**Study of Calcium Channel blocker Activities of new Fused Derivatives of Cytotoxic DihydroPyridine(Indeno Quinoline) part I**

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Now a days, cancers are the second most common cause of death after cardiovascular disease. Chemotherapy is one of the most important method for treatment of cancers. There are several limitations in use of chemotherapeutic agents, such as abnormality of normal cells and resistance of cancerous cell to chemotherapeutic agents, the chalanges often being encountered during chemotherapy course.

Dihydropyridines which are known as Calcium Channel Blockers have been used in many forms of cardiovascular disorders. The therapeutic effects of these agents have been assessed in treatment of cancerous diseases. Toxic property of dihydropyridines and pyridine ring derivatives disclose antiproliferative effect on animal cell.

since these drugs are calcium-channel blockers too, this effect in our study has been assessed upon smooth muscles of guinea-pigs ileum and reduction of contractivity was studied and compared to that of niphedipines.

Our study revealed that the new derivatives of indeno Quinolines have less effect in reducing the contractivity of guinea-pigs ileum smooth muscles than niphedipine.

**Keywords**: calcium-channel blockers, Dihydropyridines, cytotoxic effect