



# First year in a virtual clinic for adults with type 1 diabetes: Patient-reported measures, satisfaction, and glucose control

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# **Background**

Lack of availability and access to a multidisciplinary team with the required knowledge and skills to treat type 1 diabetes effectively using new technologies is recognized as a key limitation to achieving disease balance and management among adults in Israel.

The virtual clinic for adults with type 1 diabetes, established in 2019 at the Sheba Medical Center, is designed to address this issue using a hybrid model. The clinic has a multi-professional team, focuses on remote medicine, and provides patient access to the team beyond visits.

## Aim

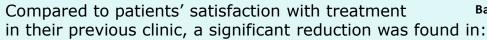
To assess the effect of the transition to medical follow-up in the virtual clinic on the patient experience, confidence in self-care, self-management behavior, and glycemic balance.

# Methodology

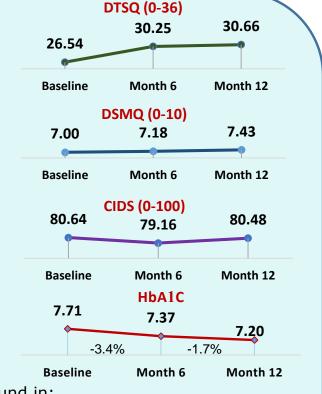
Seventy of the first 92 patients in the virtual clinic participated in the study. Data was collected at baseline, at 6 months, and at 12 months. Participants completed surveys on their satisfaction with diabetes care (DTSQ), diabetes self-management ability (DSMQ), confidence in diabetes self-management (CIDS), satisfaction with key clinic characteristics. Blood glucose level (HbA1c) was documented.

### Results

- ✓ There was a significant increase in patient satisfaction with treatment (DTSQ) from baseline to 6 months and to 12 months (p<0.001).
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- √ There was an increase over time in participants'
  perception of their ability to self-manage their
  diabetes (DSMQ) following their 1st clinic visit
  (p<0.001).
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- ✓ No significant changes were found in participants' confidence in diabetes selfmanagement (CIDS) across time points.
- ✓ Participants' glucose levels (HbA1C) improved from baseline to 6 months and to 12 months (p<0.001).</p>



- Number of times they were physically required to visit the clinic;
- Clinic team availability (doctor, nurse, etc.) improved beyond regular hours;
- Variety of ways to be in contact with the team and costs associated with clinic visits (e.g., travel and absence from work).



#### **Conclusion**

Treatment in a virtual clinic can improve type 1 diabetes patients' subjective and objective outcomes.

#### Recommendation

Expanding the possibilities of virtual health services for adults with type 1 diabetes is needed to improve outcomes.