

Medical Knowledge

Apply the multidisciplinary body of basic sciences to clinical analysis and problem solving using:

1. The knowledge of normal structure, function, physiology and metabolism at the levels of the whole body, organ systems, cells, organelles and specific bio-molecules including embryology, aging, growth and development.
2. The principles of normal homeostasis including molecular and cellular mechanisms.
3. The etiology, pathogenesis, structural and molecular alterations as they relate to the signs, symptoms, laboratory results imaging investigations and causes of common and important diseases.
4. Incorporate the impact of factors including aging, psychological, cultural, environmental, genetic, nutritional, social, economic, religious and developmental on health and disease of patients as well as their impact on families and caregivers.
5. Utilize the important pharmacological and non-pharmacological therapies available for the prevention and treatment of disease based on cellular and molecular mechanisms of action and clinical effects. Identify and explain factors that govern therapeutic interventions such as clinical and legal risks, benefits, cost assessments, age and gender.
6. Apply the theories and principles that govern ethical decision making in the management of patients.
7. Evaluate and apply clinical and translational research to the care of patient populations.