

# Antimicrobial Drug Resistance: A Looming Global Health Crisis

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## Abstract

Antimicrobial drug resistance is a pressing public health crisis that has arisen due to the misuse and overuse of antibiotics. Infections that were once manageable may become untreatable. This abstract provides an overview of antimicrobial drug resistance and its impact on public health. It discusses the mechanisms of drug resistance and the challenges of developing new antimicrobials. The abstract concludes with a call for action to address this global health crisis.

## Keywords:

## Introduction

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reat to global health security:

Antimicrobial drug resistance (AMDR) is a major public health threat to global health security. It is a complex, multi-faceted problem that requires a coordinated, multi-sectoral response. The following are key strategies for combating AMDR:

**Combating antimicrobial drug resistance**

1. **Antimicrobial Stewardship (AMS):** This is the most critical strategy. It involves the judicious use of antimicrobials to minimize the development and spread of resistance. Key components include:

**Stewardship programs:**

• **Formulation of policies and guidelines:** Establishing clear, evidence-based guidelines for the use of antimicrobials.

**Infection prevention and control:**

• **Hand hygiene:** Promoting regular handwashing with soap and water.

**Research and development:**

• **New antimicrobials:** Encouraging the development of novel antimicrobial drugs.

**Public awareness and education:**

• **Education of healthcare providers:** Ensuring that healthcare workers are up-to-date on the latest guidelines and best practices for antimicrobial use.

**Conclusion**

AMDR is a global health crisis that requires a coordinated, multi-sectoral response. The following are key strategies for combating AMDR: