



## AMR Guardians of Tomorrow

### Educational Resources for UG/PG Pharmacy students on Antimicrobial Resistance (AMR)

Antimicrobial resistance (AMR) is a global health crisis threatening our ability to treat common infections. The World Health Organisation (WHO) has warned that, if left unchecked, AMR could lead to a post-antibiotic era where common infections and minor injuries could become life-threatening. This underscores the urgent need for concerted efforts to address AMR through education, awareness, and the implementation of antimicrobial stewardship practices.

Recognising the critical role that healthcare professionals play in addressing AMR, particularly within the field of pharmacy, this compilation of educational resources is designed to equip pharmacy students with the information necessary to address this pressing public health crisis.

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#### Informational Videos:

1. Fight Antibiotic Resistance with Superheroes against Superbugs | [YouTube](#)
2. Be a Superhero against Superbugs | [YouTube](#)
3. How can we solve the antibiotic resistance crisis? | [YouTube](#)
4. The drugs don't work | TED talk by Sally Davies | [YouTube](#)
5. What do we do when antibiotics don't work anymore? | [YouTube](#)
6. Why should we care about antibiotic resistance? | [YouTube](#)

#### ICMR Guidelines

1. Antimicrobial Resistance Research and Surveillance Network | ICMR Report, 2022 | [PDF](#)
2. Antimicrobial Stewardship Program Guidelines | ICMR | [PDF](#)
3. Hospital Infection Control Guidelines | ICMR | [PDF](#)
4. AMR Treatment Guidelines 2022 | ICMR Mobile App | [Play Store](#)
5. Treatment guidelines for antibiotic use in Common Syndromes | ICMR, 2019 | [PDF](#)

#### Regulations by Government of India

6. Measures Taken to Rising Antimicrobial Resistance in The Country | PIB Delhi, 2021 | [Press Release](#)
7. Rules for selling of Drugs under schedule H1 | PIB GOI | [Press Release](#)
8. National Policy on Containment of Antimicrobial Resistance in India, 2011 | [PDF](#)

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### **Global Reports on AMR**

9. Global burden of bacterial antimicrobial resistance 1990–2021: a systematic analysis with forecasts to 2050 (popularly known as the GRAM study) | The Lancet 2024 | [Link](#)
10. Antimicrobial resistance and its containment in India | WHO Report, 2016 | [PDF](#)

### **Research studies on AMR in India**

11. Sale of antibiotics without prescription in stand-alone pharmacies in Tamil Nadu | Journal of Family Medicine and Primary Care, September 2022. | [Article](#)
12. Over-the-Counter Sale of Antibiotics in India: A Qualitative Study of Providers' Perspectives across Two States | 2021 | [PMC Article](#), [PDF](#)

### **Blogs and Articles**

13. Unveiling the Alarming Trends in AMR in India | [Blog](#)
14. Viral vs. Bacterial: Why Antibiotics Fail the Flu? | [Blog](#)
15. Know your Superbugs: AMR Menace in Wastewater | [Blog](#)
16. Supercomputers vs Superbugs: Can AI help us fight AMR ? | [Blog](#)
17. Bacteria can develop resistance to bacteria they haven't encountered before | [Article](#)
18. The challenge of AMR in the Indian Healthcare system | [Editorial](#)

### **Games**

19. No antibiotics in our food! | [PDF](#)
20. [Know your microbes](#) | [PDF](#)
21. [ArMoR](#) | [Online game](#)

### **Online Courses**

[WHO Open Access Online Courses on AMR](#)  
[AMR - Theory and Methods](#) | [Coursera](#)

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