

Sleep patterns in internal medicine resident physicians and the effect of heartfulness meditation

Submission date 24/02/2021	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 04/03/2021	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 09/06/2022	Condition category Other	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Resident physicians have a high level of burnout and stress. Adequate sleep is essential for resident wellbeing. Interventional studies on resident sleep patterns are scant. The current study aims to measure the sleep patterns of resident physicians during 1 week of outpatient rotation using a consensus sleep diary (CSD) and actigraphy watches during baseline week and assess the impact of Heartfulness meditation on these parameters during the intervention week.

Who can participate?

All eligible internal medicine resident physicians at Wellspan York Hospital.

What does the study involve?

The study involves filling a CSD daily and wearing the actigraphy watches during the baseline and intervention weeks. It also involves participating in daily guided meditation during the day time and listening to relaxation audio before sleep during the intervention week

What are the possible benefits and risks of participating?

The benefits include possible improvement of sleep quality and other parameters of sleep. There may be unwanted emotions, thoughts and feelings surfacing up during meditation that may provoke anxiety or stress. If such experiences occur, participants may stop at any time and may only do what they are comfortable with.

Where is the study run from?

Wellspan Apple Hill internal medicine outpatient office (USA)

When is the study starting and how long is it expected to run for?

February 2017 to October 2020

Who is funding the study?

1. Alliance for Academic Internal Medicine (AAIM) (USA)
2. Lake Erie College of Osteopathic Medicine (LECOM) (USA)

Who is the main contact?
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Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
1040076-6

Study information

Scientific Title
Sleep patterns in internal medicine resident physicians and the effect of heartfulness meditation during outpatient rotation

Study objectives
Participation in daily Heartfulness meditation improves sleep parameters in resident physicians during outpatient rotation.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 23/05/2017, WellSpan Institutional Review Board (1001, S George St., Wellspan Health, York, Pennsylvania, 17402, USA; +1 (0)717 851 2223; irb@wellspan.org), ref: not applicable

Study design
Single-center non-randomized prospective pre-post cohort study

Primary study design

Interventional

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

Sleep quality in resident physicians

Interventions

A consensus sleep diary (CSD) is completed, and sleep is monitored using actigraphy during a 1-week outpatient rotation. After four intervening weeks, when the residents returned to the same rotation, Heartfulness meditation is practiced and the same parameters are measured. All the participating residents in the study are given instructions on Heartfulness meditation, and daily guided relaxation and meditation sessions are conducted in the office for 20 minutes. In addition, participants are asked to listen to a Heartfulness relaxation audio prior to sleep.

Intervention Type

Behavioural

Primary outcome(s)

Sleep quality measured using Consensus Sleep Diary (CSD) and actigraphy watches measured during baseline outpatient rotation week and repeated during the intervention week with Heartfulness meditation

Key secondary outcome(s)

1. Subjective sleep quality measured using CSD during baseline outpatient rotation week and repeated during the intervention week with Heartfulness meditation
2. Objective sleep parameters measured using actigraphy watches during baseline outpatient rotation week and repeated during the intervention week with Heartfulness meditation

Completion date

01/10/2020

Eligibility**Key inclusion criteria**

All resident physicians willing to participate in the study

Participant type(s)

Health professional

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Total final enrolment

36

Key exclusion criteria

1. Residents unwilling to participate in the study
2. This study is not designed for people who are experiencing psychological distress that may be associated with bipolar disorder, substance abuse (drugs or alcohol abuse in last 6 months), alcohol withdrawal, BMI <18 kg/m², suicidal ideation, active psychotherapy, major depression, anxiety disorder, obstructive sleep apnea requiring CPAP, eating disorder, borderline personality disorder, posttraumatic stress disorder, or psychotic disorder

Date of first enrolment

06/01/2019

Date of final enrolment

03/02/2019

Locations**Countries of recruitment**

United States of America

Study participating centre**Wellspan Health**

1001, S George St

York

United States of America

17402

Sponsor information**Organisation**

WellSpan Health

ROR

<https://ror.org/01nknep14>

Funder(s)**Funder type**

University/education

Funder Name

Lake Erie College of Osteopathic Medicine

Funder Name

Alliance for Academic Internal Medicine

Results and Publications

Individual participant data (IPD) sharing plan

Participant data is stored with the research department at Wellspan Health.

IPD sharing plan summary

Stored in repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		23/09/2021	09/06/2022	Yes	No