Dr Kuen-Chang Hsieh

Development of a new foot-to-foot standing bioelectrical impedance analysis device to measure the abdominal visceral fat

Submission date 25/07/2012	Recruitment status No longer recruiting	Prospectively registeredProtocol
Registration date 26/10/2012	Overall study status Completed	Statistical analysis planResults
Last Edited 31/05/2017	Condition category Other	Individual participant dataRecord updated in last year
Plain English summary of protocol Background and study aims Bioelectrical impedance analysis (BIA) is a commonly used method for estimating body composition, and in particular body fat. Visceral fat is body fat that is stored within the abdominal cavity around internal organs such as the liver, pancreas and intestines. The aim of this study is to test a newly developed standing -posture BIA system to see whether it can accurately measure abdominal visceral fat.		
Who can participate? Healthy Taiwanese adults with normal physical activity		
What does the study involve? The abdominal visceral fat area measured using BIA is compared with the area measured using an abdominal computerized tomography (CT) scan.		
-	ole benefits and risks of pants are exposure to ra	participating? adiation during the CT scan, but this is a safe and legal
Where is the study run from? Dali Jen-Ai Hospital (China)		
When is the study starting and how long is it expected to run for? January 2008 to December 2013		
Who is funding the study? National Science Council of the Republic of China (China)		
Who is the main contact?		

Contact information

Type(s)

Scientific

Contact name

Dr Kuen-Chang Hsieh

Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Using computerized tomography to evaluate the foot-to-foot standing bioelectrical impedance analysis device to measure the abdominal visceral fat area

Study objectives

The newly developed standing-posture bioelectrical impedance analysis (BIA) system with four-contact electrodes can measure abdominal visceral fat area with accuracy.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institutional Review Board (IRB) of Advisory Committee at Jen-Ai Hospital, 11/05/2010, ref: 99-02

Study design

Randomised study

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Screening

Participant information sheet

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

Health condition(s) or problem(s) studied

Abdominal visceral fat measurement in healthy volunteers

Interventions

- 1. Abdominal VFA measurements using a standing BIA system
- 2. Abdominal VFA measurements using abdominal computerized tomography (CT) scanned at the L4-L5 level

Both of these two measurements were performed subsequently at the same condition.

Intervention Type

Device

Phase

Not Applicable

Primary outcome measure

Abdominal VFA measurements obtained using abdominal computerized tomography (CT) scanned at the L4-L5 level

Secondary outcome measures

Abdominal VFA measurements obtained using a standing BIA system

Overall study start date

01/01/2008

Completion date

31/12/2013

Eligibility

Key inclusion criteria

Healthy subjects with normal physical activity were selected in Taiwan

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

116 females and 154 males

Key exclusion criteria

- 1. The participants had no major diseases, such as diabetes, cancer, kidney dysfunction, liver diseases or long-term asthma
- 2. Pregnant women or women who were likely to become pregnant, menstruating women
- 3. Individuals with electronic implants (electronic devices attached to the body)

Date of first enrolment

01/01/2008

Date of final enrolment

31/12/2013

Locations

Countries of recruitment

Taiwan

Study participating centre National Chung Hsing University

Taichung 402 Taiwan 402

Sponsor information

Organisation

Charder Electronic Co.Ltd. (Taiwan)

Sponsor details

No.103 Guozhong Rd Dali District Taichung Taiwan 404

Sponsor type

Funder(s)

Funder type

Government

Funder Name

National Science Council of the Republic of China (China) (ref: NSC100-2410-H-028-001-MY3)

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