

Reducing complications through the development of the PEG management and the YouTube development of Enteral Nutrition for ALS patients

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INTRODUCTION

Most amyotrophic lateral sclerosis (ALS) patients lose weight due to muscular atrophy and contractile dysfunction of skeletal muscle, resulting in frequent accidental dislodging of percutaneous endoscopic gastrostomy (PEG) tube.

* No conflict of interest

AIM

The aim of this study was to reduce complications through educational program on PEG management and enteral nutrition specifically designed for ALS patients.

METHOD

41 ALS patients before introduction of educational program were compared with 37 patients after the introduction. Educational materials include safe feeding methods and PEG tube dressing management. They were created as both video clips and leaflets.

Monthly incidence of gastrointestinal complications, emergency room admission rate, and replacement rate due to accidental PEG tube detachment within 6 months of the group after the program were compared with those of pre-program patients.

RESULTS

Figure 1. Changes in monthly incidences of gastrointestinal complications (%)

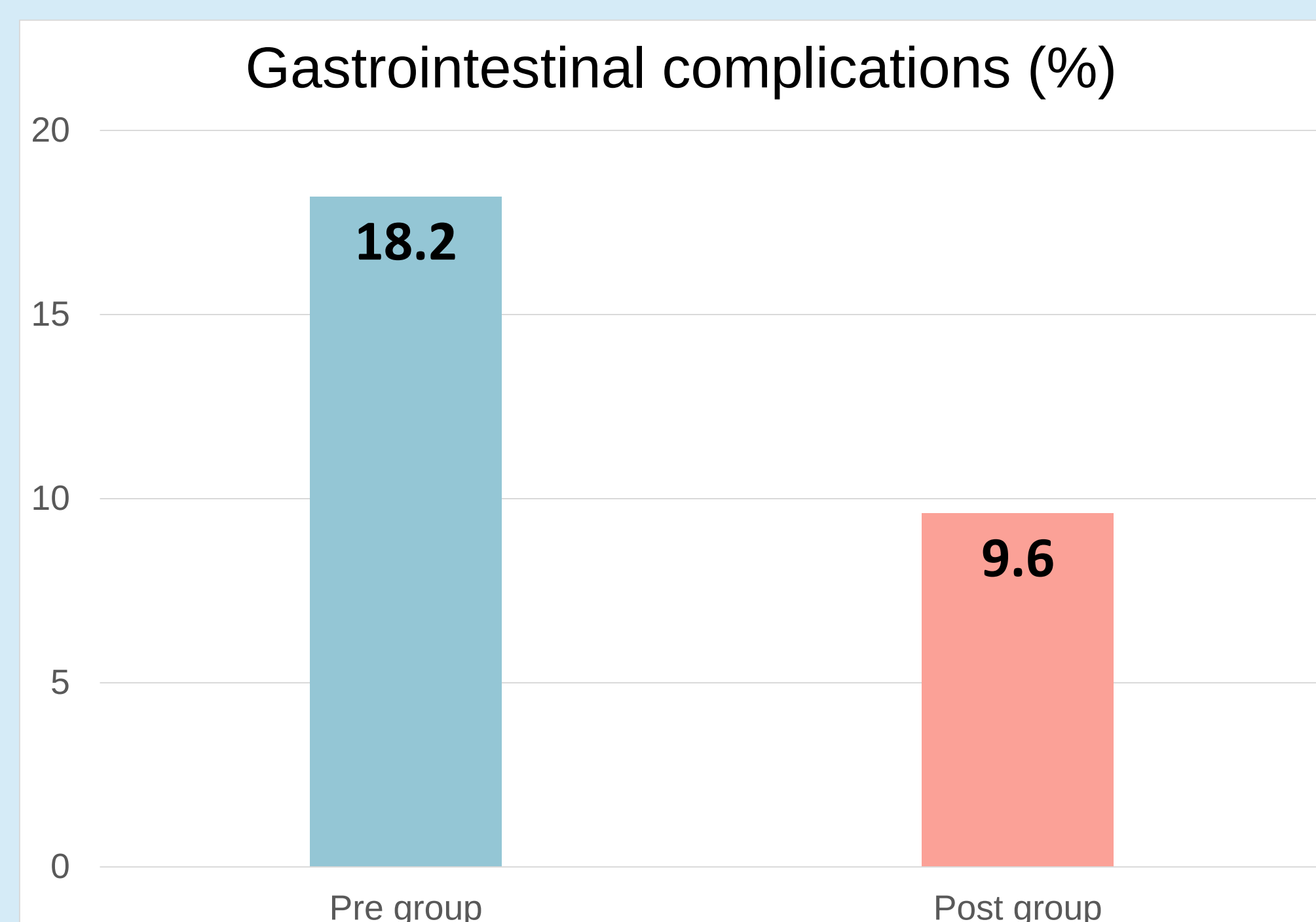


Figure 2. Changes in the rate of emergency room admission due to gastrointestinal complications (%)

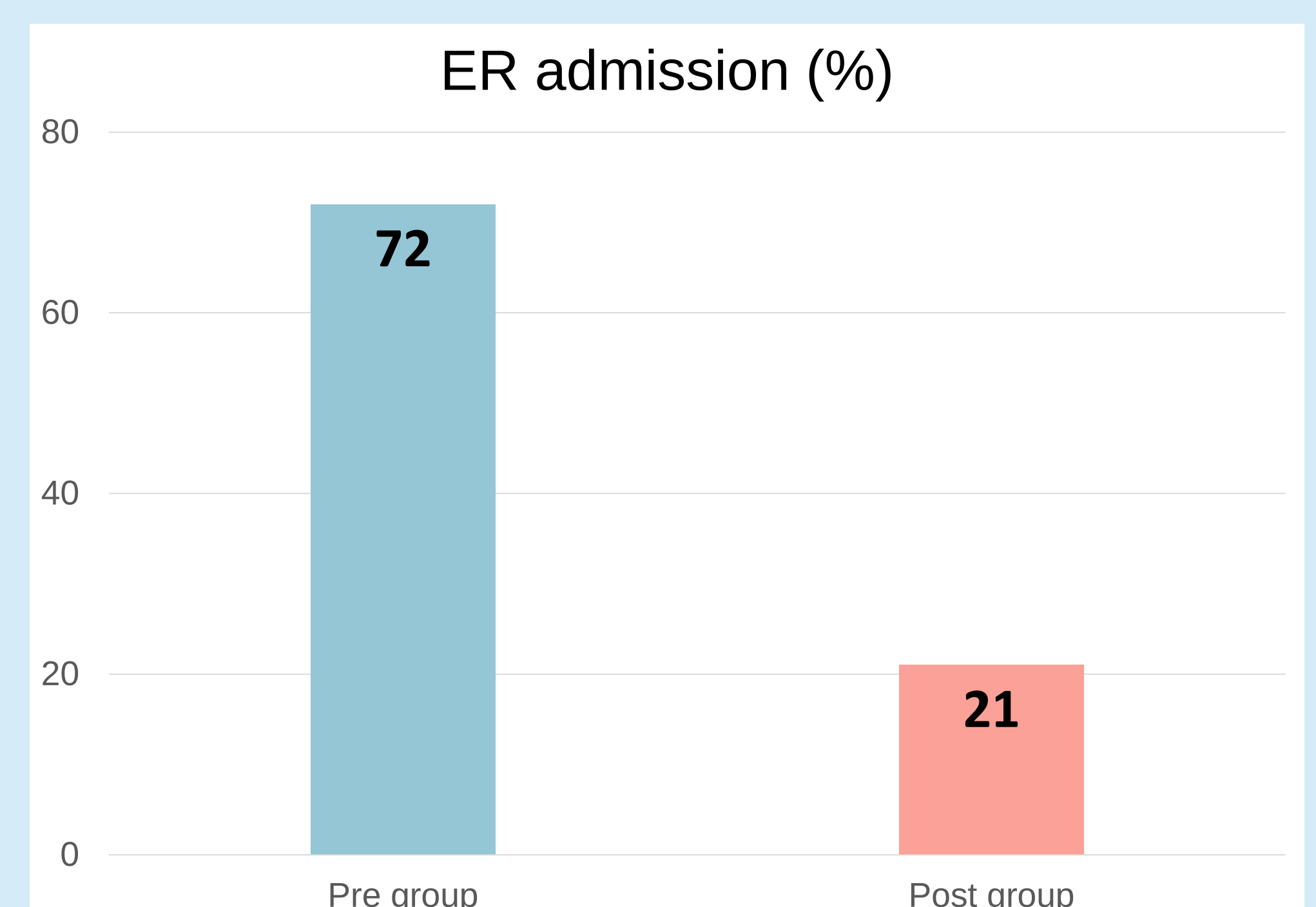


Figure 3. Changes in replacement rate within 6 months due to gastric tube defect (%)

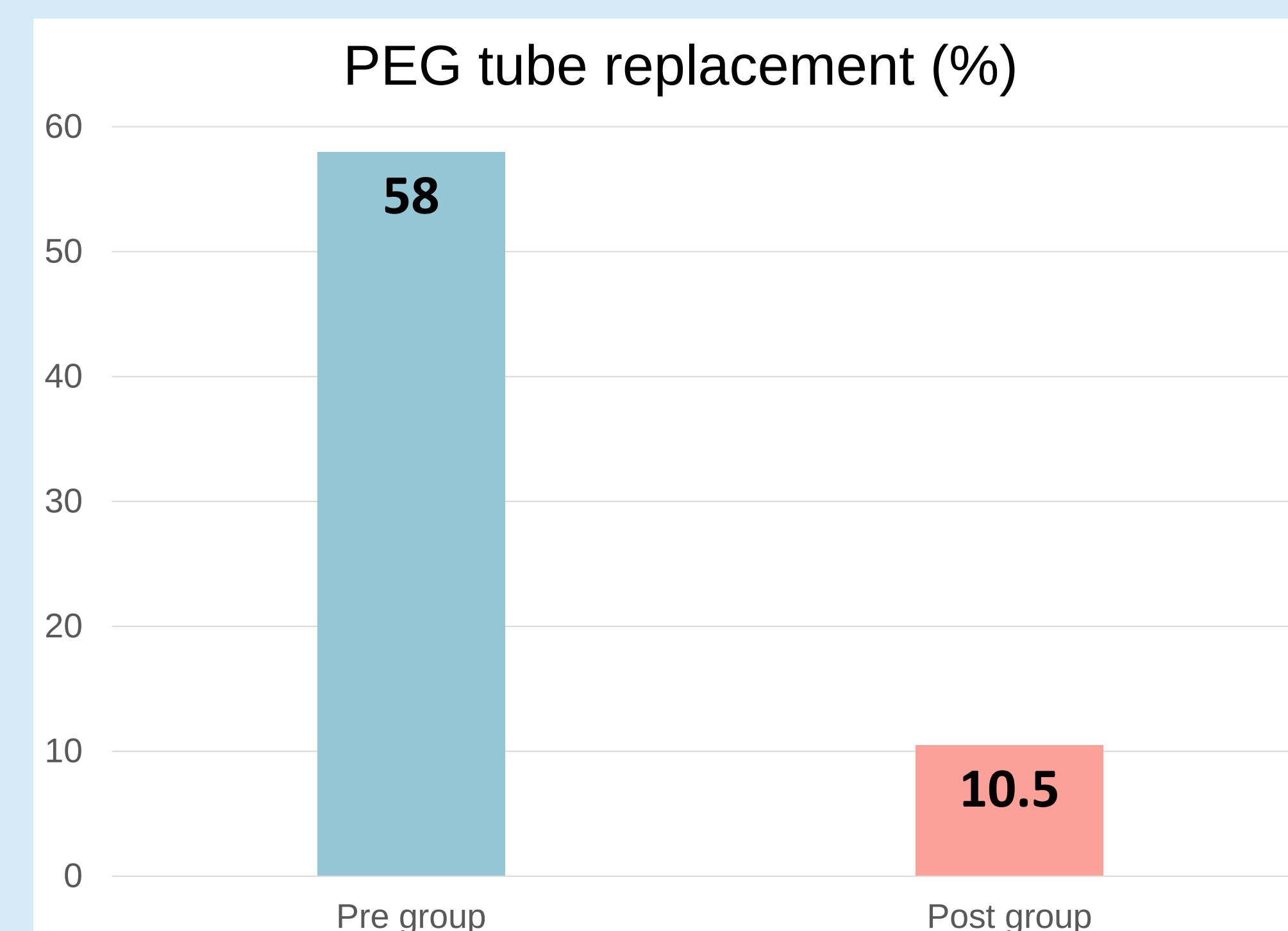
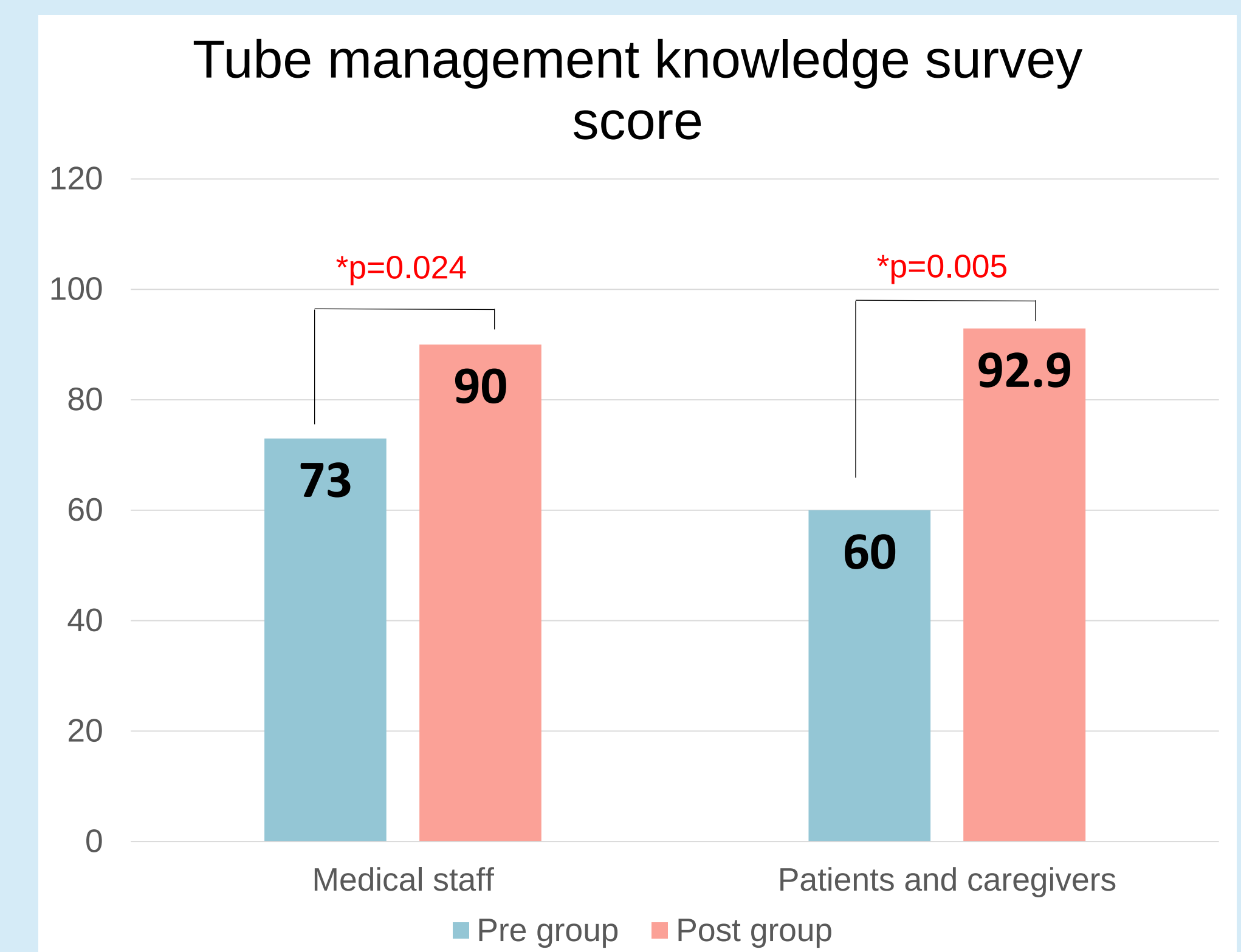


Figure 4. Changes in knowledge survey scores before and after video training of medical staff and caregivers



CONCLUSIONS

Educational program provided in format of video, text, and images has been proven to reduce complications.

We will continue to improve the safety of patients by complementing educational contents with opinions collected from patients, caregivers and medical staff.

ACKNOWLEDGEMENT

The educational program proved to be effective in all metrics. Monthly incidences of gastrointestinal complications decreased after the educational program.



Pre group



Post group

REFERENCES

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CONTACT INFORMATION

PEG Feeding



PEG Management

