Understanding the many **symptoms** of Parkinson's and how to spot it

Parkinson's is the fastest-growing neurological condition in the world. Around 145,000 people in the UK have the condition, but everyone's experience is different due to there being more than 40 symptoms.

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symptoms, and how

themselves can vary

arkinson's is a progressive neurological condition and there is currently no cure. The condition develops when nerve cells - that are responsible for producing the chemical dopamine - die.

Dopamine allows messages to be sent to the parts of the brain that coordinate movement. With the loss of dopamine-producing nerve cells, these parts of the brain are unable to work normally, causing symptoms

of Parkinson's to appear. As dopamine levels continue to fall existing symptoms will further develop, and new symptoms will appear.

Symptoms of Parkinson's The three most

recognised symptoms of Parkinson's are a tremor (shaking).

slowness of movement and rigidity or muscle stiffness. However, there are over 40 symptoms, and how they first present themselves can vary from

Someone might start having balance or coordination problems. They could lose their sense of smell or experience gait changes, where they lean forward slightly or shuffle when walking. Other people have fixed facial expressions (or a 'mask') due to changes in the nerves



WRITTENBY of the Parkinson's that control their facial muscles. They might struggle with low mood and fatigue, or their handwriting could become smaller and difficult to read. Insomnia, apathy and anxiety can also be early signs of Parkinson's.

What treatments are available?

There's currently no cure for Parkinson's: but medication. physical activity and physiotherapy speech and language therapy and occupational therapy can all be used

on a variety of factors including the type to manage symptoms. of dementia, the Deep brain person's age, their stimulation (DBS) is general health and a type of surgery that their lifestyle. It can people may be offered be helpful to think of dementia progressing if drug treatments become less effective in three stages: early, at easing movement middle and late

from person to person. from progressing, but in many cases, it gives people with the condition better control of their motor

symptoms. It doesn't

stop Parkinson's

Everyone's Parkinson's is unique, so different treatment combinations will suit different people. Anyone concerned that they may have Parkinson's should see their GP. Getting information about the condition and finding support can be a huge help for people who are

Parkinson's on the Parkinson's UK website:

parkinsons.org.uk and via the free, confidential

helpline (0808 800 0303) and online forum.

In the middle stage of dementia, symptoms become more pronounced



Alzheimer's research embraces the benefits of the

Virtual clinical trials (VCTs) are an exciting development in cognitive research. Certain tests needed for clinical or academic studies are taken out

of the olinic and brought into participants' homes.

digital world

igital cognitive assessments are changing how we conduct Alzheimer's studies. Cognitive tests are used in clinical and research studies to understand a participant's brain

Making clinical trials virtual Digital cognitive tests can be

completed at home on tablets. computers and even smartphones. They can be taken daily or weekly, delivering a more realistic picture of changes over time.

Digital cognitive assessments have been available for over 30 years and are now widely used in healthcare research. However, at first, there was

reluctance to adopt them in clinical studies over concerns that older people may prefer a paper version of the test. However, when an Australian study compared digital with paper methods of assessing cognitive health in participants aged 55-96 years, they reported that 54,3% of participants preferred the computerised cognitive assessments.

Important tool for Alzheimer's research Drugs targeting Alzheimer's are

thought to be most effective early in the course of the disease when symptoms are very subtle or even absent in standard assessments. Therefore, enrolling people in the earliest stages of Alzheimer's in trials is a priority to help find a cure. This is where digital assessments offer promise, as they can detect and monitor the earliest stages of the disease. An example is CANTARTM Paired Associates Learning (PAL). which tests episodic memory. In PAL, different images flash up in boxes on the screen. One image then appears in the middle of the screen, and the participant must select the box that conceals the same shape Research has shown that PAL activates areas of the brain involved early in the course of Alzheimer's disease.

Another exciting, new development is the use of voice to understand early cognitive changes. Voice analysis technology such as NeuroVocalixTM uses machine learning techniques to identify subtle changes in speech which may indicate early cognitive decline

Greater patient benefit

The most exciting thing about virtual clinical trials is the benefit to patients and their carers. At-home testing enables greater accessibility as people who find leaving home difficult can still participate in this important aspect of the research process. It's wonderful to see the clinical and research world embracing this opportunity for people wishing to participate in Alzheimer's studies.

1. Earl, J. K., Gerrans, P., & Hunter, M. (2017). Better ways of

Find out more at

Find out more at

firstlineprotect.co.uk

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The 4G Care Watch - Enabling friends and families to utilise professional telehealthcare services alongside our digital solutions and monitoring expertise to maximise independence amongst those who need it most. With features such as Fall Detection, GPS Tracking, Family Monitoring App, 2-way voice, Medication reminders and much more. All 4G Care Watch will work anywhere in the UK, Europe and USA - No installation or programming required.









Clinerion Real World Data for research

- Instantaneous analytics for better disease understanding and patient care
- Streamlined and equitable feasibility and participant identification process
- Better diagnosis of patients through machine learning.



Finding the right support at the

different stages of dementia

A dementia specialist nurse charity has published guidance to help families

understand the three stages of dementia.

Seeing significant

changes in someone you

care for can be upsetting

making decisions about

long-term care can cause

feelings of guilt and loss.

for family and friends, and

and can have a bigger impact on daily

life. Changes that might occur include

difficulty getting to sleep, restlessness

a state of intense anxiety that typically

In the late stage of dementia, changes

can become more pronounced to

the point that a person is unable

to live independently. They may

require longer-term support such as

live-in care from

professional carers

or residential care.

Seeing significant

changes in someone

you care for can be

upsetting for family

and friends, and

guilt and loss.

What support is

with dementia?

Dr Hilda Havo, Chief Admiral Nurse

and Chief Executive at Dementia UK

challenges associated with a diagnosis

may change through stages over time.

person and their family; and it can be

difficult to know where to turn to for

support. Our Admiral Nurses are best

placed to deliver specialist support

to families navigating the different

the whole family."

stages of the condition. They can offer

practical and emotional guidance for

If you need advice or support around dementis

you can visit dementiauk.org/get-support for

nformation resources and find out how to access

tia UK's Admiral Nurse Dementia Helplin and Olinics services.

says: "We understand the complex

of dementia and how the condition

Every time a diagnosis of dementia

is made, it is life-changing for the

available to families

making decisions

about long-term care

can cause feelings of

with the inability to sit still and

sundowning -

occurs around sunset.

here are over 200 different types

of dementia - all of which can

be difficult to identify and diagnose in

Dementia is an umbrella term for

a range of conditions affecting the

brain, which gradually worsen over

time. As dementia progresses, it can

affect a person's thinking, behaviour

the early stages.

What is dementia?

and understanding

may happen quickly

or slowly, depending

stages However the

condition will affect

everyone differently.

What are the different stages of

a person begins to show early

Early-stage dementia occurs when

symptoms. For many people, this

stage will last for months or years.

In some, rare cases, it may progress

much quicker. A person at this stage

might experience mild difficulties with

memory and concentration, language

and communication and decision-

of the world. This

present in various ways and can

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