

# Preface

## Fourth Edition of the Thyroid Ultrasound and Ultrasound-Guided FNA Textbook

Ultrasound has become ingrained as the classical utilization of applied technology for both diagnostic and interventional therapeutic approaches to the management of thyroid and parathyroid conditions. It is an invaluable tool for the practice of thyroidology and is most beneficial when performed in real time by a physician or a practitioner who is skilled and knowledgeable in the anatomy of the neck.

The recognition of imagery patterns suggestive of a generalized disease state, the presence and evaluation of thyroid nodules, the search for a parathyroid tumor when there is biochemical evidence of hyperparathyroidism, and the assessment for residual tissue and lymphadenopathy of the postoperative thyroid cancer neck are all related issues that ultrasound is capable of optimally imaging.

There continues to be technologic advances in demonstrating ultrasound images on the visual screen which enhance gray scale and employ both color flow Doppler and power Doppler which add additional information to the analysis of the thyroid gland, parathyroid tumors, and lymph nodes as well as other structures in the neck.

Ultrasound remains the number one invaluable tool for assessing the endocrine neck, and the performance of real-time ultrasound is unquestionably the optimum methodology for utilization.

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<http://www.springer.com/978-3-319-67237-3>

Thyroid and Parathyroid Ultrasound and  
Ultrasound-Guided FNA

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2018, XIV, 546 p. 330 illus., 220 illus. in color.,

Softcover

ISBN: 978-3-319-67237-3