

The Sentinel™ system is a pioneering bedside Urine Output (UO) Monitor for hospitalized patients improving Acute Kidney Injury (AKI) prediction and fluid management.

Offering a breakthrough solution for robust, accurate and automatic UO measurement and AKI assessment- with lower cost, less workload and use of standard hospital catheter and bag while improving patient safety.

Unmet need:

Acute Kidney Injury (AKI) - an avoidable, dangerous and common complication affects 19 million patients worldwide every year. It occurs in about 60% of all ICU patients, and 10% of all hospital admissions.

AKI triples mortality rates (X3), quadruple risk of readmission (X4) and increases length of stay by 50% (X1.5). AKI is hard to treat and reverse once it manifests fully.

Each AKI case costs an average of \$7K to treat, hospitals are not reimbursed for these HAC costs.

Costs of avoidable AKI estimated at \$39B worldwide per year

To detect, assess and possibly prevent AKI onset, ICU patients require accurate and frequent assessment of Urine Output, an important vital sign, Urine Output (UO) is also critical in assessing hemodynamic status and fluid balance. However it is the last metric still measured manually, inaccurately and intermittently, in the ICU.

The Sentinel™ system:

The Sentinel automated system has high ROI for hospitals, with significantly lower per-patient costs. System performance remain consistent for every patient and hospital setting, while maintaining high accuracy in the challenging environment.



Safe, reliable and robust



Accurate, automatic and continuous



Low cost, low workload, reducing risk



Works in every patient position & environment

Clinical:

Successful multicenter FIH clinical trial in Sheba and Belinson medical centers. Interim results show high accuracy and reliability - 99% accuracy for over 1,000 hours of monitoring.

IP:

The first 2 families of patents are in PCT, covering both device and method.



Team:

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