ATON™
SYSTEM

Time-critical Results FAST

- ✔ Lab-quality performance
- ✔ Quantitative results
- ✔ No chemistry

Advancing *in vitro* diagnostics with digital molecular profiling

Beachhead IVD Market: Dialysis Centers

Atonarp is developing a portfolio of multiplex panels using dialysate or blood for dialysis adequacy, anemia, bone health and nutritional status. Treatment can be personalized for each patient.

- Rapid results will enable the care team to adjust the dialysis prescription and medications sooner.
- Optimized treatment may mean patients feel better and recover from sessions faster.

Measure Toxins

Generate results on site rather than sending blood to a reference lab.

Personalize Treatment

Rapid results enable the care team to adjust the dialysis prescription and medications sooner.

Improve Outcomes

Optimized treatment could mean fewer hospital days, higher patient satisfaction and lower costs.

/ MULTI-LASER OPTICAL SPECTROSCOPY TECHNOLOGY

How it Works

Unlike standard lab tests, the ATON System does not use chemistry.

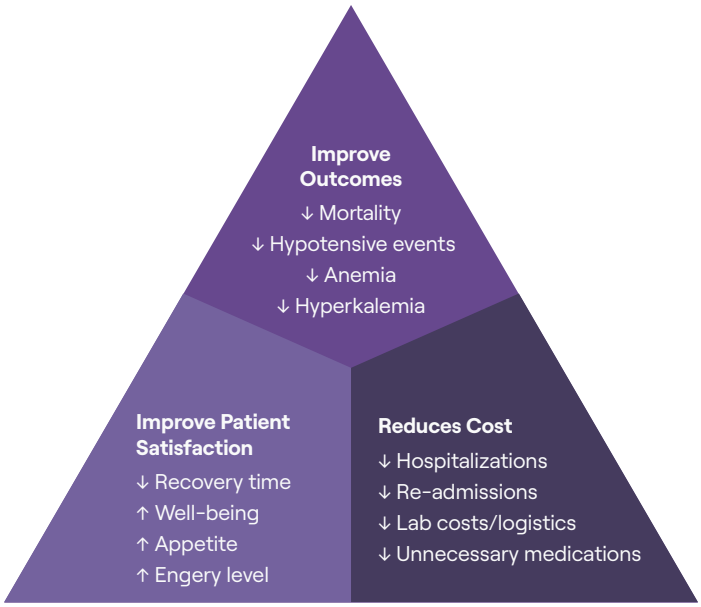
- Advanced lasers excite the molecules in the sample.
- Sensors collect scattered light.
- Proprietary software algorithms convert molecular signatures to concentrations for each target in the panel.

Innovation with a Purpose

Any new medical device needs to satisfy an unmet need or fill a clinical gap to be successful. Healthcare innovators must align with the "Triple Aim" shared by providers and payors:

- Improve health outcomes
- Enhance patient satisfaction
- Reduce costs

At Atonarp, we strive to meet the Triple Aim with our diagnostic panels by delivering actionable results that inform time-critical decisions to improve the lives of patients, their families and the providers who care for them.



The Critical Role of Lab Testing in Dialysis Management

Patients with end stage renal disease have lost their kidney function and need dialysis or a kidney transplant to stay alive. Most patients go to dialysis centers three times per week for 3- to 4-hour sessions to remove toxins and excess water from their blood. Treatment is rough… side effects are common and many patients take hours to recover after a session.

The care team needs better tools to optimize dialysis prescription and personalize treatment for these challenging patients. There is an urgent need to reduce morbidity and mortality, increase patient satisfaction and reduce overall costs. Monthly send-out testing to a reference lab simply isn't enough.

The ATON System is designed to measure uremic toxins in dialysate continuously or as discrete panels in blood. The care team will be able to generate lab-quality results on-site to guide treatment decisions. More frequent testing is expected to help optimize dialysis and medication prescriptions. Personalized treatment may lead to better outcomes, fewer hospitalizations, and higher patient satisfaction, well-being and compliance.

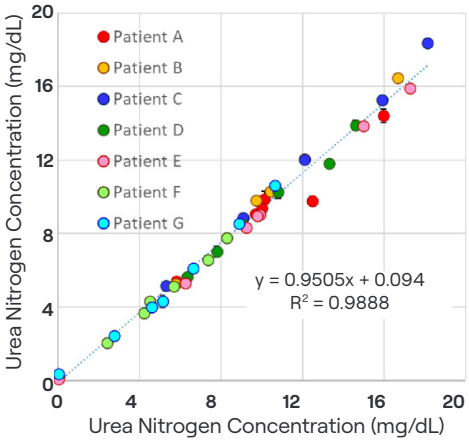
/ FEASIBILITY DATA

Pilot Study

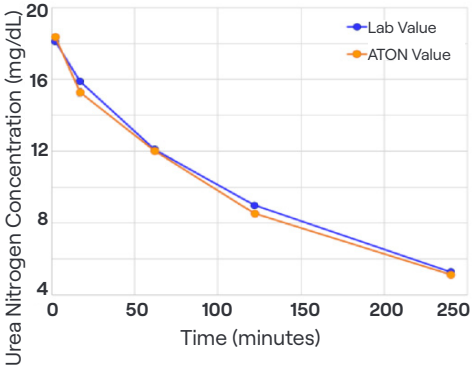
Samples were collected from seven patients at ten time points during dialysis treatment. All patient samples were measured by the ATON System and a comparative lab test.

- Urea nitrogen measurements correlated well with the reference values.
- The urea nitrogen concentration profiles were similar for the 7 subjects in the pilot study.

Correlation of ATON and Lab Results



Urea Nitrogen Concentration Over Time



Planned Dialysis Menu

Multiplex panels are under development for continuous measurement in dialysate and discrete panels in blood.

- Urea nitrogen
- URR and Kt/V calculations
- Uric Acid
- Creatinine
- Albumin
- Hemoglobin
- Potassium
- Phosphorus
- Calcium

Products are under development and not for sale.