

# Surgery, Assisted Reproductive Technology and Infertility: Diagnosis and Management of Problems in Gynecologic Reproductive Medicine

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Surgery, Assisted Reproductive Technologies and Infertility describes the intersection of assisted reproductive technologies (ART) and surgery in the diagnosis and treatment of a variety of clinical disorders in reproduction. Unlike many texts currently available, this book provides a road map for management well beyond the how-to for a given problem. It brings you a cogent explanation about the when and why of management. The author balances decision trees and management paradigms with equal weight to surgery and ART as complementary procedures to enhance reproductive potential. He carefully explains options incorporating diagnostic studies into the paradigm that include conventional radiography (eg, hysterosalpingography), two- and three-dimensional ultrasound imaging and MRI analysis. The text includes clear discussion of the rationale for selecting one technique over another and the supporting role for surgery as a prelude to ART or as an appropriate first line management.

The text is centered on dividing evaluations in infertility into the tandem topics of structure and function. All chapters include data from studies directed at the assessment of structure using two- or three-dimensional ultrasound and the assessment of function using the technology of the emerging field of functional genomics. The introductory chapters cover embryology and anatomy of the female reproductive tract, evidence-based medicine in reproductive medicine and diagnostic studies that include imaging studies and the emerging field of microarray analysis and the insight gained from this technology. Each clinical chapter describes specific anatomic abnormalities and an approach emphasizing contemporary diagnostics and therapeutics. Every chapter begins with a historical perspective followed by discussions of state-of-the-art diagnostic studies, etiology, surgical management and guidelines for arriving at an outcomes driven decision regarding the intersection of surgery and ART. The discussion is supported by over 300 images and drawings illustrating each abnormality and surgical procedure.

All recommendations are data and outcomes based. This approach minimizes anecdotal data, intuition or clinical hearsay. The text emphasizes an evidence-based approach and presents outcomes to support suggested plans of management. The most clinically and cost effective technology is matched to the clinical setting. Bottom line recommendations are written in a clear and concise bullet presentation at the conclusion of each chapter to help you meet the challenge of clinical infertility practice.

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