Review and describe the structure and function of endocrine organs and the general principles of feedback control and homeostasis.

Define terms common to the discussion of patients with disorders of the endocrine system (especially diabetes mellitus, and abnormalities of pituitary, thyroid, adrenal and parathyroid glands) and review basic principles.

Correlate symptoms and signs with specific hormonal imbalances and receptor dysfunctions (including insulin, growth hormone, thyroid hormones, parathyroid hormones, and adrenal hormones).

Explain the approach to evaluating the cause of specific hormonal excesses of deficiency states.

Explain the complications that can arise from various endocrine abnormalities.

Describe the epidemiology, risk factors and associations for developing specific endocrine disorders.

Discuss the role, utility and significance of diagnostic testing (e.g., blood and imaging) in patients with endocrine disorders.

Explain the basis for pharmacological and non-pharmacological interventions in the management of common endocrine diseases.

Describe the pathophysiology, and major pathologic features as well as the epidemiology of various pathological processes including neoplasms, inflammation, autoimmunity, and vasculopathy/angiopathy.

Explain the levels of evidence in determining effective and cost-effective care and the limitations of each.

Utilize the results of outcome studies to evaluate the effectiveness of patient care.

Describe how operations and processes that occur within a complex healthcare system have an impact on cost and quality of effective and timely care of the patient with endocrine disorders.

Practice and demonstrate systematic problem-solving skills with regard to patients with endocrine disease.

Communicate with fellow students and faculty about patients with endocrine disease.

Demonstrate team skills by participating effectively in team exercises.

Take responsibility for his- or her-own medical education.

Search efficiently for and obtain recent, high quality, relevant medical information and scientific literature to solve problems.

Read critically, evaluate, and assess medical information and scientific literature about important endocrine topics and questions.

Explain the nutritional aspects of fad diets.

Demonstrate the methods for teaching dietary principles and demonstrate how to take a dietary history.

Explain common dietary programs for diabetes – exchanges, carb counting.

Demonstrate evaluation of food labels, especially carbs and fat.

List important micronutrients and likely deficiencies of micronutrients.

Explain dietary therapy for lipid lowering therapy and diabetes nutrition.

To meet professional responsibilities fully, including being punctual, present, and engaged in meetings and other activities, and being reliable in commitments to tasks.