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(54) Title of the invention : METOPROLOL SUCCINATE AND CARVEDILOL EFFECTS ON ISOPRENALINE INDUCED TACHYCARDIA BY USING BUCCAL DRUG DELIVERY SYSTEM

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(57) Abstract :

The present invention relates to the effect of metoproponal succinate and carvedilol on Isoprenaline induced Tachycardia by using buccal delivery system. Metoprolol succinate and Carvedilol both drugs are used as beta-adrenergic blocking agent, and used in case of cardiovascular disorders. In this we produce the tachycardia by isoprenaline, and examine the usefulness of the device in suppressing isoprenaline-induced tachycardia. To know the effect of percentage inhibition, internal comparison had also done in between both the drugs, such as iv, oral and buccal administration. The results showed that the buccal patches of carvedilol had showed the inhibitory effect in the range of 30.00 to 45.07. whereas the carvedilol buccal patches had shown the inhibitory effect in the range of 27.00 to 50.52. Therefore, results showed that the buccal patches of carvedilol had shown the maximum percentage of inhibition when compared to various routes of metoprolol succinate.

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