Research Envisaged...
INTRODUCTION

With the advent of capital investment and commercialised finance in production and distribution of Pharmaceutical Products and Services, the traditional ways of preparation/dispensing of medicine got a total transformation unlike any other modern industry, catering to the social needs and to the individual human being; maturing in multinational corporation.

It is through these capitalized channels, pharmaceutical products and services became accessible to common man – democratising this vital service. Capitalization of Pharma-industry contributed to strategic research and developmental process, producing "quality therapeutics" in the process of its sustenance, survival and growth; in the tough competing marketing network.

The developed countries first related Trade Related Intellectual Property Rights (TRIPS) with the development of trade, investment and services during the General Agreement on Trade and Tariff (GATT) negotiations, which began in Uruguay in 1986. Now they want to carry logical conclusions on Patent Regulations.

RESEARCH ENVISAGED

1. India is a signatory to GATT Patent Law, effective from January 2005. Its implications on Pharma-industry are of paramount significance at both national and international level for India’s proven standing capability of producing quality medicines at cheapest price in the world. Hence, it was thought to take a quick review of the Indian PharmaTech Industry and the international scenario in this transitional IPR regime – FIRST OBJECTIVE.
2. Hypertension is a aging phenomenon or life style disease or affliction Therefore, it was felt to undertake a short survey to study the various aspects of this disease – namely awareness in patient for this affliction, their attitude and approach for the therapy (both pharmacological and non – pharmacological) and compliance with drug therapy – SECOND OBJECTIVE.

3. Government of any nation is accountable and is expected to uphold the interest and well being of its people. The Indian Government is putting efforts and is of the opinion to impress the Medical community to go for prescription of Generic rather than branded drugs so that the patient can be benefited spending less on the medicines. Hence, it was thought to evaluate the available marketed products of Metoprolol Tartrate 50 mg Tablets as per the Official Specifications and estimate the cost projections for 1 year based on the drug regimen in each – THIRD OBJECTIVE.

4. Hydrophilic non-disintegrating controlled/extended drug delivery established a better drug delivery system for oral route over multiparticulate beads/ micropheres, pellets etc., and has gained wider acceptance for it high-speed production and economic reasons. Therefore, it was thought to prepare and evaluate hydrophilic controlled release matrix system using hydrophilic polymers containing the active drug metoprolol tartrate and scale up to lab. pilot size (till in vitro dissolution stage) based on the experimental protocol using FDA’s Guidance for Industry SUPAC-MR: Modified-Release Solid Oral Dosage Forms, Scale-Up and Post-approval Changes: Chemistry, Manufacturing, and Control; in vitro and in vivo Bioequivalence Documentation (Sept. 1997) – FOURTH OBJECTIVE.