

29th International Conference on
Clinical Pediatrics
&
41st Euro Congress on
Cancer Science & Therapy

conferenceseries.com

June 23-24

WEBINAR

Pramod Jog, Clin Pediatr 2021, Volume 06

Antimicrobial stewardship in pediatrics

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Antimicrobial resistance (AMR) is a universal threat. It is one of the major contributing factors for increased morbidity, mortality and health care cost in hospitalized patients including children. There have been various factors behind the rise of AMR in India. The following aspects are discussed: antibiotic resistance including associated scenario, goals and benefits of implementing ASP, why the emerging need for ASP? Including the need of ASP for pediatric age group, existing efforts in to reduce AMR, problems associated with implementation in, what can be done to reduce the AMR?

Antimicrobial resistance (AMR) is the ability of a microbe to resist the effects of medication that once could successfully eradicate the microbe. Resistant microbes are more difficult to treat, requiring alternative medications or higher doses of antimicrobials.

Antimicrobial resistance is a universal threat. It is one of the major contributing factors for increased morbidity, mortality and health care cost in hospitalized patients including children.

To reduce antimicrobial resistance the antimicrobial stewardship programme (ASP) came into existence. An Antimicrobial stewardship programme is defined (by WHO) as the "optimal selection, dosage, and duration of antimicrobial treatment that results in the best clinical outcome for the treatment or prevention of infection, with minimal toxicity to the patient and minimal impact on subsequent resistance".

Biography

Pramod Jog is a senior pediatrician practicing in Pune with a rich experience of more than 35 years. He has a clinic & a hospital in Aundh & is the director of Medipoint Hospital. He is the Professor of Pediatrics at D.Y. Patil Medical College, Pune. He was also the President IAP, 2016, Standing Committee Member, International Pediatric Association, 2016-19, Steering committee member GAVI (CSO) 2016-19 and also the Chairman, IAP Advisory Committee on Immunization 2015-17. He received Plotkin's prize for best performance in ADVAC at Annecy, France in 2011.

Additionally, he is Senior Consultant to UNICEF and also the Chief Editor, Times of Pediatrics. He has delivered innumerable lectures on national and international platforms & has more than 150 articles in reputed journals to his credit.