

Endothelin Antagonism with Bosentan: Current Status and Future Perspectives

Koh Ono and Akira Matsumori

*Department of Cardiovascular Medicine,
Kyoto University Graduate School of Medicine
Kyoto Japan 606-8397*

Key Words: Endothelin receptor antagonist—Hypertension—Congestive heart failure.

ABSTRACT

Endothelin receptor antagonist have been proposed for the treatment of a variety of disorders in which the endothelins may act as pathogenic mediators, such as hypertension, congestive heart failure, and cerebral vasospasm. Bosentan is a nonpeptide competitive antagonist, which can be a good tool for studying the endothelin system. It is specific for the endothelin system and blocks the actions of endothelin at both mammalian receptors (A and B). Bosentan has recently moved into Phase III clinical trial. This review will attempt to overview the experimental and clinical effects of bosentan.