

Clarity RMS

Continuous, automatic monitoring of urine flow for early detection of changes in renal function, and of AKI risk



Clarity RMS™ is a critical care monitoring system that continuously measures urine flow, automatically transmitting real-time data and notifications of fluctuations to the medical staff, 24/7.

The system consists of:

- ✓ Electronic Sensor Kit (sensor + bag) - single patient use
- ✓ Console (bedside monitor)

- ➔ **ICU PATIENT SCREENING** – detecting early changes in renal function
- ➔ **AKI RISK ASSESSMENT** – identifying the need for intervention
- ➔ **FLUID MANAGEMENT** – monitoring responsiveness to treatment
- ➔ **AKI STAGING** – as per KDIGO guidelines
- ➔ **FUROSEMIDE STRESS TESTING (FST)** – predicting AKI progression
- ➔ **CRRT MANAGEMENT** – determining initiation and termination of CRRT

- ✓ Identified twice more cases of AKI* than serum creatinine (SCr) alone (92% vs. 42%), and an average of 12 hours earlier¹
- ✓ Was significantly more accurate, and had significantly fewer missed measurements than nursing staff recordings (8.6% vs. 39%)²

*as per KDIGO criteria

¹ Willner, D., Goldman, A., Azran, H. et al. Early identification of acute kidney injury in the ICU with real-time urine output monitoring: a clinical investigation. BMC Nephrol 22, 293 (2021). <https://doi.org/10.1186/s12882-021-02485-w>

² Minor J, Smith A, Deutsch F, Kellum JA. Automated versus manual urine output monitoring in the intensive care unit. Sci Rep 11, 17429 (2021). <https://doi.org/10.1038/s41598-021-97026-8>

Electronic Sensor

For accurate, direct, continuous readings of urine flow at Foley catheter exit point

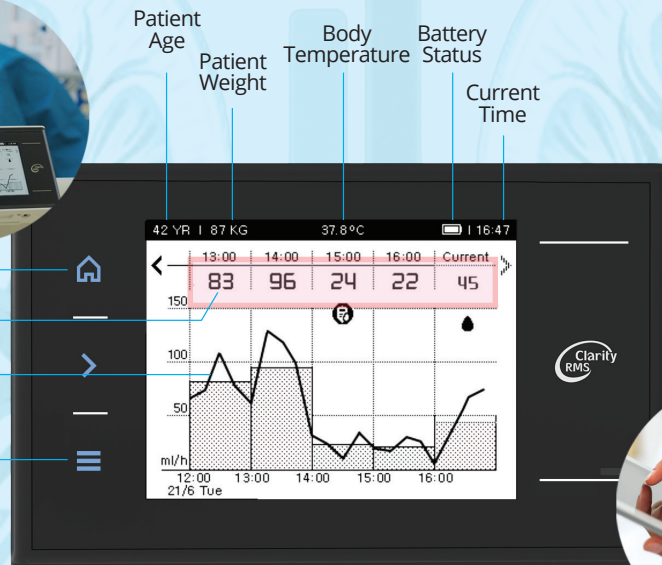


- **Measures real-time flow** - independently of changes in composition and concentration
- **Generates highly sensitive measurements** - required for patients with low urine flow
- **Can be used with any existing, indwelling Foley catheter**
- **Seamlessly integrates** - in the critical care environment
- **Single patient use** - Sensor + bag

Bedside Monitor



- Home
- Hourly Urine Output
- Realtime Urine Flow
- Menu



Electronic Health Record (EHR)



Remote diagnostics

- **Hourly urine output + notifications of fluctuations**
- **Wireless* and wired data transmission to all hospital information systems**
- **Notifications based on KDIGO guidelines for AKI staging and risk assessment**

* Work in progress

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