3.0 AIM AND OBJECTIVE

The goal of present work is to design an oral dosage form for pediatric and geriatric patients.

Objective of the present work is to design, develop and characterize mouth dissolving film and oral soft gel for three different categories having different dose of drugs, granisetron hydrochloride (2mg/dose-very low dose), linezolid (100mg/dose-high dose) and memantine hydrochloride (10mg/dose- low dose) for pediatric and geriatric patients.

An attempt is made to develop and characterize

✓ Mouth dissolving film of granisetron hydrochloride supplied as single unit (2x2cm film) which contain granisetron hydrochloride 2mg/unit and oral soft gel granisetron hydrochloride supplied as 10 gm gel in single sachet which contain granisetron hydrochloride 2mg/10gm gel for pediatric (Used once a day) and geriatric patients (Used once a day).

✓ Mouth dissolving film of linezolid supplied as single unit (3x3 cm film) which contain linezolid 100mg/unit and oral soft gel linezolid supplied as 10 gm gel in single sachet which contain linezolid 100mg/10gm gel for pediatric (Used two times a day) and geriatric patients (Used two times a day).

✓ Mouth dissolving film of memantine hydrochloride supplied as single unit (2x2cm film) which contain memantine hydrochloride 2mg/unit and oral soft gel memantine hydrochloride supplied as 10 gm gel in single sachet which contain memantine hydrochloride 2mg/10gm gel for pediatric (Used once or two times a day) and geriatric patients (Used once or two times a day).

Further, attempt is made to select best dosage form based on comparative evaluation between mouth dissolving film and oral soft gel for three different categories and different dose of drugs, granisetron hydrochloride (very low dose), linezolid (high dose) and memantine hydrochloride (low dose).

The specific research objectives of mouth dissolving film include to prepare mouth dissolving film using water soluble polymers having acceptable mechanical properties, faster dissolution and pleasant taste which increase patient compliance in pediatric and geriatric patients.
The specific research objectives of oral soft gel include to prepare oral soft gel using water soluble polymers having acceptable consistency and physical appearance i.e. elegant resembles like marketed Jam, faster dissolution and pleasant taste to increase patient compliance in pediatric and geriatric patients.