

Virology, Infectious Diseases and COVID-19

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Antimicrobial Resistance: Framework for Antimicrobial Stewardship Implementation in LAUTECH Teaching Hospital, Nigeria.

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Abstract:

Background: Antimicrobial Resistance (AMR) is a global challenge in both developed and developing countries of the world. The AMR situation has worsened with the ongoing coronavirus disease-2019 (COVID-19) pandemic due to widespread inappropriate use of antimicrobials, and to many other factors associated with the pandemic response.

Purpose: The purpose of this presentation is to discuss the global and national challenges of AMR, and present the framework for implementing Antimicrobial Stewardship (AMS) program in LAUTECH Teaching Hospital, Nigeria, as a means of tackling the menace of AMR in its facility, amidst the present COVID-19 pandemic.

Methodology: The Global Point Prevalence Survey (G-PPS) and the WHO AMS assessment tools were used for situational analysis of the AMS program of the hospital, in order to identify strengths, weaknesses, opportunities and threats (SWOT) to the program implementation.

Results: The WHO AMS assessment revealed; willingness of the hospital leadership to support AMS program, presence of functional Infection Prevention and Control (IPC) program and staff enthusiasm as strengths; presence of AMR National Action Plan (NAP), National Antimicrobial Stewardship Working Group (ASWG), and access to free G-PPS as opportunities, while poor funding and lack of trained personnel as weaknesses, and industrial disharmony and ongoing COVID-19 pandemic as threats.

Conclusion: AMR is a global health crisis that requires concerted efforts and action plans at global, national, care facility and community levels to tackle the challenges posed by this entity. Nigeria has developed NAP to combat the AMR challenges in the country. LAUTECH Teaching Hospital is, through SWOT analysis, currently developing a framework for implementing AMS program required to manage and monitor appropriate use of antimicrobials as one means of tackling the menace of AMR.

Keywords: AMR; AMS; Implementation; G-PPS; NAP, COVID-19

Biography:

Samuel Sunday Taiwo is a Professor of medical microbiology and Consultant clinical microbiologist to LAUTECH Teaching Hospital, Nigeria. He is the head of the clinical microbiology laboratory, the chair of the hospital infection prevention and control (IPC) and antimicrobial stewardship (AMS) committees, as well as the hospital COVID-19 response team. His areas of academic research and professional interests are healthcare associated infections, antimicrobial resistance, infection prevention and control, antimicrobial stewardship, quality management system and good clinical laboratory practice standards. He was an adhoc member of the Steering Committee of the Federal Ministry of Health that produced the National Infection Prevention and Control (NIPC) policy and strategic framework for implementation of IPC in all tiers of hospital facilities in Nigeria, and a member of the Technical Working Group (TWG) that produced the tool/protocol and curriculum for surveillance of surgical site infections (SSI) in tertiary hospitals in Nigeria. He has authored over 100 publications including scientific articles, conference proceedings and chapters in books, and currently the Editor-in-Chief of the African Journal of Clinical and Experimental Microbiology (AJCEM).