

Epilepsy, anti-epileptic drugs and osteoporosis: prevalence of osteoporosis in adults with epilepsy.

Epilepsie, anti-epileptica en botontkalking: een onderzoek naar hoe vaak botontkalking voorkomt onder volwassenen met epilepsie.

No registrations found.

Ethical review	Positive opinion
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON28623

Source

NTR

Brief title

EPANOS

Health condition

Epilepsy, osteoporosis, anti-epileptic drugs, bone metabolism.

Epilepsie, osteoporose, anti-epileptica, botmetabolisme.

Sponsors and support

Primary sponsor: Atrium Medisch Centrum Parkstad

Source(s) of monetary or material Support: Not applicable.

Intervention

Outcome measures

Primary outcome

T-score DEXA scan.

Secondary outcome

1. Association between bone mineral density and use of type of anti-epileptic drug(s);
2. Association between bone mineral density and number of anti-epileptic drugs and dosage.

Study description

Background summary

Epilepsy, anti-epileptic drugs and osteoporosis: prevalence of osteoporosis in adults with epilepsy (EPANOS).

Chronic use of anti-epileptic drugs (AEDs) is associated with low bone mineral density. However, not for all anti-epileptic drugs this association has yet been found.

To determine the prevalence of osteopenia and osteoporosis in adult patients with epilepsy and anti-epileptic drugs (who are visiting the outpatient department Neurology of the Atrium Medisch Centrum) by measurement of the bone mineral density with dual-energy X-ray absorptiometry (DEXA-scan). The primary outcome is the T-score of the DEXA-scan. Moreover we also investigate if there is any association between the bone mineral density and the type of anti-epileptic drug(s) used (enzyme-inducing vs non-enzyme-inducing AEDs), the number of anti-epileptic drugs or the dosage of these drugs. We expect to find an increased prevalence of osteoporosis in the adult patients with epilepsy who are visiting the outpatient department Neurology of the Atrium Medisch Centrum.

Study objective

Chronic use of anti-epileptic drugs is associated with low bone mineral density. However, not for all anti-epileptic drugs this association has been found.

To determine the prevalence of osteopenia and osteoporosis all adult patients with epilepsy

and anti-epileptic drugs are screened with dual-energy X-ray absorptiometry for the presence of osteoporosis. In the literature the prevalence varies between 20-75%, depending on the population studied.

The investigators expect to find an increased prevalence of osteoporosis in the adult patients with epilepsy who are visiting the outpatient department Neurology of the Atrium Medisch Centrum .

Study design

N/A

Intervention

N/A

Contacts

Public

Henri Dunantstraat 5
Postbus 4446
K. Beerhorst
Henri Dunantstraat 5
Postbus 4446
Heerlen 6401 CX
The Netherlands
+31 (0)45-5766700

Scientific

Henri Dunantstraat 5
Postbus 4446
K. Beerhorst
Henri Dunantstraat 5
Postbus 4446
Heerlen 6401 CX
The Netherlands
+31 (0)45-5766700

Eligibility criteria

Inclusion criteria

1. Adults \geq 18 years;

2. Diagnosis of epilepsy;
3. Current treatment with anti-epileptic drugs.

Exclusion criteria

1. No dual-energy X-ray absorptiometry;
2. No determination of calcium, 25-hydroxy vitamin D, alkaline phosphatase and parathormone.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-01-2010
Enrollment:	50
Type:	Anticipated

Ethics review

Positive opinion	
Date:	19-09-2009
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL1904
NTR-old	NTR2020
Other	METC Atrium MC Parkstad : 09-N-62
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results

N/A