Decoding the Host Response to Infection

Clinicians must make decisions in the face of diagnostic uncertainty. We are working to change that.

SEPSIS

A life-threatening syndrome caused by a dysregulated host response to infection

A global healthcare crisis affecting over 48 million people each year

A treatable condition when diagnosed early

TRIAGE





39-year-old female patient heads to the emergency room with chief

- Standard lab work is collected and sent to lab

Temperature: 37.5°C **Pulse: 103 Blood Pressure:** 105/80 Respiratory **Rate: 19**

complaint of pain on her right side.



SUSPECT

- Blood sample collected for **CBC-Diff**
- Urine sample collected
- Automatic reflex to additional tests

Patient worsens and is transferred to the intensive care unit.

HEMATOLOGY

- ▲ ELEVATED WBC
- ▲ ELEVATED MDW

URINALYSIS

▲ ELEVATED WBC

Sepsis suspected.

▲ ELEVATED Bacterial Count

DIAGNOSE

- Further testing is performed
- Automatic reflex to additional tests

Patient started on broad spectrum antibiotic ceftriaxone.

CHEMISTRY & IMMUNOASSAY

- ▲ ELEVATED Lactic Acid
- ▲ ELEVATED CRP
- ▲ ELEVATED PCT
- ▲ ELEVATED IL-6

CONFIRM

- Microbial analysis identifies ESβLproducing E. coli
- Patient switched to

MICROBIOLOGY

Pathogen Identified as an ESβL-producing E. coli.

meropenem

Patient's condition improves and she is moved to noncritical care unit.

Patient is discharged home within a few days.

Innovations to help clinicians decode the immune response for improved diagnostic uncertainty and antimicrobial stewardship.

Now is the time to SUSPECT, DIAGNOSE, and CONFIRM sepsis with the help of Beckman Coulter solutions in your laboratory.







Learn more at beckmancoulter.com/ sepsis-management

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