

How will you contribute to the reduction of antibiotic resistance?

Hematology CRP Analyzer

Pentra MS CRP •

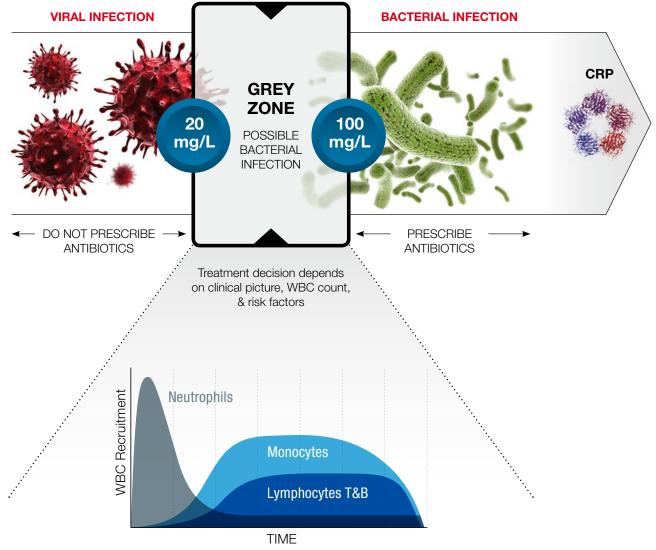


HORIBA

Explore the future

Automotive Test Systems | Process & Environmental | Medical | Semiconductor | Scientific

Make the right decision in the prescription of antibiotics



Modified from «Simon A. Jones. J Immunol 2005; 175:3463-3468;»

GUIDANCE AGREEMENT OF 4 INDEPENDENT WORKING GROUPS :

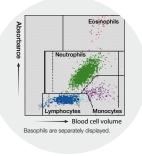
- Nat. Health Clin. Excellence (NICE). Guidance for pneumonia 2014
- Verlee L. et al. Summary of Dutch GP practice guideline. Ned Tijdschr Geneeskd 2012;156:A4188
- Little P. et al. multinational trial on antibiotic prescribing rates (GRACE Study), Lancet 2013;382:1175-82
- Woodhead M. et al. Guidelines for the management of adult lower respiratory tract infections (ERS), Clin Microbiol Infect 2011; 17(Suppl 6):E1-59

Cooke J, Butler C, Hopstaken R, et al. Narrative review of primary care point-of-care testing (POCT) and antibacterial use in respiratory tract infection (RTI). BMJ Open Resp Res 2015;2: e000086.

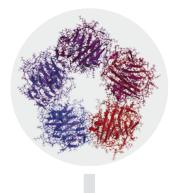
Measure simultaneously 2 WBC differential and CRP...



26 hematology parameters







CRP measurement

...with rapid results and micro sampling

Measurement of WBC differential and CRP in just 3 minutes with 35µL of whole blood with EDTA

CRP measurement

Proven and exclusive immunoturbidimetry technology for rapid and accurate patient diagnosis.





Buffer inhibits

all antigens,

except CRP

Hemolysis reagent lyses RBC

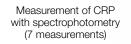


Latex reagent

agglutinates

CRP on beads





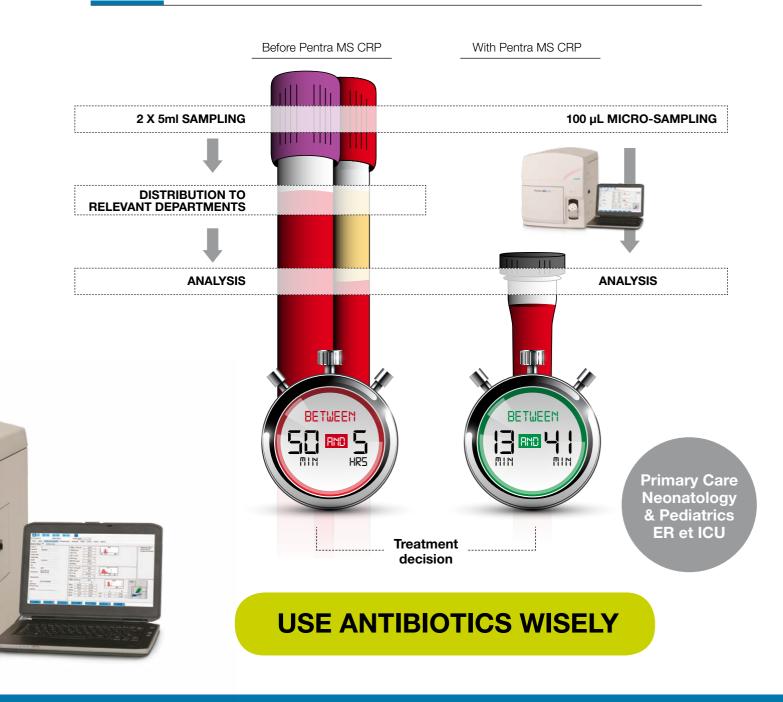




Before, we were outsourcing all tests. [...] Now, we have a CBC+CRP analyser in our treatment room that the nurses can operate.

Dr Utsunomiya, Amayama Hospital, Japan.

3 Take faster and accurate decision



Baum H. et al.

« Optimizing the turn-around-time of CRP measurement in the emergency setting by using the Microsemi® analyzer » AACC 2014



How will you contribute to the reduction of antibiotic resistance?

NHS

Antimicrobial resistance poses a catastrophic threat.

If we don't act now, any one of us could go into hospital in 20 years for minor surgery and die because of an ordinary infection that can't be treated by antibiotics. And routine operations like hip replacements or organ transplants could be deadly because of the risk of infection.

That's why governments and organizations across the world, including the World Health Organization and G8, need to take this seriously.

Professor Dame Sally Davies UK Chief Medical Officer

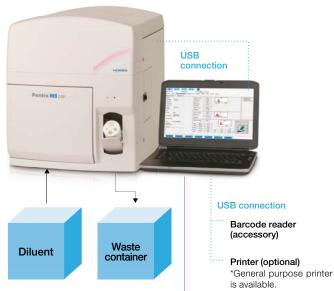


Pentra MS CRP Hematology CRP Analyzer

RESULT DISPLAY

ext Sample ID	Patient Nome	Testing GBT					
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COMPOSITION



Note: The accessory barcode reader uses IEC class 2 laser. Never look through the indication window or look straight at laser beam. Ethernet is a registered trademark of Fuji Xerox Co., Ltd.

Ethernet[™] Advanced network communication (LIS/HIS)

BASIC SPECIFICATION

Measurement Subject

DIFF mode, QC (DIFF) mode: whole blood DIFF+CRP mode, QC (DIFF+CRP) mode: whole blood, serum, plasma

Sample Quantity

DIFF mode, QC (DIFF) mode: 26µL DIFF+CRP mode, QC (DIFF+CRP) mode: 35µL

Measurement Mode

DIFF mode, DIFF+CRP mode, QC (DIFF) mode, QC (DIFF+CRP) mode

Sampling Method

Open-vial, tube holder method

Measurement Parameter

WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, PDW, PCT, MPV, LYM%, LYM#, MON%, MON#, NEU%, NEU#, EOS%, EOS#, BAS%, BAS#, ALY%, ALY#, LIC%, LIC#, CRP

Measurement Principle

WBC, RBC, HCT, PLT, BAS: Impedance LYM, MON, NEU, EOS, ALY, LIC: Impedance and absorbance HGB: Photometry, wavelength 550 nm CRP: Absorbance measurement, wavelength: 660 nm

Throughput

DIFF mode, QC (DIFF) mode: approx. 60 samples/hour DIFF+CRP mode, QC (DIFF+CRP) mode: approx. 20 samples/hour

Measurement Condition

Instrument operating temperature: 18 to 30 °C Relative humidity: 80% maximum without condensation Altitude: maximum 2000m

SPECIFICATION OF ANALYZER

Dimensions & Weight (approximate)

Height Width Depth Weigl 516mm 445mm 580mm 38kg Weight Analyser Protection: Class I Power supply: AC100 +/- to 240V (within 10%), 50/60Hz Power Consumption: 160W (200VA) Interface: USB connector (for PC connection)

INPUT/OUTPUT

Tube holder cover (measurement start) PC*, (Keyboard, mouse and barcode reader) Printer (general-purpose printer used with Windows PC) Removable media (media used with Windows PC) Sample ID Alphanumeric characters and hyphen (maximum: 16 characters) Display PC display, power indicator Sensor Reagent level (diluent, lyse, CRP reagent),waste level, temperature (CBC reaction chamber and CRP cooling unit, inside unit)

Communication Specification

Format ABX, ASTM Interface Ethernet, RS-232C (USB transmutable) Direction Unidirectional, bidirectional

Memory

Result: 1000 results x 500 files Calibration result: 11 results x 6 lots x 2 types QC result: 400 results x 6 lots x 4 types XB result: 20 results x 60 batches

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