CHARITÉ/BIH-PARTNER WANTED!

Short profile

Name: Flometrica

Medical field	Urology
Product type	Medical Device
Growth stage	R&D
Team	**David Akunis, Chairman & CEO:** More than 25 years of experience in business development, venture capital and investment banking in medical device sector; **Dov Oppenheim**, **CTO:** More than 20 years of mechanical design and production of medical devices, including Dario (Nasdaq: DRIO) a revolutionary digital health solution for blood glucose detection; **Prof. Ami Sidi, MD, Medical Director**: More than 25 years of experience as a distinguished physician, with many scientific publications, Ex-Chairman Department of Urologic Surgery, Wolfson Medical Center Holon, Israel.

Description of product:

Lower urinary tract symptoms (LUTS) refer to a group of clinical symptoms involving the bladder, urinary sphincter, urethra, and, in men, the prostate. LUTS are present in **~60% of the overall population**. Urine testing (Uroflowmetry) is the most commonly used monitoring technique to analyze LUTS symptoms.

Clinic-based uroflowmetry has several flaws: it is difficult to void at the desired moment; A single measurement of the voided parameters is a poor representative of the patient condition due to high variability of the measured parameters[1] and finally, clinical setting tests lack continuous monitoring; thereby cannot provide predictive insights for detecting the likelihood of developing Lut's/ Benign prostatic hyperplasia (BPH) related symptoms (Nocturia, Incontinence, ureteral obstruction etc').

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[1] Bower WF, Kwok B, Yeung CK. Variability in normative urineflow rates. J Urol. 2004;171:2657–9.

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Therefore, Flometrica developed a first-of-its-kind "smart cup" **(US Patent: 13/384.805/8.986.613**) coupled to several sensors which automatically perform the urination quality measurements for use in a home setting over a continuous period. The data from the smart cup is integrated with our digital Voiding Diary, which measures the liquid intake/outtake time/date. This robust data can assist in highlighting the likelihood of developing Lut's related symptoms

Desired project goal: *Please also elaborate on the primary outcome*

The project has four objectives : (1) Refine, test, and demonstrate the system usability and performance in a real-world environment on large cohorts; **(2)** Developing Decision support algorithms that predict the likelihood of developing Lut's/BPH related symptoms ; **(3)** Setup of working demonstrator within a Charite **(4)** Obtain approval & reimbursement for market launch

Desired project type: *Please also elaborate on the following points, if applicable: population, intervention, study design etc.*

- A prospective non-interventional study
- 100-300 Urination profile samples of patients will be collected at their home and in hospital settings to refine the Uroflowmetry Algorithm in comparison to the gold standard
- Patient clinical data collection will also be collected for the development of LUTS /BPH related symptoms prediction algorithms

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