Evaluating the Efficacy of a Patient-centered Clinical Decision ## HKUDentistry **Aid in Enhancing Shared Decision-making in Prosthodontics:**



A Qualitative Multicenter Study

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Introduction

What is shared decision-making (SDM)?1

A collaborative process in which healthcare decisions are made based on mutual agreement between patients and healthcare providers.

What are decision aids?2

Decision aids are developed to enhance patients' understanding of their medical conditions, empowering them with the necessary knowledge to

Challenges¹

Older adults/ Less educated

Time constraints

Patient interest varies

Communication skills

Research Gap³

2/3 of dental schools in the US & Canada lack structured courses on dentist-patient communication.

1/3 of students reported insufficient confidence in presenting treatment plans to patients.

Supplemental decision aids: mobile applications, leaflets, or information sheets have been suggested.

HKU Dentistry - No courses on communication or decision aids are provided

To investigate the impact of utilizing a newly developed patient-centered clinical decision aid to facilitate SDM in the $\underline{\text{missing tooth replacement}}$ between dental students and their patients at the Faculty of Dentistry, HKU, Hong Kong SAR

Materials & Methods

i) Development of Digital Clinical **Decision Aids**

International Collaboration:



Online Platform:





ii) Participants recruitment

香港大學 THE UNIVERSITY OF HONG KONG

15 patients

15 students

Consolidated Criteria for Reporting Qualitative Research & Ethics Approval

15 students 15 patients

Students - received 15 mins training

15 - 20 mins explaining the treatment planning to patients using the decision aid

The Assess-Advise-Decide (AAD)⁴ approach was incorporated to personalize the final patient consultation (the last part of decision aid).

iii) Data collection & analysis

- 1. A face-to-face interview (20-30 mins) conducted by 2 interviewers
- 2. Question guides developed based on Vromans et al.5 & discussion among researchers
- 3. Interviews were recorded using a digital voice recorder & were translated into English & transcribed verbatim manually.
- 4. A Thematic analysis was performed on the transcripts (manual line-by-line coding)

Results & Discussion

Student Perspective

Communication

Experience Preferences

Utilization

Satisfaction

decisions

Rating

Influence on

- The conversation is not one-sided; my patient can interact by asking questions & providing comments on certain
- Several students expressed satisfaction with the use of photographic illustrations and prognosis statistics.
- Greatly enhanced the communication experience between students and patients.4-6

The majority agreed that the decision aid facilitated a systematic presentation of information to patients.

- 7 of them found the decision aid to be lengthy and contained too much information for patients
- 70% of the students expressed complete satisfaction with the current format. Some suggested adding more
- StHK 5 expressed that this approach was time-consuming.
- This outcome emphasizes the effectiveness of the SDM using decision aid in promoting better communication and satisfaction.5,6
- 83.3% of participants gave a rating of ≥ 8 , indicating a high level of satisfaction

Concept, Impact/usefulness,

Clinical application,

Suggestion & choices

The enhanced communication experience using Decision Aid:

- Promoting more shared decision-making
- Leading to more personalized and evidence-driven treatment plans
 - Improving patient care.

Patient Perspective • 29 patients were satisfied with the conversation.

Communication

- Experience
- "Her presentation and explanation were very detailed, and she also customized the leaflet and explained it according to my presenting complaints" (PtHK 4).
- "I feel the doctors at private clinics are more knowledgeable" (PtMY 5)

Treatment Info

Knowledge

Uncertainty

Utilisation

Influence on

decisions

Treatment choices Potential risks

Prognosis, priority,

suggestions & choice

satisfaction, and

- Able to gain a deeper understanding of the treatment options with the inclusion of visuals and statistics.5,6 'The disadvantages of various treatment options prompted me to think about other perspectives in the treatment, allowing me to consider each
 - option more comprehensively" (PtHK 10) Half believed that the provided success rates were just a reference
 - and varied between patients. The patients scored 7.6/10, indicating their belief in the prognosis of
 - the treatment applied to their situations
 - Suggestions: physical leaflets & online access

· All patients' decisions were reinforced.

- Increased confidence in the chosen treatment.
 - Two patients altered their treatment plans after the interviews.
 - The decision aid in this study incorporated a page of AAD4 summary, which was particularly useful in customising treatment plans for

These findings advocate for the implementation of clinical decision aid as a valuable tool in clinical teaching.

Future research: involve participants from a variety of backgrounds & long-term impact of using decision aids.

