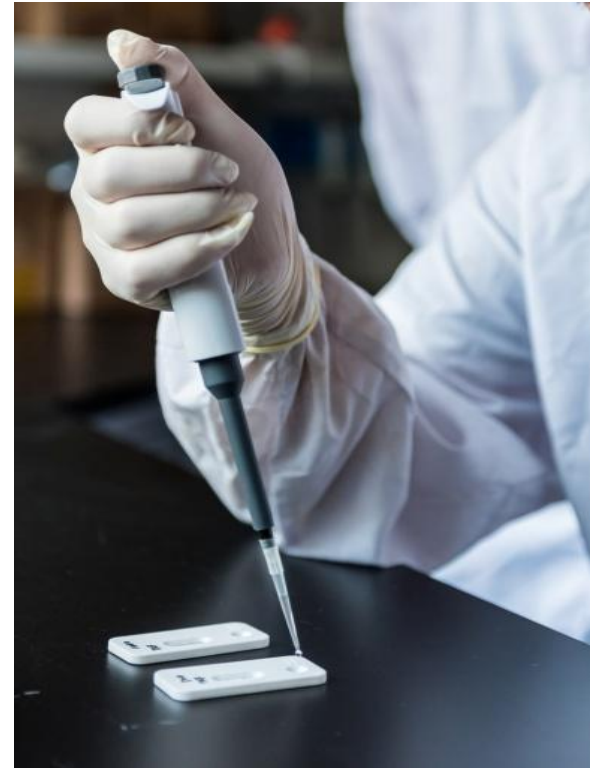


# BEIXIER PCT

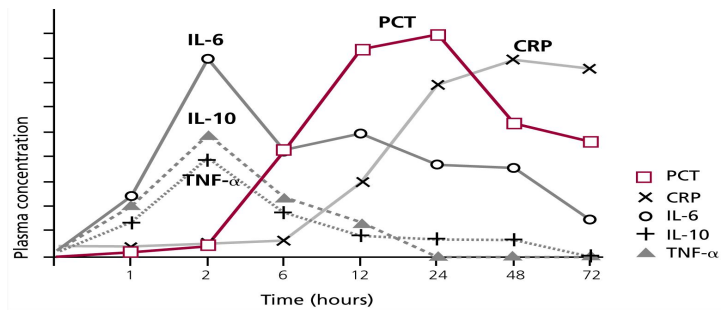
Procalcitonin detection kit  
(colloidal gold  
immunochromatography)



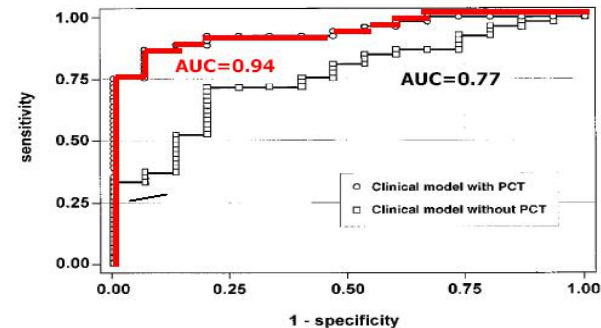
Hunan beixie'er Biotechnology Co., Ltd

# Clinical significance

## 1.PCT can be used for the diagnosis and differential diagnosis of bacterial infection and the best diagnostic index of bacterial infection and sepsis



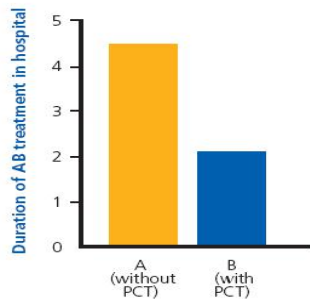
The rapid increase of PCT concentration after bacterial infection: PCT has the highest specificity and sensitivity for the diagnosis of sepsis.



In contrast: IL-6, IL-8 or CRP did **not** have any impact on the accuracy of clinical diagnosis !

After adding PCT to the diagnostic criteria, the diagnostic accuracy was improved from 0.77 to 0.94. Compared with the traditional inflammatory indexes such as CRP, IL-6 and lactates, PCT has a larger area under the ROC curve, reflecting more advantageous diagnostic sensitivity and specificity.

## 2. PCT can dynamically monitor the infection status and treatment effect of patients and guide the use of antibiotics



PCT guidance on the use of antibiotics: it is not necessary to use antibiotics after the elimination of bacterial infection. Antibiotics can be stopped if the concentration of PCT < 0.5 ng / ml, which can reduce the use of antibiotics.

## 3.PCT can predict prognosis

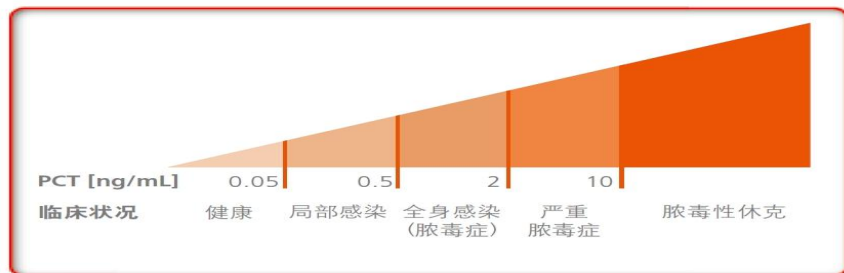
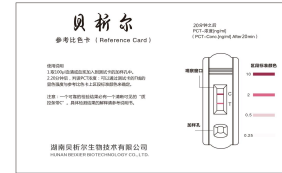


图1 PCT的增长反映了一个从健康状态到疾病的最严重状态(严重脓毒症和脓毒性休克)的持续发展。

significance	PCT (ng/ml)
normal person	0.05~0.1
Viral infection, chronic inflammatory response and autoimmune diseases	0.1~0.25
There may be mild local bacterial infection and early bacterial infection	0.1~0.25
Mild to moderate local bacterial infection	0.25~0.5
Severe bacterial infection, SIRS, multiple injury, burn	0.5~2
Severe bacterial infection	≥2
Very serious bacterial infection, multiple organ failure	≥10ng

## Product advantages

### 1. Quantitative or semi quantitative measurement to truly realize rapid bedside detection.



Quantitative: detect with instruments to obtain accurate quantitative results. quickly by referring to the color card.

Semi quantitative: get semi quantitative results

2. Accurate and reliable: conduct bias analysis with procalcitonin detection kit (Electrochemiluminescence Method) (Elecsys Brahms PCT) of Roche Diagnostics GmbH. the Bland Altman diagram is as follows. Result analysis and interpretation: 95% scatter points are distributed within  $\pm 1.96sd$ , and the mean line is close to 0, indicating that the measurement results of the two systems are very close and have good consistency.

### 3. Domestic products, imported quality and high cost performance: reduce testing cost and reduce patient burden.



Independent research and development, intensive cultivation;  
High quality and low price, attentive service.





## Description

### [product name]

Procalcitonin detection kit (colloidal gold immunochromatography)

### [package specification]

20 people / box, 100 people / box.

### [intended use]

The kit is suitable for semi quantitative or quantitative detection of procalcitonin in human serum and plasma samples in vitro

The concentration of (procalcitonin, PCT) is clinically used for the auxiliary diagnosis of bacterial infectious diseases.

### [inspection principle]

The reagent uses colloidal gold double antibody sandwich method to detect the content of PCT in serum or plasma.

### [storage conditions and validity period]

It is stored in sealed state at 2 ~ 40 °C, and the validity period is 18 months.

### [applicable instruments]

The fluorescence / colloidal gold immunoquantitative analyzer produced by Hunan beixie'er Biotechnology Co., Ltd. is BXE-QUANT 100;

### [sample requirements]

The applicable sample types of this kit are whole serum and plasma.

### [reference interval]

PCT < 0.25ng/ml, negative;

PCT ≥ 0.25ng/ml, positive.

**Simple, convenient  
and accurate**

- Hunan Beixier Biotechnology Co., Ltd
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- room 504, building 8, jindaoyuan phase I industrial plant, No. 169, Huizhi Middle Road, high tech Development Zone, Changsha, Hunan, China
- Contact:
- (0731) 88305496
- Website:
- [www.beirsw.com](http://www.beirsw.com)
- Product registration certificate No.:湘械注准 20192400071