HANDBOOK OF DIAGNOSTIC ENDOCRINOLOGY – 3rd Edition

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The clinical laboratory plays a critical role in the diagnosis and management of endocrine and related metabolic disorders, which are leading causes of morbidity and mortality in children and adults. There is no area of clinical medicine without relationship with endocrine and metabolic disorders, therefore the important role of hormonal assays into clinical practice. The Handbook of Diagnostic Endocrinology, 3rd Edition, provides a ready reference for the evaluation, diagnosis, and monitoring of these disorders. Each chapter focuses on the biochemical tests that are required, either in the basal state or following provocation or suppression, to assist in the diagnosis of the various disorders, describes proper sample collection and relevant interpretations of laboratory tests. The textbook contains essential molecular biology and incorporates it with the clinical information, including the discovery of new diagnostic and treatment methods.

The textbook is divided into 18 chapters and provides evidence-based content regarding the laboratory diagnosis investigating the function of endocrine and metabolic systems. Endocrine investigations are presented as pituitary disorders, thyroid and parathyroid disorders, adrenal and reproductive disorders. Diabetes mellitus and also metabolic disorders are well presented in correlation with hypo and hyperglycemia, as well as evaluation of lipoprotein disorders. A special chapter is dedicated to endocrine hypertension, neuroendocrine tumours and endocrine oncology.

A new chapter is dedicated to transgender endocrinology, well located just after evaluation of disorders of sexual development. Finally, tests used in pediatric endocrinology, maternal and fetal endocrinology, as well as endocrine geriatrics are an important part of this comprehensive textbook.

This revision incorporates translational medicine, connecting what clinicians need to know with those in

research providing a clinical context to which they can relate their molecular findings. This book solves the needs of clinicians and researchers by bringing together endocrinology at the molecular and clinical levels in one book. As the intricacies of intracellular signaling have become better understood, states of hormone resistance are now increasingly recognized. The most common endocrinopathy in westernized countries, the metabolic syndrome, results, to a large extent, from insulin resistance. The complexity of the circulating forms of various hormones are acknowledged in this revision. The textbook outlines the complexity of the circulating forms of various hormones, impacting clinical diagnoses and clinical therapies of patients with endocrinopathies.

The authors are pathologists, chemists and biochemists, clinical endocrinologists, geneticists, sharing a multidisciplinary perspective. The Editors are well known professionals in the field of laboratory endocrinology.

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