UroCuff® Non-Invasive Pressure Flow Study

[redacted]

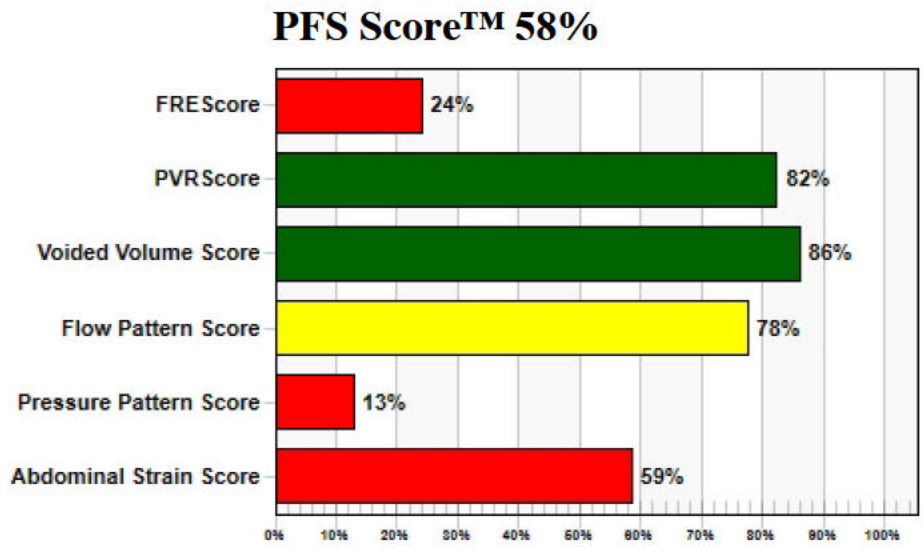
[redacted] Age: 59

[redacted]

Study Description

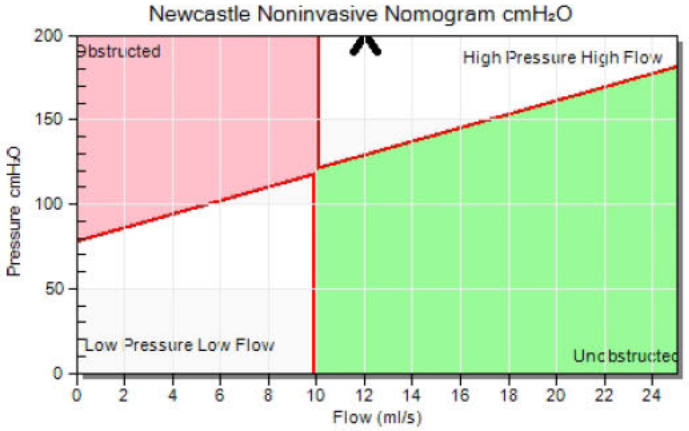
A pressure-flow study (PFS) with natural filling was performed 04/16/2024 9:19 AM on [redacted] a 59-year-old Male. The UroCuff Test is a non-invasive PFS in which a precise series of compressive pressures are applied to the urine stream to assess urine interrupt pressures. The UroCuff Test's principle of operation is similar to that of blood pressure measurement. When the patient is ready to void, a small pneumatic cuff is placed distal to the penis by sealing to the glans of the penis under a vacuum of 350 cmH_2O. When voiding has commenced, the UroCuff automatically inflates and deflates at a rate of 40 cmH_2O per second. The applied UroCuff pressure and the effects on the voiding rate (ml/s) are recorded simultaneously. The UroCuff Test records the resulting interrupt and projected interrupt pressures throughout the void in order to determine the bladder pressure throughout the void.

To interpret the test, the maximum flow (ml/s) and highest pressure at flow interruption (cmH_2O) are plotted on a specially-constructed nomogram[1] shown below. This nomogram is based on the ICS nomogram[2].



Key Statistics:

Desire to Void:	9
PVR	80 ml
Voided Volume:	244 ml
Functional Capacity:	324 ml
Void Time:	**54 seconds**
Flow Time:	**51 seconds**
IPSS Score:	**20**
QOL Score:	3



Key Statistics:

PcuffInt:	**200.0 cmH_2O**
Qmax:	12.1 ml/s
Estimated Qavg:	4.8 ml/s

(1) Griffiths CJ, Harding C, Blake C, McIntosh S, Drinnan MJ, Robson WA, Abrams P, Ramsden PD, Pickard RS. A nomogram to classify men with lower urinary tract symptoms using urine flow and noninvasive measurement of bladder pressure. J Urol. 2005 Oct;174(4 Pt 1):1323-6; discussion 1326; author reply 1326.
(2) ICS Nomogram – International Continence Society.

An automatic analysis algorithm has calculated the pressure/flow point based on the inflations in this study. When plotted onto the modified nomogram this calculated pressure/flow point lies in the nomogram quadrant that suggests a finding of High Pressure/High Flow

Abdominal EMG was measured during this study. Perianal EMG was measured during this study.

Clinician [redacted]

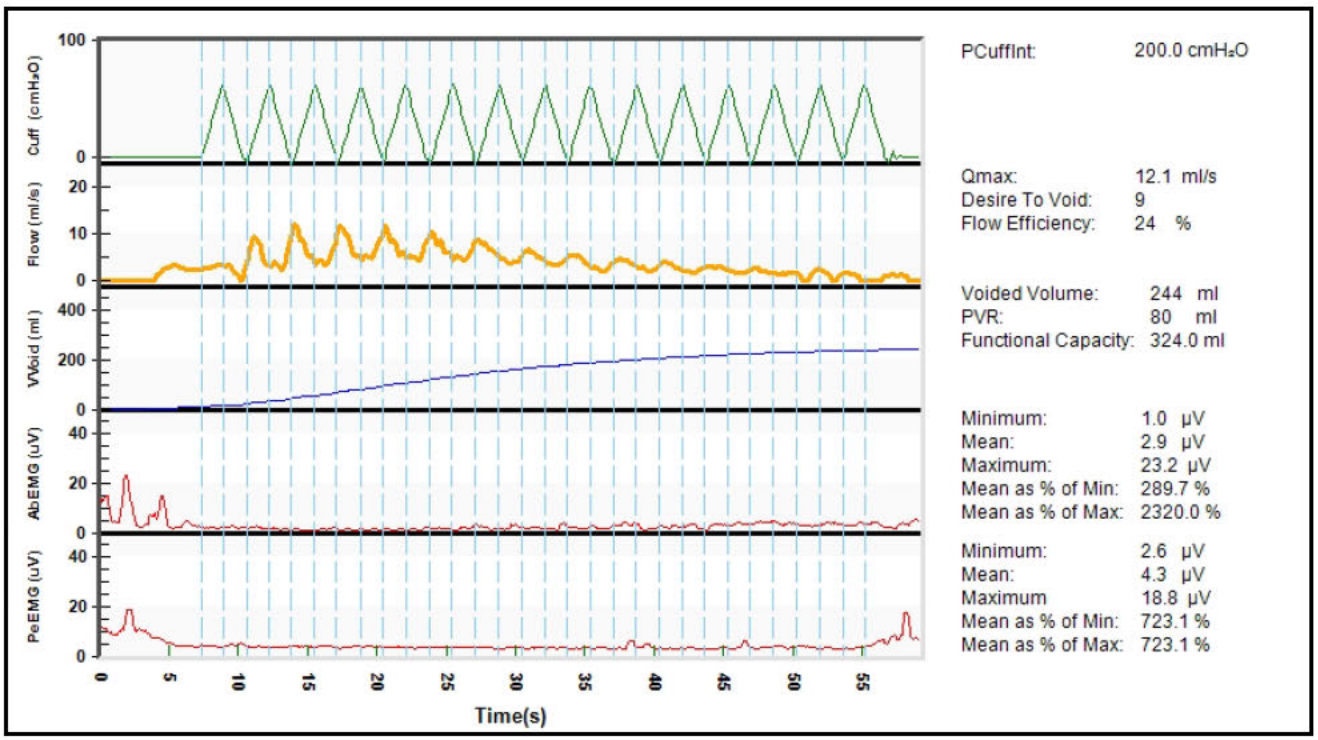
Attending Physician [redacted]

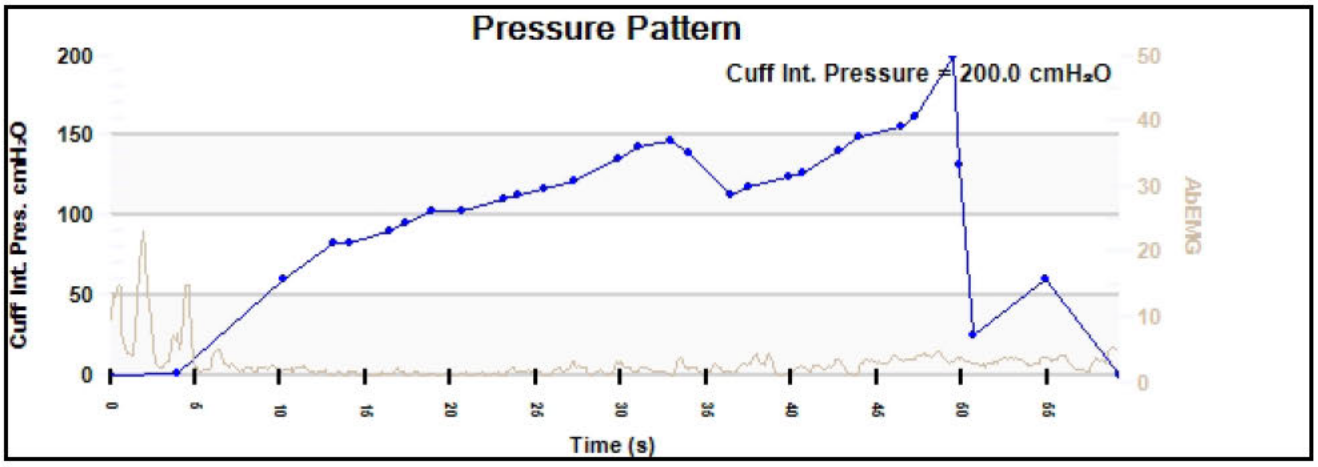
UroCuff® Non-Invasive Pressure Flow Study

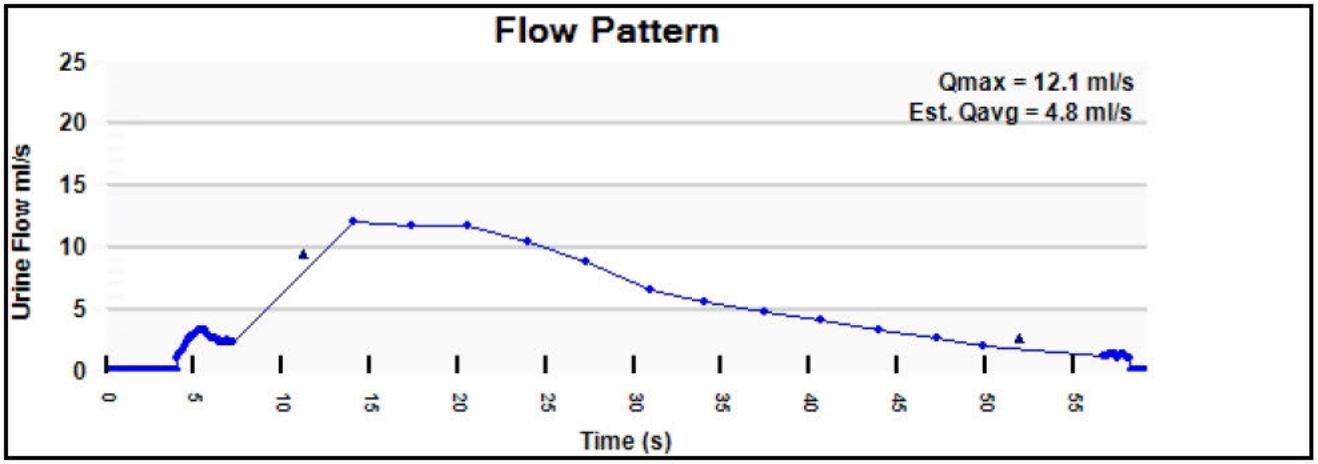
[redacted]

[redacted] Age: 59

[redacted]







Clinician [redacted]

Attending Physician [redacted]