

Finecare™

Fluorescence Immunoassay Rapid Quantitative Test



Wondfo

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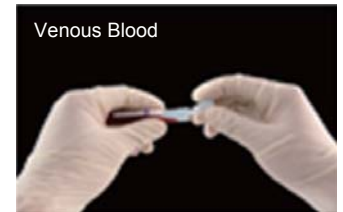
CRP

CRP (C-reactive Protein) Rapid Quantitative Test

CRP is a protein found in the blood, the rise of CRP levels response to inflammation. Combination of CRP and blood routine test increases diagnosis accuracy.

Characteristic:

- Rapid (Reaction time = 3min. TAT≤10min)
- Fluorescence signaling, higher sensitivity and specificity
- Whole range (hsCRP+CRP)
- Both venous blood and capillary blood are applicable
- CRP control



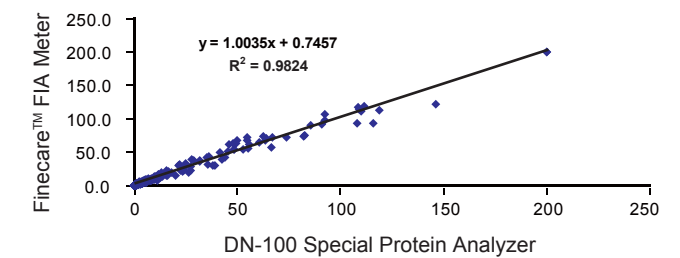
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- **Cardiac Markers:** NT-proBNP, cTnI, Myo, CK-MB, H-FABP, 3 in 1
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- **Tumor Markers:** AFP, PSA

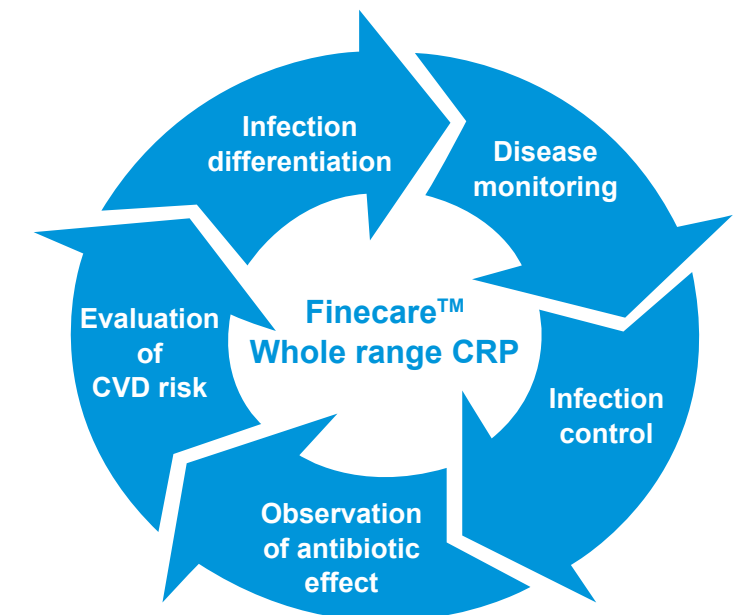
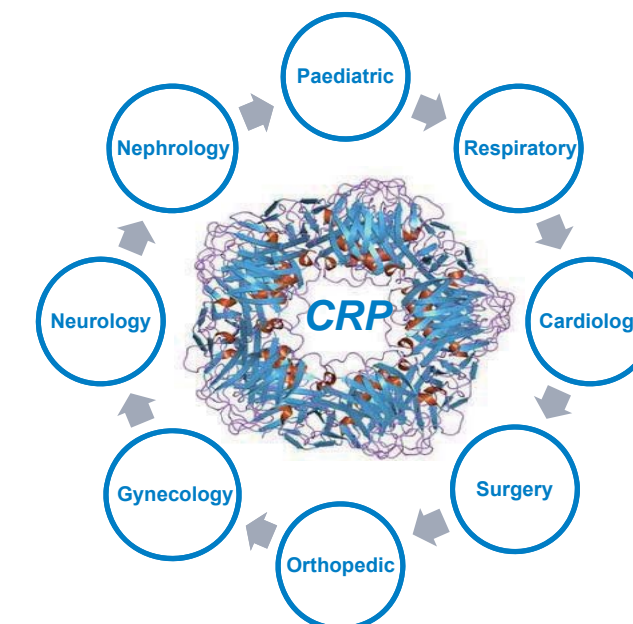


Performance:

Reaction time	3 minutes
Test time	10 seconds
Linear range	0.5 – 200 mg/L
Reference value	hsCRP < 1.0, CRP < 10



Application:



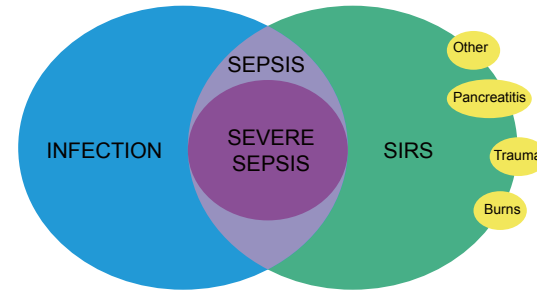
PCT

PCT (Procalcitonin) Rapid Quantitative Test

PCT is a peptide precursor of the hormone calcitonin. Measurement of PCT can be used as a marker of severe sepsis caused by bacteria and generally grades well with the degree of sepsis.

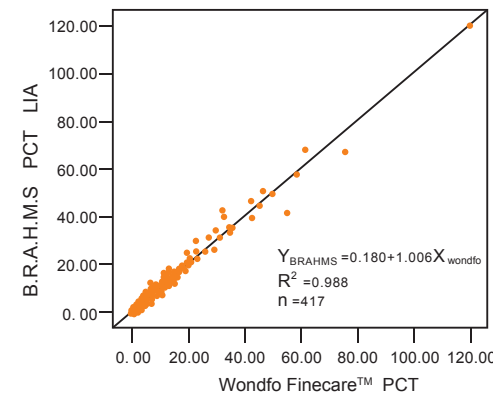
Characteristic:

- Rapid (Reaction time =15min)
- Fluorescence signaling, higher sensitivity and specificity
- Preferred indicator of bacterial infection and sepsis
- PCT control



Performance:

Reaction time	15 minutes
Test time	10 seconds
Linear range	0.1 – 100ng/mL
Specimen type	Whole blood/Serum/Plasma
Precision	CV≤15%



Application:

- Early diagnosis of severe infection
- Differentiating infection of bacteria from virus

Differential diagnosis

- Accurately guiding medication time and dosage of antibiotics
- Effectively avoiding antibiotic abuse

Medication guiding

- Sepsis indication, MODS prognosis
- Clinical observation of antibiotic treatment

Prognosis evaluation

- Severity monitoring of serious patient
- Monitoring of postoperative infection

Dynamic monitoring

Application mainly in Emergency, ICU, Pediatric, Respiratory, Surgical department etc.

Cardiac Markers

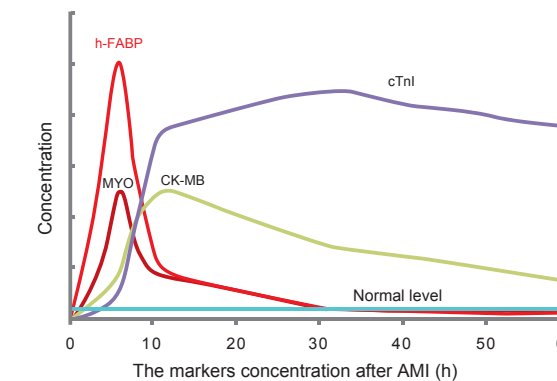
NT-proBNP / H-FABP / CK-MB / cTnI / Myo / 3 in 1

Cardiac markers are used in the diagnosis and risk stratification of patients with chest pain, suspected acute coronary syndrome (ACS) and heart failure (HF). In Wondfo cardiac markers platforms, whole blood / serum / plasma tests can quantitatively detect multiple analytcs on immunofluorescence meter, the detection sensitivity is up to pg / ml level.

Clinical application:

Disease	Test item
HF	NT-proBNP
ACS	cTnI, Myo, CK-MB
Chest pain	H-FABP, cTnI, Myo, CK-MB, hsCRP
Dyspnea	D-Dimer, NT-proBNP, H-FABP, cTnI, Myo, CK-MB, hsCRP

Signification of combine diagnosis:



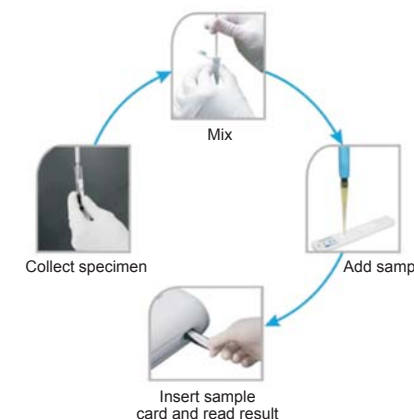
Diagnosis suggestion of myocardial injury markers

- < 2h H-FABP+Myo
- 2-6h H-FABP+Myo+cTnI+CK-MB
- 4-8h cTnI+CK-MB
- > 8h cTnI

- Early diagnosis of AMI
- Prognosis of ACS risk assessment and stratification
- Myocardial infarct size estimates

- ACS early judgment
- Detect myocardial damage degree after surgery
- Indicator after AMI thrombolytic and treatment

Test Procedure & Interpretation:



15min



- Multi-channel can test multi-cardiac markers at the same time.
- Results display on the screen automatically.

D-Dimer

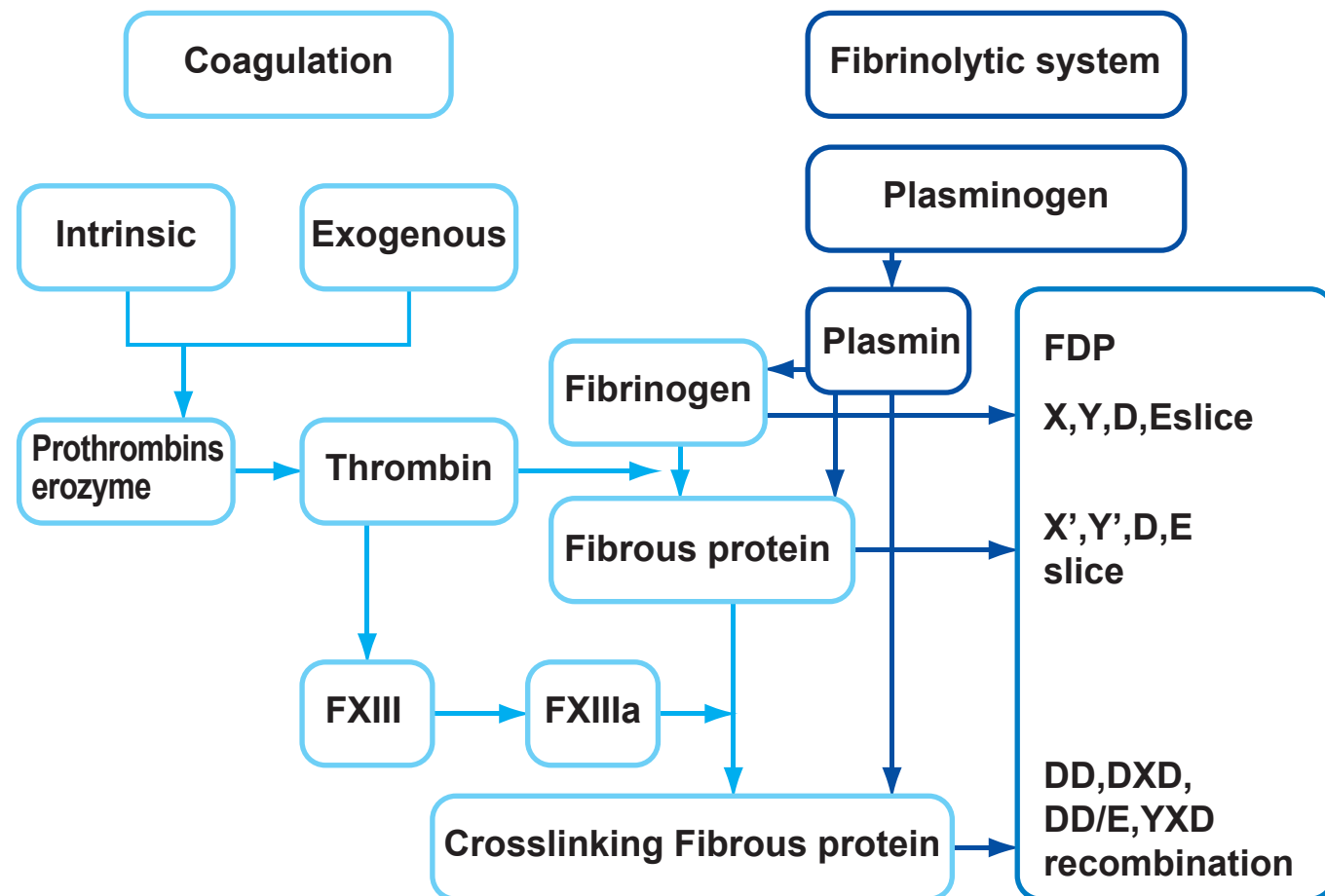
D-Dimer Rapid Quantitative Test

D-Dimer is a fibrin degradation product, a small protein fragment present in the blood after a blood clot is degraded by fibrinolysis. In early diagnosis of diseases (chest pain, dizziness, dyspnea such as pulmonary embolism, myocardial infarction and cerebral infarction), D-Dimer can improve efficiency and optimize process diagnosis.

Characteristic:

- Rapid (Reaction time = 3min)
- Quantitative detection
- High accuracy and sensitivity
- Convenient and simple operation

Mechanism of D-Dimer:

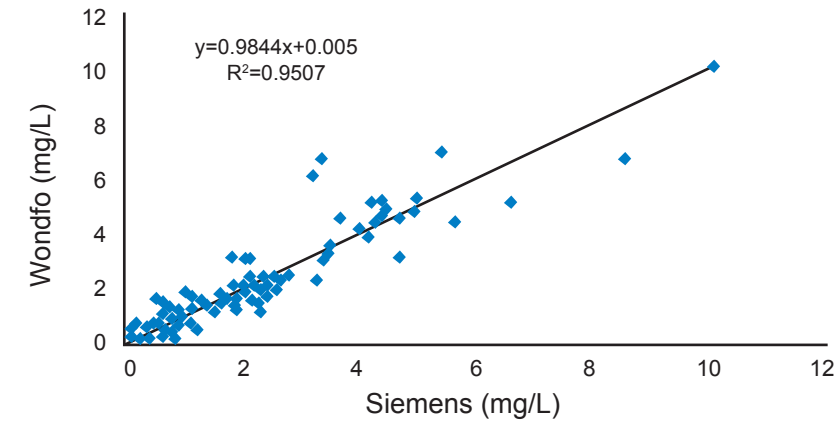


D-Dimer Rapid Quantitative Test

D-Dimer

Performance:

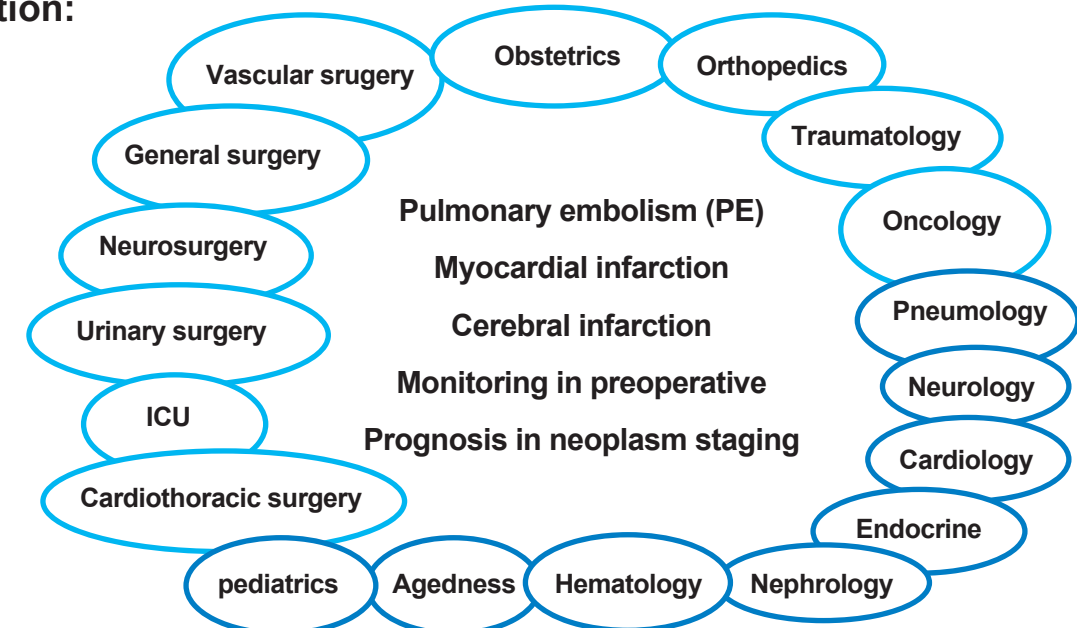
D-Dimer comparison test of whole blood specimen between Wondfo and Siemens



Compared with 356 test results of D-Dimer specimens conducted by Siemens, Wondfo Finecare™ FIA System has high accuracy in D-Dimer test (5-35 ng/ml), the correlation $R^2 = 0.951$, positive coincidence rate is 96.3%, negative coincidence rate is 88.4%, total coincidence rate is 92.8%, which can satisfy the clinical requirement.

Linear range	0.1~10mg/L
Reference value	<0.5mg/L
Reaction time	3min
Plasma	18uL
Whole blood	15uL

Application:



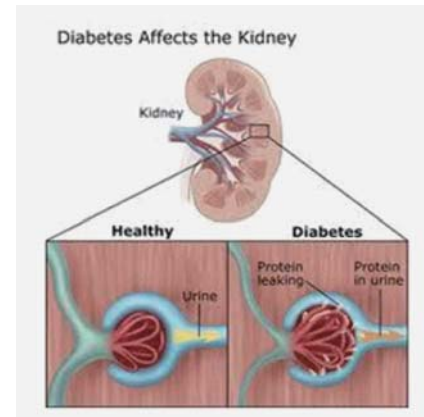
MAU

MAU (Microalbumin) Rapid Quantitative test

MAU (Urine albumin) occurs when the kidney leaks small amounts of albumin into the urine, when there is an abnormally high permeability for albumin in the renal glomerulus. In a properly functioning body, albumin is not normally present in urine because it is retained in the blood stream by the kidneys.

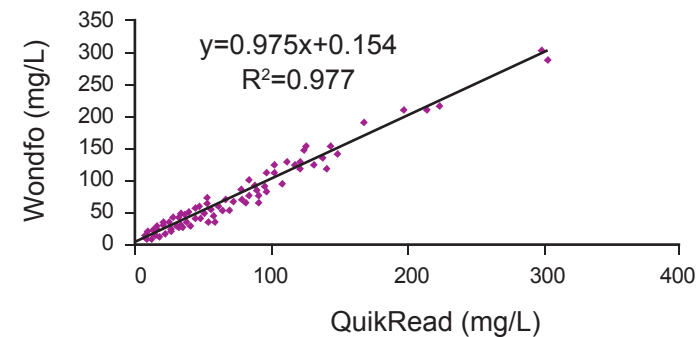
Characteristic:

- Rapid (Test time =10min)
- Fluorescence signaling, higher sensitivity and specificity
- Most sensitive and reliable indicator of Nephropathy
- MAU control

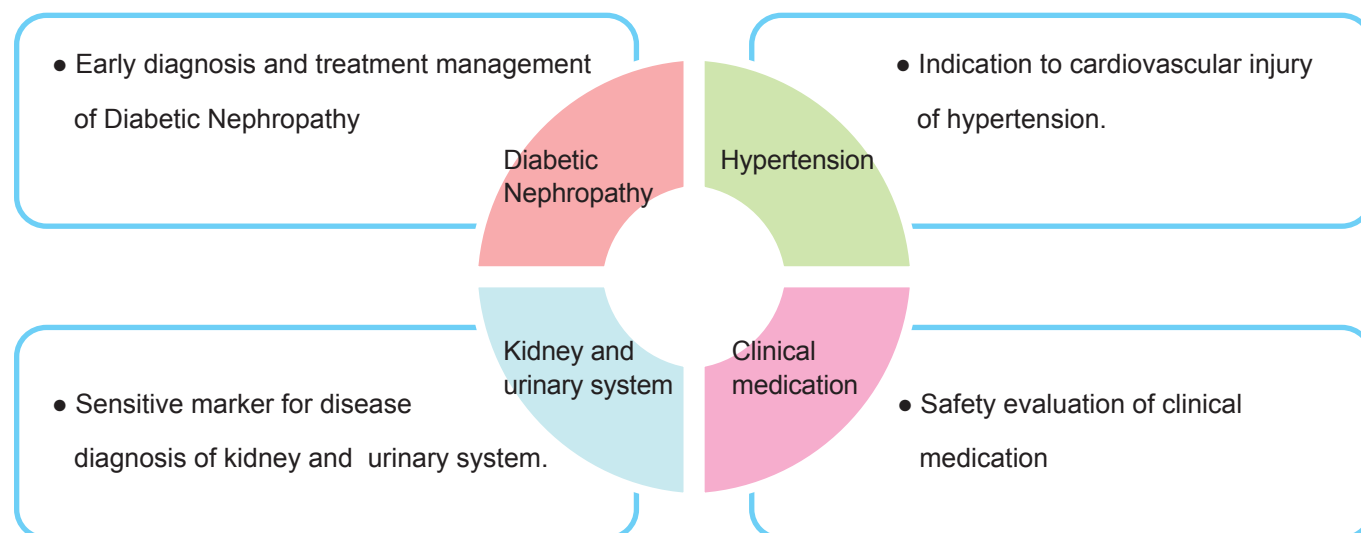


Performance:

Reaction time	10 minutes
Specimen volume	10 uL
Linear range	5 – 300mg/L
Specimen	Urine
Precision	CV≤15%



Application:



HbA1c Rapid Quantitative Test

HbA1c

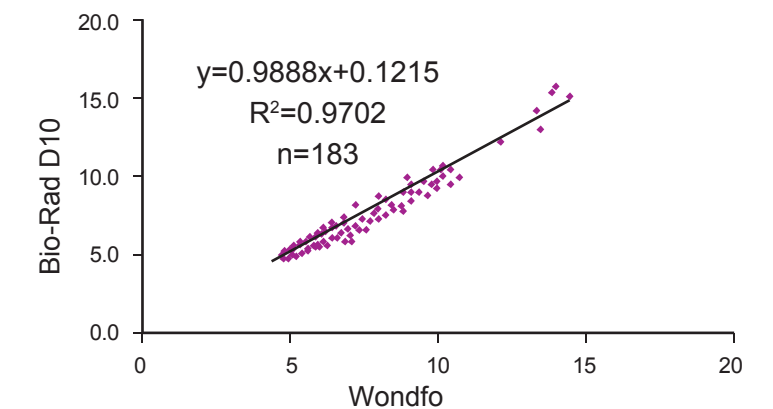
HbA1c is the product of the hemoglobin combining with blood glucose in red blood cells, which can reflect the average blood glucose level 2 ~ 3 months prior to the measurement. HbA1c is the "gold standard" of evaluation for long-term blood glucose controls. Wondfo HbA1c Rapid Quantitative Test applying sandwich fluorescence immunoassay technology can achieve high sensitivity and specificity.

Characteristic:

- Simpler: Immunofluorescence technology—rapid and convenient operation procedure
- Higher sensitive: Fluorescence signaling cascade enhancement technology—accurate detection for low concentration of analyte.
- More accurate: IQC/EQC- double quality control technology—Minimizing system/random errors
- Better time fault tolerance—no remarkable difference in 5-30min test results

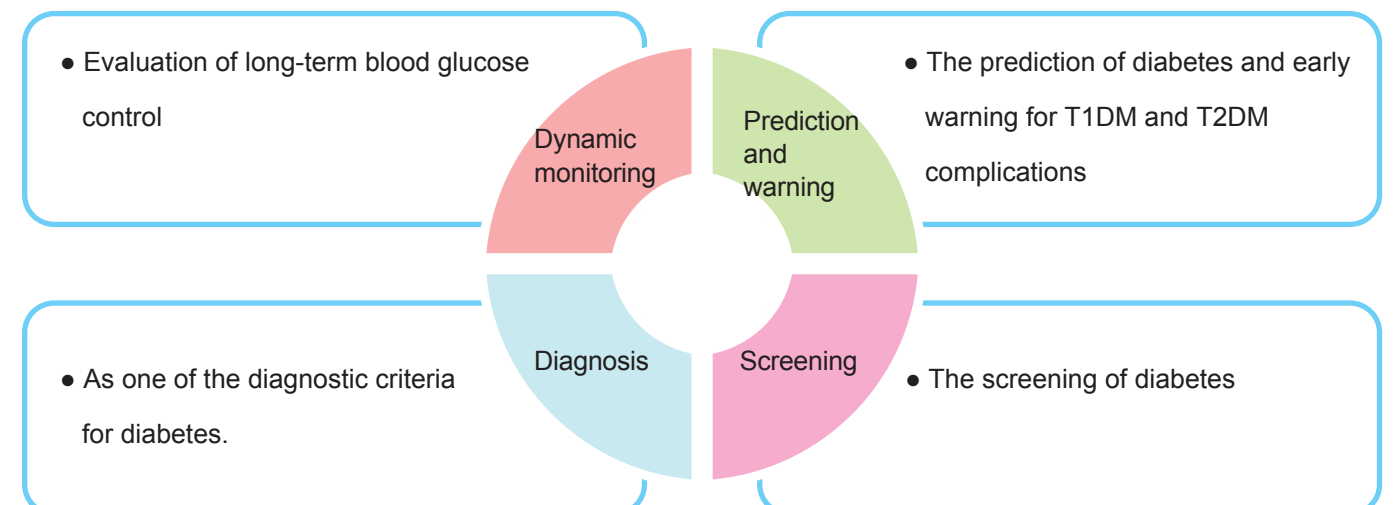
Performance:

Performance	Technical Specifications
Reaction time	5 minutes
Test time	10 seconds
Linear range	4.5 ~ 14.5%
Cutoff value	6%
Precision	CV < 10%



Compared with 183 test results of HbA1c specimens (whole blood) conducted by Bio-Rad D10 automatic analyzer, Wondfo Finecare™ FIA System has high accuracy in HbA1c test (4.5~14.5%), the correlation $R^2 > 0.97$, which can satisfy the clinical requirement.

Application:



AFP

AFP (Alpha Fetal Protein) Rapid Quantitative Test

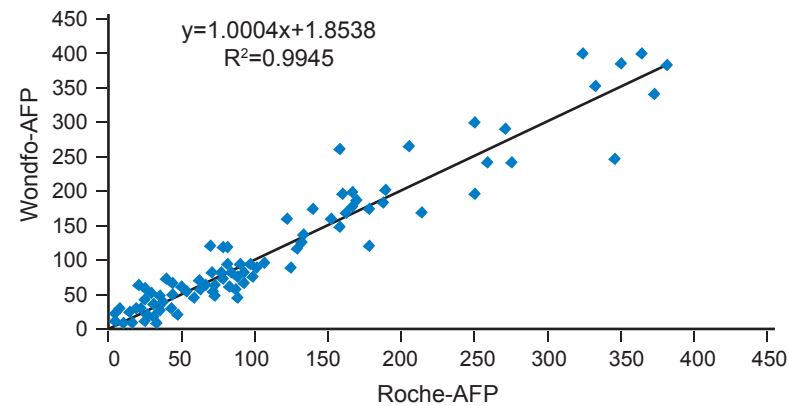
AFP is a glycoprotein, mainly coming from embryo liver cells. AFP is the most sensitive and specific indicator for primary liver cancer diagnosis. Wondfo AFP Rapid Quantitative Test applying sandwich fluorescence immunoassay technology can achieve high sensitivity and specificity.

Characteristic:

- Accurate quantification
- Rapid test, result in 15 minutes
- The most sensitive and specific indicator for primary liver cancer
- AFP control

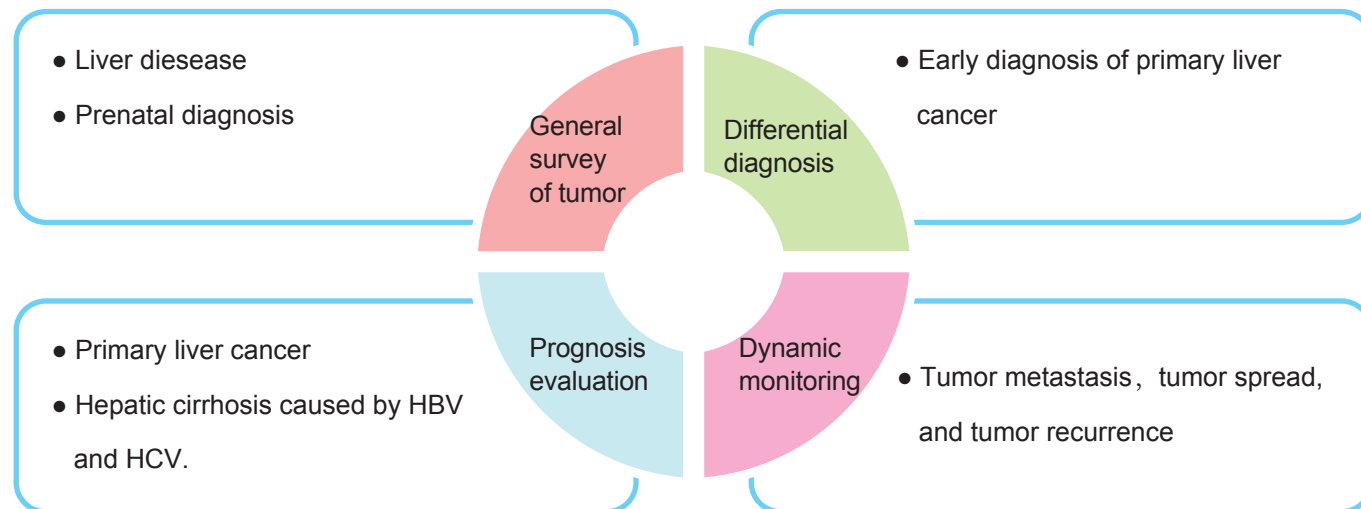
Performance:

Reaction time	15 minutes
Test time	10 seconds
Linear range	5 – 350 ng/mL
Cutoff value	20 ng/mL



Compared with 629 test results of AFP specimens conducted by Roche, Wondfo Finecare™ FIA System has high accuracy in AFP test (5-350 ng/ml), the correlation $R^2=0.9945$, which can satisfy the clinical requirement.

Application:



PSA

PSA (Prostate Specific Antigen) Rapid Quantitative Test

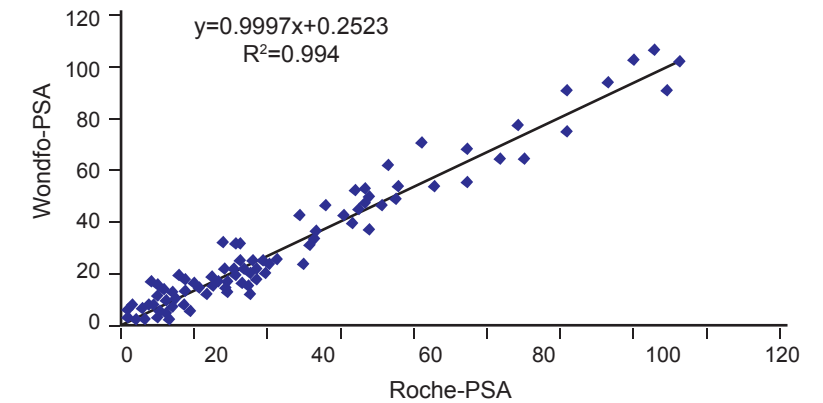
PSA is a glycoprotein, secreted by the prostate epithelium. The normal value of PSA in serum is lower than 4ng/mL. Wondfo PSA rapid quantitative test applying sandwich fluorescence immunoassay technology can achieve high sensitivity and specificity.

Characteristic:

- Accurate quantification
- Rapid test, result in 15 min
- PSA control

Performance:

Reaction time	15 minutes
Test time	10 seconds
Linear range	2– 100 ng/mL
Cutoff value	4 ng/mL
Precision	CV≤ 15%



Compared with 829 test results of PSA specimens conducted by Roche, Wondfo Finecare™ FIA System has high accuracy in PSA test (2-100 ng/ml), the correlation $R^2=0.994$, which can satisfy the clinical requirement.

Application:

