

FADIC School of Antimicrobial Stewardship

Background

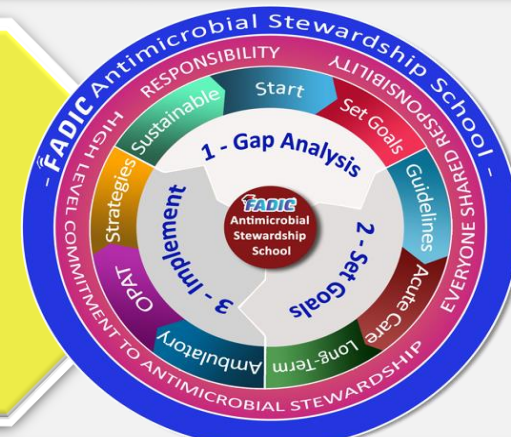
In 1945, Sir Alexander Fleming - Nobel Lecture said, "After the Discovery of the Penicillin, the antimicrobial resistance (AMR) can happen when giving an insufficient dose of the antibiotics, it will not kill the bacteria, but will educate them on how to be resistant".
In 2016, the UK report predicted that in 2050, the AMR mortality rate will be 10 million cases per year, which will be more than cancer mortality, and other diseases, till now after COVID19 Pandemics.

Who We Are?

The First Arabian Drug Information Centre (FADIC), is a professional health care organization in the Middle East. Stewardship School was started in 2018, After signing up with CDC AMR challenge using interactive education through FADIC online system, with the best use of technology.

Aims

- To apply antimicrobial stewardship starting from setting goals and gap analysis
- To prepare an action plan with effective timelines
- To develop strategies for its intervention, metrics, and outcomes
- To develop an effective antimicrobial stewardship guidelines, mobile Apps, policy and toolkits
- To measure the outcome of stewardship
- To prepare a valid dashboard to measure your work practice
- To apply it in different settings; Acute Care, Ambulatory, Long-term, Outpatient (OPAT) and Public
- To design antimicrobial stewardship quality improvement projects and Key indicators (KPIs)
- To maintain strategic and sustainability plan for antimicrobial stewardship



What We Do?

FADIC Stewardship School provides an innovative strategy applying stewardship in multiple healthcare settings, to limit the spread of AMR & improve patient outcomes with an evidence-based education to help learners to build-up their stewardship dashboards, and a real simulation for ASM which is necessary after the COVID19 Pandemics.

Lecturer Guidelines

More than 1000 Infographics, Summarized Tables, and Toolkits

Mentorship Reviewer System

Case-Based Presentations

Pocket Guide for Antibiotic Pharmacotherapy

Roleplay Simulation
Experiential Learning

Interactive Learning Activities as Project-Based Learning & Workshop Activities

Methods (The Antimicrobial Stewardship School Learning Modules)

Module 1

ASP Systematic Thinking Approach

Module 2

ASP Evidence-Based Guidelines

Module 3

ASP in Acute Care Setting

Module 4

ASP in Long-Term Care (LTC)

Module 5

ASP in Ambulatory Care

Module 6

Outpatient Parenteral Antimicrobial (OPAT)

Module 7

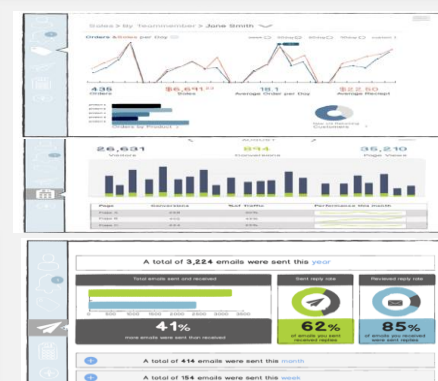
ASP Strategic & Sustainability Plan

Outcomes

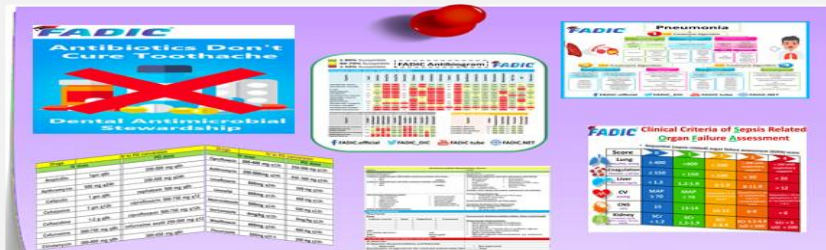
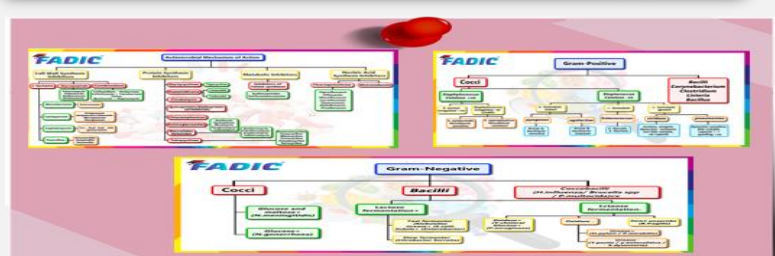
Communicate hospital wide to empower ASP implementation such as infection prevention & control (IPC), microbiology, nurse stewardship, dental, surgical, outpatients, & ICU, others & public.

The outcomes were impressive, either implementation of stewardship, maintain an evidence-based antimicrobial guideline, metrics, effective dashboards, ASP policy, five-year stewardship strategic plan, smart technology antimicrobial guides and toolkits.

Establishing ASP committee term of reference & multidisciplinary stewardship team, rapid response team to create an effective guideline. Maintain stewardship rounds and journal club discussions.



Some Outcomes Results



Case Study

1- Context

Want to learn how to apply antimicrobial stewardship in patient care areas, and hospital wide

2- Contribution

Systematic thinking stewardship in Infectious disease cases, pharmacokinetics/pharmacodynamics and other modules

3- Outcome

Create antimicrobial guidelines, intervention dashboard and outcomes

4- Next Steps

Apply antimicrobial stewardship hospital wide, outpatient and public

Conclusion

It is time to be an antibiotic steward to decrease AMR especially after the COVID19 pandemics. There is a need to gather collaboration to promote the implementation of stewardship and share information about the novel ASP with quality improvement & scholarship, hopefully spread this idea globally.

Reference

- UK 5-year action plan for antimicrobial resistance 2019 to 2024:
- IDSA Implementing an Antibiotic Stewardship Program
- CDC Core Elements of Hospital Antibiotic Stewardship Programs:
- WHO Antimicrobial stewardship in health-care facilities in low- and middle-income countries
- FADIC School of Antimicrobial Stewardship
- Read Candidate Success Story - Antimicrobial Stewardship

5- Review

