A prototype for training teams: Type 1 diabetes clinic and multidisciplinary meeting simulation

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A Need for Change

Simulation-based education provides a safe environment for **experiential learning** of technical and non-technical skills and also supports ongoing self-regulated learning.

The **clinic and multidisciplinary meeting** (MDM) simulation aimed to improve trainees' data interpretation, presentation skills and knowledge of relevant technology whilst considering key psychosocial factors in management of patients with Type 1 Diabetes (T1D).

Evaluation and Feedback

13 trainees attended and 10 answered pre and post session questionnaire . The trainee day was rated using a Likert scale (poor (1) to excellent (5)) with a **mean score** of 4.7±0.64.

Qualitative feedback: Trainees enjoyed the 'interactive sessions' with 'problem solving aspects' and an 'abundance of educators'.
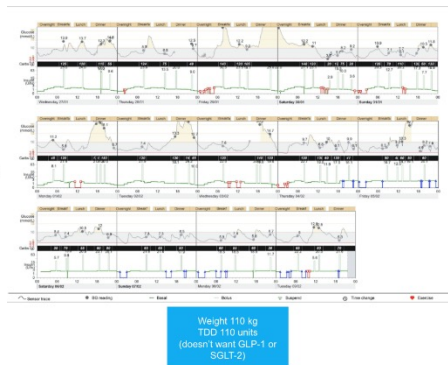
The Innovation and Implementation

Trainees were divided into **groups of 3-4** and each group was allocated a different case. The information provided included the patient's **background, concerns, and diabetes technology data**. Each group discussed their thoughts and then presented their case to a **multidisciplinary team** (MDT, diabetologist, diabetes specialist nurse, diabetes specialist dietitian, psychiatrist) structured in a similar format to the type 1 diabetes MDM at an inner city teaching hospital. A group discussion of each case followed with **key learning points** highlighted.

Skill	Difference in pre and post session scores (Likert scale 1= strongly disagree to 5 = strongly agree)
Performing an outpatient assessment of a complex patient with type 1 diabetes	3.64±0.88 to 4.38±0.7
Analysing data from diabetes technology and using this to inform the consultation	3.45±0.99 to 4.13±0.78
Initiating appropriate diabetes technology according to relevant guidelines	3.27±0.86 to 4.13±0.78
Considering the psychosocial factors in diabetes consultations	3.64±0.88 to 4.25±0.83

CASE 1

28-year-old female

- T1D for 10 years
- On CSII with MiniMed™640G for past 3 years
- Still having some hypos and then post-meal highs

- **Frustrated** with current glucose levels
- Struggling with highs and lows of glucose levels
- DDS 5
- Recent download

Weight 110 kg
TDD 110 units
(doesn't want GLP-1 or SGLT-2)

Current pump settings

Example case information including patient background, concerns and data from diabetes technology

Conclusions

Simulating a clinic and MDM encourages **collaborative learning** and promotes **problem-solving skills.** The variety of members from the MDT provides different perspectives to the management of patients and offer a unique learning opportunities in providing **holistic care.**