

7-9			1	1	3	2	1		8
9-11				2	3		2	1	8
11-13			1	2	2		3		8
13-15						2		5	7
15-17						2	6	4	12
17-							3	4	7
Total	0	0	2	5	8	6	15	15	51

26 men had higher Digital value. 8 men had higher Clinic value. Binomial test 2 sided p value = 0.0029

Device used		Digital flow (mean of all available measurements) – flow rate categories in mls/sec								
		0-5	5-7	7-9	9-11	11-13	13-15	15-17	17-	Total
Captiflow (mean of 3 measurements) – flow rate categories in mls/sec	0-5									0
	5-7			2			2			4
	7-9				4	3				7
	9-11				1	3	2	1		7
	11-13					1	1	3	1	6
	13-15						1	5	2	8
	15-17						1	3	4	8
	17-					1		3	8	12
	Total	0	0	2	5	8	7	15	15	52

5 men had higher Captiflow value. 33 men had higher Digital value. Binomial test 2 sided p value = <0.0001

Interpretation of results

Whilst CaptiFlow™ is only able to measure a flow rate of less than 17 mls per second, the average of three measurements offers a level of accuracy equivalent to a single clinic flow and so may prove to be useful in minimising clinic visits whether during initial assessment or as part of follow up regime after interventions for LUTS. Whilst performing multiple digital flows demonstrates the range of flows achieved by an individual, it is doubtful whether the ability to measure this range adds clinical value.

Concluding message

Three home CaptiFlow™ measurements are as accurate as a single clinic flow in recording flow rates less than 17 mls per second. Measuring the urine flow at home is significantly preferred by the patients.

Specify source of funding or grant	Study was funded by Astratech AB, Molndal, Sweden
Is this a clinical trial?	Yes
Is this study registered in a public clinical trials registry?	Yes
Specify Name of Public Registry, Registration Number	Clinicaltrials.gov Reg NCT00710749
What were the subjects in the study?	HUMAN
Was this study approved by an ethics committee?	Yes
Specify Name of Ethics Committee	South West Research Ethics Committee granted MREC approval 08/H0206/32
Was the Declaration of Helsinki followed?	Yes
Was informed consent obtained from the patients?	Yes