

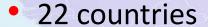


Strengthening Infection Prevention and Control Activities and Embedding IPC in AMR NAP implementation

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Countries in the WHO Eastern Mediterranean Region



- 731 mill population
- Varied economic and health system status
- 2/3 countries in crisis situation
 - fragile health systems
 - limited resources
 - competing health priorities

Countries in the WHO Eastern Mediterranean Region

Afghanistan

Bahrain

Djibouti

Egypt

Iran

Iraq

Jordan

Kuwait

Lebanon

Libya

Morocco

Oman

Pakistan

Qatar

Saudi Arabia

Somalia

Sudan

Syrian Arab Republic

Tunisia

United Arab Emirates

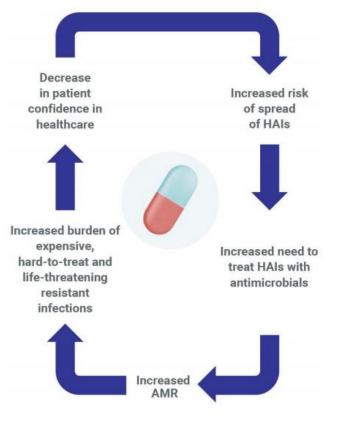
Yemen





AMR and Infection Prevention & Control (IPC)

Achieve implementation/improvement of the full requirements of all core components to effectively reduce HAIs and AMR



Source: https://www.who.int/infection-prevention/tools/IPC AMR A4.pdf?ua=1



"Strong IPC is vital for protecting health, stopping the spread of drug resistance bacteria and preparing for and responding to outbreaks."

Dr Tedros Adhanom Ghebreyesusand, Director General WHO

 Without effective IPC, it is impossible to achieve quality health care delivery and the capacity to respond to outbreaks is severely compromised





Overall healthcare-associated infections in high risk patients, 1995-2010 – meta-analysis

High-income countries

Overall HAI: 17.0/1000 pt-days

• CR-BSI: 3.5/1000 cath-days

• CR-UTI: 4.1/1000 cath-days

• VAP: 7.9/1000 vent-days

Low- and middle-income countries

· Overall HAI: 47.9/1000 pt-days

• CR-BSI: 12.2/1000 cath-days

• CR-UTI: 8.8/1000 cath-days

VAP: 23.9/1000 vent-days

at least X 2-3

up to 13 times higher in some countries

WHO Report on the Burden of Endemic Health Care-associated Infection Worldwide





Global AMR Action Plan-Strategic Objectives



- 1. Improve awareness and understanding of AMR through effective communication, education and training
- Strengthen the knowledge and evidence base through surveillance and research
- 3. Reduce the incidence of infection through effective sanitation, hygiene and infection prevention measures
- 4. Optimize the use of antimicrobial medicines in human and animal health
- 5. Develop the economic case for sustainable investment in new medicines, diagnostic tools, vaccines

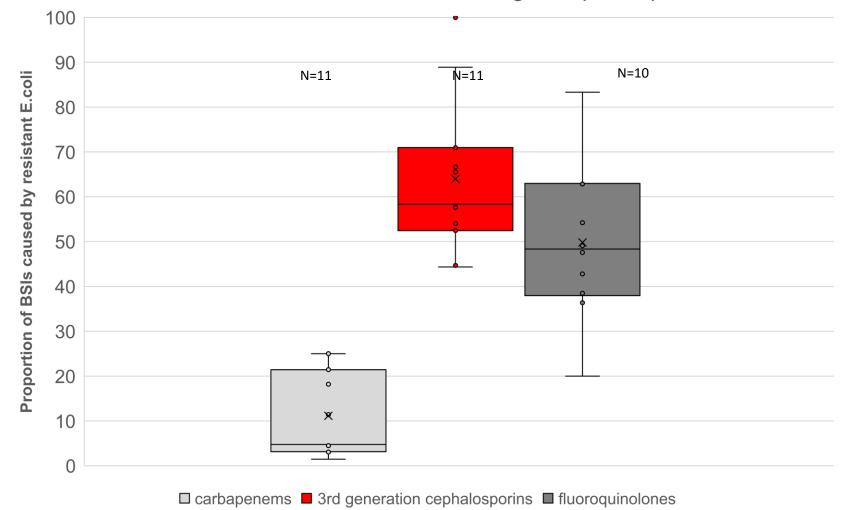
http://www.who.int/drugresistance/global action plan/en



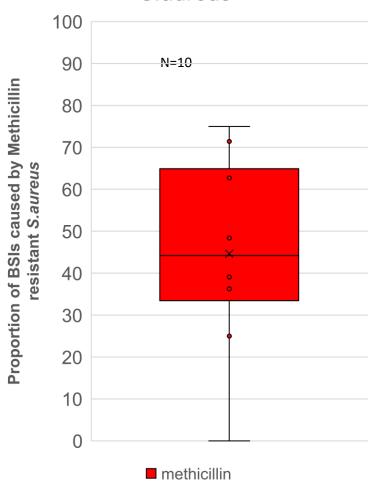


EMRO Bloodstream infections (2019 AMR data)

Bloodstream - E. coli resistant to 3rd gen cephalosporins



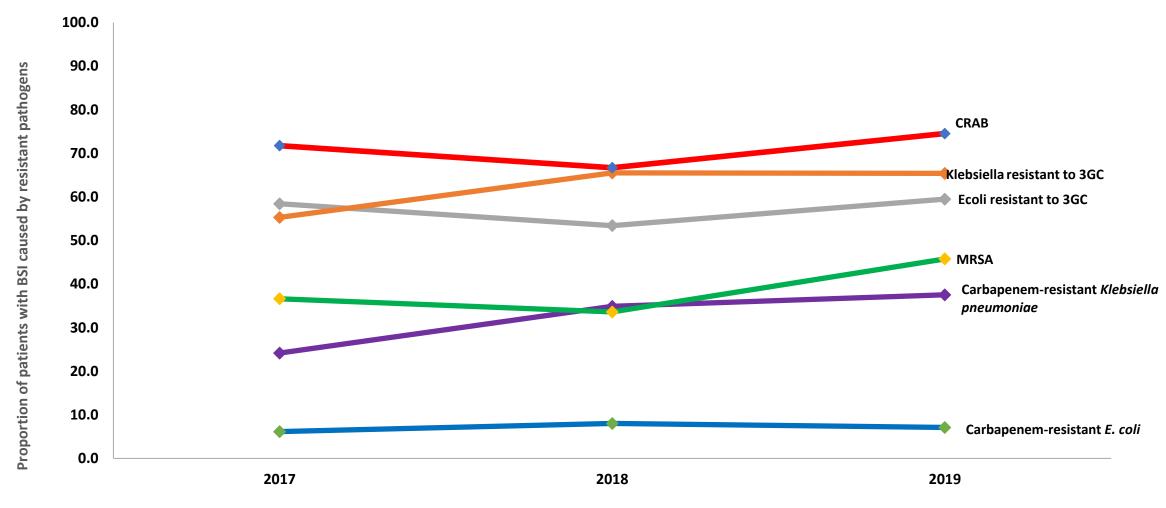
Bloodstream – Methicillin R S.aureus







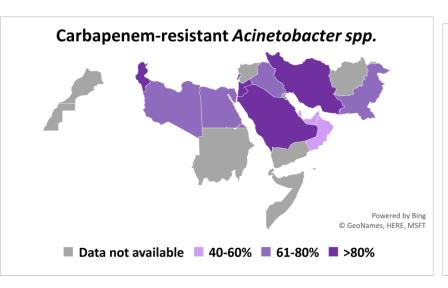
Proportion of Patients with BSI caused by various resistant pathogens, GLASS 2017-2019

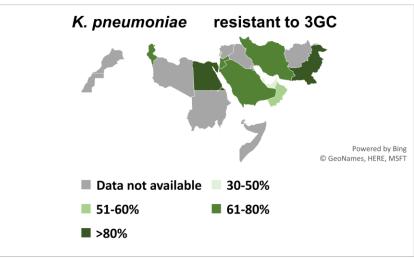


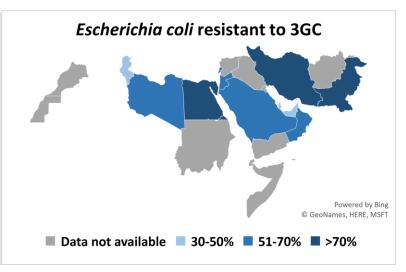


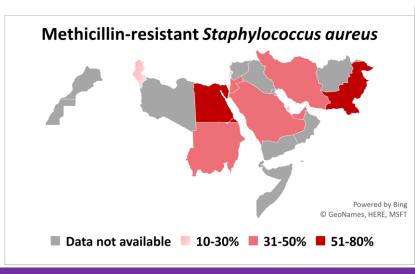


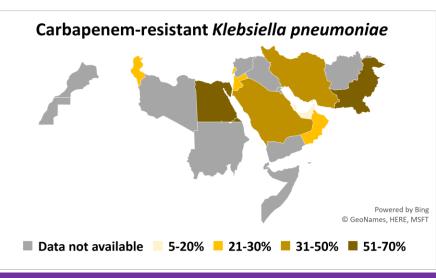
BSI caused by resistant pathogens in EMR, GLASS 2019

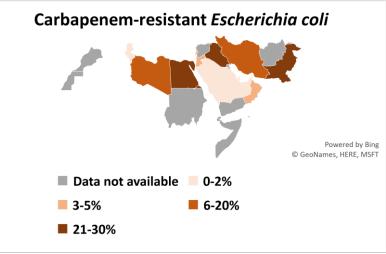








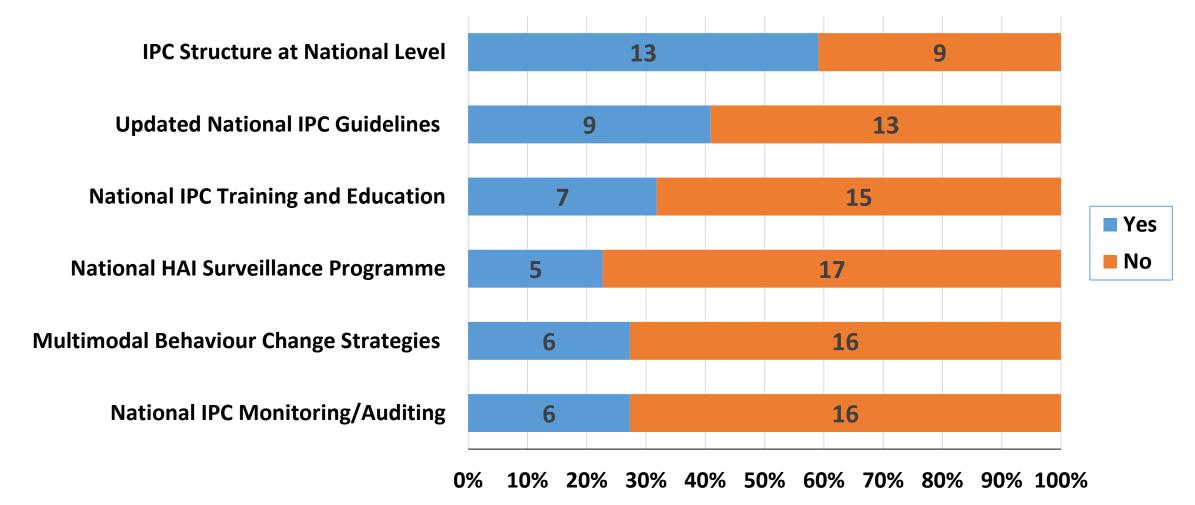








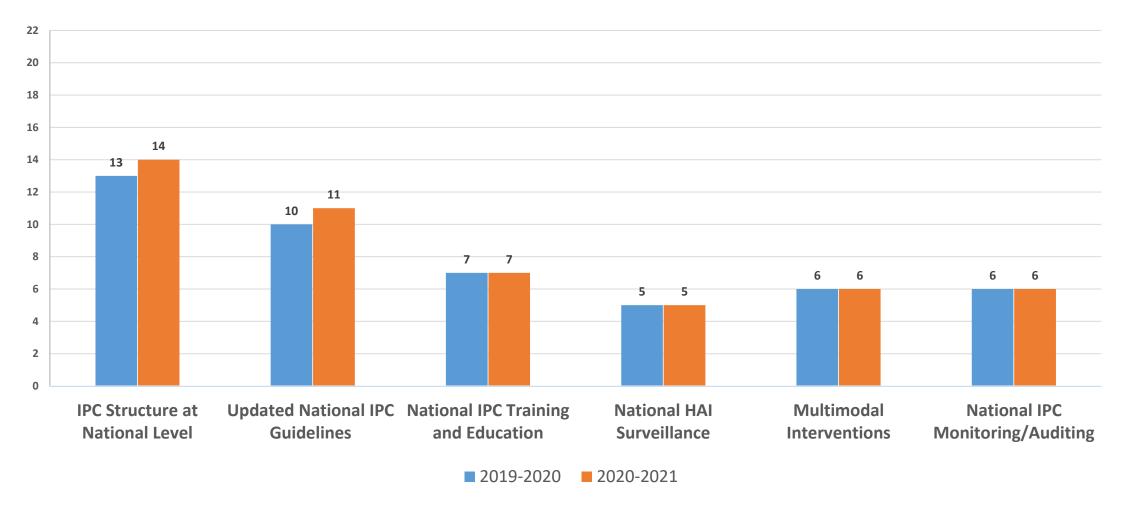
Status of IPC Programs at EMRO Countries- 2020







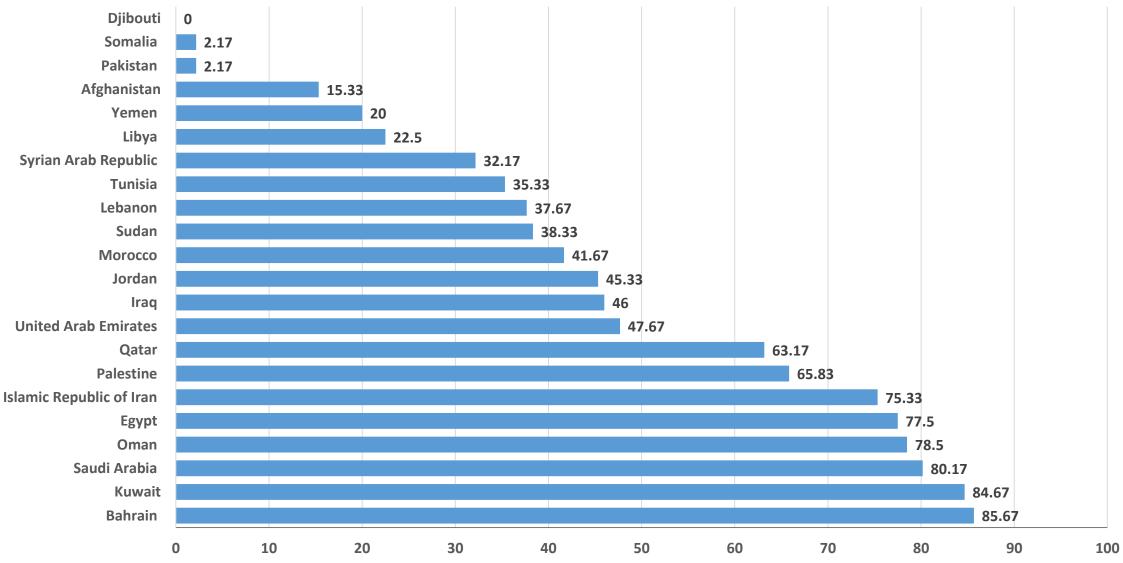
Change in IPC Programme Status at EMR Countries, 2020-2021







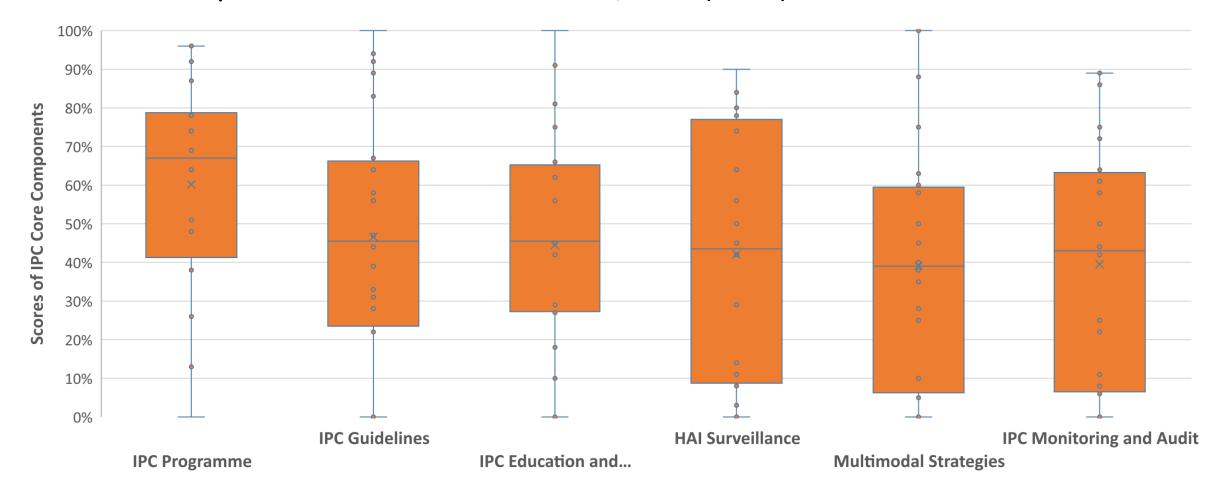
Average Scores of IPC Core Components for EM Countries, 2020 (N=22)





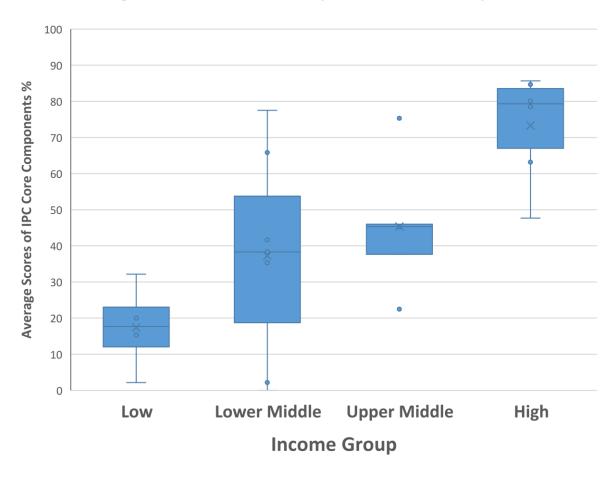


IPC Core Components Scores in EM Countries, 2020 (N=22)

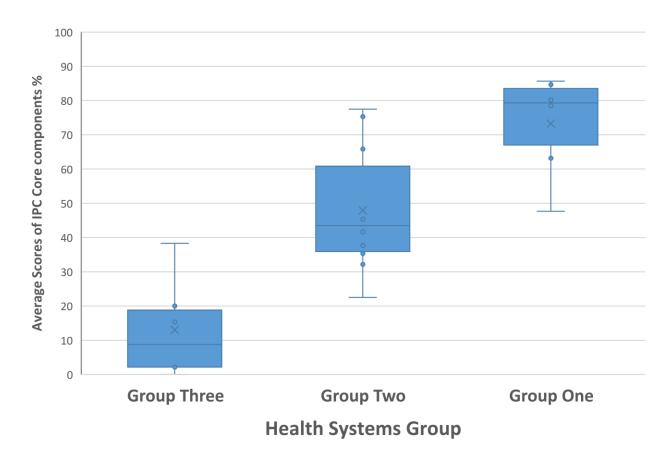




Average IPC CC Scores by Income Group



Average IPC CC Scores by Health System Classification



High Income Countries have significantly higher Scores of IPC Core Components than Low Income Countries (p value = 0.006).

 $Group\ One\ Countries\ have\ significantly\ higher\ Scores\ of\ IPC\ Core\ Components\ than\ Group\ Three\ Countries\ (p\ value\ <\ 0.001).$





Antimicrobial Stewardship and IPC are essential for health systems strengthening

- WHO Policy Guidance of integrated AMS activities
- AMS activities closely linked to IPC & AMR surveillance to support health systems strengthening at national, healthcare facility & community levels
- Policy guidance currently piloted in Egypt & Tunisia to develop "national policy guidance"
- Regional workshop on 15 16 September to introduce the policy to EMRO countries

Five pillars of WHO policy guidance

Establish national coordinating mechanisms & develop treatment guidelines

Ensure access to & regulation of antimicrobials

Improve awareness, education & training

Strengthen water, sanitation & IPC

Surveillance, monitoring & evaluation





Regional IPC Activities

- Support countries establish/enhance national IPC programmes
- Support countries develop/update IPC guidelines
- Training on IPC targeting national and facility level IPC focal persons
- Training on IPC in the context of COVID-19
- Provide country missions if needed
- Multimodal intervention package to reduce BSI caused by resistant organisms
 - Baseline assessment of priority IPC practices
 - Identify areas for quality improvement
 - Design and implementation of multimodal intervention packages
 - Regular auditing of practices
- Piloting the updated WHO HAI case definitions to support HAI surveillance
- Support instituting surveillance for HCW infected with COVID-19





Challenges and Opportunities of IPC

Challenges

- Lack of political support at the governance level
- ➤ Lack of human resources trained an IPC
- Poor microbiological diagnostic capacities

Opportunities

- ✓ Emergence of Covid-19 pandemic
- ✓ High AMR burden in most countries
- ✓ Hospitals' accreditation
- ✓ Fulfil their AMR NAPs





Thank you





