

Medications

- Levodopa/Carbidopa (Sinemet)
- Levodopa/Benserazide (Prolopa)
- MAO Inhibitors
 - Rasagiline (Azilect)
 - Selegiline
- COM-T Inhibitors:
 - Comtan (Entacapone)
- Dopamine Agonists
 - Pramipexole (Mirapex)
 - Neupro patch (Rotigotine Patch)
- Anticholinergics
- Amantadine

Contraindicated with PD

- See cmdg.org for more complete list
- Example:
 - Any anti-dopaminergics
 - Haldol (Haloperidol)
 - Stemetil (Prochlorperazine)
 - Maxeran (Metochlopromide)
 - Etc.

Avoid Drugs that are Contraindicated in Parkinson's:

The term "contraindicated" essentially means that the drug in question should not be given to a patient. In the parkinsonian, the basic problem is the chemical nature of the disease itself. Many drugs alter the brain's dopamine system and may not be recognized as having the potential to markedly alter the symptoms of Parkinson's simply because the drugs are often used for the treatment of non-neurological conditions. Every patient with Parkinson's should have a list of these agents available for their physician's reference.

Drug Category	Trade Name	Generic Name
Antipsychotic	Haldol	Haloperidol
	Trilafon	Perphenazine
	Thorazine	Chlorpromazine
	Stelazine	Trifluoperazine
(used for agitated confusion)	Prolixin, Permitil	Flufenazine
	Navane	Thiothixene
	Mellaril (high dosage)	Thioridazine
Antidepressant	Triavil	Combination of Perphenazine 8 Amitriptyline
	Compazine	Prochlorperazine
Antivomiting	Reglan, Maxeran	Metoclopramide
	Torecan	Thiethylperazine
Miscellaneous	Serpasil	Reserpine
Miscellaneous	Nitoman	Tetrabenazine
Po	ssible / Potential Contraindicated M	eds
Blood Pressure Meds	Aldomet	Alpha-methyldopa
Anti-Seizure Medication	Dilantin	Phenytoin
Mood Stabilizer	Lithium	Lithium
Anti Anxiety	Buspar	Buspirone

Information in Table above taken from The Transmitter Vol. 7, No. 4, Oct 1990.

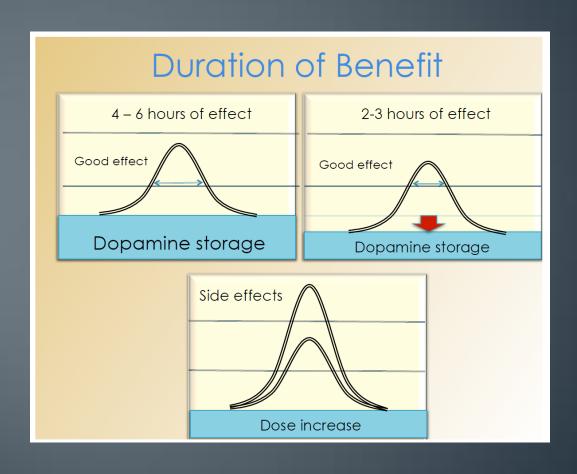
Medication Management

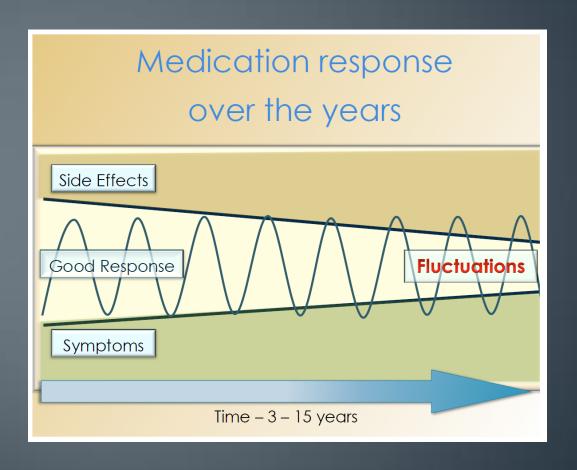
- Individualized treatments
- Timing
- Dosage
- Maximizing "On" time
- Side Effects
- Alternative treatments
 - DBS
 - Exercise
- Co-Morbidities
 - Contraindicated medications
- COMPLEX!!

Medication Management

- Stress and Fatigue will make symptoms worse
- Hospital stays
 - Less sleep
 - Stressful situation
 - Illness puts stress on body
- PCH admissions
 - New environment
 - Loss of independence
 - Worry for future

- AKA: Motor fluctuations
- ON: medications are working well
 - Generally 30 min to 1 hour after taking Levodopa
 - Last about 4-6 hours





- OFF: medications wear off and a return of symptoms occur including tremor, stiffness, anxiety, depression, etc.
 - Just before next dose of Levodopa
- Unexpected off periods may occur
 - Ineffective dose, altered timing, high protein lunch, gastric paresis, constipation, etc.



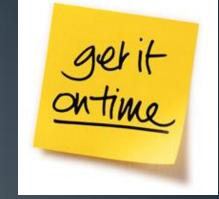


Dyskinesias



Timing Is Everything

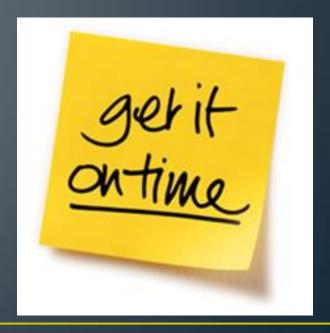
Administration of medications on time is crucial



- ON TIME EVERY TIME!
- Keep to patient's schedule!
- Once a medication routine is disrupted, it may take hours, days or even weeks to recover to previous independence
 - Uneven release of dopamine means that a person may suddenly not be able to move, get out of bed, walk down the hall, feed themselves, etc.

Timing Is Everything

- When you keep to patient's schedule
 - Maximize "ON" time
 - Allows for better PT, feeding etc.
 - Lessen iatrogenic risks (ie. Fractures)
- Maximize their independence and minimize workload of staff



Neuroleptic Malignant Syndrome

- Never abruptly stop medications without consultation of MD or Movement disorder specialist
- NMS:
 - Muscular rigidity (seizure like)
 - Elevated body temp
 - Mental changes
 - Increased CK
- Neurologic emergency

Maximizing "ON" Time

- Done over years of minor changes
- Balance "On" time with side effects
- Too much:
 - Dyskinesias
 - Psychosis
 - Confusion
- Too little:
 - Poor mobility
 - Tremor
 - Stiffness
 - Sweating
 - Cramping

Maximizing "ON" Time

- Exercise!!
 - Slows the progression Neuroprotective!!
 - Better outcomes than medications
 - Optimize independence
- Early rehab
- Daily activity
 - Walking, Stretching, Strengthening
- Maintain mobility the longest
- Use the "ON" time to the PWP benefit
 - Exercise, PT, Feeding, etc.

Maximizing "ON" Time

- DBS
 - Considered when medication fails to maintain a reasonable quality of life
 - Disabling dyskinesias
 - Motor fluctuations
- Gives some more balance of "ON" time throughout the day





Get It On Time

Get It On Time Campaign

- The Get It On Time campaign was adapted from the program started in the UK
- The idea is to make sure people with Parkinson's in hospitals and care facilities get their medications On Time, Every Time, as the implications of not getting their medications on time are substantial

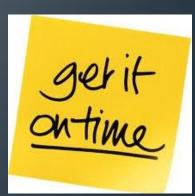


Statistics

- Study done in the UK
 - People admitted to hospital on surgical ward
 - PD medications missed/late
 - 71%
 - 0.7 missed doses per patient per day
 - Anti-dopaminergic drugs in 41%
 - Complications in 69%
 - Confusion, hallucinations and agitation in 52%
 - Motor deterioration in 7%
 - Falls in 10%
 - Infection, cardiac arrhythmias and renal impairment in 26%
- Study also done in Calgary
 - PD medications missed/late
 - 80%

Statistics

- The PSC has stated that people with PD as compared with an aged matched control group were:
 - 1.4 times more likely to be admitted to hospital
 - LOS 1.2 times longer
 - Drug costs 3 times higher
- According to CIHI
 - The LOS for people with PD was 6-10 days longer then all other acute care patients
 - Readmission rates were higher
 - Within 1 week of discharge 4.4%
 - Within 1 month 11.7%
 - Compared: 3.8% and 9% respectively



Statistics

- Rehabilitation showed differences as well
- CIHI determined that people with PD who are getting in-patient rehab:
 - LOS was 6 days longer
 - Level of functioning was lower upon admission to rehab
 - Function level improved slower
 - Upon discharge their functional improvement did not improve as well as those who did not have PD
 - 33% were transferred PCH
 - 16% were readmitted back to an acute care hospital.



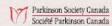
Get It On Time Campaign

- "The Get it on Time" program cost effective and straightforward approach to avoiding unnecessary overextended stays.
- We can accomplish this by:
 - Giving the staff working with them a better understanding of PD and why the timing their drugs is so crucial
 - Visual reminders
 - Open dialogue with patient and staff to create care plan that works for both
 - Primarily to have people with PD get their medications On Time, Every
 Time to optimize their recovery and quality of life.



Visual Reminders







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

'Get it on Time' is a national program of Parkinson Society Canada.

Based on a design and text created by Parkinson's UK www.parkinson.ca

Parkinson Resident Interviews

Parkinson Resident Interview*



*To be included as part of admission (pre-admission) to the facility.

The following interview is designed to give staff an understanding of the many issues a person with Parkinson's is experiencing.

This baseline interview allows the facility to monitor change (and report to physician or specialist) so that attempts can be made to better control the person's Parkinson's. It is recommended that the interview be conducted on an annual basic.

Please have a staff member go through the questions with the resident, or the primary caregiver upon their arrival at the facility.

Use the notes column to track comments of significance for each response. In instances where the notes column has a fill in the blank and/or check box for certain additional questions, please do so, as

The questions are based on several assessment scales for health care professionals (listed at the conclusion of this document). The results of this interview can be used to help create an individual care plan for the resident.

:	
ssess every 3 /6 months	
ssess every 570 mondis	
recommend devices/aids	
recommend devices/aids	
times per week (details e.g., throom, getting out of bed)	
times per day : helps?	nare
type of activity onsult physiotherapist	or:_
	titiar
	-

I nave lost my sense or smell	rtag as risk in case or smoke/fire/fumes
Cognitive	Mental Status Assessment done/on file?
I often feel sad	consult re: medication for depression?
I feel anxious at times	
I have a problem with gambling (or other obsessive behaviour)	
I get annoyed or angry at times	
I have difficulty concentrating	
I keep forgetting words and events	
I see images of animals/small children playing around me or other things that may not really be there	per day during night bothersome or benign
I have difficulty following a conversation/staying engaged in a conversation	
I would like a consultation regarding administering my own medication	

List medications, dosages, and the time of day when you normally take each dose.

Medication	Dose	Time(s)

*Parkinson Resident Interview, Developed by Parkinson Society Central Northern Ontario Region, 2011

This interview has been developed as an amalgamation of existing Parkinson assessment techniques and long term care resident measurements, including UPDRS, PDQ39, "Parkinson Problem Profile" created by Dr. Doug Hobson and RAI-MDG.

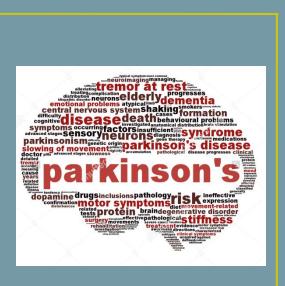
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Hospital Management Kit





Summary



In Summary

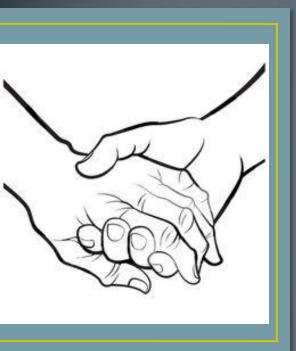
- PD is more than just a movement disorder
 - Motor, cognitive and emotional changes
 - Non-Motor symptoms
- PD is progressive
 - Needs change over time
- PD causes loss
 - Loss of self-image, independence, control
- PD treatment is complex
 - Very individual, side effects, progressive



- Timing is crucial
 - Timing of Medications
 - ON TIME EVERY TIME
 - Give Adequate Time
 - Give one task at a time
 - Maximize "ON" Time
 - Use "ON" time to its fullest
 - Exercise, PT, etc. when "ON"



- Get It On Time Campaign
 - Spread the word
- Prevent unnecessary extended hospital stays
- Lessen LOS
- Lessen complications
- Improve quality of life



Open dialogue

- Create a care plan that works for both patient/client
 & staff member
- To get medications On Time –Every Time!
- Caregivers and Family
 - The important voice for PWP
 - Dealing with it for decades

Thank You!

Questions??

