The effects of light on thermal physiology, thermal comfort and alertness

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Lighting conditions, the intensity as well as the colour, influence thermophysiolgical responses and thermal comfort.

Ethische beoordeling	Positief advies
Status	Werving gestopt
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON25849

Bron
Nationaal Trial Register

Verkorte titel
Ledther

Aandoening

Healthy subjects

Ondersteuning

Primaire sponsor: MUMC+
Overige ondersteuning: This project is funded by the STW -Philips Electronics Nederland B.V. Partnership Program “Advanced Sustainable Lighting Solutions” (no.12733).

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Themal comfort and thermal sensation
Human energy expenditure
Alertness
Core and Skin temperatures

Toelichting onderzoek

Doel van het onderzoek

Lighting conditions, the intensity as well as the colour, influence thermophysiolgical responses and thermal comfort.

Onderzoeksopzet

Subjects are exposed to lighting conditions for 5 hours. The different lighting conditions are provided at different days. Each subject has to participate in two experimental days, and therefore will be exposed to two lighting exposures.

Onderzoeksproduct en/of interventie

During the experiments the lighting conditions vary in intensity (bright and dim light) and in colour (long wavelength and short wavelengths). Experiments will be done under mild warm, mild cold and thermo neutral temperatures.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

• Caucasian volunteers

• Generally healthy

• Age: 18 to 30 years

• BMI: 20-25 kg/m2

• Fat percentage: 20-30%

• Using Microgynon 30 or levonorgestrel/ehinylestradiol

• Normal chronotype

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

• Colour blindness

• Ocular pathologies

• Medication use

• Pregnancy

• Hypertension (systolic/diastolic blood pressure >140/90)

• Hypotension (systolic/diastolic blood pressure <90/60)

• General feeling of illness at day of experiment

• (History of) cardiovascular diseases

• Contraindications of the telemetric pill:

o In the presence of any known or suspected obstructive disease of the gastrointestinal tract, including but not limited to diverticulitis and inflammatory bowel disease

o A history of disorders or impairment of the gag reflex

o Previous gastrointestinal surgery

o Hypo motility disorders of the gastrointestinal tract including but not limited to ileus

• Participants that do not want to be informed about accidental medical findings, which might occur during the study. If participants do not agree that they will be informed about unexpected medical findings, they cannot participate in the study.

• Employees of the research group “Thermu” are excluded from participation.

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Cross-over
Toewijzing:	Gerandomiseerd
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving gestopt
(Verwachte) startdatum:	01-11-2014
Aantal proefpersonen:	48
Type:	Werkelijke startdatum

Ethische beoordeling

Positief advies

Datum:	26-02-2015
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 44432
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4877
NTR-old	NTR5148
CCMO	NL49108.068.14
OMON	NL-OMON44432

Resultaten

Samenvatting resultaten
not applicable