

ACCUDx CQ

Near Patient Critical Care Quantitative Analyser

When Patient is
Critical, TRUST
ACCUDx CQ

Instant Quantitative Results for
Critical Parameters like cTnI, hs-CRP &
CRP, PCT, D-dimer, proBNP, Triple
marker (Myoglobin/Tropon/CK-MB)

point of care
Test and Treat



FEATURES

Portable Design

Light in weight, Small in size

Easy to Use

Single Chip Calibration

Multiple Test Items

Cardiac and Inflammatory

Reliable Performance

CV ≤ 1%, R ≥ 0.990

Barcoded Test

Automatically detects test strip inserted

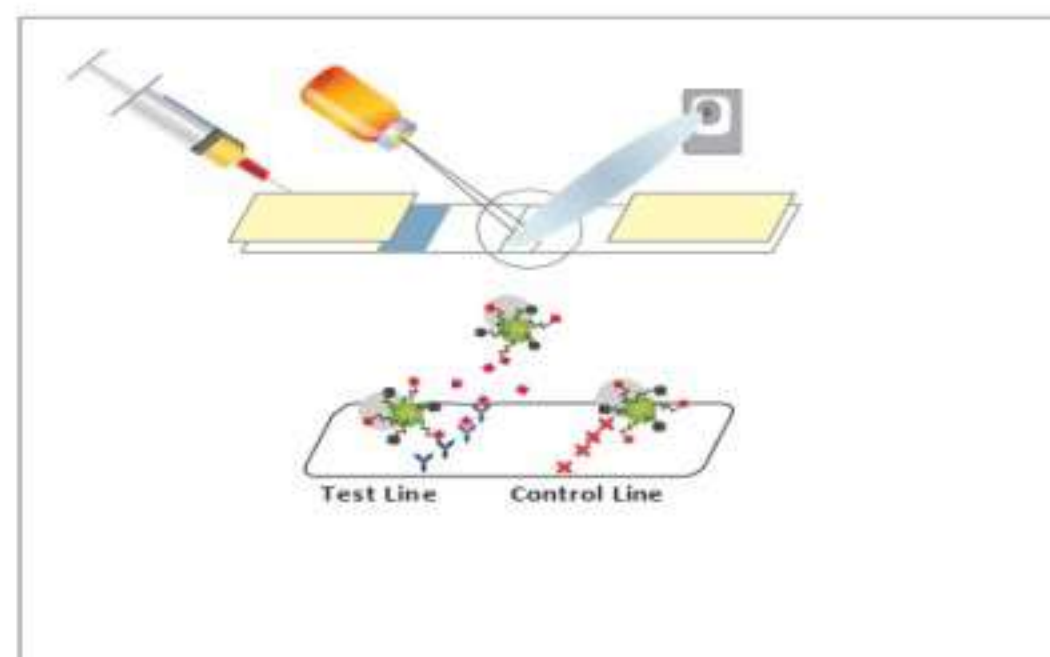


PRINCIPLE OF THE INSTRUMENT

AccuDX CQ uses a semiconductor diode laser to excitation light source for illuminating the test cartridge membrane, it triggers fluorescence from the fluorochrome molecules present on the membrane.

The fluorescent light is collected with the scattered laser light. Intensity of the fluorescence is scanned on the membrane.

The on-board microprocessor computes concentration of the analyte in the clinical specimen based on a pre-programmed calibration. The computed and converted result is displayed on the display screen of the AccuDX CQ



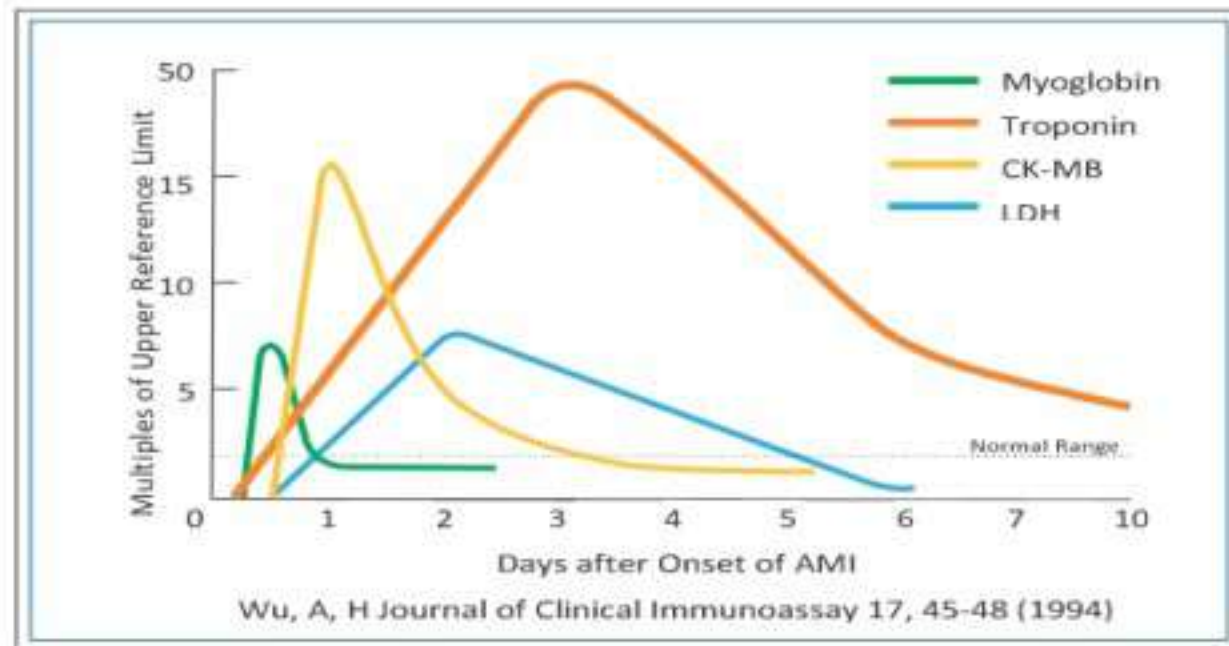
TEST PARAMETERS

Product	Test Item	Disease	Sample Type	Measuring Time	Measuring Range	Reference Value
Cardiac	cTnI	Acute Myocardial Infarction	W.B/S/P	15min	0.1-50 ng/ml	0.1 ng/ml
Inflammation	PCT	Sepsis, Septic shock	W.B/S/P	15min	0.1-50.0 ng/ml	0.1 ng/ml
Inflammation	hs-CRP & CRP	Cardiovascular inflammatory, inflammatory disorders	W.B/S/P	3min	0.5-200 mg/L	3 mg/L for hs-CRP 10 mg/L for CRP
Cardiac	D-Dimer	Deep Vein Thrombosis	W.B/P	10min	0.1-10.0 mg/L	0.5 mg/L
Cardiac	CK-MB /cTnI/ Myo	Myocardial Infarction	W.B/S/P	10min	CK-MB: 2.5 -80 ng/ml cTnI: 0.1 - 50 ng/ml Myo: 30 - 600 ng/ml	CK-MB: <5ng/ml cTnI: 0.1 ng/ml Myo: 70 ng/ml
Cardiac	proBNP	Heart Failure	W.B/S/P	10min	100 - 35000 pg/ml	Depends upon age

CLINICAL APPLICATION

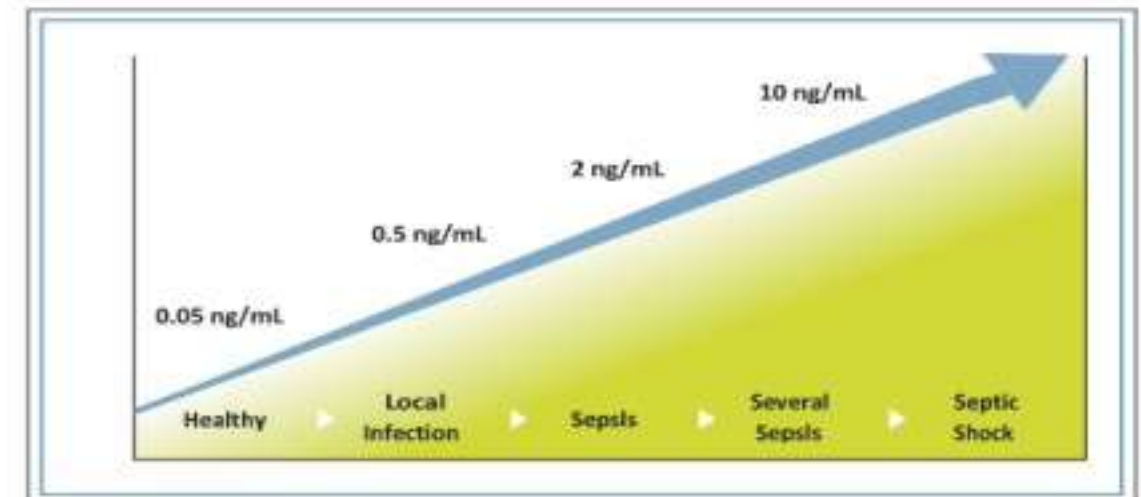
Triple Marker (cTnI, CK-MB, Myoglobin)

Reliable, High Sensitivity and Specificity Biomarker for detection of myocardial injury



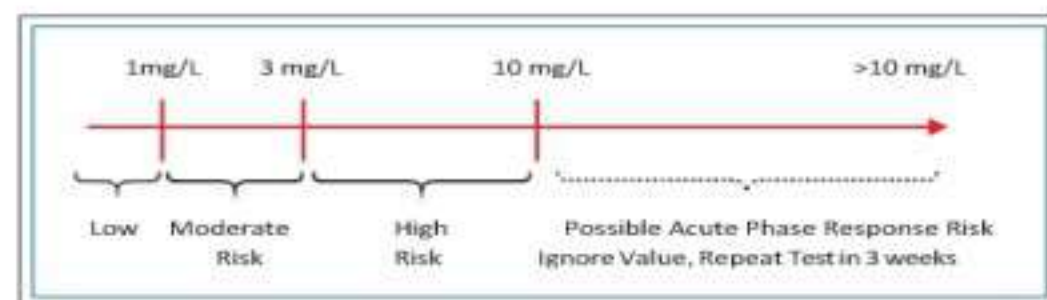
PCT

Rapid Bacterial /Viral infection diagnosis



hs-CRP & CRP

hs-CRP diagnoses adverse cardiovascular events, including myocardial infarction, ischemic stroke, and sudden cardiac death. CRP diagnoses high risk of inflammatory disorders.



pro BNP

Myocardial cells secrete NT-pro BNP in response to increase volume & pressure. NT-pro BNP is used for Screening & Diagnosis of heart failure.



Troponin T	Troponin I
84% sensitivity for myocardial infarction 8 hours after onset of symptoms; 81% specificity	90% sensitivity for myocardial infarction 8 hours after onset of symptoms; 95% specificity
Low specificity for unstable angina: 22%	Low specificity for unstable angina: 36%

TECHNICAL SPECIFICATIONS

Physical	
Size	261mmx241mmx115mm
Weight	2 kg
Power source	100V-240V, 50Hz/60Hz, 60VA
Working Environment	
Temperature	+10°C to +35°C
Relative Humidity	≤70%
Air Pressure	70.0kPa~106.0kPa
Limitation Environment in Transport and Storage process	
Temperature	-40°C ~ +55°C
Relative Humidity	≤93%
Air Pressure	50.0kPa~106.0kPa
Basic Technical Characteristics	
Operating Wavelengths	635±5 nm
Detection Range	0 mV~15000 mV
Resolution	1 mV
Memory Capacity	10,000 data
Printing Paper	57x35 mm
Others	
LCD Screen	7-inch LCD touch screen, 1024 x 600
AC/DC Adapter	12V 5A
Keypad	Numeric with special function keys (18 total)
Communications	Two USB ports for Barcode scanning and software update COM port for PC Ethernet port for LIS