



How do medications work in PD?

What is going on with treatment fluctuations?

How does DUODOPA work to get around these problems?

Who is the 'right patient' for this treatment?

What needs to happen for DUODOPA to be used?

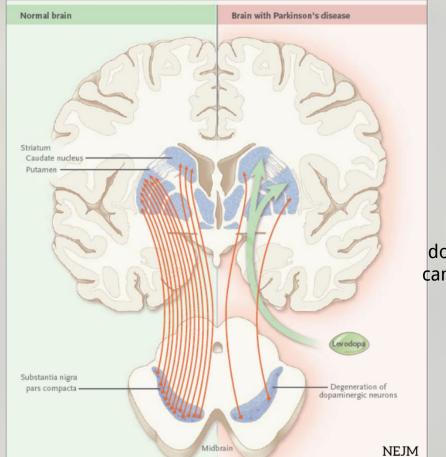
What are some downsides to this treatment option?





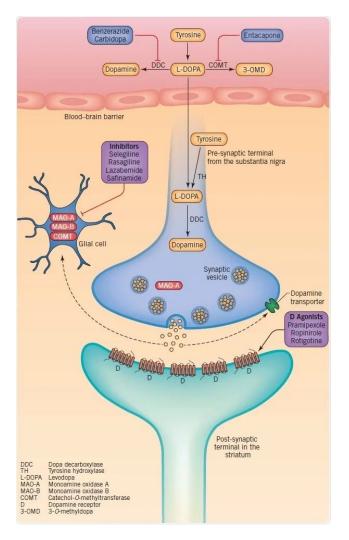
Dopamine deficiency is a SYMPTOM of the disease

In the healthy state, there are many dopamine cells making dopamine to use in normal daily activities



In PD there are some dopamine cells working, but can't make enough dopamine to meet the need

← Bakeries



Ingredients Tyrosine Dough Levodopa **Bread** Dopamine Stocked / Stored for packaged use on demand







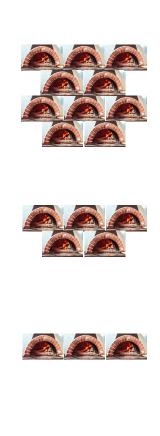
Over time, the number of bakeries is still changing

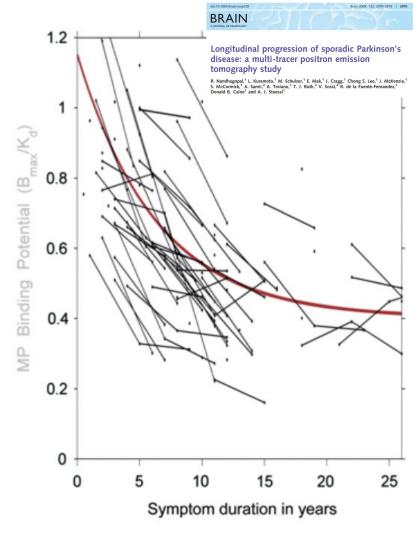
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Providing the same amount of ingredients has a different effect

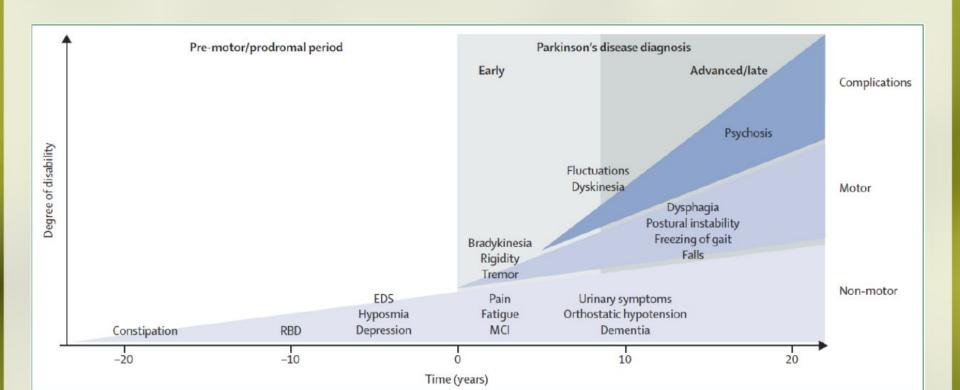




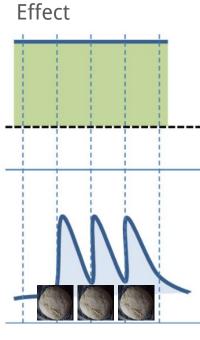




What will happen over time?



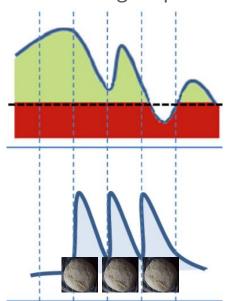




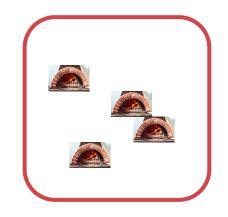
Medication dose

Early in the course of PD, a prolonged and consistent response to levodopa is common

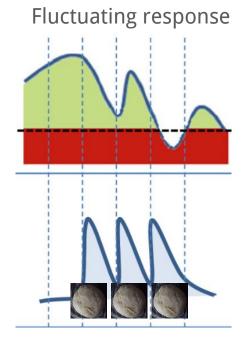
Fluctuating response



Over time, the response to each dose is less consistent and usually shorter duration



Partly this is because there are less bakeries working well over time



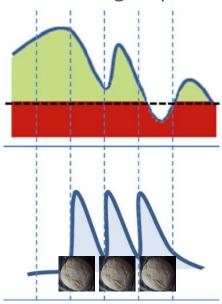
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PwPD also may have poor absorption of levodopa (i.e. "baking fail")

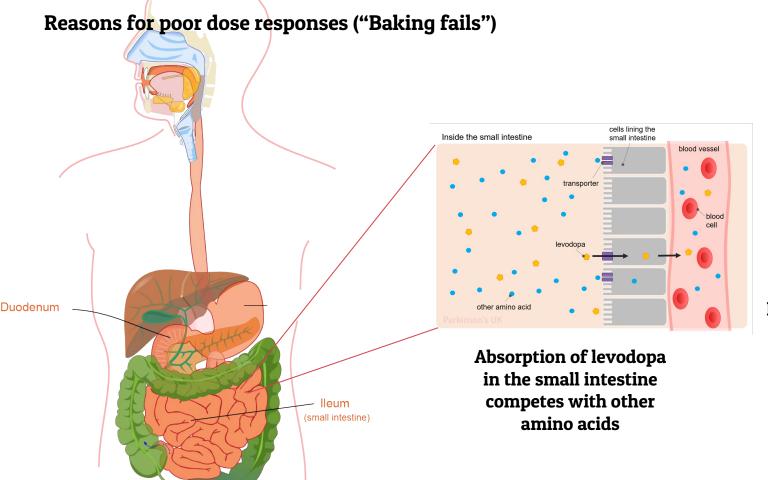




Fluctuating response



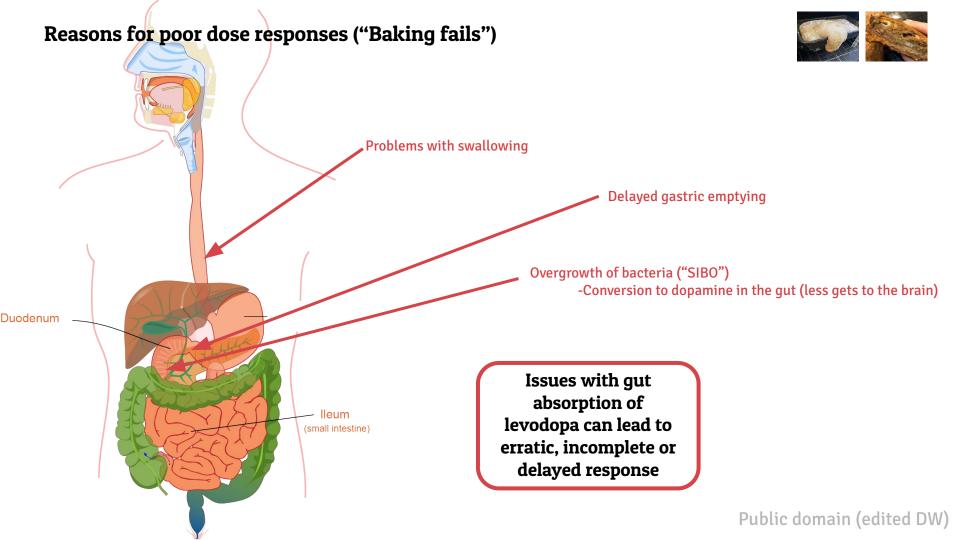
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There, it is turned into dopamine by the dopamine cells

Once in the bloodstream, levodopa is taken to the brain

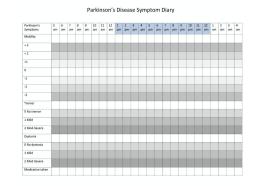


Tools to figure out how well treatment is working for a person with PD:





Good old fashioned history and physical

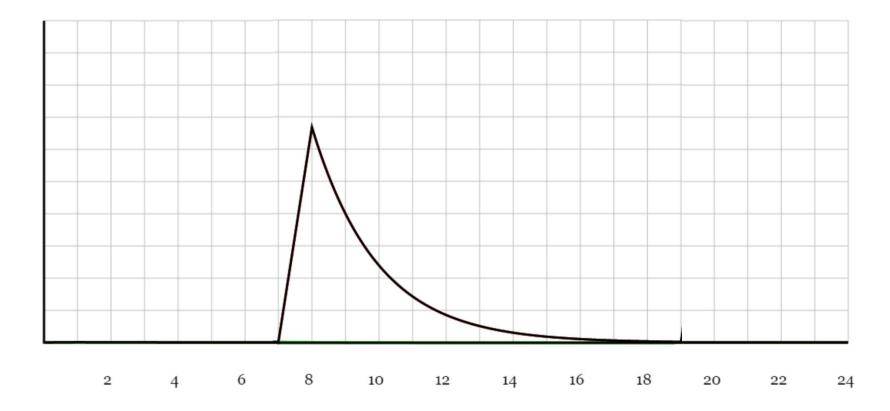


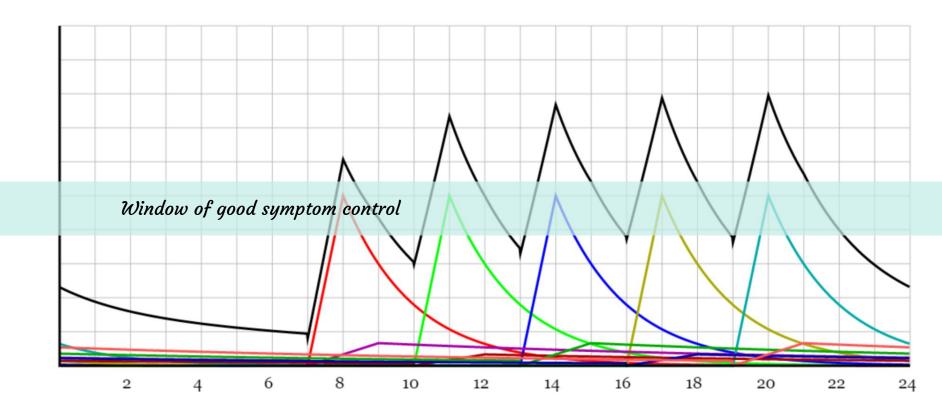
Symptom diaries



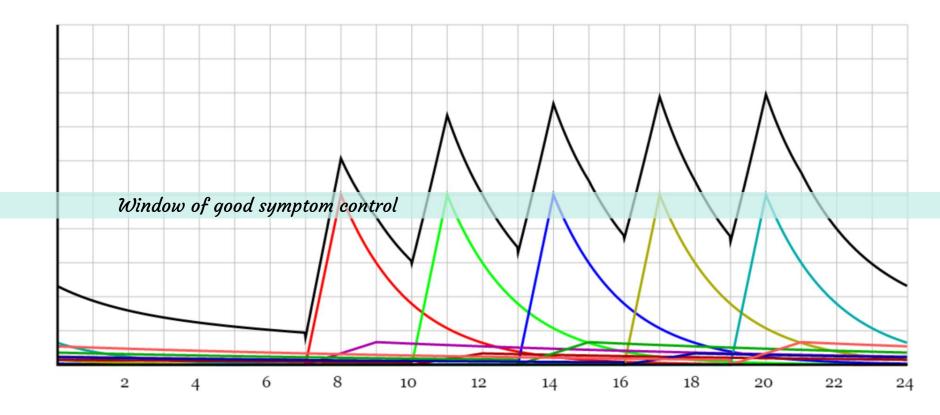
Motion trackers

Estimating how medication works - if absorption and delivery to the brain is 'perfect'

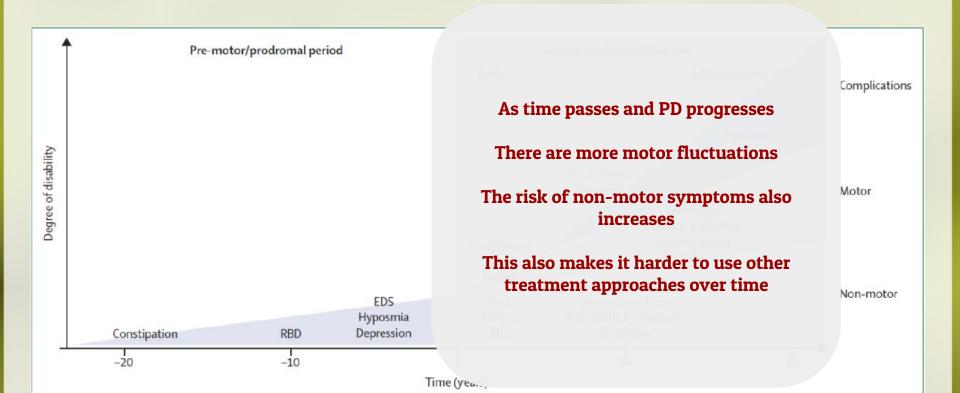




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What will happen over time?





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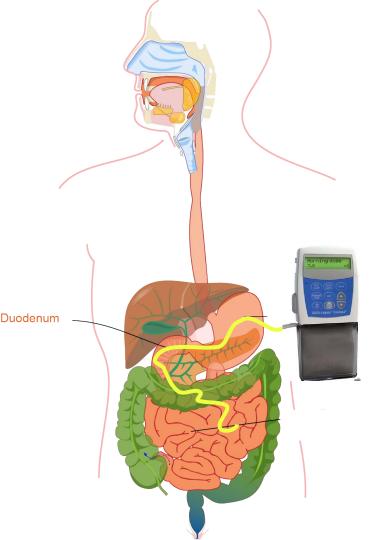
What needs to happen for DUODOPA to be used?

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As the need for 'ingredients' becomes more frequent

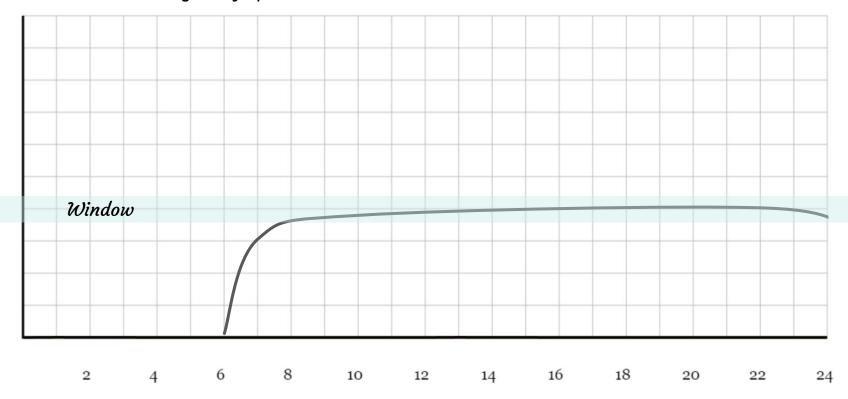
Continuous gradual delivery of levodopa ('dough') can target a consistent effect



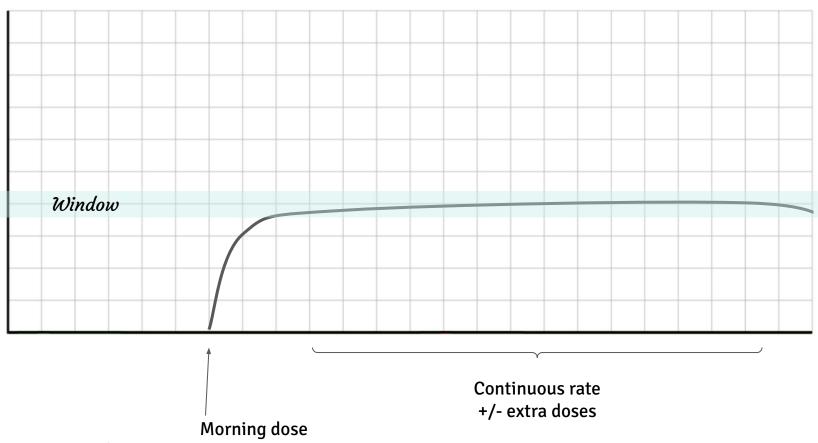
Duodopa delivers a continuous supply of levodopa carbidopa gel to the small intestine

This allows a more consistent absorption of 'ingredients' into the bloodstream, and more steady delivery to the brain dopamine cells

The goal of DUODOPA therapy is to establish a steady treatment effect in the "window" of good symptom control



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Who is the right patient for DUODOPA?

Levodopa responsive Parkinson Disease Motor fluctuations

Dyskinesia

These are disabling

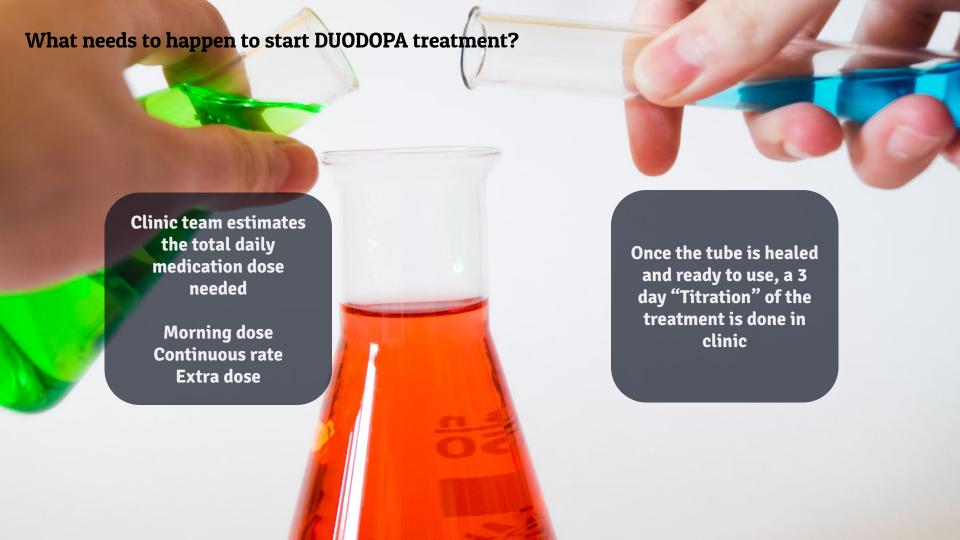
Despite adequate effort to treat with oral medications

The benefits are expected to outweigh the risk of

Tube insertion
Prolonged tube use

Adequate support for management of the system (Care partner)





Risks

Tube complications

Blockage Removal Migration Breakage



Wound (stoma) complications

Scar tissue Infection Leaking



Other

Weight loss Vitamin deficiencies Pump issues



Adv Ther (2021) 38:2854-2890 https://doi.org/10.1007/s12325-021-01747-1



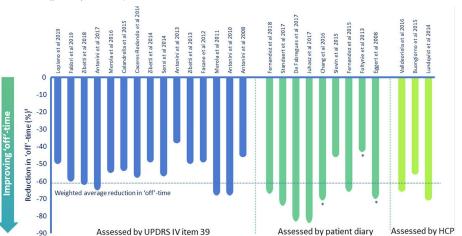
REVIE

The Long-Term Impact of Levodopa/Carbidopa Intestinal Gel on 'Off'-time in Patients with Advanced Parkinson's Disease: A Systematic Review

Angelo Antonini · Per Odin · Rajesh Pahwa · Jason Aldred ·

Ali Alobaidi · Yash J. Jalundhwala · Pavnit Kukreja · Lars Bergmann ·

Sushmitha Inguva · Yanjun Bao · K. Ray Chaudhuri



This therapy has been in use for >15 years in some European centers

There is evidence to support long term effectiveness of treatment and persistent improvement in "OFF" time

PwPD should weigh benefits and risks of oral medication options with the benefits and risks of this approach

THANKS