

	Федеральное государственное бюджетное образовательное учреждение высшего образования “Волгоградский государственный медицинский университет” Министерства здравоохранения Российской Федерации Образовательная программа Специальность 31.05.01 “Лечебное дело” (уровень специалитета)	УЧЕБНО-МЕТОДИЧЕСКИЙ КОМПЛЕКС ДИСЦИПЛИНЫ “УРОЛОГИЯ”
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**Thematic Plan of Seminar Classes for the course “Urology” for
students admitted in 2023, 2024 in the educational program 31.05.01
General medicine (profile): General medicine (Specialist Degree
Program), full-time mode of study for the 2026–2027 Academic Year**

№	Thematic Blocks	Hours (Academic)
6th semester		
1.	Organization of inpatient and outpatient care in the field of urology in the Russian Federation. Examination of a urological patient. ¹ Legal aspects of providing medical care in the field of urology (323-FZ, Order N907n, clinical recommendations) to the adult population of the Russian Federation. Collection of complaints, medical history, and objective examination of a urological patient. Examination, palpation, percussion, and auscultation of the urinary system and male reproductive organs. ²	4
2.	Anatomy and physiology of the urinary and male reproductive systems. ¹ Anatomy, topography, and physiology of the kidneys, ureter, and bladder. Anatomy, topography, and physiology of the penis, scrotum, testicles, and prostate gland. ²	4
3.	Semiotics of urological diseases. Basic laboratory and instrumental methods of diagnostics in urology. ¹ The concept of qualitative and quantitative disorders of urine. The concept of dysuria, types of dysuric disorders. Laboratory and instrumental methods of research in urology. Magnetic resonance imaging, X-ray, ultrasound, radioisotope and endoscopic methods of research in the diagnosis of diseases of the urological profile. Methods of research of urodynamics. ²	4
4.	Abnormalities of the urinary system. Abnormalities of the male reproductive system. ¹ Abnormalities of the penis, testicles, and prostate gland. Abnormalities of the number, size, shape, position, and structure of the kidneys. Abnormalities of the ureter, bladder, and urethra. ²	4

5.	Urolithiasis. ¹ Etiology, pathogenesis, and epidemiology of urolithiasis. Mechanisms of stone formation in the urinary tract. Classification of stones. Clinical presentation of stones in different locations. Clinical presentation of renal colic and methods of its relief. Methods of instrumental and laboratory diagnosis of urolithiasis. Conservative litholytic and lithokinetic therapy. Indications and contraindications for surgical treatment. Surgical methods of treating stones in the urinary system. Metaprophylaxis of urolithiasis. ²	4
6.	Prostate hyperplasia. ¹ Etiology, pathogenesis, and epidemiology of BPH and PC. Clinical presentation of the conditions. Non-instrumental diagnostic methods. Instrumental diagnostic methods for BPH and PC. Complications. Acute urinary retention and its management. Conservative treatment methods. Indications and contraindications for surgical treatment. Surgical treatment methods. Algorithms for early diagnosis and prevention of PC and BPH. ²	4
7.	Prostate cancer. ¹ Etiology, pathogenesis, and epidemiology of PCa. Clinical presentation of the condition. Non-instrumental diagnostic methods. Instrumental diagnostics of PCa. Complications. Differential diagnosis of PCa and BPH. Methods of conservative therapy. Indications and contraindications for surgical treatment. Methods of surgical treatment. Algorithms for early diagnosis and prevention of PCa. ²	4
8.	Neurogenic urinary tract disorders. ¹ Physiology of the act of urination. Classification of neurogenic urinary tract disorders (neuroanatomical, according to the degree of involvement of the nervous system structures). Clinical picture of neurogenic lower urinary tract disorders. The concept of an overactive and underactive bladder. Methods of conservative and surgical correction of conditions. ²	4
9.	Urinary incontinence. ¹ Types of urinary incontinence. Urinary incontinence in women, men, and children. Etiopathogenesis of stress urinary incontinence. Clinical presentation of various forms of urinary incontinence. Diagnosis and treatment of urinary incontinence in women. ²	4
10.	Urinary fistulas. ¹ Definition, types of urinary fistulas. Clinical presentation, diagnosis, and treatment of urinary fistulas. ²	4
11.	Non-inflammatory diseases of the male reproductive system. ¹ Concepts of varicocele, hydrocele, spermatocele, funiculocoele, phimosis, paraphimosis, Peyronie's disease, and priapism. Causes, clinical presentation, and methods of laboratory and instrumental diagnostics. Methods of correcting these conditions. ²	4
12.	Specific inflammatory diseases of the genitourinary system. ¹ Tuberculosis of the genitourinary system. Parasitic diseases of the genitourinary organs. Fungal diseases of the genitourinary system. Causes, clinical presentation, and methods of laboratory and instrumental diagnosis. Conservative and surgical treatment. ²	4

7th semester		
1.	Inflammatory diseases of the urinary system. ¹ General information about infectious and inflammatory diseases of the urinary system. Acute pyelonephritis. Chronic pyelonephritis. Cystitis. Urethritis. Urosepsis. ²	6
2.	Inflammatory diseases of the male reproductive system. ¹ General information about infectious and inflammatory diseases of the male reproductive system. Prostatitis. Orchitis. Fournier's gangrene. Specific infections of the male reproductive organs. ²	6
3.	Injuries to the urinary system and male reproductive organs. ¹ Injuries to the kidneys, ureters, bladder, and urethra (mechanism of injury, classification, clinical picture, diagnosis, and treatment). Injuries to the penis and scrotal organs (mechanism of injury, classification, clinical picture, diagnosis, and treatment). ²	6
4.	Oncourology (tumors of the kidney, upper urinary tract, and bladder). ¹ Renal cell carcinoma, urothelial carcinoma of the upper urinary tract (epidemiology, etiopathogenesis, clinical manifestations, diagnosis, and treatment, early diagnosis and prevention). Bladder cancer (epidemiology, etiology, pathogenesis, clinical manifestations, diagnosis, and treatment, and methods of early diagnosis and prevention). Penile cancer (epidemiology, clinical manifestations, diagnosis, and treatment, and methods of early diagnosis and prevention). Testicular tumors (etiopathogenesis, clinical manifestations, diagnosis, and treatment, and methods of early diagnosis and prevention). ²	6
5.	Male infertility. Sexual dysfunctions in men (disorders of ejaculation and erection). ¹ Male infertility (epidemiology, definition, classification, methods of condition correction). Erection disorder (erectile dysfunction). Disorders of ejaculation. Causes, clinical picture, methods of laboratory and instrumental diagnostics. Methods of condition correction. ²	6
6.	Urethral strictures. ¹ Causes, clinical picture, methods of laboratory and instrumental diagnostics. Methods of correction of conditions. Etiology and pathogenesis of narrowings of the urethra. Clinical picture and diagnostics. Methods of surgical treatment of urethral strictures. ²	6
	Total	84

¹ – topic

² – essential content

Reviewed and approved at the meeting of the Department of Urology, Minutes №10 dated “28” may 2026.

Head of the Department



D.V. Perlin