Evaluation of the necessary frequency of blood glucose self-monitoring in type 2 diabetic patients. A prospective, controlled, randomised, multicenter study.

Recruitment status No longer recruiting	Prospectively registered	
	Protocol	
Overall study status	Statistical analysis plan	
Completed	[X] Results	
Condition category	[] Individual participant data	
	No longer recruiting Overall study status Completed	

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Study information

Scientific Title

Study objectives

To evaluate the impact of the frequency of blood glucose self-monitoring on glycaemic control (HbA1c and occurrence of hypoglycaemia) of type 2 diabetic patients. Currently there are no general recommendations on the frequency of self blood glucose monitoring in type 2 diabetics treated with a fixed insulin regime or oral antidiabetic medication. The study intends to compare over a follow-up period of 6 month patients with a high frequency of self-monitoring with those with a low frequency. This comparison is done separately for two groups of patients:

- 1. Treated with a fixed insulin regime
- 2. Treated with oral antidiabetic drugs only

Satisfaction with the recommended treatment is a secondary endpoint of the study.

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)

Not specified

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Type 2 diabetes mellitus

Interventions

Blood glucose monitoring

- 1. Patients on insulin mixture:
- 1.1 Maximum recommendation: every day fasting, every second day before dinner, additional

once a profile

- 1.2 Minimum recommendation: once a week a fasting blood glucose
- 2. Patients who get an oral antidiabetic:
- 2.1 Maximum recommendation: every second day a fasting blood glucose, once a week a blood sugar check before dinner
- 2.2 Minimum recommendation: one fasting blood glucose per week

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

HbA1c six months after start of the study

Secondary outcome measures

- 1. Hypoglycaemia with necessary outside help
- 2. Hyperosmolar coma
- 3. Quality of life
- 4. Compliance
- 5. HbA1c after 12 months

Overall study start date

01/12/2003

Completion date

01/10/2006

Eligibility

Key inclusion criteria

- 1. Patients treated with a fixed dose of mixture insulin twice a day
- 2. Patients who are treated with one or more oral antidiabetic drugs
- 3. From 35 to 80 years
- 4. Informed consent
- 5. Type 2 diabetic patients

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

400 (100 in each group)

Key exclusion criteria

- 1. Treatment with multiple insulin injections (more than 2/day)
- 2. Type 1 diabetic patients
- 3. Advanced renal insufficiency (known creatinine >2.5 mg/dl)
- 4. > 2 hypoglycaemia with necessary outside help within the last three months
- 5. Hypoglycaemic shock/hyperosmolaric coma within the last three months
- 6. Pregnancy
- 7. Severe impaired vision
- 8. Communication problems
- 9. Home care/nursing service

Date of first enrolment

01/12/2003

Date of final enrolment

01/10/2006

Locations

Countries of recruitment

Germany

Study participating centre

Deutsches Diabetes Zentrum an der Heinrich-Heine-Universität

Duesseldorf Germany 40225

Sponsor information

Organisation

Federal Ministry of Education and Research (Bundesministerium Für Bildung und Forschung [BMBF]) (Germany)

Sponsor details

Südstrasse 125 Bonn Germany 53175 +49 (0)2283821202 cornelia.bormann@dlr.de

Sponsor type

Government

ROR

https://ror.org/04pz7b180

Funder(s)

Funder type

Government

Funder Name

Federal Ministry of Education and Research (Bundesministerium Für Bildung und Forschung [BMBF]) - Germany - 01GL0303

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:	28/08/2008		Yes	No