Artificial Intelligence in Urology: Where Are We Now, and Where Do We Go From Here?

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Artificial intelligence (AI) has come to plan an integral role in our daily lives on both a conscious and subconscious level. The integration between AI and healthcare is rapidly evolving, as opportunities for semi-automation and automation continue to expand in an effort to improve clinical efficiency, precision, safety, and quality. The field of urology is uniquely positioned at the forefront of engineering and technological innovation and offers opportunities for AI integration both in and out of the operating room. This session will provide an overview of the multifaceted ways in which AI has already begun to revolutionize urology. The use of AI in patient counseling, medical documentation, and operative assistance will be discussed, with a particular focus on the evolving role of the urologic surgeon in the era of AI. Advances involving the use of AI to facilitate robotic and endoscopic surgeries in urologic oncology will be discussed, along with the future outlook for continued optimization of AI integration in urology.