

Quality improvement practice of standard diabetes care in a general hospital : action research to provide equal care for outpatients

Okayama Kyoritsu General Hospital 1. Department of General Medicine, 2. Clinical Training Center

Naohi Isse¹, Yuta Fushimi², Reo Hasegawa²

Backgrounds

- Primary care physicians must treat diabetic patients based on the standardized guideline: diagnosis and classification, management of glycemic control with pharmacological, exercise, or diet therapy, comprehensive medical evaluation and assessment of comorbidities, and risk reduction interventions.
- Care quality depends on each physician in a clinic.

Objectives

- To implement a quality improvement practice for diabetes care to provide high-quality care equally for outpatients in a general hospital.

Clinical setting



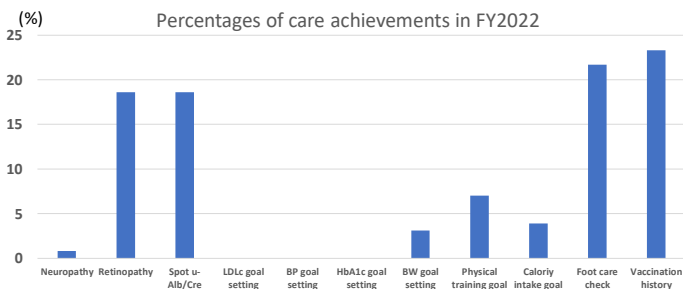
- General hospital
- 318 beds: Internal med (IM), General med (GM), Surgery, Orthopedics, Anesthesiology, Urology, Dermatology, Palliative med, Radiology, Otolaryngology, Gynecology, Pediatrics, Orthodontics
- Number of physicians caring DM: Internal med 11, General med 9-11

Methods

- Target population: Diabetic outpatients (type 1 or type2 DM) ≥ 18 y.o.
- Eligibility: ≥ 4 visits / year in IM or GM clinic, Yearly reviewing the medical charts to evaluate 11 quality indicator items

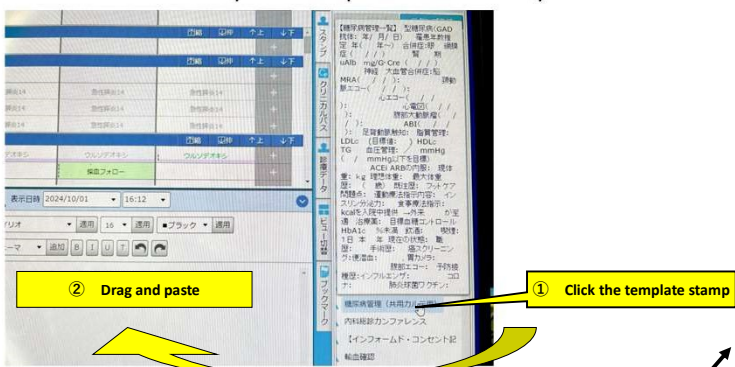
Results ① (FY 2022)

- Eligible: 129 patients (Male 75, Female 54) → Analyzed all patients
- Average age (\pm SD): 74.7 (\pm 10.7) y.o.



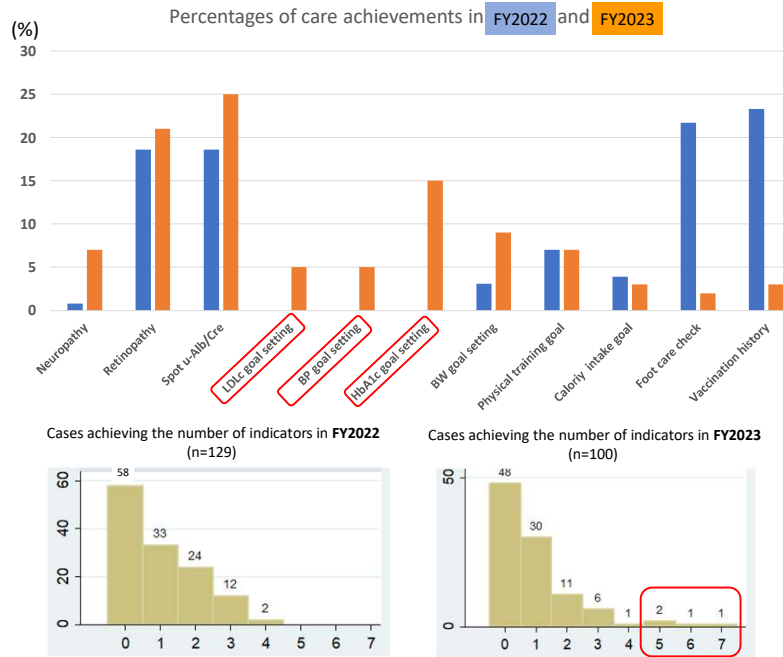
Implementation ①

- ★ “Summary template of DM care” for all doctors
- Based on the characteristic of our hospital’s system...
 - Easy to paste on the electric medical chart
 - Free to modify the template individually



Results ② (FY 2023)

- Eligible: 1007 patients → Analyzed randomly selected 100 patients
- Male 59, Female 41
- Average age (\pm SD): 71.2 (\pm 11.3) y.o.



Discussions

- The number of eligible DM patients in FY2022 was corrected to 1200 due to the mistake of data retrieval! (✖)
 - DM patients without a history of hospitalization by any cause were retrieved in the first analysis...
- We found the evidence of physicians using the DM care template in the medical chart during data collection, resulting in patients achieving a higher number of indicators.
- The template facilitated the individualized goal settings (LDLc, blood pressure, HbA1c, body weight) by the outpatient clinics in our hospital.

Conclusions

- The implementation facilitated health equity in a hospital.
- The implementation is for an equity-oriented approach to promote health for all patients, including vulnerable groups.
- As a next step, we plan to collaborate with a clinic nurse to distribute a “Task card” to a patient to fill in the status of the indicators.

References

American Diabetes Association Professional Practice Committee; 4. Comprehensive Medical Evaluation and Assessment of Comorbidities: Standards of Care in Diabetes—2024. Diabetes Care 1 January 2024; 47 (Supplement_1): S52–S76. <https://doi.org/10.2337/dc24-S004>

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