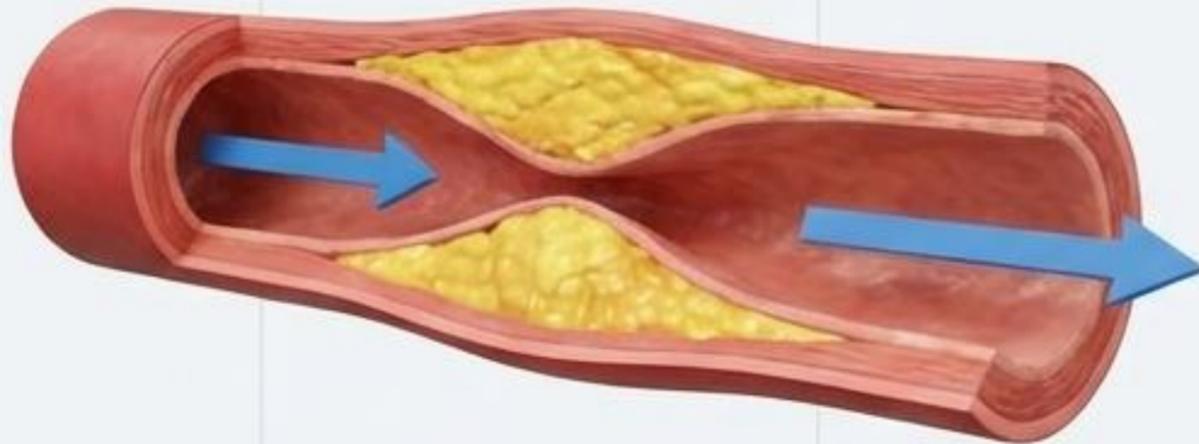
1. Haleem N, et al. Journal of Cardiology, 2023. "Inflammation in Ischemic Heart Disease".
2. Haleem N, et al. Hepatology International, 2022. "NAFLD and Visfatin Levels".
3. Haleem N, et al. Nephrology Pumnational, 2022. "Inflammation in Inichemic Heart Disease".
4. Haleem N, et al. Journal of Tumahis, 2022. "COPD mestivated int:nonnutum Medical/Daseane".
5. Haleem N, et al. Journal of Baergrat, 2023. "Nephrology/ Inflammation e rozor Heart Journals".
6. Haleem N, et al. Journal of Cardiology, 2023. "COPD Medicarescor ot lischeic Heart Disease".
7. Haleem N, et al. Metatology/Heptology, 2022. "Nephrology/Pulmonology: samatnamomian CKD & COPD".
8. Haleem N, et al. Journal of Biology, 2023. "Nephrology/Pulmonology: "CKD & COPD Disease".



# Deep Dive: The Inflammatory Axis in Cardiology

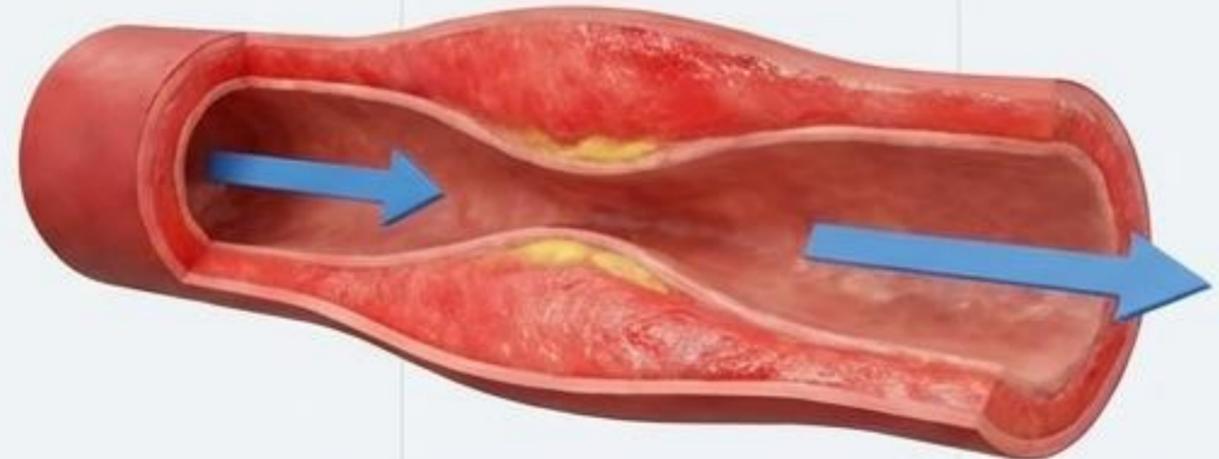
## Paradigm Shift

### Old Paradigm



**Lipid-Centric View:** Cholesterol as sole risk.

### New Paradigm



**Inflammatory View:** hs-CRP as prognosticator.

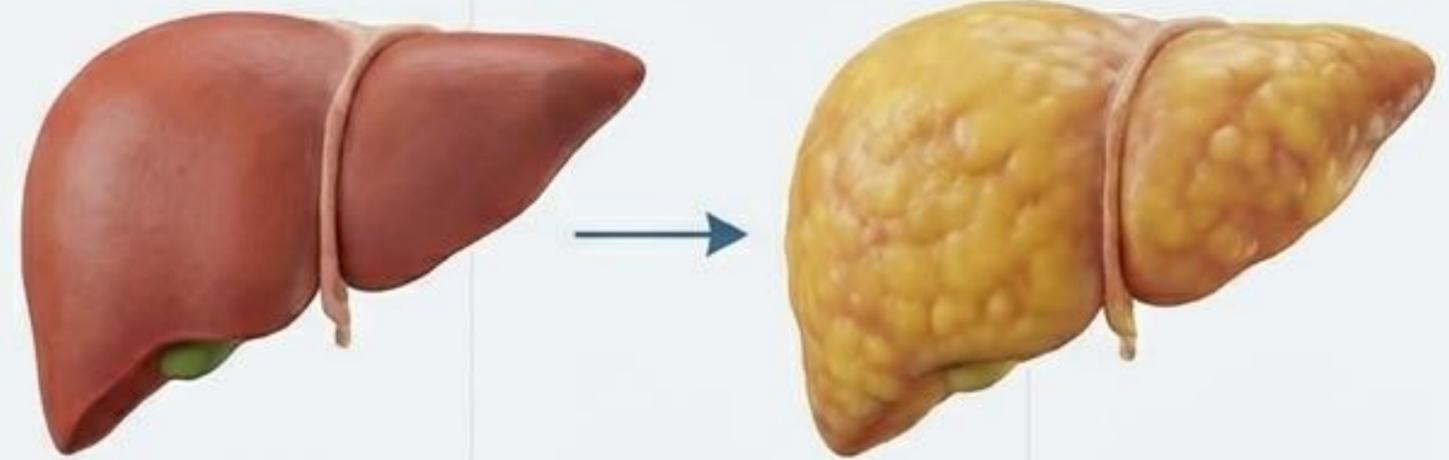
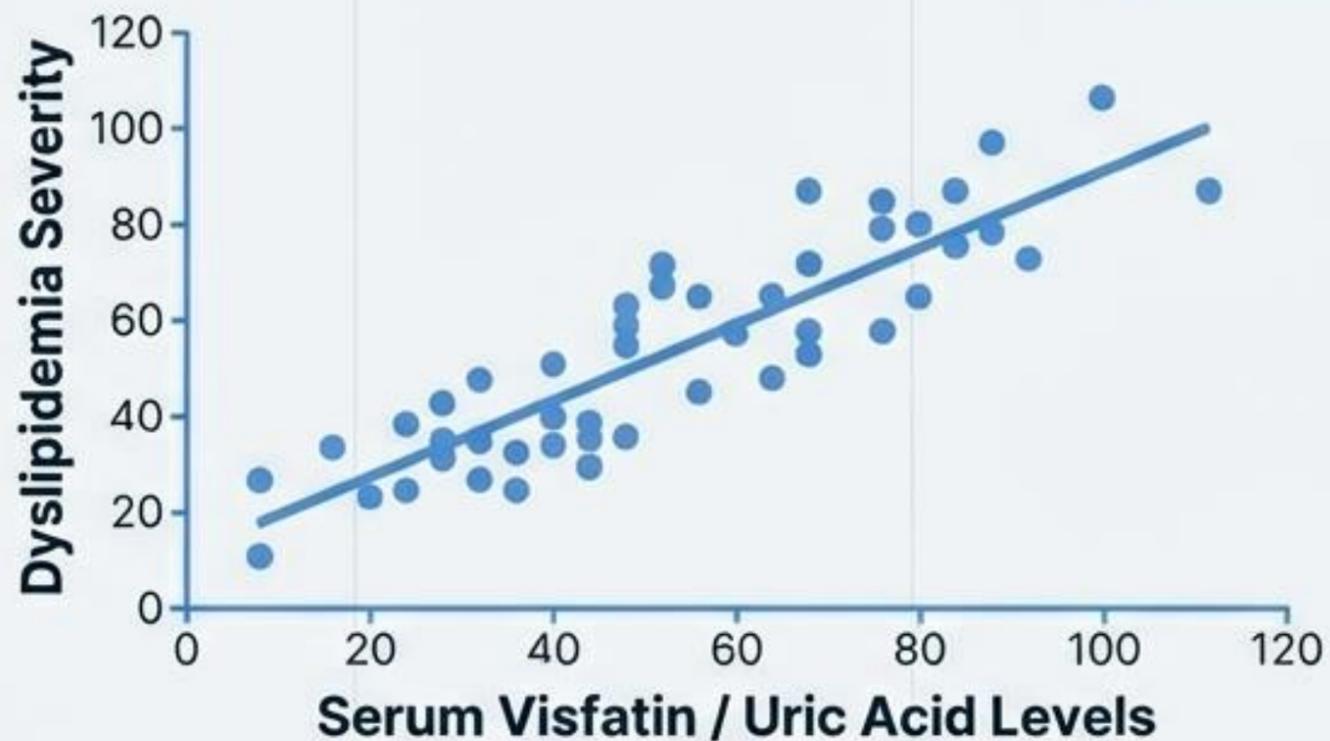
## Evidence:

- 🏆 **Paper (2016):** C reactive protein levels as a marker of coronary heart disease.
- 🏆 **Paper (2020):** Heat Shock Proteins in Myocardial Infarction.
- 🏆 **Key Insight:** Elevated hs-CRP indicates active vascular inflammation.



# Deep Dive: Metabolic Syndrome & Adipocytokines

## Paradigm Shift



- 🏆 **Visfatin:** Correlates with Total Cholesterol in obese mice (2018).  
📄 **Citation:** Haleem N, et al. 2018
- 🏆 **Uric Acid:** Significant link to Non-Alcoholic Fatty Liver Disease (2019).
- 🏆 **Vitamin D:** Insufficiency linked to hepatic steatosis (2024).



# Bridging Disciplines: Renal & Pulmonary Biochemistry

## Paradigm Shift

### Pulmonary Biochemistry



Fe

- 🏆 Iron deficiency in COPD patients (2024).
- Mechanism: Mitochondrial cofactor deficiency impairs muscle endurance.

### Renal Biochemistry



- 🏆 Dyslipidemia in Chronic Kidney Failure (2017).
- Mechanism: Uremia downregulates hepatic lipase, accelerating atherosclerosis.

Medical Editorial

# Cultivating the Future: Mentorship & Student Advocacy

Mega  
Research  
Workshop



AI in  
Medicine



Public Health  
Camps

Student Societies:  
IMWS & NYMF



Dr. Haleem  
(Patron-in-Chief)



# The Impact Equation

**(Clinical Experience + Research Innovation) ×  
Advanced Pedagogy = The Complete Academician**

Dr. Haleem represents the future of medical education—dissolving the silos between clinic and lab to train the next generation of scientist-healers.

