

# PREFACE

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*Endocrine Replacement Therapy in Clinical Practice*, an update of *Hormone Replacement Therapy* published by Humana Press in 1999, aims to assist the endocrinologist, gynecologist, pediatrician, urologist, general surgeon, neurologist, neurosurgeon, psychiatrist, generalist, and trainee in management of their patients with hormonal deficiencies or altered hormonal synthesis or responses. Many new authors have added several new chapters, and all of the previous chapters have been updated. Endocrine testing used to diagnose endocrine disorders and monitor hormone replacement therapy is reviewed. However, detailed discussion of physiology and pathophysiology is not an aim of this book, and these topics are covered in other volumes on endocrinology. Although no one is considered an expert in all areas of endocrine replacement therapy, each of the authors here have extensive knowledge and experience in the management of patients with specific endocrine disorders requiring hormone replacement treatment.

Although some differences of opinion exist among experts in replacement therapy, each writer has attempted to give a balanced, unbiased recommendation. When comparable regimens exist, the authors have made this apparent to the reader who can then choose the best treatment for the individual patient. Cost, therapeutic effectiveness, and route of administration are all important considerations in making the final selection of replacement therapy.

*Endocrine Replacement Therapy in Clinical Practice* is divided into seven main sections covering hormone replacement therapy of the pituitary, parathyroid and vitamin D, thyroid, diabetes, adrenal, gonads of men, and gonads of women. In Part I, the management of diabetes insipidus and polydipsia in children is reviewed by Donald Zimmerman and Greg Uramoto and the treatment of diabetes insipidus in adults is covered by Gary Robertson and Andjela Drincic. Darrell Wilson covers growth hormone therapy with emphasis on growth disorders of children, and George Merriam focuses on growth hormone and growth hormone secretagogues in adults.

In Part II, issues related to treatment of disorders of calcium metabolism caused by diseases affecting parathyroid hormone and vitamin D are presented by Eric Orwoll. In Part III, Steven Sherman and Luis Lopez-Penabad's discussion on the use of thyroid-stimulating hormone in the diagnosis and management of thyroid diseases, including thyroid cancer, provides invaluable perspectives. David Cooper reviews current guidelines for thyroid hormone replacement therapy in patients with primary and secondary hypothyroidism. Special issues related to thyroid hormone replacement therapy in children with congenital and acquired hypothyroidism are reviewed by Stephen LaFranchi and thyroid hormone replacement during pregnancy is discussed by Amy Sullivan and T. Flint Porter.

Part IV includes six chapters discussing various aspects of hormone replacement therapy of diabetes. Dana Hardin focuses on the diagnosis and management of diabetes in children, while Donald McClain reviews insulin and oral agents in the treatment of type 2 diabetes. The special issues of management of diabetes during pregnancy are presented by Kay McFarland, Laura Irwin, and Janice Bacon. Raymond Plodkowski and Steven Edelman report on their expertise using insulin pump therapy. In her chapter, Susan Braithwaite develops an algorithm for diabetic therapy during glucocorticoid

treatment of nonendocrine disease. The unique problems of treatment of the diabetic during exercise are summarized by Robert Jones.

Part V consists of three chapters. The first is by Lynnette Nieman and Kristina Rother and covers glucocorticoid therapy for prenatal and postnatal life. Robert Dluhy summarizes therapy of mineralocorticoid deficiency disorders; and Syed Tariq, Hosam Kamel, and John Morley carefully analyze the pros and cons for dehydroepiandrosterone and pregnenolone therapy.

Part VI has six chapters covering sex hormone replacement issues in men. A. Wayne Meikle details issues relating to androgen replacement therapy in children and men with androgen deficiency. The influence of androgen replacement therapy on sexual behavior, affect, and cognition is presented by Max Hirshkowitz, Claudia Orenco, and Glenn Cunningham. J. Lisa Tenover summarizes the merits and safety issues associated with testosterone therapy in older men. Shalender Bhasin, Atam Singh, Keith Beck, and Linda Woodhouse present the rationale and recommendations for androgen therapy in men with muscle-wasting disorders, particularly as related to AIDS. Christina Wang and Ronald S. Swerdloff discuss hormonal contraception, which is becoming more commonly used in men and requires hormonal therapy to suppress spermatogenesis while maintaining normal testosterone concentrations. Peter Liu and David Handelsman contribute an article on the status of hormonal therapy of the infertile man.

Part VII contains three chapters that focus on sex hormone replacement issues in women. Daren Watts, Howard Sharp, and C. Matthew Peterson make recommendations for hormone replacement therapy in women with primary and secondary hypogonadism. Androgen replacement therapy in women is still somewhat controversial, but is becoming more accepted. Susan Davis and Henry Burger present a rational basis for androgen therapy in women. Shahar Kol focuses on hormonal therapy of the infertile women.

Students, fellows, residents, generalists, and specialists in many disciplines will find *Endocrine Replacement Therapy in Clinical Practice* a highly practical reference for the management of patients. Patients will greatly benefit by receiving the best regimen for managing their hormonal deficits.

I express thanks to the distinguished, willing, and internationally recognized authors who accepted the invitation to share their expertise. Susan Brown provided invaluable assistance in correspondence and compilation of the manuscripts. My sincere thanks to Dr. P. Michael Conn for his trust and encouragement in making the project a reality and to the Editorial Director, Paul Dolgert, and to Craig Adams of Humana Press for their helpful suggestions.

*A. Wayne Meikle, MD*