

Objectives • Pathophysiology / Epidemiology • Diagnosis and diagnostic challenges in PD • Review the current medicinal and surgical treatments • Offerings available at KP

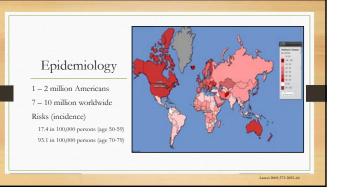
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Parkinson's Disease

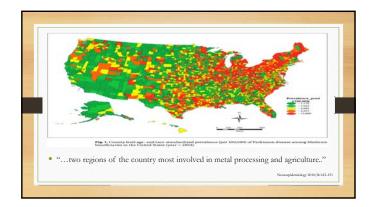
Neurodegenerative disease, typically found later in life, linked to decreased dopamine production in the substantia nigra.

Marked especially by tremor of resting muscles, rigidity, slowness of movement, impaired balance, and a shuffling gait.

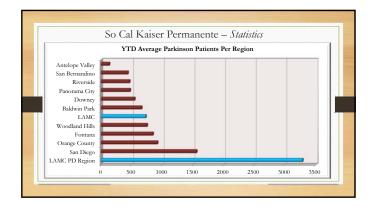




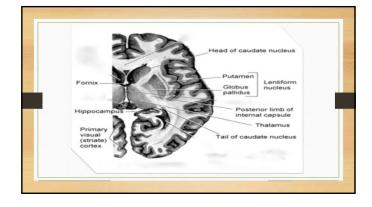




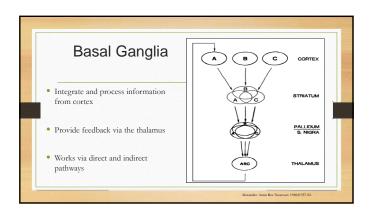


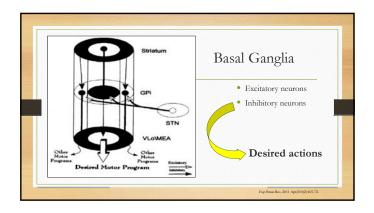




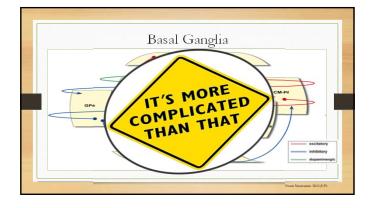


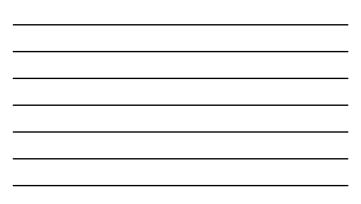


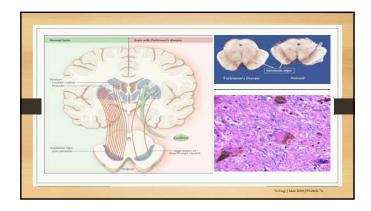


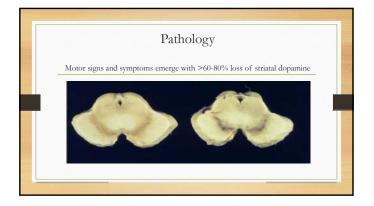


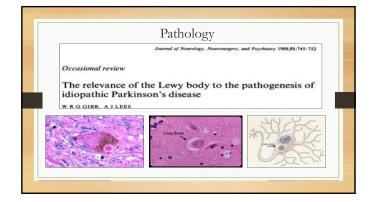




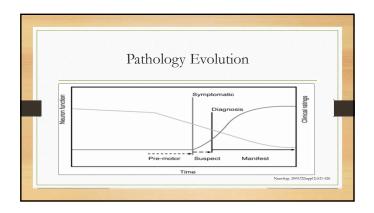




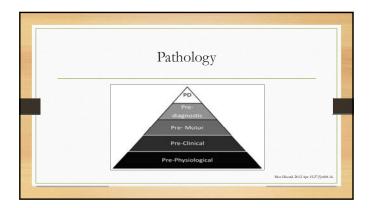




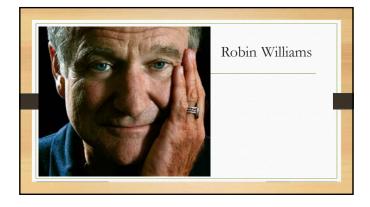




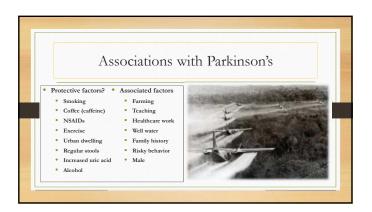


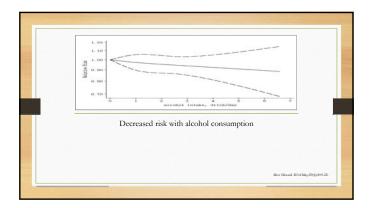


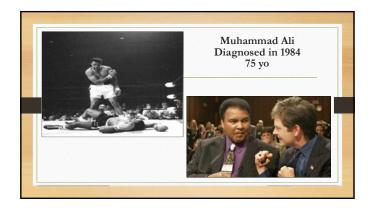








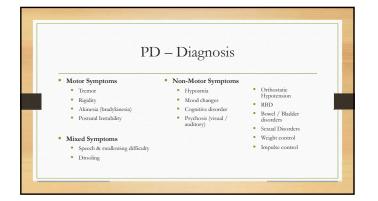




Problems facing providers

- Uncertainty of diagnosis
- Patients can have 19 different specialists
- Unsure if PD symptoms or not
- What to expect next as course progresses
- How to improve quality of life in patientsNot enough PD patient experiences
- Not asking the right questions
 Not getting the right answers
- Unclear of guidelines and red flags







Diagnostic Accura	acy in PD
June / Number, Namespron of Patheter (1913) (1914) Accuracy of clinical diagnosis of Parkinson's disease: a clinico-p of 100 cases Andrew J Hughes, Sumn E Damit, Linds Edlind, And	oathological study
Table 3 Pathological findings in 24 mis-diagnosed as Parkinson's disease	cases clinically
Pathological findings	No of cases
Progressive supranuclear palsy stypical stypical Multiple system atrophy Autiple system atrophy with array disase with array disase with array disase with strainal involvement with strainal involvement with strainal involvement with array disase by the system or phalite parkineonian Distance of the system of the Distance of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system of the system o	4 6 42 5 1 3 2 3 3 3 2 1



Dopamine transporter imaging:

May improve diagnostic accuracy in clinically uncertain syndromes

May improve diagnostic confidence

- May have a strong influence on clinical management of patients
- May allow earlier diagnosis of patients with PS

		ical PD	used to di	-9
Test	Sensitivity	Specificity	Availability	Cost
Olfactory testing	+++	+	Broad	Low
Neuropsychological testing	+	-	Broad	Moderate
Transcranial ultrasound	++	+	Restricted	Moderate
Cardiac MIBG imaging	+	++	Broad	High
Dopamine transporter SPECT	++	++	Restricted	High
[18F]fluorodopa PET	++	++	Restricted	High
Genetic testing	-	++	Restricted	High

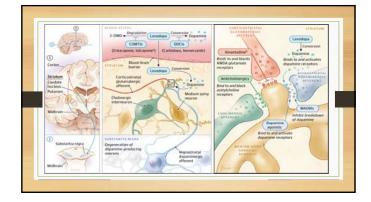


Treatment Principles

- Primary Treatment anything that is established as Neuroprotective
 Exercise?
- Tailor treatment to the idea that this is a chronic disease
- Expect to change treatments as symptoms progress / change
- Keep patient functioning independently as long as possible
- Patients should be encouraged to remain physically active, mentally active, and take an active role in their care

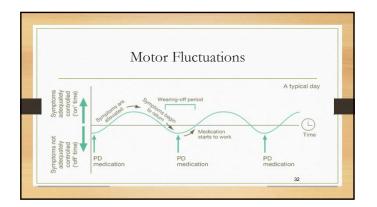




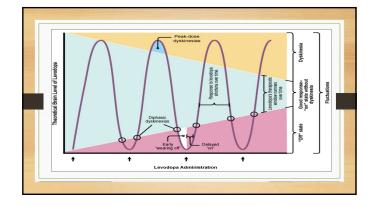


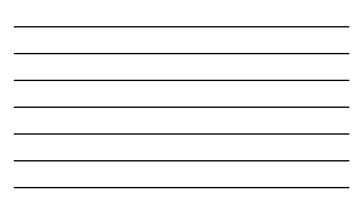


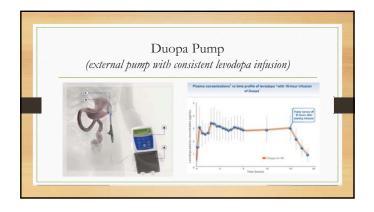


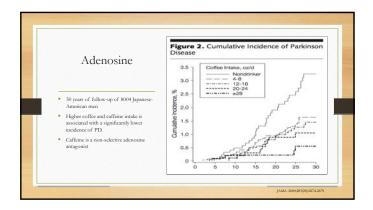




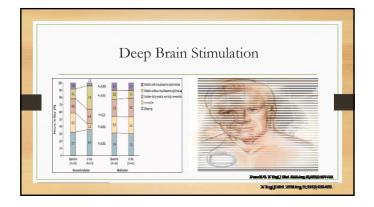




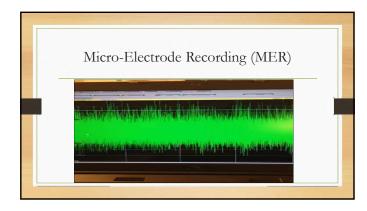


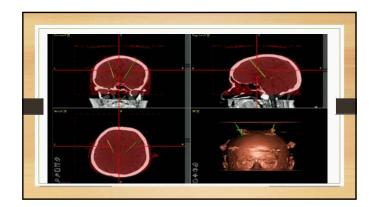


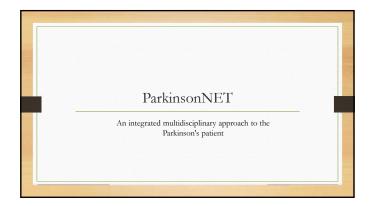












And why?					
TABLE L Patie	nt-perceived relevant problems and the const		d health care to ed health care util		-
Domain	Patient relevant problems* (n = 216)	% PT	% OT	% ST	% No AHC
Arm/hand activities*	118 (54,6%)	23.7	1.7	1.7	72.9
Gait	116 (53.7%)	66.4	2.6		35.3
Transfers	115 (53.2%)	56.6	2.7	-	45.1
Balance	103 (47.7%)	56.4	2.0	-	44.6
Posture	98 (45.4%)	61.9	2.1	-	39.2
Leisure activities	89 (41.2%)	21.3	5 mil 1		78,6
Speech	80 (36.9%)			20.0	80,0
Personal care	79 (36.6%)	-	2.6		97.5
Domestic activities	78 (36.0%)		1.3	-	98.T
Work activities	70 (32,4%)	20.6	1.4	2.9	75.8
Drooling	66 (30.6%)	-	-	6.1	95.4
Eating	43 (19.9%)	-	-	9.3	90.7
*Patient relevant probl **Percentage of namb 'Including reaching an	em, problem in both the performance of an activit er of patients with relevant problems.				90.7

allied health ca	ve professionals	categorized i	nto specific PD		ra)
Physical	therapists	Occupatio	nal therapists	Speech thera	pists (n = 17)
Experts	Non-experts	Experts	Non-experts	Experts	Non-expert
17 (19.8) 119 (35.4)	66 (80.2) 217 (64.6)	3 (25.0) 28 (49.1)	9 (75.0) 29 (51.9)	3 (17.6) 12 (21.8)	14 (82.4) 43 (88.2)
100	100	33.3	0	66.7	50.0
21.2 ± 7.0 7 ± 7.4	18.6 ± 8.1 3.3 ± 2.7	9.7 ± 2.5 9.3 ± 6.0	10.8 ± 11.4 3.2 ± 1.0	17.7 ± 5.7 4 ± 1.7	16.5 ± 9.8 3.1 ± 2.7
35.3	10.6	0	22.2	66.7	14.3
35.3	6.1	33.3	0	66.7	7.1
					7.1
35.3	19.7	66.7	0	66.7	0
	dlied health ca and no spec- Physical (n = Experts 17 (19.8) 119 (15.4) 100 17.6 21.2 ± 7.0 7 ± 7.4 35.3	$\begin{array}{c} \label{eq:constraints} \\ \mbox{and no specific PD experiin} \\ \hline Poyicil tempiss \\ \mbox{(n = 86)^{6}} \\ \hline \\$	Illind health care professionals caregorized and no specific PD expertise (non-experting		$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$



