prevention of NSAID-induced ulcers (Lazzaroni M *et al.*, 1999). Omeprazole at a dosage of 20 mg daily has been shown to be better tolerated and associated with a lower relapse rate than misoprostol (Cytotec®) at a dosage of 200 mcg twice daily. Omeprazole and misoprostol appear to be equally effective in preventing NSAID-induced ulcer (Hawkey CJ *et al*, 1998).

special precaution shuld be present when using PPIs for Pregnant, breast feeding and liver conditions (Nava-Ocampo AA *et al* ,2006).

The general chemical backbone structure for the PPIs is shown in figure (2).

$$R^1$$
 X
 N
 R^2
 OR^3

Figure 2 : Chemical structure of PPIs

Where, R1, R2, R3 and R4, are identified in table (1) (Shin et al., 2008).