

Improvement in diabetes control with diabetes monitoring system through remote log-on with Vtech CV 8300

Submission date

10/10/2002

Recruitment status

No longer recruiting

Registration date

10/10/2002

Overall study status

Completed

Last Edited

02/07/2009

Condition category

Nutritional, Metabolic, Endocrine

☐ Prospectively registered

☐ Protocol

☐ Statistical analysis plan

☒ Results

☐ Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

722006

Study information

Scientific Title

Study objectives

By using a remote log-in system, Vtech 8300, the 24-hour free access to the Diabetes Monitoring System (DMS) can be usefully employed to educate and reinforce the dietetic knowledge of diabetic patients. The immediate feedback mechanism can motivate and elicit their co-operation in the long-term management of their diabetic condition. This will result in an improvement in their sugar control.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Other

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Diabetes

Interventions

Patients were randomly assigned to the control group or the Vtech CV 8300 study group accordingly:

1. Study group: Each patient was issued a Vtech CV 8300 device. Home blood sugar data were collected. Calculations were done and immediate feedback on calories and nutrients were sent back to the patient
2. Control group: They would not have the Vtech CV 8300 or additional support apart from the usual follow up routine

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

1. Metabolic: metabolic control in terms of change in glycosylated haemoglobin A1c (HbA1c) over the whole study period was measured and compared
2. Acceptability of DMS: a questionnaire was given to the participant after the study to assess the acceptability and satisfaction with the DMS

Secondary outcome measures

Not provided at time of registration

Overall study start date

01/01/2000

Completion date

01/01/2002

Eligibility**Key inclusion criteria**

1. Aged between 18 - 50 years
2. Duration since diagnosis greater than 1 year
3. Diabetes on insulin therapy
4. On home blood glucose monitoring at least twice a week
5. No active diabetic maculopathy or retinopathy: pre-proliferating, proliferate or vitreous haemorrhage
6. No clinical evidence of coronary heart disease
7. Willingness to learn simple operations with data entry and log-in through the Vtech CV 8300

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

20 (10 in each group)

Key exclusion criteria

1. Poor compliance
2. Active eye complication
3. Unstable coronary heart disease

Date of first enrolment

01/01/2000

Date of final enrolment

01/01/2002

Locations

Countries of recruitment

Hong Kong

Study participating centre

Department of Medicine & Geriatrics

Kwun Tong

Hong Kong

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Sponsor information

Organisation

Hong Kong Health Services Research Fund (Hong Kong)

Sponsor details

Health Welfare and Food Bureau

Government Secretariat, HKSAR

20th floor Murray Building

Garden Road

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Hong Kong

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+852 (0)2973 8288

hsrf@hwfb.gov.hk

Sponsor type

Government

Website

http://www.fhb.gov.hk/grants/english/funds/funds_hhsrf/funds_hhsrf_abt/funds_hhsrf_abt.html

ROR

<https://ror.org/03qh32912>

Funder(s)

Funder type

Government

Funder Name

Hong Kong Health Services Research Fund (Hong Kong)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/06/2001		Yes	No