Healthcare-associated infections (HAIs) and temporal changes in bacterial resistance to antibiotics have become major health issues. Overuse of antibiotics or systematic broad-spectrum antibiotic therapy prescribed to patients before obtaining test results strongly encourages bacterial resistance to antibiotics and increases the risk of infection.

In order to provide the appropriate therapy, an efficient communication system driven by the microbiology laboratory needs to be set up in close relation with the laboratory itself, infection control and the hospital department.

To answer this need, BD has developed BD EpiCenter™, a UNIQUE solution for microbiology laboratories to communicate and track all the information needed by every professional involved in the diagnosis of infectious diseases, the monitoring of bacterial ecology and patient treatment.
Efficient diagnosis of infectious diseases

- Rapid identification of infected patients with transmissible pathogens to ensure the appropriate infection control measures
- Cross-checking of the patient’s antibiotherapy with the tests performed by the laboratory in order to adjust patient treatment when necessary
- Guide in the choice of empirical antibiotic therapy
- Maintenance of internal staff education on infection diseases

A patient-monitoring system consolidating all tests performed by the microbiology laboratory and their entire lifecycles

- Flexibility in identifying, tracking and reporting resistance mechanisms and transmissible pathogens
- Customisable alerts and parameterised interpretative susceptibility charts ensuring "Level 4" predictions
- An accurate electronic monitoring hospital microbiology to monitor antibiotic resistance and trends based on real MICs

The most frequently used indicator of efficiency is turnaround time(1). Moreover, clinical satisfaction with services is often related to the timeliness of test results, because of their effect on treatment, particularly in critical care settings(2) (including Gram Stain, full culture results, MDR alert, etc).


Enhance data access with multiple BD EpiCenter™ workstations within the hospital network with no compromise on information quality

- Create direct communication of "Sentinel events" (MRSA, MDR, etc) utilising existing e-mail system, pda or SMS
- Control and prioritise the delivery of all results (including direct examinations, cultures, alerts… ) to the hospital and infection control departments
- Reduce the time spent from the ordering of the test to availability of samples or result (TAT: Turn around Time) to optimise patient treatment

For better monitoring of healthcare associated infection and improved patient treatment and antibiotherapy

-... The Right Information
-... The Right Communication Process
-... For The Right Decision