Carol Vennard Bsc Independant prescriber

Parkinson's Disease Nurse Specialist

Queen Elizabeth University Hospital

The Parkinson's Journey

From diagnosis to death and what lies between

Not going to talk about drug treatments in any detail

What is Parkinson's?

Progressive and fluctuating neurological condition that primarily affects movement

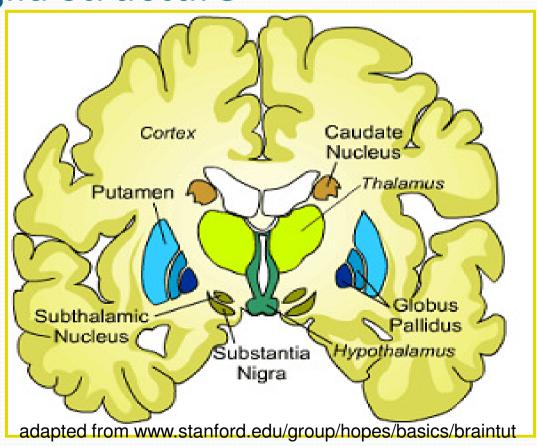
First described in 1817 by James Parkinson in his famous monograph *An essay on the shaking palsy*

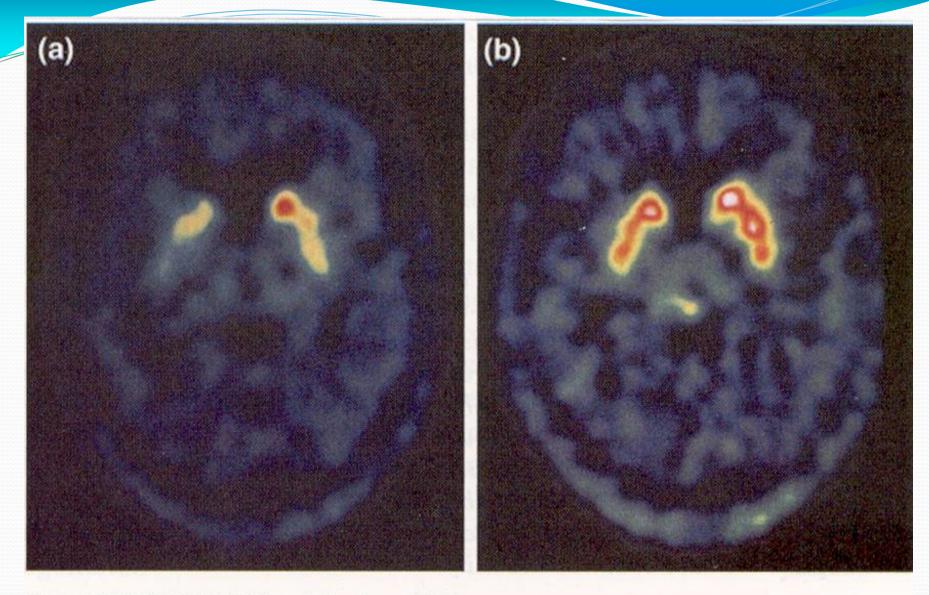
What is Parkinson's Cont

It is a depletion and an imbalance of neurotransmitters

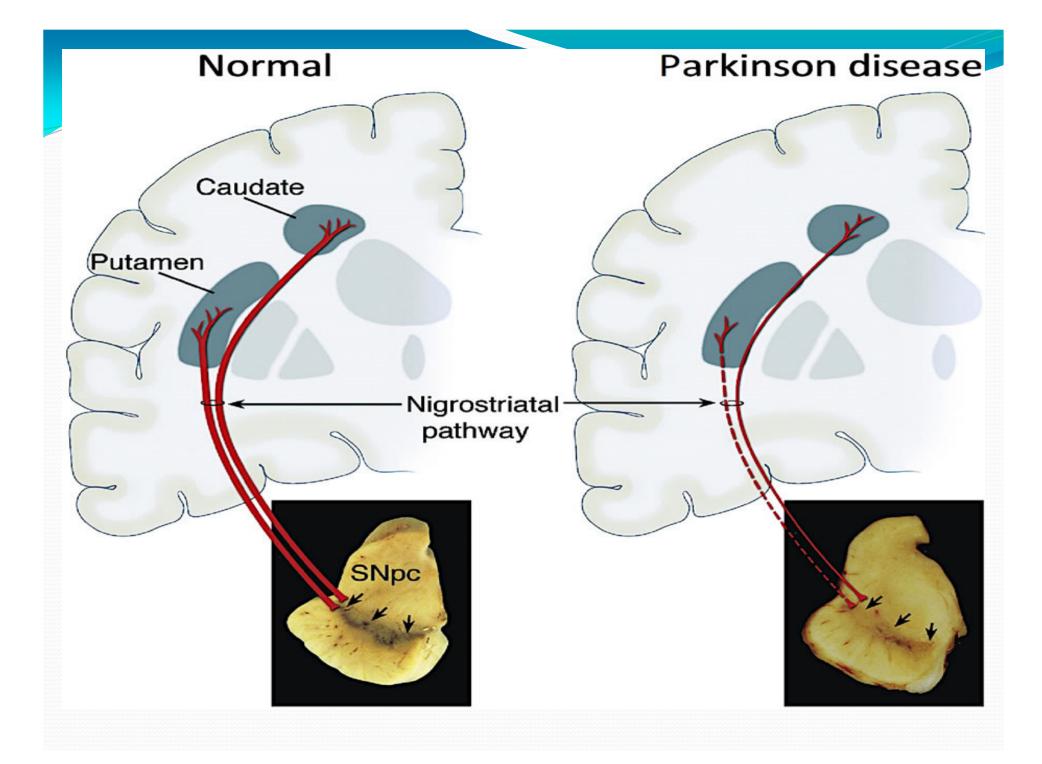
Now recognised that it is not simply a movement disorder, but a multisystem neurological disorder which affects cognitive processes, emotion and autonomic function

Basal Ganglia structure

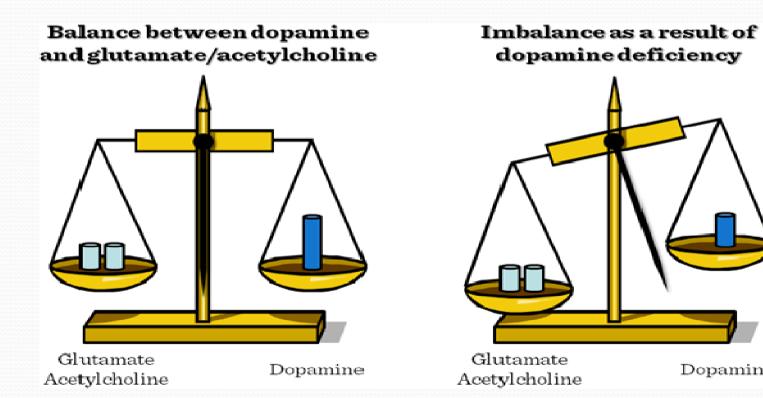




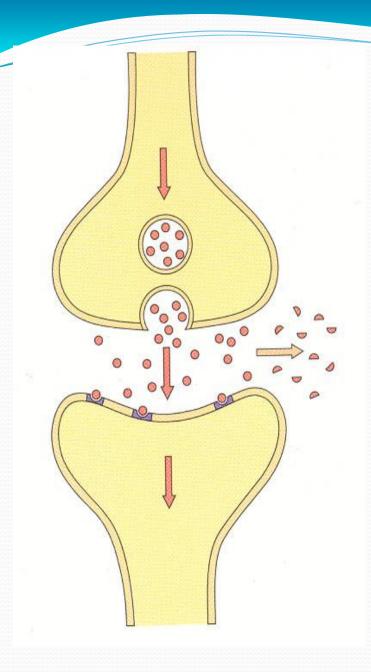
S22 NEUROLOGY 56(Suppl 5) June 2001



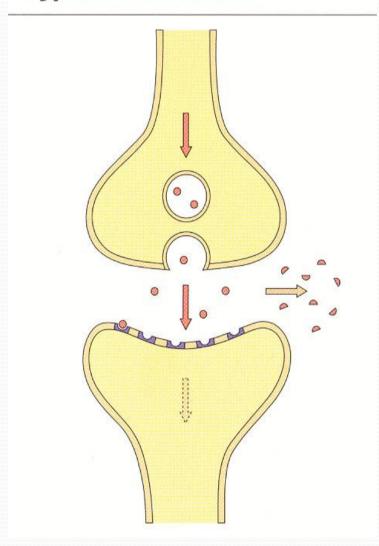
Excess Acetylcholine



Dopamine



Hypoactive neurone



Basal Ganglia simplified functions!

- * Controls the preparation, initiation, sequencing and timing of well learnt motor skills
- * 'auto pilot' facility
- * Walking, swimming, senses, influences position (balance and posture when standing or sitting)

What causes it?

- The aetiology of PD is unknown but factors such as aging, environmental insult and genetics have all been implicated.
- The neuropathology of PD is primarily related to degeneration of nigro striatal neurons associated with Lewy body pathology and a deficiency of dopamine in the substantia nigra

Diagnosis

- Clinical
- No specific blood test to help
- Scanning can be helpful
- Misdiagnosis can be as high at 30-40%
- Specialist clinics have less of a misdiagnosis rate

Cardinal signs

• Bradykinesia (slowness)

Rigidity (stiffness)

• Tremor (rhythmic shaking) at rest arm, leg, hand

Two of these needed for diagnosis

Other features

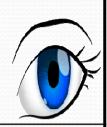
Hypomimia



Microphagic



Impaired blinking



Monotonous Speech, Reduction in speech volume,

Dysphasia, Swallowing



Autonomic Features (B/P)

Bladder / bowel problems



Sleep disturbance



Gait abnormalities



Rigidity of thought



Cecco Contraction of the Contrac



Other features

Hypomimia	Microphagia	Impaired blinking
Monotonous Speech	Reduction in speech volume	Autonomic Features (B/P)
Dysphagia	Gait abnormalities	Neuropsychiatric Complications Depression
Sleep disturbance	Rigidity of thought	Bladder / bowel problems

Pt reported symptoms

- I find difficulty rising from an armchair, getting into and out of bed, and into and especially out of a car
- My memory is not good, I even forgot how to tie a tie
- I seem to take twice as long to dress and undress
- I find it difficult to fasten buttons etc.
- My voice is not as strong as it used to be

continued

- My golf shots are now much shorter than they once were
- Sometimes when I am about to walk off from a standing start, my legs shake and I shuffle along for 2/3 paces before walking normally
- In general I now seem to take longer to do everything
- Thankfully I do not suffer any pain



Rigidity and trembling of head

Forward tilt of trunk

Reduced arm swinging

Shuffling gait with short steps Rigidity and trembling of extremities

Non-Motor Features of Parkinson's Disease

- Cognitive deficiencies
- Depression
- Raised anxiety levels
- Olfactory deficiencies (smell and taste)
- Sleep disturbance
- Fatigue
- Pain
- Bowel and bladder problems
- Sexual dysfunction

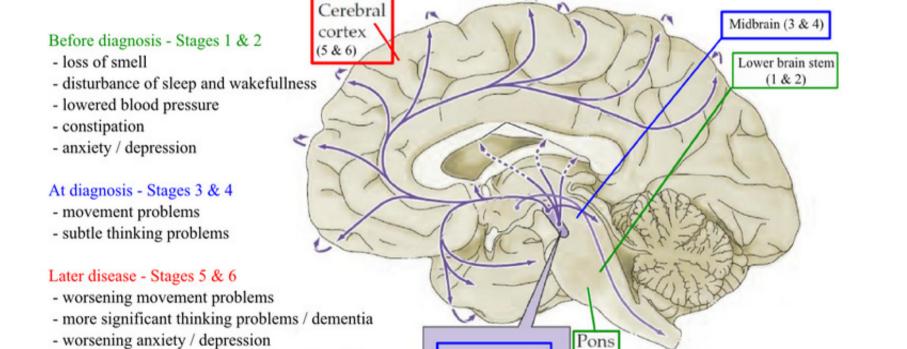
Clinical management

- Diagnosis and treatment initiation
- Stable and maintenance
- Complex
- Palliative stage

Development / Progression

- hallucinations / paranoia / delusions (i.e., false

beliefs)



Substantia Nigra

(Brain figure, Kolb & Wishaw (2003))

Parkinsonism

- Clinical syndrome involving bradykinesia plus one of the following features
- Tremor pill rolling at rest
- Rigidity
- Postural instability
- You can have Parkinsonism without having Parkinsons disease

Symptoms Progression

- Development of freezing during a motor function
- Dyskinesias known in patient literature as involuntary movement.

Hallucinations/psychosis

- Can happen to any patient on dopaminergic treatment
- More likely if cognitively impaired
- More likely if depression, visual impairment or intercurrent illness

Palliative care for non-cancer patients

'Palliative care is currently provided mainly for people suffering from cancer, but it is increasingly recognised that people with a range of life threatening diseases may also benefit from it'

(Scottish Office Management Executive Letter 1994)

Other management options

 Ensure that patients are referred to multidisciplinary team as early in disease as possible to ensure follow up over disease progression.

Prevention of complications is better than cure.

Nursing and other issues

Timing of medication is very important

• Patients performance can vary according to time drugs are taken.



To stop Parkinson's from getting out of control, people with Parkinson's need their medication on time-every time.

Palliative stage in PD – definition NICE consultation

- Inability to tolerate adequate dopaminergic therapy
- Unsuitable for surgery
- Advanced comorbidity

Palliative Care

- Palliative care in PD is the active total care of patients with advanced Parkinson's disease who no longer respond well to disease-specific symptomatic treatment. Control of pain, of other symptoms and help with psychological, social and spiritual problems is paramount. The goal of palliative care is achievement of the best quality of life for patients and their families.
- Many aspects of palliative care are also applicable earlier in the course of the illness.

- "There is convincing evidence that many patients who die from non-malignant disease have unmet need for symptom control, psychosocial support, open communication, control over their final days and choice about the care they receive. These patients and their informal carers, facing considerable distress in the final months of life, need palliative care. For many, adoption of the palliative care approach to their care will be adequate. For others, with complex needs, specialist palliative care will be appropriate."
- "Reaching Out: Specialist Palliative Care for Adults with Non-Malignant Diseases" (1998) National Council for Hospice and Specialist Palliative Care Services

Palliative care:

- Affirms life and regards dying as a normal process
- Provides relief from pain and other symptoms
- Integrates the psychological and spiritual aspects of patient care
- Offers a support system to help patients live as actively as possible until death
- Offers a support system to help the family cope during the patient's illness and in their own environment

Defining palliative care

• 'Palliative care is an approach that improves the quality of life of patients and their families facing the problems associated with life threatening illness, through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychosocial and spiritual.'

WHO 2005
Living and Dying Well (2008)

PD Management

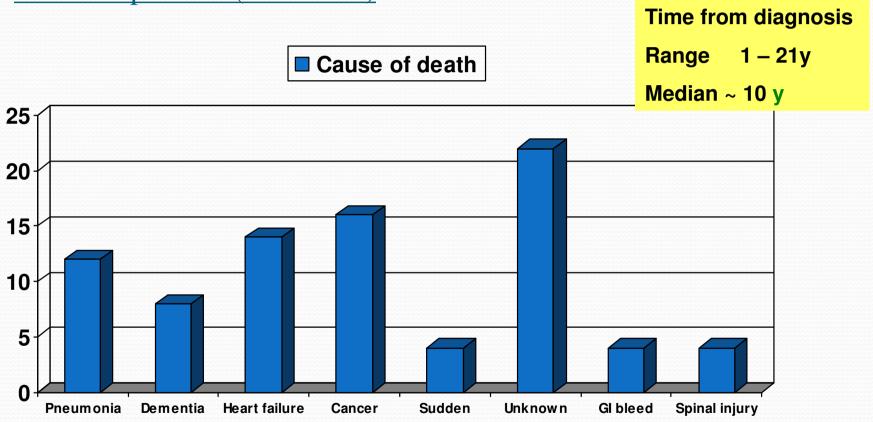
- Complex
- Drug issues
- Health
- Address problems as they occur
- Palliative care ????

PALLIATIVE CARE IN PARKINSON'S DISEASE

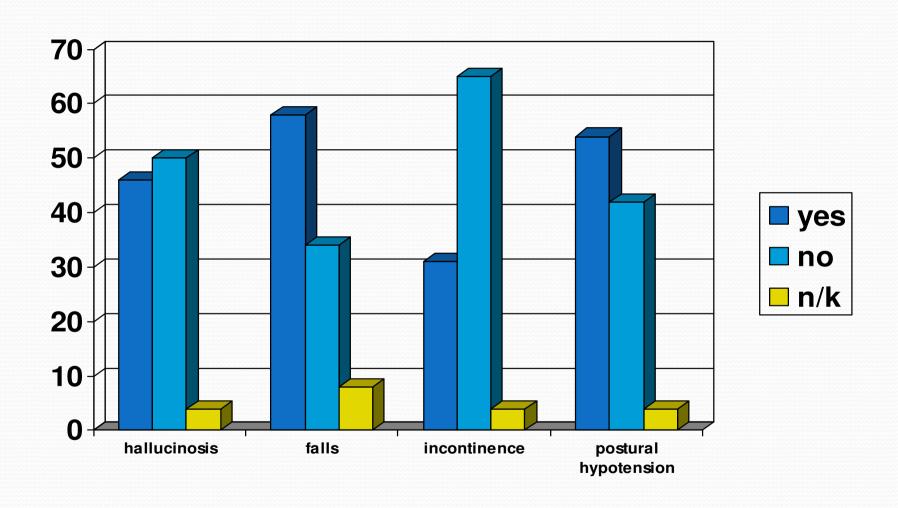
can we do better?

South West Glasgow Movement Disorders Service Deaths

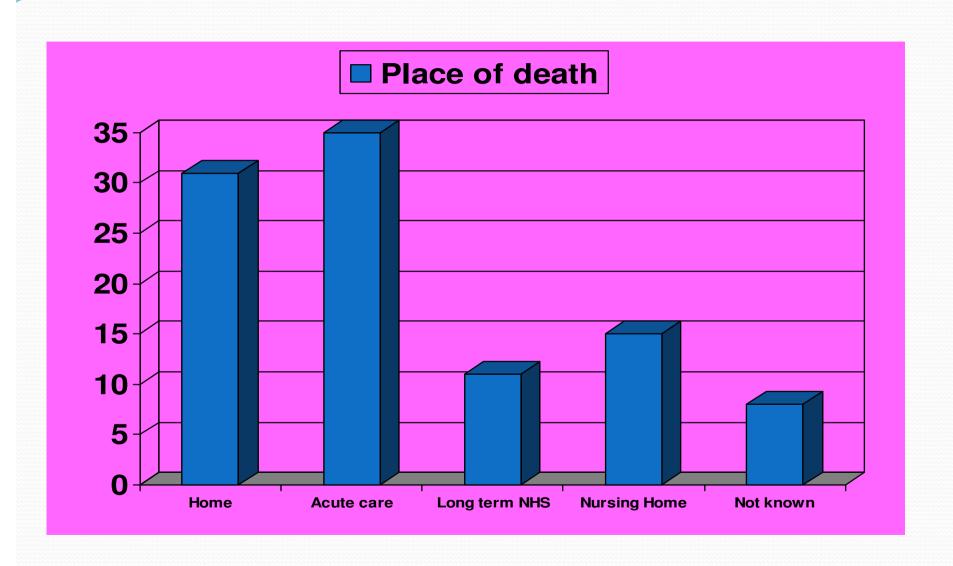




Presence of symptoms at last visit



Place of death



Questions?