What if I miss a dose?

dose.

Do not double the dose.

How to store?

- and light.
- longer required.



- Refuse to use medications because of potential side effects.
- Not everyone will experience side effects after using the medications. The severity of side effects also differs among individuals. You should not be too worried about the side effects of the medications. If you stop using the medications or change the dose or frequency due to potential side effects, your conditions may get worse. Most common side effects are mild and will subside when your body adapts to them. Consult your doctor or pharmacist if the side effects persist or worsen.
- Since Parkinson's disease is not curable, I do not want to use the medications.
- \checkmark It is understandable that you may feel down about your condition, but this will only pose a more negative impact on your daily life. Although Parkinson's disease is not completely curable, symptoms and quality of life can be improved if you are compliant to the medication instruction, doing adequate exercise and keeping a joyful mind.

- The levodopa-containing medication is not as effective as before. Doctor has already prescribed an add-on medication; I should stop taking the levodopa-containing medication by myself.
- The add-on medication is mainly used to enhance the effect of levodopa-containing medications. The best effect is only achieved when you take both medications concurrently. Therefore, you should not stop the medications without consulting your doctor.
- SI have been using levodopa-containing medications for several years with significant effects. The symptoms become uncontrolled recently. Therefore, I should increase the dose and frequency of the medications by myself.
- Levodopa-containing medication is the most commonly prescribed and a very effective medication in Parkinson's disease, but its effect weakens with time. This usually happens 2 to 5 years after using the medication. The loss of effect will manifest as: (1) wearing-off before the next drug administration, leading to symptoms; (2) "on-off" effect meaning a sudden switch between being able to move (on) and being immobile (off). The above phenomenon can be relieved by increasing the dosing frequency, using prolonged-release formulation or adding other PD medications. Doctor will choose the most appropriate treatment option for you according to your condition and side effects experienced. You should not increase the dose and frequency of the medications by yourself, as it will not improve your condition but worsen the side effects.

- Secently, doctor has prescribed an additional medication for me apart from my levodopacontaining medication. I also experienced more involuntary movements. I believe my condition is deteriorating.
- When a new medication is initiated, it often takes time to develop the full therapeutic effects. Doctor may need to adjust the dosage of both medications gradually over time in order to maximize therapeutic effect and minimize side effects. During dosage adjustment phase, you may experience side effects such as dyskinesia (the involuntary movements). It will improve when the doctor lowers the dose of levodopacontaining medications according to individual patient's condition. Therefore, you should not regard this as disease deterioration.



Use the missed dose as soon as you remember. Skip the missed dose if it is almost time for your next scheduled



Store in a cool, dry place and away from direct heat

Keep out of reach of children.

O Discard all medications that have expired or are no

Do not share the medication with other people.

Medications for Parkinson's Disease

6 For any queries,

please seek advice from your doctor, pharmacist or other healthcare professionals.



藥劑職系及服務統籌委員會 COC-Grade (Pharmaceutical Services)



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What is Parkinson's Disease

Parkinson's disease (PD) is a chronic neurodegenerative disorder. Its cause is related to the loss of neurones, resulting in reduced production of neurotransmitters (mainly dopamine) that controls movement and coordination. PD is more common in elderly above 60 vears, and occurs in both male and female. The disease will progress with time, and patients will gradually lose muscle movement control.

The signs and symptoms of PD vary as the disease worsens, and may differ among individuals. Common symptoms include resting tremor of limbs, muscle rigidity, slow in movement, postural instability and gait disturbance. Some patients may also experience difficulty in swallowing, speech disorder, "masked" face, constipation and memory problems.

Although there is no complete cure for PD, a range of medications and treatments are available to manage the disease. Medications can reduce the symptoms by trying to restore a balance of neurotransmitters. Other treatments including physiotherapy, occupational therapy, and speech and language therapy can improve the patient's daily functioning and quality of life. Surgical procedures such as deep brain stimulation may be considered under doctor's advice.

Precautions on lifestyle

Patient should maintain a balanced diet and healthy body weight. Patients with swallowing difficulty should select food that can be swallowed easily and avoid malnutrition. Maintaining sufficient fibre intake (e.g. vegetables and fruits) and drinking enough water can improve constipation in PD patients.

Exercise is important to patients with PD. Regular exercise can improve muscle activity and flexibility for daily functioning. Avoid excessive strenuous exercise and take regular breaks.

Patients with PD may feel depressed and anxious, which can cause a great impact to life if neglected. It is important to be optimistic and cheerful. Talk to your family and friends when you feel down and anxious. Patients can also obtain care and support from other PD patients by joining supporting groups .

Precautions on medication use

- Use the medications as directed. Do not stop using the medications or change the dose or frequency unless directed by your doctor. If you stop your medications suddenly, you may experience an increase in muscle rigidity, which would potentially lead to deep vein thrombosis and severe complications.
- Use the medications preferably at the same time every day.
- If you have history of drug allergy, consult your doctor or pharmacist before using the medicine.
- Tell your doctor and pharmacist if you are pregnant, planning to become pregnant, or breastfeeding.
- Consult your doctor or pharmacist before using any other medications, including health supplements, Traditional Chinese Medicines, Proprietary Chinese Medicines and over-the-counter medications.
- Food may affect the absorption of levodopa-containing medications. You must not make adjustment to your medication schedule, including the time between medication and food intake, and the amount of food intake. Using the medications inconsistently with and without food can affect the drug effect. For details, please refer to the precautions section regarding levodopa-containing medications.
- Record the time you use the medications and symptoms occur when you encounter uncontrolled symptoms. This can help the doctor to assess your condition.
- Objective to your medications according to your condition. Pay attention to any changes in medications. dose and frequency each time when you collect the medications. Follow the instruction on the label and do not use the medications just from memory.
- Please consult your doctor or pharmacist if you encounter any difficulties in using the medications.
- Please consult your doctor if symptoms persist or worsen after using the medications.

Medications for Parkinson's Disease

Classes of Medications	Common side effects	
Levodopa-containing medications Madopar, Madopar HBS, Madopar Dispersible, Sinemet, Sinemet CR, Stalevo	Nausea, vomiting, postural hypotension*, dyskinesia**, confusion, loss of appetite, insomnia, anxiety, depression, dark- colored urine "On-off" effect if long-term use [sudden switch between being able to move (on) and being immobile (off)]	 Take the medic If your conditio protein intake v For the best tre water. Do not take Sta
Monoamine oxidase-B (MAO-B) inhibitors Rasagiline, Selegiline	Nausea, insomnia, dizziness, dry mouth, headache, constipation	 Take in the more Avoid high tyra Taking doses n Seek medical a
Dopamine agonists Oral agents Bromocriptine, Pramipexole, Ropinirole Transdermal patches Rotigotine	Nausea, vomiting, postural hypotension*, drowsiness, hallucination, dyskinesia **, compulsive behaviours such as hypersexuality, buying, gambling and eating disorders. Some patients may suddenly fall asleep during daytime. Patches may also cause skin reactions such as redness and itchiness	Regarding rotig Do not use the Clean and dry Change the par Apply each pat You may bath, Do not expose may speed up The patch may
Antimuscarinics Benztropine, Benzhexol	Dry mouth, constipation, blurred vision, urinary retention	* Increase fluid a
COMT inhibitors Entacapone, Stalevo	Nausea, vomiting, dry mouth, diarrhoea, abdominal pain, dyskinesia **, dark- colored urine	Do not take witTake with levoc
Amantadine	Insomnia, dizziness, nausea, postural hypotension *, purpura on the skin, ankle swelling, anxiety, confusion and difficulty in concentration	Take in the monLift the legs to

* Postural hypotension is a form of low blood pressure and dizziness that happens when you stand up quickly from sitting or lying down. Standing up slowly can reduce this side effect.

- Dyskinesia refers to the involuntary movements of the face, neck, tongue and limbs.
- effects.
- * If you notice any allergic reactions like skin itchiness, face or hand swelling, breathing difficulty, etc., consult your doctor immediately.

Precautions

cation one hour before meal or on empty stomach. You may take with food if you experience gastrointestinal disturbance. on has been stabilized, you do not need to change the way you take the medications. Maintain similar amount of food and while taking this medication to avoid unstable absorption and therapeutic effect.

reatment effect, follow the instruction on the label regarding whether to swallow the medications whole or to disperse them in

talevo with iron preparations. Take at least 2-3 hours apart.

prning to prevent insomnia. For twice daily dosing, take the second dose in early afternoon.

amine-containing food, such as cheese, beer, sausages, sourdough bread, and miso soup.

more than prescribed can lead to severe adverse events.

advice immediately if you experience hypertensive crisis, occipital headache, severe nausea and vomiting.

ootine transdermal patches:

e patch that is broken or damaged. Do not trim or cut the patch.

r the skin area before application. Apply the patch to skin with little or no hair, free of scars, cut or irritation.

atches at the same time every day. Remember to take off the old patch before putting on a new one.

atch to a different area of the body. Do not apply to the same site within 14 days.

, shower and exercise while wearing your patch.

e the application site to direct source of heat, such as heating pads, electric pads, heated waterbeds and saunas, as heat the drug release.

y contain metal. Remove the patch before MRI scan.

and fibre (e.g. vegetables) intake to prevent constipation

ith iron preparations. Take at least 2-3 hours apart.

dopa-containing medications at the same time for better efficacy.

prning to prevent insomnia. For twice daily dosing, take the second dose in early afternoon. relieve ankle swelling.

* If you experience confusion, sleepiness, dizziness or blurred vision after taking the medications, avoid driving or activities requiring mental alertness or coordination. Avoid alcohol as it may increase the side