Interdisciplinary Conference of Young Scholars in Social Sciences Hosted from USA



Minimally Invasive Prosedures in Bph (Benign Prostatic Hyperplasia)

Valiyev Xusan Toxirovich

Assistant of the department of urology and oncology

Annotation: Men may not need treatment for a mildly enlarged prostate unless their symptoms are bothersome and affecting their quality of life. In these cases, instead of treatment, a urologist may recommend regular checkups. If benign prostatic hyperplasia symptoms become bothersome or present a health risk, a urologist most often recommends treatment.

Key words: transurethral needle ablation, transurethral microwave thermotherapy, high-intensity focused ultrasound, prostatic stent insertion, transurethral electrovaporization

Researchers have developed a number of minimally invasive procedures that relieve benign prostatic hyperplasia symptoms when medications prove ineffective. These procedures include

- transurethral needle ablation
- transurethral microwave thermotherapy
- high-intensity focused ultrasound
- transurethral electrovaporization
- water-induced thermotherapy
- prostatic stent insertion

Minimally invasive procedures can destroy enlarged prostate tissue or widen the urethra, which can help relieve blockage and urinary retention caused by benign prostatic hyperplasia.

Urologists perform minimally invasive procedures using the transurethral method, which involves inserting a catheter—a thin, flexible tube—or cystoscope through the urethra to reach the prostate. These procedures may require local, regional, or general anesthesia. Although destroying troublesome prostate tissue relieves many benign prostatic hyperplasia symptoms, tissue destruction does not cure benign prostatic hyperplasia. A urologist will decide which procedure to perform based on the man's symptoms and overall health.

Transurethral needle ablation. This procedure uses heat generated by radiofrequency energy to destroy prostate tissue. A urologist inserts a cystoscope through the urethra to the prostate. A urologist then inserts small needles through the end of the cystoscope into the prostate. The needles send radiofrequency energy that heats and destroys selected portions of prostate tissue. Shields protect the urethra from heat damage.

Transurethral microwave thermotherapy. This procedure uses microwaves to destroy prostate tissue. A urologist inserts a catheter through the urethra to the prostate, and a device called an antenna sends microwaves through the catheter to heat selected portions of the prostate. The temperature becomes high enough inside the prostate to destroy enlarged tissue. A cooling system protects the urinary tract from heat damage during the procedure.

High-intensity focused ultrasound. For this procedure, a urologist inserts a special ultrasound probe into the rectum, near the prostate. Ultrasound waves from the probe heat and destroy enlarged prostate tissue.

Transurethral electrovaporization. For this procedure, a urologist inserts a tubelike instrument called a resectoscope through the urethra to reach the prostate. An electrode attached to the resectoscope moves across the surface of the prostate and transmits an electric current that vaporizes prostate tissue. The vaporizing effect penetrates below the surface area being treated and seals blood vessels, which reduces the risk of bleeding.

https://www.openconference.us/

Interdisciplinary Conference of Young Scholars in Social Sciences

Hosted from USA



Water-induced thermotherapy. This procedure uses heated water to destroy prostate tissue. A urologist inserts a catheter into the urethra so that a treatment balloon rests in the middle of the prostate. Heated water flows through the catheter into the treatment balloon, which heats and destroys the surrounding prostate tissue. The treatment balloon can target a specific region of the prostate, while surrounding tissues in the urethra and bladder remain protected.

Prostatic stent insertion. This procedure involves a urologist inserting a small device called a prostatic stent through the urethra to the area narrowed by the enlarged prostate. Once in place, the stent expands like a spring, and it pushes back the prostate tissue, widening the urethra. Prostatic stents may be temporary or permanent. Urologists generally use prostatic stents in men who may not tolerate or be suitable for other procedures.

References:

- **1.** Абдукадирова, Л. К., & Абдуллаева, Ў. Я. (2019). Тошкент шахри кичик ёшдаги болалар тарбияланаётган оилаларнинг ижтимоий-гигиеник холатини ўрганиш натижалари. Интернаука, (5-2), 47-48.
- **2.** Jasim, S. A., Mohammadi, M. J., Patra, I., Jalil, A. T., Taherian, M., Abdullaeva, U. Y., ... & Alborzi, M. (2024). The effect of microorganisms (bacteria and fungi) in dust storm on human health. Reviews on Environmental Health, 39(1), 65-75.
- **3.** Каримова, М. М., Содиков, Ю. Т., Юсупова, М. М., & Мухаммадсодиков, М. М. (2022). Covid-19 o'tkazgan bemorlarda qalqonsimon bez xolatini taxlil qilish. Журнал кардиореспираторных исследований, 3(1).
- **4.** Алимова, Н. У., & Мухамадсадиков, М. М. (2022). Оценка Современных Методов Диагностики И Лечения Врождённого Гипотиреоза. AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI, 1(6), 62-75.
- **5.** Каримова, М. М., Содиков, Ю. Т., Юсупова, М. М., & Мухаммадсодиков, М. М. (2022). АНАЛИЗ СОСТОЯНИЯ ЩИТОВИДНОЙ ЖЕЛЕЗЫ У ПАЦИЕНТОВ, ПЕРЕНЕСШИХ COVID-19. Journal of cardiorespiratory research, 1(1), 44-46.
- **6.** Shukhratjonovich, S. E. (2023). TREATMENT OF PATIENTS WITH CHRONIC RECURRENT CYSTITIS WITH A DRUG BASED ON BACTERIOPHAGES. Best Journal of Innovation in Science, Research and Development, 2(10), 541-544.
- 7. Shukhration, S. E. (2023). UROLITHIASIS DISEASE. World Bulletin of Public Health, 27, 35-36.
- **8.** Rapikov, I. (2023). Formation of savings and entrepreneurship on the basis of labor education according to age characteristics in primary school students. Procedia of Engineering and Medical Sciences, 8(12), 80-83.
- 9. Алимова, И. А. (2023). МЕТОДИКА ИССЛЕДОВАНИЯ И РЕАБИЛИТАЦИЯ ДЕТСКОГО АУТИЗМА У ДЕТЕЙ В ФЕРГАНСКОМ РЕГИОНАЛЬНОМ ФИЛИАЛЕ РЕСПУБЛИКАНСКОГО ЦЕНТРА СОЦИАЛЬНОЙ АДАПТАЦИИ ДЕТЕЙ.
- **10.** Алимова, И. А. КОМПЛЕКСНЫЕ РЕАБИЛИТАЦИОННЫЕ ТЕХНОЛОГИИ У ДЕТЕЙ С ОСОБЫМИ ПОТРЕБНОСТЯМИ ПОСЛЕ COVID-19.
- **11.** G'aniyevich, R. I. (2023). Formation of National Crafts in the family of Primary School students. Best Journal of Innovation in Science, Research and Development, 283-286.
- **12.** Рапиков, И. Г. (2019). Женское семейное членство в обучении учителя. Научные горизонты, (4), 85-89.

Interdisciplinary Conference of Young Scholars in Social Sciences

Hosted from USA



- **13.** Sattievna, D. G. (2024). FARG'ONA VILOYATIDA REPRODUKTIV YOSHDAGI AYOLLARNI KONTRASEPTIV VOSITALARNI QO'LLASH USULLARI HAQIDAGI XABARDORLIK DARAJASINI O'RGANISH. Лучшие интеллектуальные исследования, 14(2), 239-243.
- **14.** Mukhtarzhanovna, I. G. (2023). DIAGNOSTIC METHODS OF VAGINAL DYSBIOSIS DURING PREGNANCY. EUROPEAN JOURNAL OF MODERN MEDICINE AND PRACTICE, 3(11), 136-137.
- **15.** Isroilova, G. (2023). DEVELOPING THE PRINCIPLES OF STUDYING AND TREATMENT OF VAGINAL DYSBIOSIS DURING PREGNANCY. Modern Science and Research, 2(4), 52-53.
- **16.** Mukhtarjanovna, I. G. (2023). Developing the Principles of Studying and Treatment of Vaginal Dysbiosis During Pregnancy. Texas Journal of Medical Science, 16, 67-68.
- **17.** Jabborova, M. A., & Shokirova, S. M. (2022). PLASENTA YETISHMOVCHILIGI KASALLIGI. Новости образования: исследование в XXI веке, 1(3), 291-294.
- **18.** Soliyevich, I. M. (2024, May). FOREIGN BODIES IN THE ANORECTAL AREA. In Proceedings of International Conference on Modern Science and Scientific Studies (Vol. 3, No. 5, pp. 72-76).
- **19.** Soliyevich, Isroilov Maxamadsodiq. "COMPLICATIONS AFTER OPERAS PERFORMED IN GRISHPRUNG'S DISEASE." Proceedings of International Educators Conference. Vol. 3. No. 5. 2024.
- **20.** Soliyevich, Isroilov Maxamadsodiq. "CHANGES IN THE MICROFLORA OF THE COLON IN GRISHPRUNG DISEASE." Miasto Przyszłości 48 (2024): 170-173.
- **21.** Абдуллаев, С. (2024). АКТУАЛЬНОСТЬ ПРОБЛЕМ РАЗВИТИЯ ОСТРЫХ ПНЕВМОНИЙ У ДЕТЕЙ. THEORY AND ANALYTICAL ASPECTS OF RECENT RESEARCH, 2(22), 29-33.
- **22.** Solijon oʻgʻli, A. S. (2024). BACTERIAL, VIRAL AND MUCOPLASMA PNEUMONIA IN CHILDREN. American Journal of Pediatric Medicine and Health Sciences (2993-2149), 2(1), 273-280.
- **23.** Абдуллаев, С. (2024). ПСИХОЛОГИЧЕСКИЕ ОСОБЕННОСТИ УЧЕБНЫХ ИГР В ПОДГОТОВКЕ СТУДЕНТОВ МЕДИЦИНСКИХ ИНСТИТУТОВ. FORMATION OF PSYCHOLOGY AND PEDAGOGY AS INTERDISCIPLINARY SCIENCES, 2(25), 222-224.
- **24.** Abdullaev, S. S. (2023). TO THE QUESTION OF COMMUNITY-ACCOMPANIED PNEUMONIA IN YOUNG CHILDREN. Journal of Social Sciences and Humanities Research Fundamentals, 3(05), 51-53.
- **25.** Kamoldinovich, X. D. (2024, May). ULRTRASOUND LEVELING AND ITS ADVANTAGES. In Proceedings of International Conference on Modern Science and Scientific Studies (Vol. 3, No. 5, pp. 59-64).
- **26.** Kamoldinovich, X. D. (2024, May). MODERN CONTRAST AGENTS IN MEDICINE. In Proceedings of Scientific Conference on Multidisciplinary Studies (Vol. 3, No. 5, pp. 132-144).
- **27.** Kamoldinovich, X. D. (2024). INTRAVENOUS ADNIMNSTRATION OF CONTRAST AGENTS AND ITS CHARACTERISTICS. Miasto Przyszłości, 48, 119-131.
- **28.** Xojiraxmatov, D. K. (2023). THE IMPORTANCE OF COMPUTED TOMOGRAPHY IN THE DIAGNOSIS OF URETEROLITHIASIS AND ITS COMPLICATIONS. Procedia of Engineering and Medical Sciences, 7(12), 31-34.
- **29.** Анварова, 3. (2024). СПИД/ВИЧ ИФИЦИРОВАНИЕ И ДЕТИ. THEORY AND ANALYTICAL ASPECTS OF RECENT RESEARCH, 2(22), 41-45.
- **30.** Анварова, 3. (2024). ЗАДЕРЖКА ВНУТРИУТРОБНОГО РАЗВИТИЯ ПЛОДА КАК ФАКТОР НАРУШЕНИЯ ГАРМОНИЧНОГО РАЗВИТИЯ ДЕТЕЙ. THEORY AND ANALYTICAL ASPECTS OF RECENT RESEARCH, 2(21), 234-237.
- **31.** Zakhriddinovich, I. B. (2024). SOME NEUROLOGICAL DISEASES IN CHILDREN. Miasto Przyszłości, 48, 162-169.

Interdisciplinary Conference of Young Scholars in Social Sciences Hosted from USA



- **32.** Vadimovich, F. R., Satvaldiyevna, P. M., & Zakhriddinovich, I. B. (2021). Relationship between the expression of pain syndrome and the size of the inter vertebral hernia of the lumbar spine. ACADEMICIA: An International Multidisciplinary Research Journal, 11(4), 1481-1488.
- **33.** Qosimovna, A. Z. (2023). Factors that lead to asphyxia in babies. American Journal of Pediatric Medicine and Health Sciences (2993-2149), 1(10), 740-743.
- **34.** Madaminjonovna, Q. Z. (2024, January). THE PROCESS OF DEVELOPING HYPERTENSION. In Proceedings of International Conference on Educational Discoveries and Humanities (Vol. 3, No. 2, pp. 177-182).
- **35.** Madaminjonovna, K. Z. (2024). ETIOLOGICAL FACTORS CAUSING HYPERTENSION DISEASE AND MEASURES TO CONTROL IT. American Journal of Pediatric Medicine and Health Sciences (2993-2149), 2(1), 326-332.
- **36.** Madaminjanovna, Q. Z. (2023). Hypertensive Disease: History of Nosology Development. American Journal of Pediatric Medicine and Health Sciences (2993-2149), 1(10), 97-103.

https://www.openconference.us/