Antimicrobials are a mainstay of modern medicine…

… but decades of outmoded prescribing practices and extensive use of antimicrobials in food production have driven a rise in organisms that are resistant to these life-saving drugs. Antimicrobial-resistant infections create life-threatening hazards for patients and substantially increase the cost of delivering quality healthcare. Appropriate medical procedures and use of medical device and diagnostic technologies can slow the growth of antimicrobial resistance (AMR) by reducing the risk of HAIs and helping to ensure that antimicrobials are properly prescribed to patients, supporting strengthened antimicrobial stewardship.

BD possesses important capabilities…

… that are instrumental in containing AMR. We offer a wide range of medical products utilized to prevent the spread of infection in healthcare facilities; diagnostic instruments to screen, test and diagnose infection, including drug-resistant strains; and medication management and surveillance systems to support the safe and proper administration and tracking of medications. We possess deep expertise in how these products and systems are utilized in support of a comprehensive and integrated approach to AMR management in healthcare facilities. And BD is highly experienced in partnering with health agencies, systems and facilities to improve healthcare processes and medical practice. Working together, we can advance the capabilities necessary to contain and combat AMR, reducing this threat to the health and well-being of the world’s population.

Partnering to combat AMR
Support infection control guidelines
Systematic infection prevention and control practices and procedures reduce the incidence of healthcare-associated infections (HAIs) and the spread of antimicrobial-resistant organisms. Comprehensive product and service offerings from BD help clinicians improve patient outcomes through an evidence-based framework of care and adherence to best practices.

Integrated vascular access management
Reduce bacteria that can cause infections with appropriate preparation of the skin. Reduce vascular access complications with an integrated approach to the insertion and maintenance of the catheter.
• Clear single-use skin antiseptic applicators
• IV catheter solutions
• Prefilled IV flush syringes
• Antimicrobially treated IV dressings
• Needleless IV access connectors

Standardized surgical preparation
Reduce bacteria during presurgical skin preparation with appropriate antimicrobial agents. Comprehensive product and service offerings from BD help clinicians improve patient outcomes through an evidence-based framework of care and adherence to best practices.
• Antimicrobial IV dressings
• Prefilled IV flush syringes
• Foley catheters and insertion trays
• Preoperative scrub brushes
• Presurgical hair removal clippers
• Needleless IV access connectors

Expand diagnostic testing
Diagnostic tests clarify infections and guide therapies, enabling clinicians to implement effective antimicrobial stewardship interventions. BD platforms provide diagnostic results to help rapidly respond to major drug-resistant threats highlighted by the World Health Organization and U.S. Centers for Disease Control and Prevention.

Sample acquisition
Improve sample-quality and specimen integrity by properly acquiring and managing samples for testing.
• Urine specimen management
• Blood draw

Accurate patient screening
Reduce the risk of HAIs by efficiently identifying patients colonized with resistant organisms.
• Automated molecular diagnostic systems
• Prepared plated media for isolation of selected organisms
• Automated preparation and screening for plated media

Rapid detection and identification of infectious agents
Guide therapy and prevent unnecessary antimicrobial use by identifying the cause of infection.
• Panels of care diagnostic testing
• Identification systems
• Automated culture systems
• Laboratory automation with microbial imaging applications

Precise susceptibility testing
Optimize the patient treatment plan by determining the specific antimicrobials that inhibit or kill pathogenic bacteria.
• Automated susceptibility testing systems
• Antimicrobial susceptibility test disks
• Automated workflow and drug susceptibility testing for laboratories

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Advancing infection prevention and surveillance
Enhanced infection surveillance and analytics
Empower health systems with surveillance and analytics support to identify and report infections, translate data into insights for HAI management, and detect potential outbreaks and drivers of resistant organisms and other important pathogens.
• Near-real-time infection identification and facilitation of intervention
• Emerging trends of isolated organisms
• Risk-adjusted infection prevention and performance benchmarking

Streamlined antimicrobial use and resistance reporting
Help integrate infection prevention, hospital epidemiology, antimicrobial stewardship, and infection surveillance efforts through on-demand, standardized evaluation and reporting of antimicrobial use and resistance. BD MedMined® Medication Stewardship Advisor helps expand and foster an integrated antimicrobial stewardship program for pharmacists, physicians, microbiologists and infection preventers.
• Hospital-specific, regional and national comparative antimicrobial use and resistance reports
• Data analytics for AMI decision-making, including epidemiological and temporal trend analysis
• Trending, tracking and comparison of C. difficile rates

Enterprise inventory optimization
Support patient care by providing facilities with visibility to their medications through a central view of inventory, orders and usage across the health system.
• Enterprise inventory management platform integrates with automated dispensing cabinets to help minimize the risk of stockouts and helps to ensure medications are available when needed
• Pharmacy operations dashboard combines critical data from BD technologies, including pharmacy surveillance notifications, into a single view to proactively respond to medication needs

Combating AMR in healthcare settings
Strengthening prevention, diagnosis and surveillance
A connected medication management system comprised of technologies, analytics and surveillance tools can help ensure that medications are available and clicked appropriately.
When combined with an enterprise surveillance solution, health systems can identify infections, optimize processes for prevention and streamline antimicrobial stewardship programs with the goal of improving outcomes.