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JAS UROFLOWMETRY



Technical Specifications

TECHINICAL SPECIFICATION	DESCRIPTION
LINE VOLTAGE	230Volt AC Stabilized
LINE FREQUENCY	50Hz
SELECTABLE IN TWO MODES	1.calibration 2.idle
MAXIMUM CAPACITY FOR A SINGLE MICTURATION	1000ml
MINIMUM PEAK FLOW RATE DETECTABLE ON GRAPH	1ml/sec
MAXIMUM PEAK FLOW RATE DETECTABLE ON GRAPH	40ml/sec(it can be increased).
PARAMETERS MEASURED	Voided volume, voiding time, flow time, max. flow rate, time to max. flow, avg. flow rate and hesitancy
HESITANCY	2 ml/sec
STANDARD ACCESSORIES	Advanced Microcontroller based device, sensor, Urine collection beaker and printer
PRINTER	HP Deskjet printer
VOIDED VOLUME(MAX)	1000ml
ACCURACY	± 5 % of voided volume in reading, other parameters are accurate according to calculations.
AUTOPRINT ACTION	After test stop it will give print from printer automatically
MAXIMUM STOP INTERVAL	60 sec-after test stops it will wait for 60 sec.

DESCRIPTION

JAS Uroflowmetry is a fully advanced microcontroller based device with black rectangular shaped load cell (sensor). It is designed to monitor the urinary volume and flow rate within a urine collection beaker during micturation. When the micturation process starts, a volume change is sensed advanced microcontroller based device, which determines and stores urinary volume ,flow rate and time along with other parameters. At the end of micturation process the microcontroller based device programmed to determine parameters relating to urinary flow like voided volume, voiding time, flow time, maximum flow rate, average flow rate and time to maximum flow. It also provides the graphical flow curve of the micturation process by the means of flow rate v/s time. At the end of micturation process, by automatic preset delay, it gives a printout which consists of a graphical flow curve as well as statistics relating to parameters of urinary flow altogether with the patients information.

The urinary system consists of two kidneys, two ureters, bladder and urethra. The kidneys principally function to filter the waste products from the blood and circulate the cleaned blood in the body. The ureters carry the waste products (urine) from the kidneys to the bladder. In the bladder, the urine is stored until urination. Thereafter, the urine passes out of the bladder through urethra.

Prostate is a accessory sex gland found in men at the base of the urinary bladder and surrounds the urethra. As the men age, the prostate gland slowly enlarge (called BPH) and may press on the urethra and cause flow of urine to be slower and less forceful with some other adverse symptoms. BPH is diagnosed with the help of ultra sound examination of urinary system and uroflowmetry.

Uroflowmetry is one way of integrating the activity of the bladder and the outlet during the emptying phase of micturation. The micturation process consists of detrusor function of bladder neck opening and urethral conductivity. It can establish the type of abnormality and filter the patients who require further invasive procedures. Thus, it avoids under treatment in the younger age group & restricts overzealous invasive procedure in the older age group.