Clinical Laboratory: Helping Direct Better Treatment Plans

Clinical laboratory testing plays a critical role in the management of health and well-being, as well as in the detection, diagnosis and monitoring of diseases to help direct better clinical prevention and treatment plans. The tests focus on the biochemical and protein constituents of blood and other body fluids for the diagnosis and management of illness. Diagnostics is crucial in helping healthcare practitioners identify predisposition to disease and diagnose medical conditions early, enabling them to intervene earlier and make better-informed treatment decisions to enable better outcomes for their patients.

In addition to its current offering of more than 120 clinical chemistry and immunodiagnostic assays and range of instruments, Ortho Clinical Diagnostics (OCD) brings sophisticated information management, testing technologies, automation and interpretation tools to clinical laboratories worldwide to enable them to run more efficiently and improve patient care.

Clinical Chemistry

Clinical chemistry assays measure the presence of particular biochemicals (biologically active chemical compounds) in the body to help provide healthcare practitioners with data points to better monitor the health of their patients. OCD offers a broad range of assays that perform all of the most common and important clinical chemistry tests, such as cholesterol tests (HDL and LDL), blood glucose (blood sugar) and electrolyte (sodium, potassium, chloride) levels to evaluate fluid balance.

OCD offers the following clinical chemistry systems:

- **The VITROS® 4600 Chemistry System** is a state-of-the-art analyzer that delivers high-quality, reliable test results for mid- to high-volume laboratories.

- **The VITROS® 350 Chemistry System** is a compact chemistry system designed to be efficient, dependable and, above all, easy to use as a primary, STAT or backup system.

Immunodiagnostics

Immunodiagnostics can help detect disease earlier, leading to patient care and treatment that could help to avoid progression to more serious disease. Immunodiagnostic tests match antibody-antigen responses to indicate the presence or level of a protein or other biomarker to help disease diagnosis across categories such as cardiology, metabolism, thyroid function, reproductive endocrinology, anemia, oncology and infectious...
diseases. OCD’s broad menu of infectious disease assays test for infections such as HIV, hepatitis and rubella.

OCD offers the following immunodiagnostics systems:

- **The VITROS® ECiQ Immunodiagnostic System** is a powerful immunoassay system for routine and specialty testing designed for low- to mid-volume laboratories that require continuous processing.

- **The VITROS 3600® Immunodiagnostic System** is a new high capacity immunoassay system that provides laboratories with a truly innovative solution to address their quality, labor and cost challenges. The VITROS 3600 System delivers high-quality and dependable results by offering a broad and comprehensive immunoassay menu based on world class VITROS® Technologies. The single-use tips on the system eliminate sample and reagent carryover, and automatically detect clots and bubbles to avoid reporting erroneous results.

**Integrated System**

- **The VITROS® 5600 Integrated System** is uniquely designed to integrate clinical chemistry and immunoassay testing on a single platform to increase laboratory productivity and ease of use. OCD is the only diagnostics manufacturer to offer U.S. laboratory customers the complete integration of more than 100 different clinical chemistry, routine immunoassay and infectious disease tests, including Anti-HIV 1+2 testing on a single platform – the VITROS® 5600 Integrated System. One of OCD’s innovations, patented in Europe, is the “Sample-Centered” processing approach, where each individual sample is accessed independently and in parallel for chemistry and immunoassay testing. Unlike other integrated systems, this “one tube in, one tube out” approach can optimize turnaround time and productivity by intelligently accounting for variable sample and test mixes, eliminating the need to split the sample on the analyzer or move sample trays between modules. In addition, the VITROS® 5600 System offers a reduced footprint compared with many other systems and does not have any water or drainage requirements, minimizing the impact of water availability while maximizing the use of available space.