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Our study revealed a moderate level of Hand Hygiene knowledge among medical students and demonstrated the effectiveness of the active teaching method in capacity building.

BACKGROUND

- Hand hygiene is a crucial practice for preventing healthcare-associated infections.
- Medical students often lack adequate knowledge and attitudes towards hand hygiene.
- This study aimed to evaluate the **effectiveness** of an **active training intervention** in improving hand hygiene **knowledge** and **attitudes** among medical students.

METHODS

- A quasi-experimental study from January to March 2023, enrolling **fifth-year medical students** at the Faculty of Medicine of Monastir, Tunisia.
- **WHO HH-Knowledge-Questionnaire**
- Mixed Intervention method, which incorporates **simulated exercises** and **games guided by the medical teacher**.

RESULTS

- A total of **34 students** were included with a mean age of **23.3±1.1 years**, and a **sex ratio of 0.35**.
- Among them, **75.3%** had received **prior HH training**.
- **Pre-test results** : The majority of students (85.3%) had a **moderate level of knowledge** regarding Hand Hygiene.
- **Post-test score** after Mixed Intervention trainings : Significant global **increase** from 11.7±1.7 to 14.1±1.6; **p< 0.001**
- Overall satisfaction with this active teaching approach (62%).

RESULTS CONTINUED

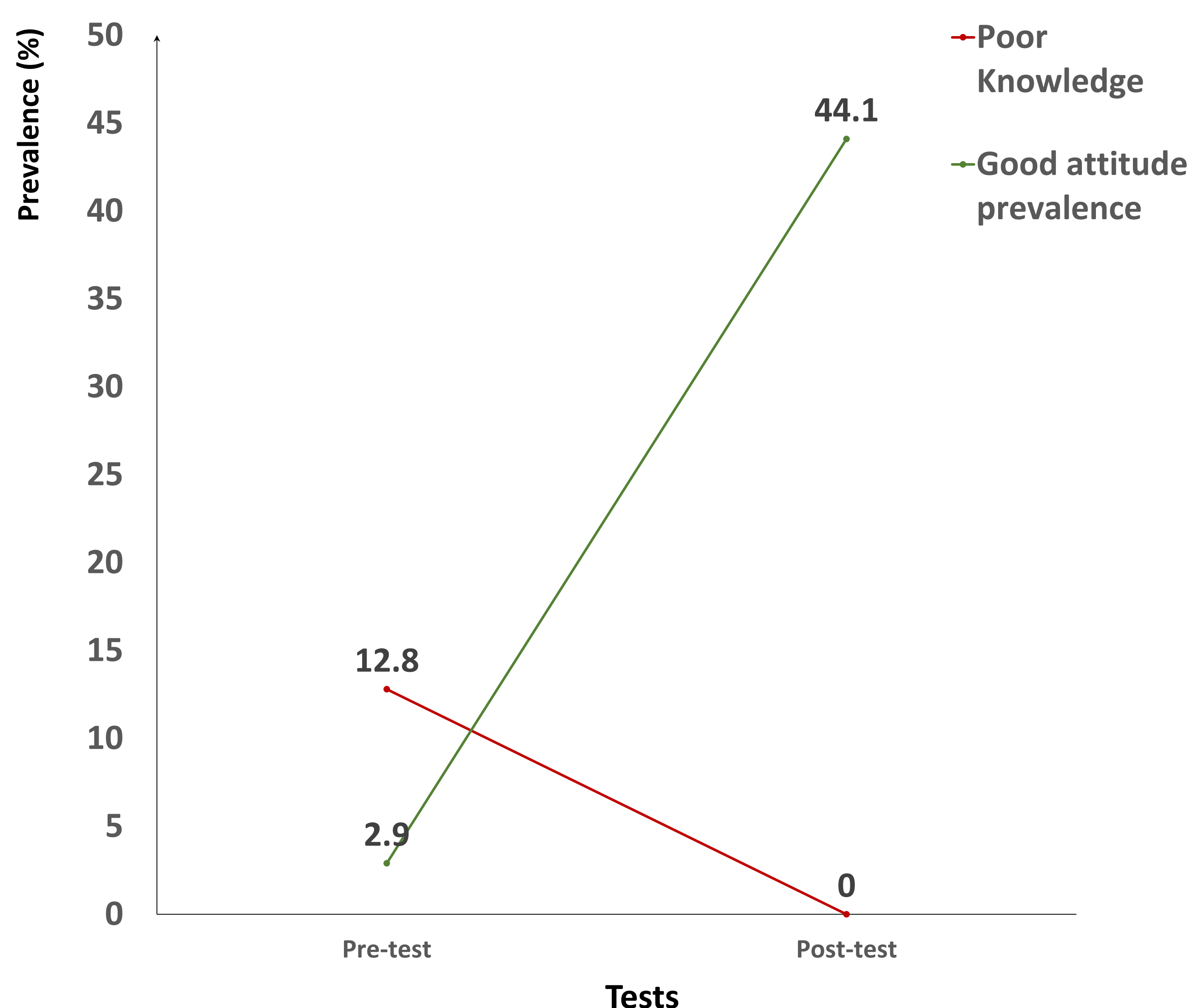


Chart 1 : Trends of medical student knowledge following Mixed Intervention Trainings, Monastir 2023

CONCLUSIONS

- Our study revealed a **moderate level of Hand Hygiene knowledge among medical students** and demonstrated the **effectiveness of the active teaching method in capacity building**.
- These findings highlight the potential of active learning in addressing knowledge gaps and emphasize the **need for targeted educational interventions**, ultimately aiming to enhance Hand Hygiene performance level among health-care professionals.

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