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Challenges and implementation of antimicrobial stewardship program in diabetic superspeciality tertiary care center in Mumbai

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Antimicrobial stewardship program implementation is a challenge for private healthcare settings especially it is a multispeciality hospital catering exclusively to diabetic and oncology patients and in city like Mumbai where antibiotics are sold as over the counter medicines. Looking at the antimicrobial resistance pattern of institution, we have implemented extensive and elaborated antimicrobial stewardship program starting from critical care settings and operation theatres with respect to surgical prophylaxis extending to wards. The challenges faced are multifaced and solution to each and every step needs team work and integration of multiple specialities. First and foremost was to form SOP as per international guidelines, next step was to prepare antibiograms and antibiotic policy which was reviewed by clinicians. The team was formed with AMS workgroup and roles were assigned to each of the key members. Then program was rolled out with CME program highlighting issue of antimicrobial resistance in India and importance of antimicrobial stewardship program and launching program of antibiotic policy. The daily follow up is continuous and ongoing process. Justification of each restricted antibiotics needs to be implemented by every clinicians prescribing restricted antibiotic and relevant cultures are sent before empiric antibiotic therapy is started. Compliance is fluctuating but process has >90% compliance in critical care area where maximum consumption of restricted antibiotics is done. Being a diabetic hospital, no direct restrictions were done for issuing restricted antibiotics however every issue needs to be justified by issuing consultants supported by culture evidence. The help from IT department was taken on streamlining process at multiple level and hence the program could be successful program.

Biography

Dhruv Kamlesh Mamtora has completed his MBBS in 2010, from Lokmanya Tilak Municipal Medical College, Mumbai. He also did MD in Medical Microbiology from Government Medical College, Miraj, Maharashtra in year 2013. He is Head of Microbiology and Infection control at S L Raheja Hospital, a 150 bedded multispeciality hospital and center of excellence for diabetes and oncology. He has published papers in journals and has been serving as Editor for pubmed indexed journal. He is also media subject expert on infection control, microbiology, antimicrobials and outbreaks.

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