

# Your role in antimicrobial stewardship (AMS)

Everyone can be involved in AMS and help reduce antimicrobial resistance (AMR)

## Physicians<sup>1</sup>



- Order appropriate and mandatory laboratory tests before prescribing antibiotics<sup>2</sup>
- Review prescribed antibiotics at 48 hours<sup>3</sup>
  - Will the infection respond to treatment?
  - Is the patient receiving the correct antibiotic, dose and route of administration?
  - How long should treatment last?
  - Are there available data to guide continuation of empirical therapy or targeted antimicrobial agents?
  - Can a more targeted drug be used?
- Create prescribing guidelines and clinical pathways<sup>4</sup>
- Train other staff about AMS<sup>4</sup>



## Clinical microbiologists<sup>1</sup>



- Provide precise and timely reports of culture, serological and rapid testing results
- Prepare and support publication of antimicrobial susceptibility reports<sup>4</sup>
- Create local antibiogram to guide empiric therapy<sup>4</sup>
- Provide surveillance data on resistant organisms<sup>4</sup>



## Infection prevention control officer<sup>1</sup>



- Monitor and prevent healthcare-associated infections<sup>3</sup>
- Advocate infection control concepts and procedures, including AMS, to all healthcare workers



## Pharmacists<sup>1</sup>



- Preauthorize certain antibiotics<sup>4,5</sup>
- Audit, review and feedback<sup>4</sup>
- Identify opportunities for optimized dosing, de-escalation and IV-to-oral conversion<sup>4,5</sup>
- Ensure only drugs with a prescription are dispensed
- Train other staff about AMS<sup>4,5</sup>



## Hospital administrators



- Provide resources and policy support<sup>4</sup>



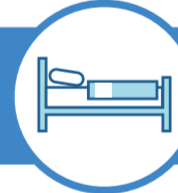
## Nurses



- Encourage responsible use of antimicrobials<sup>6,7</sup>
- Monitor adverse events<sup>6-8</sup>
- Infection prevention and control measures<sup>6,8</sup>
- Educate new ward staff and patients about AMR and the importance of hygiene<sup>6,7</sup>



## Patients



- Be educated about AMR and how to take antibiotics correctly<sup>9</sup>
- Adhere to proper hand washing and other hygiene measures<sup>9</sup>



## References

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