Industrial Scope of Antibiotics

Abstract

Infectious diseases were responsible for high morbidity & mortality prior to 20th century, which reduced dramatically by the revolution of antibiotics. In 1928 the penicillin discovered by Sir Alexander Fleming, after which the first purified "Penicillin G" become widely available in 1945.
1950 – 1970 was the Golden Era for antibiotics discovery and most of currently available antibiotics depends on the modification of the existing antibiotics at that time. A major threat to this achievement rise, Antibiotic's Resistance which is a natural protective mechanism for their survival. However, the socioeconomic and behavioural factor are the major promoters of acquired antibiotic's resistance

A common example of this resistant bacteria,

- Penicillin-resistant *Streptococcus pneumoniae* (PRSP)
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- Vancomycin-resistant *Enterococci* (VRE)
- Multidrug-resistant *Gram-negative bacilli* (MDRGNB)

Pharmaceutical industry responsible for the antibiotic arsenal which discovered and developed between 1940 and 1990, the antibiotic drug discovery explosion in that period as the industry focussed on;

- Platform development
- Route of administration
- New classes of antibiotics
- Pharmacodynamics
- Production of characteristic antibiotics
- Design of novel analogue
- Drug combination
- Novel agents with new mechanism

Antibiotics are a medical wonder and require continuous research and development not only from the industry but also new regulations and international task force.

Biography

Waleed Mostafa is a proficient Tender Manager with over 20 years of experience in Pharmaceutical, Cosmeceutical and Medical markets. Waleed earned a degree in Bachelor of Pharmaceutical Science back in 1995 and Master in Business Administration in 2012. Through his course, he developed a passionate interest in the Health Economics of the middle east. After he graduated, Waleed worked as Medical Supply Officer in Mustafa Kamel military hospital in Alexandria, Egypt then as medical representative in Bristol-Mayers Squib- Egypt and after hard working 6 years of Sales positions in Bristol-Mayers Squib, SmithKline Beecham & GlaxoSmithKline. Then he joined the finance team of GlaxoSmithKline as Tender Management for Gulf and Near East, currently he joined Sanofi-Aventis Gulf, Trade and Revenue management department. Waleed had a lot of significant professional experiences with specific interest in virology, immunology, microbiology, vaccinology & antibiotics



Waleed Mustafa
+971 58 526 0871
Linked In account: Waleed Mustafa
Session name/ number:
Category: Oral presentation
Passport Number: A08016901