

User Evaluation of the DexCom™ SEVEN.2 Continuous Glucose Monitoring System

Submission date 19/05/2009	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
Registration date 29/06/2009	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 29/06/2009	Condition category Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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30173

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
Protocol Nr. 5181

Study information

Scientific Title

User Evaluation of the DexCom™ SEVEN.2 Continuous Glucose Monitoring System: a single-centre prospective non-randomised masked/un-masked intervention study

Study objectives

The study intends to evaluate user experience with the DexCom™ SEVEN.2 Continuous Glucose Monitoring System in the home environment and the effect of its use on glycaemic control.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Committee of Hannover Medical School approved on the 28th November 2008

Study design

Single-centre prospective non-randomised masked/un-masked intervention study

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Quality of life

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Type 1 diabetes mellitus

Interventions

During baseline Phase 1 (duration 21 days), subjects will be masked to the display of the DexCom™ SEVEN.2 continuous glucose readings. Subjects will calibrate the DexCom™ SEVEN.2 Receiver using standard fingerstick blood glucose testing with test strips. Subjects will manage their diabetes based upon the blood glucose measurements using their established regimen prescribed by their healthcare professional prior to study enrolment.

At the end of the Phase 1, subjects will return to the clinic to have their DexCom™ SEVEN.2 systems set to display continuous glucose readings and enable low and high glucose alarms. Subjects will continue for the rest of the study using the DexCom™ SEVEN.2 system as an adjunctive device to guide glucose management according to its intended use and warnings given in the User's Guide along with the advice of the study Investigator.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

To evaluate improvement in glycaemic variability in children, adolescents, and young adults, particularly in the reduction of the number of hypo- and hyper-glycaemic events, reduction of time spent outside of euglycemia glucose range, and reduction of glucose variability (standard deviation) through use of the DexCom™ SEVEN.2 Continuous Glucose Monitoring System, between masked and un-masked period.

Secondary outcome measures

To evaluate user experience with the DexCom™ SEVEN.2 Continuous Glucose Monitoring System. The HbA1C level will also be evaluated; the unmasked baseline phase A1C will serve as a self-control for the subjects.

Overall study start date

15/12/2008

Completion date

15/04/2009

Eligibility**Key inclusion criteria**

1. Documented type 1 diabetes mellitus diagnosis at least 1 year prior to enrolment
2. Recommended to perform daily self-monitoring blood glucose testing
3. Performing multiple daily insulin injections, or has been on an insulin pump, for at least 6 months prior to enrolment
4. Less than 24 years of age, either sex
5. Willing and capable of following the protocol and instructions provided by the investigator
6. Available for the entire study duration of 63 days and for follow up on scheduled study visit days
7. Provided written informed consent

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

Target enrolment: 55 patients with the aim of 50 completion

Key exclusion criteria

1. Subject has had an episode of severe hypoglycaemia in past four weeks prior to enrolment
2. Allergy to medical grade adhesives
3. Any medical condition or medication, which in the investigators opinion, may compromise

patient safety

4. Participation in any other study which may affect glucose measurements or glucose management

5. Known, suspected or planning pregnancy during study participation

Date of first enrolment

15/12/2008

Date of final enrolment

15/04/2009

Locations

Countries of recruitment

Germany

Study participating centre

Janusz-Korczak-Allee 12

Hannover

Germany

30173

Sponsor information

Organisation

DexCom Inc. (USA)

Sponsor details

6340 Sequence Drive

San Diego

United States of America

92121

Sponsor type

Industry

Website

<http://www.dexcom.com>

ROR

<https://ror.org/03ra42c27>

Funder(s)

Funder type

Industry

Funder Name

DexCom Inc. (USA)

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