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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
[X] Results
[_] Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
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 ditetic 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

Primary study design
Interventional

Study design
Randomised controlled trial

Study type(s)
Treatment

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(s)
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 access the acceptability and satisfaction with the DMS

Key secondary outcome(s)
Not provided at time of registration

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

Healthy volunteers allowed
No

Age group
Adult

Lower age limit
18 Years

Sex
All

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)

ROR
https://ror.org/03qh32912

Funder(s)

Funder type
Government

Funder Name
Hong Kong Health Services Research Fund (Hong Kong)

Results and Publications

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