# Gardens for people with dementia

Submission date	Recruitment status  No longer recruiting	Prospectively registered		
15/07/2022		[X] Protocol		
<b>Registration date</b> 28/07/2022 <b>Last Edited</b> 08/05/2025	Overall study status Completed  Condition category Mental and Behavioural Disorders	Statistical analysis plan		
		☐ Results		
		Individual participant data		
		[X] Record updated in last year		

## Plain English summary of protocol

Background and study aims

A limited amount of research has examined how nature-based palliative rehabilitation can be implemented in nursing homes for people with dementia, even though evidence suggests that these gardens are underused. The aim of the study is to develop and implement a nature-based palliative rehabilitation intervention on how nursing home gardens can be used by people with dementia to improve a range of health outcomes.

#### Who can participate?

People with dementia living in a long-term care nursing home and their care staff

#### What does the study involve?

An intervention where researchers, staff, residents and relatives co-design an activity program in a garden whereafter the program will be tested. The intervention involves staff using the garden together with residents twice a week for one month.

What are the possible benefits and risks of participating? Possible benefits are improvements in well-being, better sleep and higher job satisfaction. Possible risks are that it may be time-consuming.

Where is the study run from?
The University of Southern Denmark (Denmark)

When is the study starting and how long is it expected to run for January 2019 to September 2023

Who is funding the study THE VELUX FOUNDATIONS (Velux Fonden) (Denmark)

Who is the main contact Dr Tanja Schmidt (Denmark) tbschmidt@health.sdu.dk

## Contact information

#### Type(s)

Scientific

#### Contact name

Dr Tanja Schmidt

#### **ORCID ID**

https://orcid.org/0000-0003-2476-8711

#### Contact details

Campusvej 55 Odense Denmark 5230 +45 61361525 tbschmidt@health.sdu.dk

## Additional identifiers

#### **EudraCT/CTIS** number

Nil known

#### **IRAS** number

#### ClinicalTrials.gov number

Nil known

## Secondary identifying numbers

Nil known

## Study information

#### Scientific Title

Nature-based palliative rehabilitation for people with dementia to lower behavioural and psychological symptoms of dementia

## **Study objectives**

Rationale: we are assessing whether a nature-based palliative rehabilitation program in a nursing home for people with severe dementia, can positively affect residents' behavioural and psychological symptoms of dementia (BPSD), medication use, and care staff's burnout rate.

## Ethics approval required

Ethics approval required

## Ethics approval(s)

Approved 26/11/2019, RIO (University of Southern Denmark ethics board) (Campusvej 55, Odense M, 5230, Denmark; +45 65507550; sdu.persondata@sdu.dk), ref: 10.804

## Study design

Single-cased quasi-experimental intervention study with no control group

#### Primary study design

Interventional

#### Secondary study design

Non randomised study

#### Study setting(s)

Care home

#### Study type(s)

Quality of life

## Participant information sheet

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

## Health condition(s) or problem(s) studied

Lowering behavioural and psychological symptoms of dementia (BPSD) symptoms and medication in people with severe dementia

#### **Interventions**

We will create a nature-based palliative rehabilitation program together with a nursing home for people with dementia. This includes re-designing their garden to accommodate activities for people with dementia. Staff are required to use the garden together with residents 2 times a week for a whole month. We will collect baseline and follow-up data on behavioural and psychological symptoms of dementia (BPSD) symptoms using the Neuropsychiatric Inventory Nursing Home Version (NPI-NH) survey, registration of medication use, and a survey on staff burnout.

#### Intervention Type

Behavioural

#### Primary outcome measure

Behavioural and psychological symptoms of dementia (BPSD) measured using the Neuropsychiatric Inventory Nursing Home Version (NPI-NH) survey at baseline and 1 month after

## Secondary outcome measures

- 1. Staff burnout measured using a questionnaire administered to staff at baseline and 1 year after
- 2. Medication measured using staff registrations at baseline and 1 month after

## Overall study start date

01/01/2019

### Completion date

29/09/2023

## Eligibility

#### Key inclusion criteria

- 1. People with dementia living at a long-term care nursing home in Denmark
- 2. Staff caring for people with dementia living at a long-term care nursing home in Denmark

### Participant type(s)

Patient, Health professional

#### Age group

Adult

#### Sex

Both

#### Target number of participants

52 people with dementia and 86 care staff

#### Key exclusion criteria

Staff who do not have care responsibilities

#### Date of first enrolment

01/06/2022

#### Date of final enrolment

01/06/2022

## Locations

#### Countries of recruitment

Denmark

## Study participating centre Kildebakken Plejecenter

Varbergvej 13 Haderslev Denmark 6100

## Sponsor information

#### Organisation

The Velux Foundations

#### Sponsor details

Tobaksvejen 10 Søborg Denmark 2860 +45 39 57 09 57 info@VELUXFOUNDATIONS.dk

## Sponsor type

Charity

#### Website

https://veluxfoundations.dk

#### **ROR**

https://ror.org/007ww2d15

## Funder(s)

#### Funder type

Charity

#### **Funder Name**

Velux Fonden

## Alternative Name(s)

Velux Foundations, The Velux Foundations

### **Funding Body Type**

Private sector organisation

#### **Funding Body Subtype**

Trusts, charities, foundations (both public and private)

#### Location

Denmark

## **Results and Publications**

### Publication and dissemination plan

Current publication and dissemination plan as of 08/05/2025:

- 1. Planned publication in peer-reviewed journals
- 2. Participation in two international conferences
- 3. Develop a practical guide (The Dementia-Friendly Garden) for further dissemination

Previous publication and dissemination plan:

- 1. Planned publication in a high-impact peer-reviewed journal
- 2. Participation in two international conferences

#### Intention to publish date

01/07/2025

## Individual participant data (IPD) sharing plan

Current IPD sharing plan as of 08/05/2025:

The data generated and/or analyzed during this study may be made available from the main contact person, Thomas Skovgaard (tskovgaard@health.sdu.dk), starting 01/01/2025, for a period of one year. Access may be granted upon reasonable request to researchers affiliated with recognized research institutions, for research purposes only. Data will be fully anonymized, and appropriate consent will be obtained prior to any sharing.

#### Previous IPD sharing plan:

The datasets generated during and analysed during the current study will be available upon request from Tanja Schmidt, tbschmidt@health.sdu.dk, anonymized data, 01/01/2025, for 1 year, by other researchers working at research institutes, for research purposes only, consent will be obtained, and data anonymized.

## IPD sharing plan summary

Available on request

## **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article		23/10/2022	25/10/2022	Yes	No