

- Wifi and Bluetooth capability enables transmittal of patient data to central hub
- 64-bit quad core CPU
- USB port for manual data transfer
- Memory for storing patient data for hospital and in field use
- 1D & 2 D Barcode reader - for easy cartridge scan and patient armband scan
- Rechargeable battery – lightweight and low profile optimum for handheld in field use
- Mountable charging station

These features and combined analysis offer rapid analysis at patient location and can replace multiple units in the OR as well as expedite triage/treatment in the emergency department and other areas of the hospital. The advanced lightweight design is also critical for in field application.

"Improving patient care is our core mission at ChroMedX and the new HemoPalm design reflects that. Our technology is inspired by the need for reliable POCT. Ease of use and reliability are paramount when offering a new technology to the market place and I believe this design accomplishes that," said Ash Kaushal, President & CEO, ChroMedX Corp.



HemoPalm 2.0 design

At present, the combination of tests the HemoPalm will offer are only available on benchtop analyzers usually found in the central laboratory. Analytes the HemoPalm 2.0 system is designed to measure includes Blood gases, CO-oximetry, Electrolytes and Bilirubin, which makes it a valuable tool for use in multiple hospital departments and in field applications for first responders, emerging economies, military and disaster relief.

Patients can present symptoms ranging from shortness of breath to unconsciousness, caused by dysfunction of one or several organs including the lungs, kidney, heart and gastrointestinal tract. Patients can also be victims of environmental conditions such as excessive smoke inhalation (a common cause of carbon monoxide poisoning) or ingestion of nitrates and nitrites that may or may not be medicinal ingredients. The tests below are essential for aiding in the diagnosis of the patients' symptoms, and monitoring their treatment.

First HemoPalm cartridge analysis will include:

- CO-Oximetry: Total Hb, Oxy-Hb, Deoxy-Hb, Met-Hb, and Caboxy-Hb
- Blood Gases: pH, pO₂ and pCO₂
- Electrolytes: Na⁺, K⁺, Cl⁻
- Bilirubin
- Hemoglobin O₂ Sat
- Base Excess (calculated)
- Anion Gap (calculated)

These tests are crucial for determining a patient's oxygenation and acid-base status in emergency situations to identify causes of hypoxemia, or hypoxia, (oxygen deficiency at the tissue level), and conditions such as asthma or chronic obstructive pulmonary disease (COPD) and electrolyte imbalances such as dehydration, kidney disease, lung diseases, or heart conditions.

Bilirubin is particularly important for detecting neonatal jaundice, which is easily treatable, but can cause brain damage and hearing loss if left untreated. Especially in the case of babies, collection of capillary blood is preferred because collection of arterial blood is difficult, painful, and is a major contributor of anemia.

The Company is working now to finalize the cartridge receptor (intake) before completing assembly and packaging of the functional prototype based on the new HemoPalm 2.0 design.

Earlier this month ChroMedX announced the completion of the HemoPalm Cartridge design and is now concentrated on evaluating the manufacturability and reproducibility of large quantities of the cartridge to be used for continued testing, calibration and validation of the HemoPalm analyzer prototype.

About ChroMedX Corp.

ChroMedX Corp. is a medical technology company focused on the development of novel medical devices for in vitro diagnostics and point-of-care testing. The devices are protected by the Company's issued and pending patents, dealing with blood collection, analysis and plasma/serum processing.

The HemoPalm Handheld Blood Analyzer System is the only handheld blood analysis system, which combines Blood Gases & Electrolytes with full CO-oximetry. Currently this combination is not available on any of the handheld analyzers on the market. Existing technologies require users to purchase a second device to carry out the CO-oximetry. The Company's technology has the advantage of being able to offer a single handheld blood analyzer that provides all the required tests for Blood Gases & Electrolytes, with full CO-oximetry and bilirubin. Another competitive advantage of the HemoPalm system will be its ability to draw capillary blood directly from a pin-prick site into the cartridge, providing an alternative to arterial blood. Drawing arterial blood is painful and can cause nerve damage. CO-oximetry is the measurement of five different hemoglobin species in blood.

The global market for Blood Gases & Electrolytes was estimated to be 1.5 Billion \$US in 2015 and is projected to reach over 1.8 Billion by 2020.

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