OBJECTIVE

- Timolol Maleate is used in the treatment of Glaucoma. Timolol Maleate ophthalmic solution, when applied topically on the eye, has the action of reducing elevated as well as normal intraocular pressure, whether or not accompanied by glaucoma. Elevated intraocular pressure is a major risk factor in the pathogenesis of glaucomatous visual field loss. The higher the level of intraocular pressure, the greater the likelihood of glaucomatous visual field loss and optic nerve damage.

- Current Timolol Maleate formulations in the market are in the form of ophthalmic drops. Since the poor bioavailability and early metabolism observed in conventional drug delivery due to naso lacrimal drainage is major disadvantage.

- So the present research endeavor will be directed towards the development and evaluation of Timolol Maleate GF (Gel Forming) Eye Drop that had ability to extend the drug release for longer duration and ultimately will reduce the dosing frequency, and increase bio availability.

- Also it will, Avoid patient compliance problems, Minimize drug accumulation with chronic dosing, improve bioavailability of some drugs, reduction in dosing frequency, longer duration of action.