



## Awareness, Attitude, And Behavior Regarding Proton Pump Inhibitor among clinical pharmacists In Saudi Arabia.

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### INTRODUCTION

Proton pump inhibitors (PPIs) are one of the most commonly prescribed classes of drugs in the world, and there are increasing numbers of publications on how PPIs should be used correctly or incorrectly around the world. The knowledge of PPIs among Clinical Pharmacists (CLPs) is essential for improving the rationality of PPI application

### OBJECTIVES

To assess the knowledge of CLPs towards PPIs.  
To assess the attitude of CLPs towards PPIs.  
To assess the appropriate usage of CLPs towards PPIs.  
To explore some factors like gender, education level, experience years and to influence the knowledge of CLPs.

### METHODS

A cross-sectional study conducted using questionnaire. The study data collected through a self-designed questionnaire. The questionnaire is designed based on relevant guideline for PPI applications and previous research. it includes Demographics data of CLPs such as age , gender, education level ,experience. It consisted of 6 questions. Awareness, attitude, and appropriate usage towards PPI. It consisted of 18 questions (multiple choices) and 5 questions were regulated based on the five-point Likert scale. A pilot study conducted among 10 CLPs to investigate the reliability of the questionnaire

### RESULTS

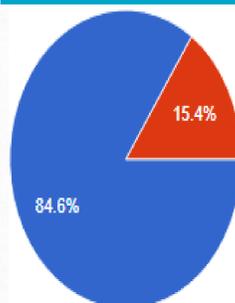


Figure 1:Gender

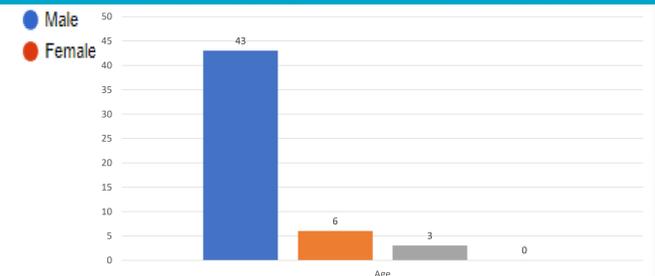


Figure 2:Age

Questions (Correct answer)	Correct answer N(%)	Incorrect answer N(%)
Which PPI is a prodrug(All)	17(32.7)	35(67.3)
medications is NOT a proton pump inhibitor (Famotidine)	50(96.2)	2(3.8)
indication for using PP (Stress ulcer)	49(94.2)	3(5.8)
Pantoprazole dose for Active and maintenance therapy of gastroduodenal ulcers(20-40)	32(61.5)	20(38.5)
Proton pump inhibitor use will likely result in (Achlorhydria)	27(51.9)	25(48.1)
most effective proton pump inhibitor (No significant differences)	28(53.8)	24(46.2)
largest interaction compared with other PPIs (Omeprazole)	18(34.6)	34(65.4)
Which PPI has the fastest onset of action (Rabeprazole)	11(21.2)	31(78.8)
PPI for pediatric younger than 1 year (Esomeprazole)	13(25)	39(75)
PPI use in pregnancy (Omeprazole)	39(75)	13(25)
available formulations for PPIs (All)	21(40.4)	31(59.6)
When is the right time to take PPIs (30 minutes before a heavy meal )	45(86.5)	7(13.5)
appropriate administration method of PPI (Swallowed whole without being split, crushed, or chewed.)	46(88.5)	6(11.5)
How would you improve PPI effect (Increase the dose)	30(57.7)	22(42.3)
PPI for the H.pylori therapy (1-2 weeks)	37(71.2)	15(28.8)
PPI treatment of gastric ulcer should be (2-8 weeks)	19(36.5)	33(63.5)
duration of PPI prophylaxis (At least 7 days)	36(69.2)	16(30.8)
Which of the following conditions do you think can be attributed to the use of PPIs (1-Increased risk of Clostridium difficile infection, 2-Increased risk of hip fractures, 3-Decrease in the absorption of Vit. B12.)	1-22(44.2) 2-32(61.5) 3-37(71.2)	31(59.6)

Table 1:Knowledge Questions.

Most of participants were male 44 (84.6%) (Figure1), work on outpatient 30 (57.7%) and education levels 40 (76.9%) were Pharm D. The results of this study showed that almost all Pharmacists prescribe anti-ulcer drugs for their patients. Most of the participants have prescribed PPI for stress ulcer (94.2%). (69.2%) percent of the participants recommend using acid suppression drugs for at least 7 days when they prescribe them to their patients. (71.2%) and (61.5%) of the respondents had reported that is the most common adverse events is Decrease in the absorption of Vitamin. B12. And Increased risk of hip fractures, respectively. 42 (80.8%) completely agree with the use of PPI for acid reflux.

### DISCUSSION AND CONCLUSIONS

Pharmacists in Saudi Arabia usually recommend and prescribe PPIs to their patients. Most of them have some knowledge on PPIs indications and side effects. Managing PPI use in the King Khaled University hospital pharmacy setting is necessary to promote both patient and medication safety.

### REFERENCES

