

Antimicrobial Resistance (AMR)



What is Antimicrobial Resistance?

Antimicrobial Resistance (AMR) -- also known as "Drug Resistance" -- is the ability of microorganisms, such as bacteria, viruses, fungi, and parasites, to survive and multiply in the presence of drugs that are designed to kill them or stop their growth.

Why is Antimicrobial Resistance a problem?

AMR is a serious threat to public health and global development, as it can make common infections harder to treat, increase the risk of complications and death, and spread to other people or animals. AMR can also compromise the effectiveness of medical procedures that rely on antibiotics, such as surgery, chemotherapy, organ transplantation, and more.

What Causes Antimicrobial Resistance?

AMR is driven by several factors, including the misuse or overuse of antimicrobial drugs. Lack of diagnostic testing that can identify the causative agent and its susceptibility profile before prescribing antimicrobial therapy can lead to inappropriate use of antibiotics that may not be effective or necessary for the infection.

PCR-Based Antimicrobial Resistance Testing

GRI's PCR-based AMR test detects the presence of specific genes or mutations that confer resistance to certain antibiotics in microorganisms. Our AMR test provides fast and accurate results to guide the appropriate choice of antimicrobial therapy and inform infection prevention strategies. This testing can also help monitor the emergence and spread of resistant strains in different settings.

Control Drug Costs

By choosing the right antibiotic first, healthcare providers and payers are able to save money by avoiding the need to pay for unnecessary antimicrobial treatments.

Wide Support of Antimicrobial Classes

GRI's AMR test covers a wide range of drugs across the following antibiotic classes:

- Aminoglycoside
- Beta-lactam
- Colistin
- Glycopeptide
- Macrolide
- Quinolone
- Sulfonamide
- Tetracycline
- Trimethoprim

Efficient, Reliable, and Friendly Clinical Testing

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