



Men's health: a rapidly changing landscape of healthcare delivery and treatment

The subspecialty of “Men's Health” is in the midst of an exponential growth spurt. Rapid change and opportunity in the field are promoting progress from the fundamental definition of men's health and the conditions encompassed by the term, to the way that healthcare is delivered to men, down to how treatment of individual male conditions is being redefined. As such, identifying areas where innovation is needed, interpreting key findings, and understanding how healthcare delivery has become more challenging is becoming increasingly important.

This special edition of *Translational Andrology and Urology* is intended to summarize our current knowledge of key areas of innovation in men's health, as well as how the future of healthcare delivery in men's health is evolving. At the outset, Drs. Jesse Mills and Adithya Balasubramanian discuss how the landscape of men's healthcare delivery and the consumer internet are changing the men's health landscape. Dr. Mills examines how the interface between men's health clinics, pharmacies, telemedicine, and patient access to healthcare is evolving, and Dr. Balasubramanian summarizes how social media and consumer internet platforms like YouTube are impacting how men investigate and learn about conditions affecting them.

Subsequently, we examine innovations in hormone therapy, including how selective androgen receptor modulators (SARMs) and growth hormone secretagogues may influence unique management of hormonal dysfunction and other conditions in men. In particular, these articles focus on the scientific basis for these therapies and their clinical effects. We then segue into further discussion of hormone management with an article by Dr. Ryan Smith on non-testosterone management of hypogonadism, another by Dr. Amin Herati on fertility preservation in men on testosterone therapy. A paper follows addressing sleep and men's health by Dr. Lipshultz, which addresses our growing knowledge of the negative impacts of suboptimal sleep patterns on a number of men's health conditions. These articles highlight important, somewhat controversial areas in men's health in which evolving treatments may have a dramatic impact on men's health in the future. However, the evidence base for a number of these therapies is incomplete, and guidance on whether and how to incorporate these treatments into practice is needed.

As our knowledge of male infertility grows, so does our ability to more effectively evaluate and treat affected men. In the next section of this issue, we examine future diagnostics in male infertility (Dr. Jason Kovac), novel sperm sorting techniques (Dr. James Hotaling), and how male infertility impacts general male wellness (Dr. Michael Eisenberg). Given the growth of transgender medicine and the increases in life expectancy as a result of improvements in cancer treatment, we also highlight fertility preservation options in transgender populations (Dr. Maurice Garcia), as well as sperm preservation more generally in pediatric and adult populations (Dr. Robert Brannigan).

Finally, we focus on erectile function, highlighting future innovation in penile prosthetics (Dr. Tom Lue) and current knowledge regarding regenerative therapies as applied to erectile dysfunction (Dr. Trinity Bivalacqua). We end with a focus on Peyronie's disease, with Drs. J. Scott Gabrielsen and Maarten Albersen discussing the genetic basis of the condition and how the field can move towards improved molecular diagnostics and treatments, respectively. Dr. Laurence Levine then provides an overview of current minimally invasive treatment options for Peyronie's disease, and this section concludes with a discussion of non-conventional therapies for Peyronie's disease by Dr. Ethan Grober.

As editors of this special issue we would like to give our sincere appreciation to all of the contributing authors. This issue of *Translational Andrology and Urology* represents a dedicated effort by many authors to provide a compendium of highly insightful articles in key areas of men's health. Several of the concepts discussed in this issue, such as SARMs and growth hormone secretagogues may still be considered on the “fringe” of conventional therapy, although the contributing authors demonstrate that there is generally solid science that underlies the effects of these therapies. We hope that our efforts and those of the authors have highlighted areas in the field of men's health that are rapidly evolving and deserve attention and have provided readers with the opportunity to think more broadly about the field of men's health.

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