

The effect Of Preferred music on menTal workload and laparoscopic performMance In a Simulated sEtting (OPTIMISE): A crossover study

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The purpose of this study is to investigate the effect of recorded music on surgical task performance and mental workload in a simulated setting. The study hypothesis is that preferred music will improve surgical task performance and decrease mental...

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON24136

Bron

NTR

Verkorte titel

OPTIMISE

Aandoening

Not applicable

Ondersteuning

Primaire sponsor: Erasmus MC, Rotterdam

Overige ondersteuning: None

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary objective is to investigate the effect of participant-preferred music on laparoscopic task performance as defined by time to task completion.

Toelichting onderzoek

Achtergrond van het onderzoek

Rationale: The effect of recorded music on laparoscopic surgical performance and mental workload has varying reported results. This crossover study will investigate the effects of participant-preferred music on laparoscopic task performance and mental workload.

Objective: The objective is to investigate whether listening to recorded participant-preferred music has a positive effect on laparoscopic task performance and mental workload.

Study design: This study will be a four-sequence, four-period, two-treatment crossover study.

Study population: 90 Medical students and / or residents.

Intervention (if applicable): Participants will perform a laparoscopic task whilst listening to recorded, participant-preferred music. The control group will perform a laparoscopic task without music, but with recorded surgical background noise.

Main study parameters/endpoints: The primary endpoint is laparoscopic task performance as defined by time to task completion. Secondary endpoints are additional laparoscopic task performance parameters (path length, jerk, economy of motion and error score), subjective mental workload (SURG-TLX) and objective mental workload (heart rate variability).

Nature and extent of the burden and risks associated with participation, benefit and group relatedness: Music has no known deleterious effects. The music volume will be limited in order to prevent noise induced hearing loss.

Doel van het onderzoek

The purpose of this study is to investigate the effect of recorded music on surgical task performance and mental workload in a simulated setting. The study hypothesis is that preferred music will improve surgical task performance and decrease mental workload

Onderzoeksopzet

Start inclusion 01-09-2019, end inclusion 31-12-2019, data analysis finished 01-02-2020, manuscript draft 01-03-2020

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

In order to be eligible to participate in this study a subject must meet all of the following criteria.

- Age $\geq$ 18 years
- Medical students and / or residents
- Provision of written informed consent by the subject.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

A potential subject who meets any of the following criteria will be excluded from participation in this study:

- Severe hearing impairment, defined as no verbal communication possible.
- Severe visual impairment, defined as not able to see the monitor on which the laparoscopic task is projected.
- Any physical handicap that impairs laparoscopic performance (unable to stand for 10 minutes, unable to hold and use both instruments), to be judged by a member of the research team.
- Use of cardiac medication

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Cross-over
Toewijzing:	Gerandomiseerd
Blinding:	Enkelblind
Controle:	Placebo

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-09-2019
Aantal proefpersonen:	90
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies	
Datum:	15-08-2019
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL7961
Ander register	METC Erasmus MC : MEC-2019-0537

Resultaten