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AMERICAN OSTEOPATHIC ASSOCIATION

**Specific Basic Standards for  
Osteopathic Fellowship Training in  
Endocrinology**

**American Osteopathic Association  
and  
American College of Osteopathic Internists**

BOT Rev. 2/2011

These specific basic standards are part of the *Common Basic Standards for Fellowship Training in Internal Medicine Subspecialties*, which govern and define training in all medical subspecialties. These requirements are in addition to all requirements in the Common Basic Standards.

## **INSTITUTIONAL REQUIREMENTS**

- 4.1 The base institution or an affiliate must have a biochemistry laboratory with the availability of radioimmunoassay and resources for pharmacological testing.
- 4.2 The base institution or an affiliate must have ultrasonographic and radiologic facilities for endocrine imaging and diagnostic interventional services.
- 4.3 The base institution or an affiliate must have nuclear medicine facilities for diagnostic and therapeutic interventional services.
- 4.4 The base institution or an affiliate must have endocrine surgical services.
- 4.5 The base institution or an affiliate must have a pathology laboratory for interpretation of anatomic pathology and cytologic specimens.
- 4.6 The base institution or an affiliate must have access to reference laboratories for karyotyping and immunologic studies.
- 4.7 The base institution or an affiliate must have access to wound care services.
- 4.8 The base institution or an affiliate must have access to bone densitometry.
- 4.9 The base institution or an affiliate must have an organized department of surgery.
- 4.10 The base institution or an affiliate must have availability and evidence of interaction with specialists in, at minimum:
  - a. Cardiology
  - b. Nephrology
  - c. Neurology
  - d. Nuclear medicine
  - e. Obstetrics and gynecology
  - f. Ophthalmology
  - g. Pediatrics
  - h. Podiatry
  - i. Urology.

## **V PROGRAM REQUIREMENTS AND CONTENT**

### **A. Program Duration**

- 5.1 The fellowship training program is a full-time training program that must be of a minimum of 24 months in duration.

### **B. Medical Knowledge**

- 5.2 The fellow must have learning activities in the anatomy, physiology, biochemistry and pathology of the endocrine and metabolic systems.
- 5.3 The fellow must have learning activities in the diagnosis and management of all aspects of diabetes and its complications in both adolescents and adults.

- 5.4 The fellow must have learning activities in thyroid disorders including thyroiditis, hyperthyroidism and hypothyroidism, nodular thyroid disease, thyroid cancer and goiter.
- 5.5 The fellow must have learning activities in disorders of the hypothalamus and pituitary including tumors and associated hormone deficiency and excess states.
- 5.6 The fellow must have learning activities in disorders of the adrenal cortex and medulla including tumors and associated hormone deficiency and excess states.
- 5.7 The fellow must have learning activities in lipid and lipoprotein disorders.
- 5.8 The fellow must have learning activities in bone and mineral metabolism including hyperparathyroidism and hypoparathyroidism, hypercalcemia and hypocalcemia, osteoporosis, Paget's disease, osteomalacia and vitamin D metabolism.
- 5.9 The fellow must have learning activities in disorders of fluid, electrolyte and acid-base metabolism.
- 5.10 The fellow must have learning activities in endocrine emergencies including hypercalcemia and hypocalcemia, severe hyperthyroidism and hypothyroidism, adrenal insufficiency, diabetic ketoacidosis, hyperosmolar coma, and pituitary apoplexy.
- 5.11 The fellow must have learning activities in hypoglycemic syndromes.
- 5.12 The fellow must have learning activities in hormone producing neoplasms including carcinoid syndromes, ectopic hormone production, islet cell tumors and multiple endocrine neoplasias.
- 5.13 The fellow must have learning activities in disorders of the male and female reproductive systems.
- 5.14 The fellow must have learning activities in nutritional disorders including obesity, anorexia nervosa and bulimia.
- 5.15 The fellow must have learning activities in endocrine adaptations to systemic diseases.
- 5.16 The fellow must have learning activities in techniques in patient education for those patients with endocrine disorders including diabetes and genetic diseases.
- 5.17 The fellow must have learning activities in genetic endocrine disorders including the areas of sexual differentiation and growth and development.
- 5.18 The fellow must have learning activities in endocrine disorders of the elderly

### **C. Patient Care**

- 5.19 The fellow must actively participate in the diagnosis and management of endocrine disorders in both the inpatient and outpatient settings.
- 5.20 The fellow must have availability and evidence of patient care exposure to endocrine diagnoses in both the adult and adolescent patient including, at minimum:
  - a. Diabetes;
  - b. Thyroid disease;
  - c. Genetic diseases;
  - d. Autoimmune diseases; and
  - e. Metabolic diseases.

- 5.21 The fellow must participate in pre and post-operative management of surgically related endocrine cases.
- 5.22 The fellow must have training and experience in fine needle aspiration of the thyroid to include, at minimum: indications; contraindications; complications; limitations, interpretation and evidence of competent performance.
- 5.23 The fellow must have training and experience in hormonal stimulation and suppression tests, radioimmunoassay and monoclonal assay of hormones, autoimmune markers and chromosomal karyotypes to include, at minimum: indications; contraindications; complications; limitations and interpretation.
- 5.24 The fellow must have training and experience in the interpretation of thyroid ultrasound, nuclear medicine thyroid imaging, CT and MRI of the endocrine system, adrenal venography, continuous glucose monitoring systems, and bone densitometry.
- 5.25 The fellow must have training and experience in the clinical utilization and understanding of continuous insulin infusion pump systems.
- 5.26 The fellow must have training and experience in the implementation and interpretation of continuous glucose monitoring systems

#### **D. AMBULATORY CLINIC**

- 5.27 A minimum of at least 30 percent of the training must be in ambulatory settings.
- 5.28 The fellow must have primary management responsibilities and continuity care responsibilities for endocrine patients in an ambulatory clinic or endocrinologist's office.