

# ADECUACY OF OMEPRAZOLE SOLUTION PRESCRIPTION FOR THE ADMINISTRATION ON NASOGASTRIC TUBE APPLYING A CONTINUOUS IMPROVEMENT SYSTEM (DEMING CYCLE)

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## PURPOSE

To evaluate the results after the implementation of an action plan to improve omeprazole solution prescription for the administration on nasogastric tube (NGT).

➔ The protocol was guided by the **Deming Cycle**.

## MATERIAL AND METHODS

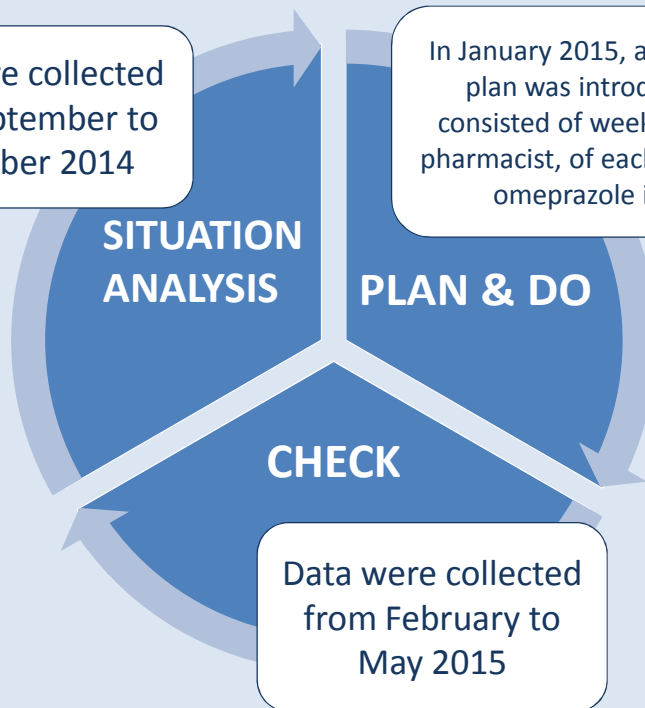
**PATIENTS:** who were prescribed omeprazole solution during their hospitalization in a tertiary hospital.

### MANAGEMENT UNITS

- Internal medicine
- Oncology
- General surgery
- Infectious diseases
- Otorrinolaryngology
- Digestive system
- Nephrology
- Mental health

Data were collected from September to December 2014

In January 2015, an improvement plan was introduced, which consisted of weekly review, by a pharmacist, of each prescription of omeprazole in solution



It was found that patients had NGT inserted, and otherwise, switching to omeprazole capsules was proposed.

Data were collected from February to May 2015

## RESULTS

- ➔ In the first period: **23.1% prescriptions were inadequate** ➔ Patients hadn't NGT inserted.
- ➔ In the second period: **15.79% prescriptions were inadequate** ➔ **AFTER DEMING CYCLE !!**

Of these inappropriate prescriptions, internal medicine unit was responsible for 50% in the first period and for 58.3% in the second one

## CONCLUSION

**The establishment of an improvement plan showed an increase in the quality of omeprazole solution prescription.**

- ➔ In spite of the improvement, there is still a percentage of inadequate prescriptions, which implies that **we must continue applying the Deming cycle**, to continue improving over time (*act*).