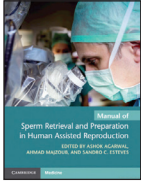

BOOK REVIEW

Manual of Sperm Retrieval and Preparation in Human Assisted Reproduction

Ashok Agarwal, Ahmad Majzoub, Sandro C Esteves



ISBN: 9781108792158, 146 pages
Publisher: Cambridge University Press
Rating: ★★★★★ (five stars out of five)

Description

Advances in assisted reproductive technology (ART) over the past three decades have helped severely infertile couples achieve biologic paternity. This book offers an excellent resource to understanding the pathophysiologic basis for sperm acquisition in the clinical setting of ablative and obstructive azoospermia and in ejaculatory dysfunction.

Purpose

The laboratory progress achieved in in-vitro fertilization has been accompanied by advances in the surgical treatment of azoospermic men, particularly the refinement of sperm quality utilized in these assisted laboratory settings. This manual presents a concise but comprehensive compendium of the management of patients requiring sperm retrieval and contemporary studies reviewing predictors of successful ART outcomes.

Audience

The authors and contributors are world-renowned leaders in the fields of andrology, human reproduction, and urology. They target an interested audience that includes reproductive endocrinologists, urologists, and embryologists with an encompassing presentation of the topic of sperm retrieval techniques.

Features

As a prelude to providing the practical details of various sperm retrieval methodologies, this manual opens with normal male reproductive anatomy and physiology and clinically relevant aspects of severe male reproductive dysfunction: obstructive and non-obstructive azoospermia and ejaculatory dysfunction. The authors dedicate much of their effort to surgical techniques of sperm retrieval from the epididymis and testis with clear step-by-step explanation. They also present methods of ejaculatory stimulation in men with dysfunctional ejaculation. These methods are compared and tailored to specific clinical indications. Regardless of the technique of choice, the authors include methods (e.g., cryopreservation) of optimizing sperm quality based on the etiology of azoospermia.

Assessment

This manual is an indispensable resource to all clinicians and researchers in male reproductive medicine. A novel publication of its kind, it focuses on optimizing the fertility potential of retrieved sperm utilized in the ART setting and brings a valuable, global review of the subject.

Score

Weighted Numerical Score: 100 - *****

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