

A Review on Hypertensive and Antihypertensive Drugs

Varsha Shinde , Ketaki Deshmukh, Siddharth Datir, Siddhi Shinde,
Jayashri Talpade, Kaveri Bhujbal, Reshma Adhal
Matoshri Radha College of Pharmacy, Virgaon, India

Abstract: *One of the primary contributors to illness and premature death around the globe is hypertension, a complex, diverse, and multi-system illness. Major guidelines define it as having a systolic blood pressure exceeding 130 mmHg and/or a diastolic blood pressure surpassing 80 mmHg. Approximately 30% of individuals worldwide are affected by hypertension, rendering it a quite common condition. With the range of antihypertensive drug classes available, high blood pressure can be effectively managed with minimal side effects. This review focuses on two main aspects: the modes of action and the side effects of the different classes of antihypertensive medications. To enhance the understanding of which type of hypertension corresponds best to a specific pharmacological class of antihypertensive drugs, the mechanisms of action are examined through a pharmacological lens, including the molecular receptor targets, the various locations in the arterial system, and the sites of action outside the arteries. In addition, pharmacological mechanisms are utilized to define and clarify side effects, providing insights into their origins and identifying which patients should avoid particular medications.*

Keywords: Definition of hypertension, its classification, epidemiological aspects, risk factors, symptoms, Anti-hypertensive medications, definition, classification, mechanism of action, indications, contraindications, side effects

