FACT SHEET

Medtronic Urology Diagnostics

Overview
Medtronic, Inc., the world's leading medical technology company, with technological solutions in cardiology, neurology, oncology, gastroenterology and other medical specialties, is now emerging as a leader in the field of diagnostics and treatments for urology.

The vision of Medtronic Urology is to be the worldwide leader in providing total patient management solutions from diagnostics through innovative and effective therapies for treating the conditions of voiding dysfunction and benign prostatic hyperplasia (BPH), or enlarged prostate.

Diagnostics
Urodynamics is the primary diagnostic procedure for the investigation of the function and dysfunction of the lower urinary tract. The pelvic floor muscles act like a hammock to support the whole pelvic region. When these muscles weaken, the organs in the pelvic floor can prolapse, causing additional complications. Pelvic floor diagnostic techniques are used to define the pathophysiology of the lower urinary tract and the colorectal area in patients with symptoms and signs of dysfunction.

Urodynamic testing allows a clinician or researcher to measure how well the bladder stores and empties urine and to identify and differentiate physical and neurological factors involved in bladder disorders. This is important, for example, in the diagnosis of different types of incontinence for which there are different indicated treatments. Results of this testing allow physicians to offer the optimal therapy to their patients.

Medtronic offers comprehensive pelvic floor diagnostic testing systems for the office setting or multi-specialty pelvic floor examination centers.

Every Medtronic diagnostic system is designed with modularity and expandability in mind, allowing physicians to combine different diagnostic tools and establish a complete integrated laboratory. In addition, each system is offered with a wide variety of quality accessories and professional training programs.
Duet® Logic G|2 – Provides Microsoft Windows®-based urodynamics for fast, straightforward testing and reporting for clinics where logic, efficiency and economy are essential.

Capabilities:

⇒ Uroflowmetry
⇒ Bladder filling and voiding cystometry
⇒ Valsalva leak point pressure measurement
⇒ Pressure flow studies with choice of pQ plot analyses
⇒ Urethral pressure measurement
⇒ Anorectal manometry

Features:

⇒ Spinning disc flow transducer
⇒ Four pressure channels
⇒ High fidelity, low noise EMG amplifier
⇒ Large flat screen monitor
⇒ Precisely regulated water pump
⇒ Custom built trolley
⇒ Waterproof control panel and mouse operation
⇒ Fast, powerful CPU and high resolution color printer
⇒ Built-in “Quick Tips” visual reference library

Duet® EnCompass™ System – Provides an all-in-one functional diagnostic system for advanced urodynamics (4+ channels), anorectal manometry (4-10 pressure channels) and advanced neurodiagnostics with stimulation all in one integrated unit. The flexibility of the system is designed to meet both the clinical needs of individual physicians as well as the research needs of large pelvic floor laboratories. In any setting, the full range of testing can be completed in less than an hour.

Capabilities:

⇒ Urodynamics Suite with a complete range of urodynamic tests, including:
  • Medtronic’s proprietary spinning disk uroflow transducer, the gold-standard in uroflowmetry
  • Urethral pressure measurement
  • Water cystometry
  • Gas cystometry
  • Voiding cystometry
  • Video urodynamics
⇒ Neuro Urodynamics Suite for pudendal nerve latency studies, free run electromyography (EMG) and various pelvic floor nerve reflex studies
⇒ Anorectal Manometry Suite with standardized colorectal protocols
⇒ Bio-Feedback applications
⇒ Video Suite for combination of X-ray or ultrasound imaging with traces
⇒ Audio Suite with sound feedback and voice annotation
⇒ Office Suite based on Microsoft® Office for post-processing and reporting
⇒ Built in education with the “Quick Tips” visual reference library

System Advantages:

⇒ Software
  • The Duet EnCompass software is logical and easy-to-use, and can also be customized for advanced analysis
  • A wide selection of analysis tools is provided, including Q plots and stress profiles, scale curves and post-filtering
  • The system can be configured for small or large networks, for data communications via the Internet and off-site review and editing
  • Full network capability allows multi-center functionality between several workstations or even laptops
  • Data import options include ICS Measure File Format, and export compatibility with popular data formats

⇒ Reports
  • The Duet EnCompass includes a powerful tool for rapid and flexible generation of reports using standard Microsoft word processing and spreadsheet software
  • Research management, including protocol customization (e.g., drug trial studies), plotting queries and seamless generation of presentations
  • General statistical tools, including comparison, grouping and analysis of qualified data
  • Customized physicians’ letters can be automatically generated with data extraction using a Microsoft Word® template
  • All diagnostic studies and patient data can be printed directly in one report for a better diagnostic overview
  • Reports can be easily transferred into hospital information systems

- Medtronic URODYN® 1000 Stationary Uroflow Recorder – Provides non-invasive uroflow studies, including screening for bladder outlet obstruction surgery follow-up and drug treatment monitoring.

⇒ Leverages unsurpassed accuracy and reliability while providing a more pleasant and discreet experience for patients. An ideal solution for everyday use and precise research
⇒ URODYN 1000 is an ideal system for non-invasive uroflow studies
⇒ Fully automated, wall-mounted unit offers real-time printouts and built-in memory for study storage
- **Urodynamics Accessories**
  
  ⇒ Medtronic provides the industry’s largest selection of transducers and accessories for maximum flexibility and top-quality precision
  ⇒ Available accessories include disposable air-charged catheters, water filled catheters, pressure transducers, micro transducer catheters, tubing, perfusion sets and EMG electrodes
  ⇒ New functionality includes the ability to order consumables online, through the equipment, if connected to a telephone line

- **Service and Support**
  
  ⇒ Medtronic provides flexible support options to meet a variety of needs and budgets
  ⇒ Medtronic has the largest support system in the industry
  ⇒ Experienced sales representatives and regional clinical training specialists
  ⇒ Reimbursement specialists to help with coding questions
  ⇒ Options range from online remote support to onsite engineering and networking

- **Medtronic “Stay in Touch” Support Program** – Medtronic diagnostic products are also supported with four levels of professional customer service:
  
  ⇒ Built-in visual education available during the study
  ⇒ Competent sales force and clinical training specialists
  ⇒ Regionally-based on-site service force
  ⇒ On-line access to support and technical representatives