

The effect of screen time on nighttime urinary incontinence

Submission date
14/05/2022

Recruitment status
No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date
23/05/2022

Overall study status
Completed

☐ Statistical analysis plan

☒ Results

Last Edited
22/02/2023

Condition category
Urological and Genital Diseases

☐ Individual participant data

Plain English summary of protocol

Background and study aims

Bladder and nighttime bed wetting (nocturnal enuresis) are common problems in children. The aim of this study is to investigate if there is a relationship between screen time and the severity of primary monosymptomatic (meaning patients who have never been consistently dry at night) nocturnal enuresis (PMNE) and treatment success.

Who can participate?

Children and adolescents aged from 6 to 18 years

What does the study involve?

Patients with PMNE are randomly allocated to one of two groups and both groups are given treatment. One group is requested to reduce daily screen time to less than 60 minutes and the other group is given unrestricted screen time.

What are the possible benefits and risks of participating

Participants are expected to benefit from reduced screen time by progressing in various developmental stages, including emotional, cognitive, behavioral, and sleep quality. There are no known risks to participants.

Where is the study run from?

Afyonkarahisar Health Sciences University Hospital

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

February 2021 to October 2021

Who is funding the study?

Investigator initiated and funded

Who is the main contact?

Dr Arif Demirbas

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Contact information

Type(s)

Principal Investigator

Contact name

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Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

Nil known

Study information

Scientific Title

The effect of screen time on the presentation and treatment of primary monosymptomatic nocturnal enuresis

Acronym

SToPMNE

Study objectives

We aimed to investigate if there was any relationship between screen time and the severity of primary monosymptomatic nocturnal enuresis and treatment success

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 05/03/2021, Afyonkarahisar Health Sciences University Clinical Research Ethics Committee (Dörtüol, 2070. Sokak NO:3/4. 03030 Afyonkarahisar Merkez/Afyonkarahisar, Turkey; +90 272 246 33 01; klinikarastirmalar@afsu.edu.tr), ref: 2011-KAEK-2/198

Study design

Interventional randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

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

Health condition(s) or problem(s) studied

Primary monosymptomatic enuresis

Interventions

1. After a diagnosis of primary monosymptomatic nocturnal enuresis, classified as mild (1-2 wet nights/week), moderate (3-5 wet nights/week) and severe (6-7 wet nights/week), patients were separated by the amount of screen time:

Group 1. < 120 min mean screen time/day

Group 2. > 120 min mean screen time/day

2. For treatment response, patients were randomly assigned to treatment:

Group 3. Patients were administered 120 µg desmopressin melt (DeM) and, in addition to supportive treatment, were requested to reduce daily screen time to < 60 mins

Group 4. Patients were given 120 µg DeM and supportive treatment was recommended with no restriction of screen time

3. Patients who reduced their screen time to less than 60 minutes were followed for 3 months.

4. Patients without recurrence, defined by one or more night-time bed wetting events in month 4, received further recommendations and terminated the trial.

5. Patients with recurrence were re-evaluated and treatment was planned. Treatment of other patients who did not benefit from treatment and behavioral adjustments continued.

6. The groups were statistically compared in respect of descriptive data, response to treatment, and recurrence.

Intervention Type

Behavioural

Primary outcome measure

Treatment response measured by the dryness of a child's sleeping quarters recorded daily on waking, defined as a full response at 100% dryness, a partial response at 50-99% dryness, or a failure at <50% dryness at month 3. Patients in groups 3 and 4 with a full response had their DeM treatment terminated and recurrence, defined by one or more night-time bed wetting events in month 4, was determined at a follow-up visit at the end of month 4.

Secondary outcome measures

Late recurrence, defined by one or more night-time bed wetting events from month 4 and measured daily on waking, was recorded at a 6-month long-term follow-up visit.

Overall study start date

01/02/2021

Completion date

15/10/2021

Eligibility**Key inclusion criteria**

1. Aged 6 to 18 years
2. Diagnosed as primary monosymptomatic enuresis nocturna as a result of history, physical examination and routine tests
3. Have not had an operation due to urinary system pathologies before
4. A body mass index below the 95th percentile
5. Screen exposure of different durations
6. Caregivers or patients who can keep a voiding diary, nighttime bedwetting chart

Participant type(s)

Patient

Age group

Child

Lower age limit

6 Years

Upper age limit

18 Years

Sex

Both

Target number of participants

75

Total final enrolment

71

Key exclusion criteria

1. A diagnosis with secondary enuresis and non-monosymptomatic nocturnal enuresis
2. Previously treated for nocturnal enuresis
3. Neurological disease, obstructive respiratory diseases and diabetes mellitus
4. Previously diagnosed neurogenic bladder, vesicoureteral reflux, urinary system stone disease
5. Previous surgery due to urinary pathology
6. A body mass index above the 95th percentile
7. Caregivers or patients who cannot keep a voiding diary, nighttime bedwetting chart

Date of first enrolment

15/03/2021

Date of final enrolment

15/06/2021

Locations**Countries of recruitment**

Türkiye

Study participating centre

Afyonkarahisar Health Sciences University

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Sponsor information**Organisation**

Afyonkarahisar Health Sciences University

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Sponsor type

University/education

Website

<https://afsu.edu.tr/>

Funder(s)

Funder type

Other

Funder Name

Investigator initiated and funded

Results and Publications

Publication and dissemination plan

Planned publication in a high-impact peer- reviewed journal

Intention to publish date

01/07/2022

Individual participant data (IPD) sharing plan

The datasets generated during and/or analyzed during the current study are/will be available upon reasonable request from Hacer Gizem Gerçek, gizem.gercek@afsu.edu.tr

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		17/02/2023	22/02/2023	Yes	No