Chemotherapy and Immunotherapy for Tuberculosis

Navdeep Kaur*, Sachin Sharma

Sri Sai College of Pharmacy, Manawala, Amritsar-143115, Punjab, India

Address for Correspondence: Navdeep Kaur; dnnav1222@gmail.com

ABSTRACT: Tuberculosis (TB) is a mycobacterium infection which occurs due to Mycobacterium tuberculosis. It is the major infectious disease with a mortality rate of nearly two million mostly in developing countries every year. This increases occurrence of resistance of Mycobacterium tuberculosis strains to the most effective antibiotics which serves as a major factor contributing to the current TB epidemic. This situation has lead to a rise in the need of the development of chemotherapy and immunotherapy. Chemotherapy is unique two phase therapy which consist of first line and second line drugs. The drugs like Isoniazid, Ethambutol etc. (First line) and ofloxacin, kanamycin etc. (Second line) are commonly used. These drugs used more effective and easily available. The first line drugs are more effective than the second line drugs. Combination drug therapy is desirable as a single drug is ineffective in the cases of MDR-TB. The commonly known treatment of TB is DOTS. The immunotherapy show good result in MDR-TB. The use of immunotherapy with Interlukin-2, Interferon and Interlukin-7 as an adjacent to drug treatment may improve success rate of MDR-TB, shortens the treatment time for drug sensitive TB and improves the immunity by enhancing Mycobacterium tuberculosis elimination to prevent the recurrence of disease. © 2019 iGlobal Research and Publishing Foundation. All rights reserved.