

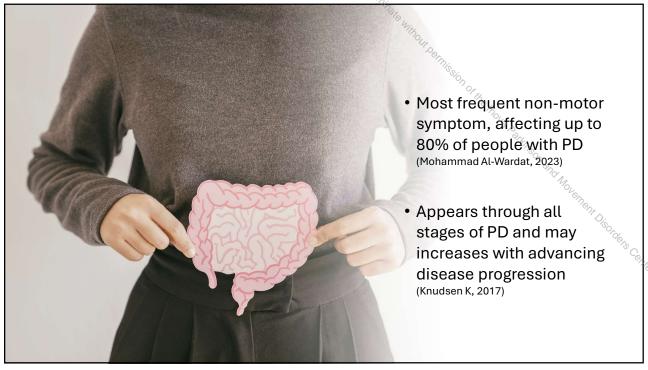
OUR GOALS

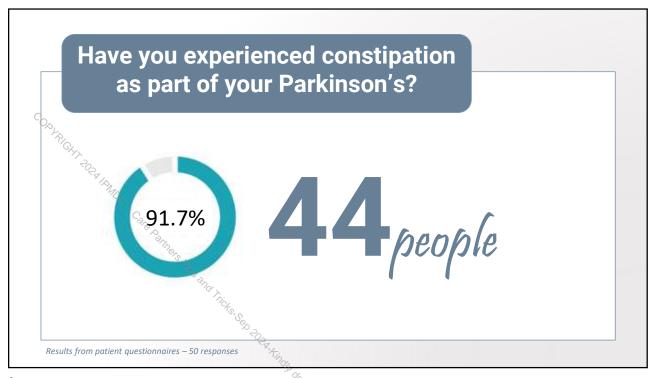
Why does
managing
constipation
in PD matter?

What are
common
management
strategies?

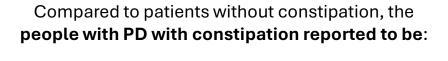
Why does managing constipation in Parkinson's matter? Frequency The state of the

7













Took more antiparkinsonian meds



parkinsonian meds



Worse quality of life.

Gan et al. BMC Neurology (2018) 18:29

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Over the past week have you had constipation troubles that cause you difficulty moving your bowels?

Slight

I have been constipated. I use extra effort to move my bowels. However, this problem doesn't disturb my activity.

25.6%

Mild:

Constipation causes me to have some trouble doing things or being comfortable.

32.6%

Moderate

Constipation causes me to have a lot of trouble doing things or being comfortable. However, it does not stop me from doing anything.

27.9%

Severe

I usually need physical help from someone else to empty my bowels.

2.3%

Results from patient questionnaires

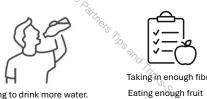


Trying to do it ALL and do

it CONSISTENTLY increase fiber, hydrate better, eat better...



Gas can sometimes result in small emissions Being out of my routine



Results from patient questionnaires

Trying to drink more water.

The biggest challenge is finding something that works to relieve the constipation.

Inconsistency, unpredictability, no one has practical advise.

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What are your biggest challenges in managing constipation with PD?



"Timing. you cannot fool around on your way to the commode".



"Keep track of when I have a bowel movement"



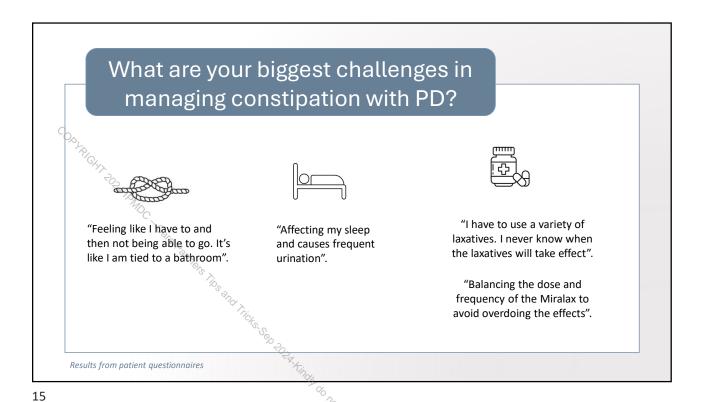
"Worry about interfering with activities".



"I have severe back pain and the only relief I get is to sit down which is not good for my constipation problem".

"I'm afraid of needing to use the bathroom at work, or while with others. I'm often unable to eat so dinner with others is awkward".

Results from patient questionnaires



Why does managing constipation in Parkinson's matter?

Transit

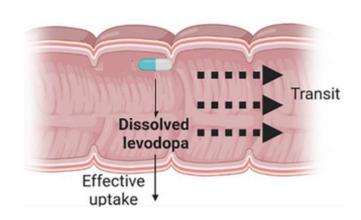
Under the Management of the Control of the Cont

meds absorption

daily life

Constipation may contribute to **delay** or a **failure** in the absorption of a levodopa dose.

- Worsen the clinical symptoms and reduce the effectiveness of the treatment (Mozaffari et al., 2020; Ogawa et al., 2012).
- Increase the need for alternative routes of administration or medication adjustments (Stirpe et al., 2016).



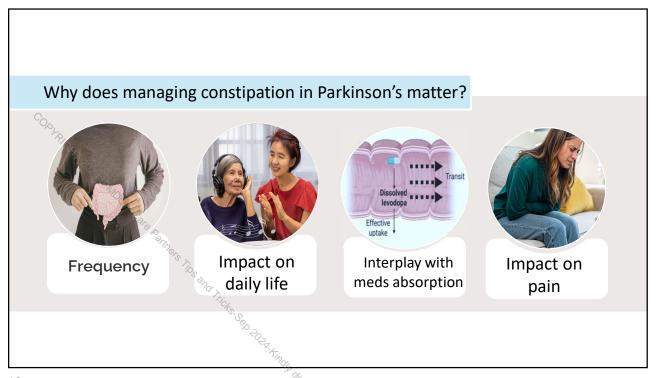
17

Review > Int Rev Neurobiol. 2017;134:811-826. doi: 10.1016/bsim.2017.06.003. Epub 2017 Jul 13.

Constipation in Parkinson's Disease

Fabrizio Stocchi 1, Margherita Torti 2

Treatment of constipation = pivotal to prevent complications such as intestinal occlusion and to ensure an optimal clinical response to levodopa.





Journal of Neural Transmission (2024) 131:165–172 https://doi.org/10.1007/s00702-023-02696-5

NEUROLOGY AND PRECLINICAL NEUROLOGICAL STUDIES - ORIGINAL ARTICLE

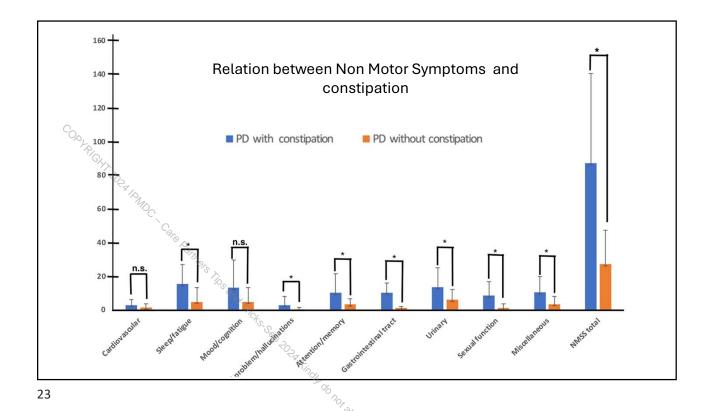
Constipation and pain in Parkinson's disease: a clinical analysis

Mohammad Al-Wardat¹ • Piergiorgio Grillo^{2,7} • Tommaso Schirinzi³ • Chiara Pavese^{4,5} • Chiara Salimei⁶ • Antonio Pisani^{2,7} • Silvia Natoli⁶

Constipation is associated with increased pain severity and interference in people with PD, as well as specific types of pain such as fluctuation-related pain and nocturnal pain.

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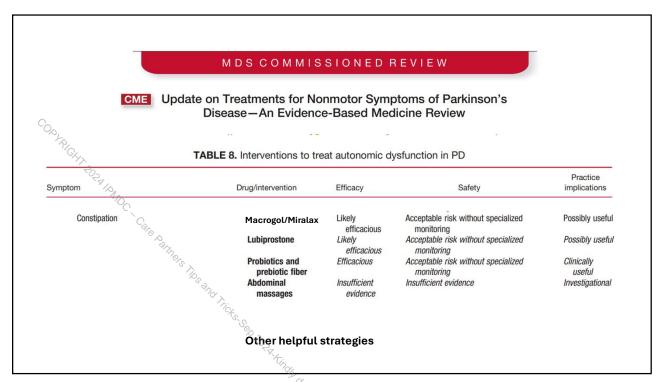




OUR GOALS

Why does managing constipation in Parkinson's matter?

Why does to the common management strategies?







"Afraid I am using too many laxatives."

 a person with Parkinson's from questionnaire

Laxatives can be effective for short-term constipation relief but overuse poses recognized health risks.

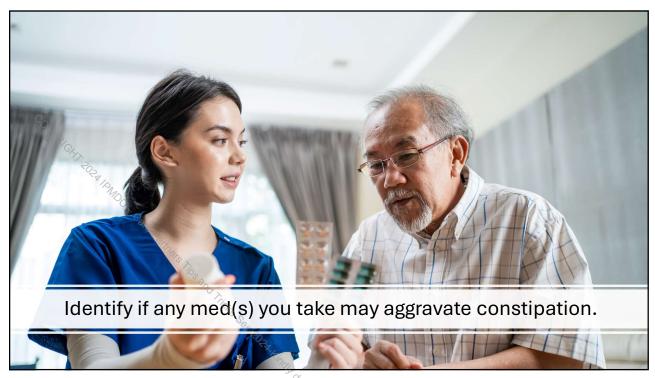
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Advice from the Inova team

- 1.If needed, start a bulk laxative. We recommended psyllium husk powder.
- 2.If needed, start an osmotic laxative. We recommend starting with MiraLax (polyethylene glycol) 1/2 cap every other morning. This can be increased up to 2 caps daily as needed for a goal bowel movement of at least every other day.
- 3.If needed, start a stimulating laxative. We recommended Dulcolax (bisacodyl) which can be used as needed for constipation.



Mick B. Reedy, MD







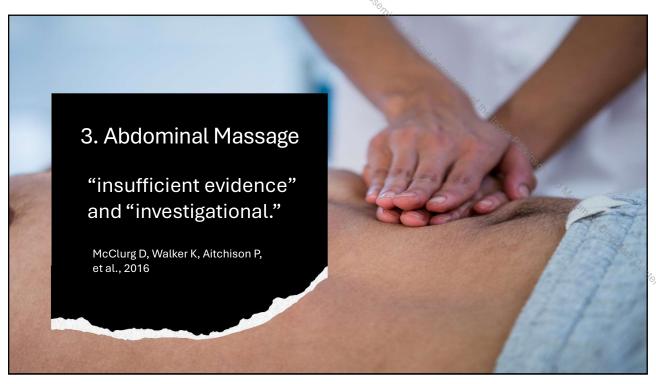
TYPE Systematic Review PUBLISHED 10 January 2023 DOI 10.3389/fphar.2022.1007654

Efficacy and safety of probiotics in Parkinson's constipation: A systematic review and meta-analysis

Li Xie, Dongmei Chen, Xinghui Zhu and Cisong Cheng*

Department of Chinese Medicine, Chengdu University of Traditional Chinese Medicine, Chengdu, China

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- Ease pain and discomfort
- Lower the time it takes for waste to move through your intestines (transit time)
- Trigger muscle contraction and relaxation

Time your massage to when you would normally expect to have a bowel movement: about 30 minutes to 1 hour after eating.

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published: 23 December 202:



Mediterranean Diet Adherence in People With Parkinson's Disease Reduces Constipation Symptoms and Changes Fecal Microbiota After a 5-Week Single-Arm Pilot Study

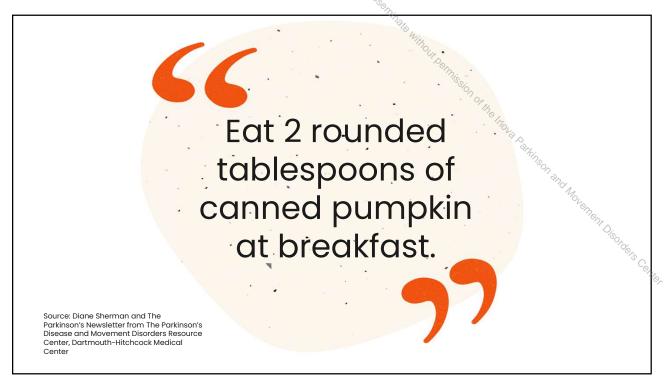
Carley Rusch¹/_c*, Matthew Beke^{1,2}, Lily Tucciarone¹, Carmelo Nieves Jr.¹, Maria Ukhanova³, Massimiliano S. Tagliamonte⁴, Volker Mai³, Joon Hyuk Suh⁵, Yu Wang⁵, Shannon Chiu², Bhayana Patel², Adolfo Ramirez-Zamora² and Bobbi Langkamp-Henken¹

¹ Food Science and Human Nutrition Department, University of Florida, Gainesville, FL, United States, ² Department of Neurology, Norman Fixel Institute for Neurological Diseases, University of Florida, Gainesville, FL, United States, ³ Department of Epidemiology, Emerging Pathogens Institute, University of Florida, Gainesville, FL, United States, ⁴ Department of Pathology, Immunology and Laboratory Medicine, Emerging Pathogens Institute, University of Florida, Gainesville, FL, United States, ⁵ Food Science and Human Nutrition Department, Citrus Research and Education Center, University of Florida, Lake Alfred, FL, United States

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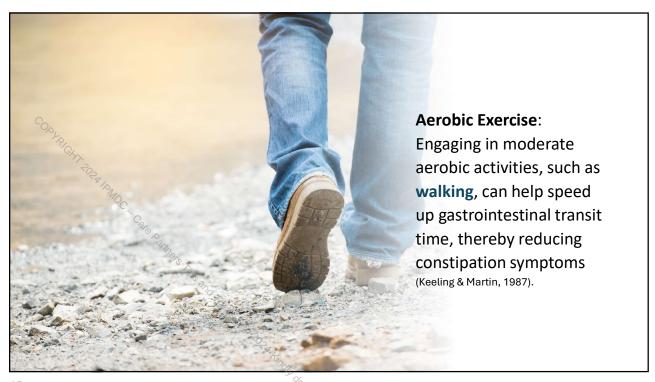
















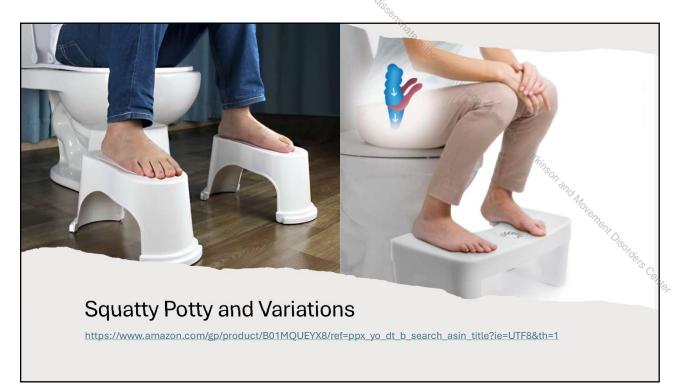


Consider how you take a bowel movement

- Squat when you take a bowel movement
- Drink warm water in the mornings
- Stretching or reaching, and breath deeply
- Try to reduce anxiety as it can make it difficult to relax the body
- Involve a caregiver or family member when needed

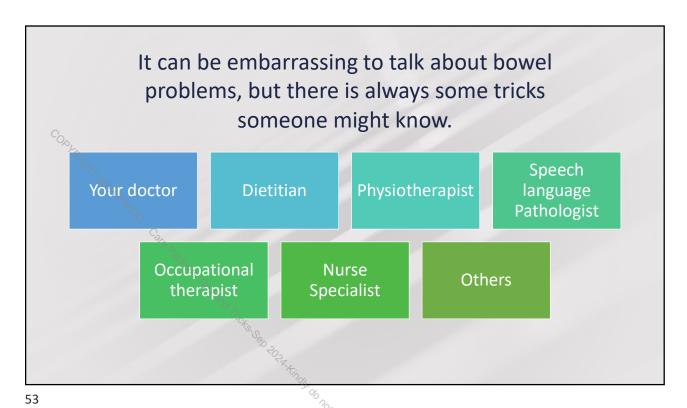


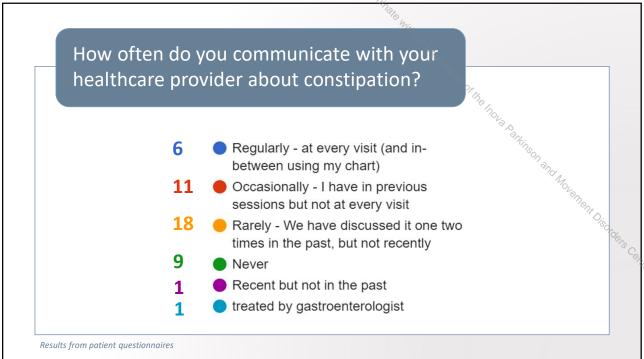
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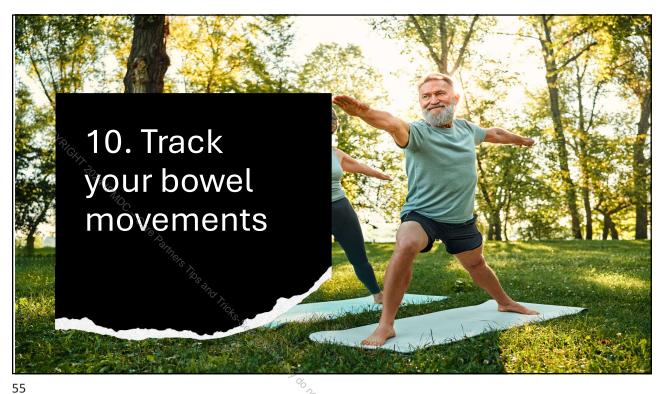


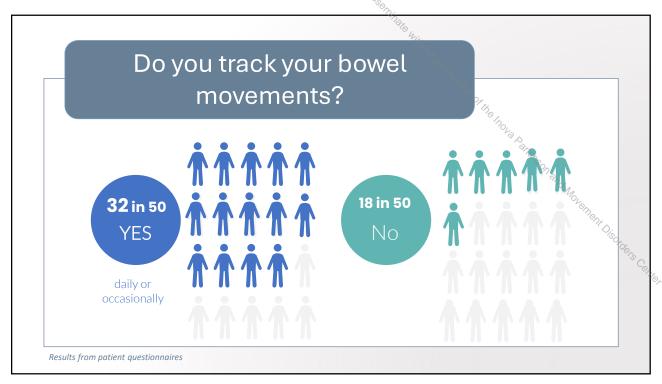




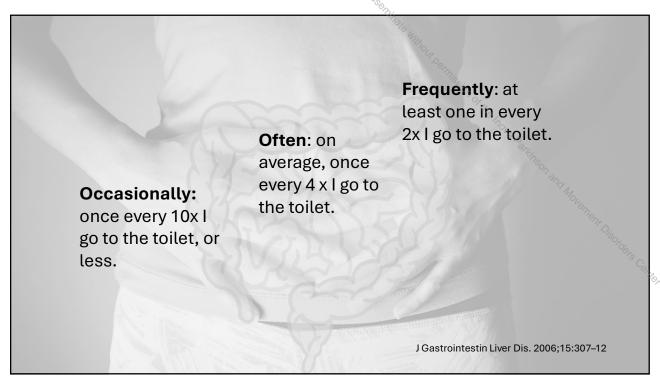




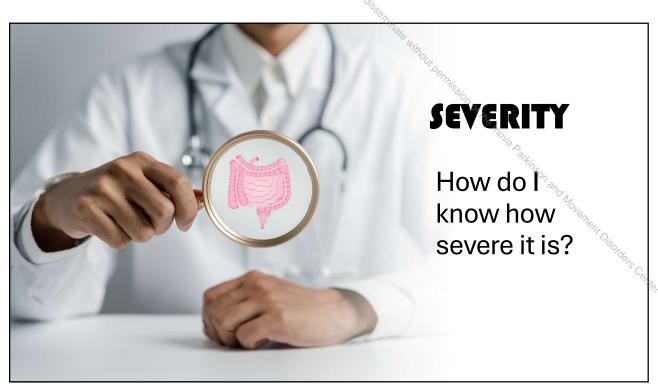


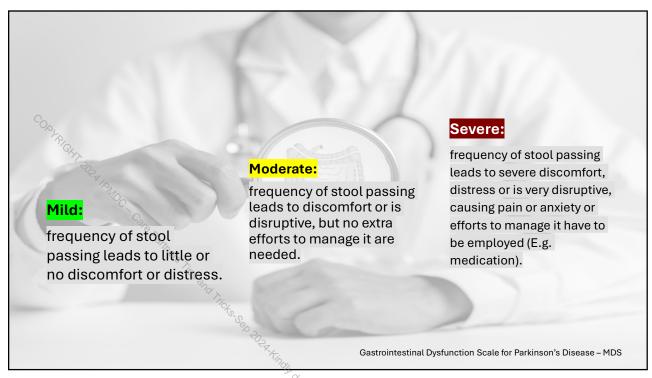


	Problem 1 Constipation	Problem 2	Problem 3
Novelty (new or present in previous consultation)			
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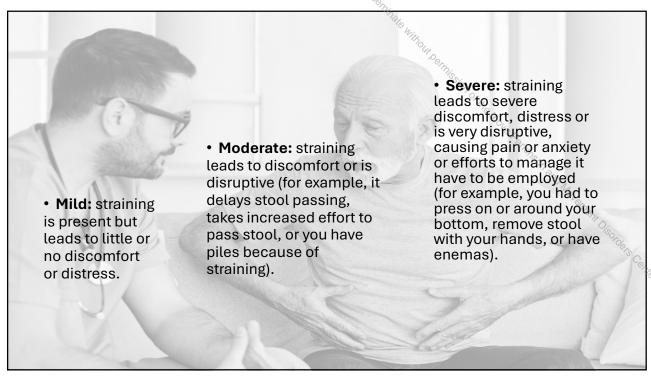
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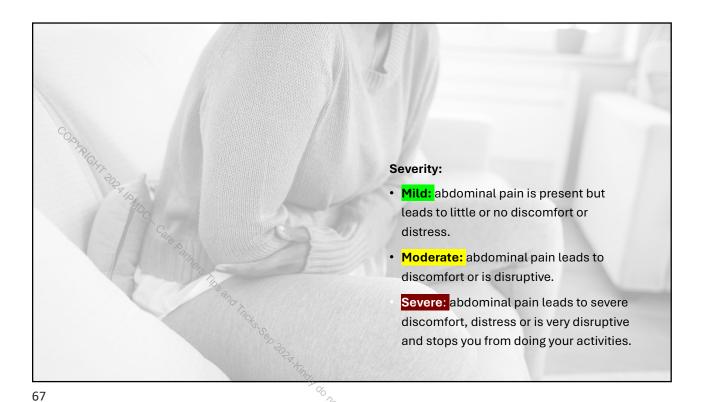
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Novelty (new or present in previous consultation)

Frequency
Severity
Impact on medication
Strain
Abdominal Pain
Others (weight, swallowing, diet changes)



Experienced days in which you have had an abnormal increase in stool passing

#### Frequency

Occasionally: less than once a week, I have needed to pass a stool more often than usual.

Often: on average, once a week, I have needed to pass a stool more often than usual.

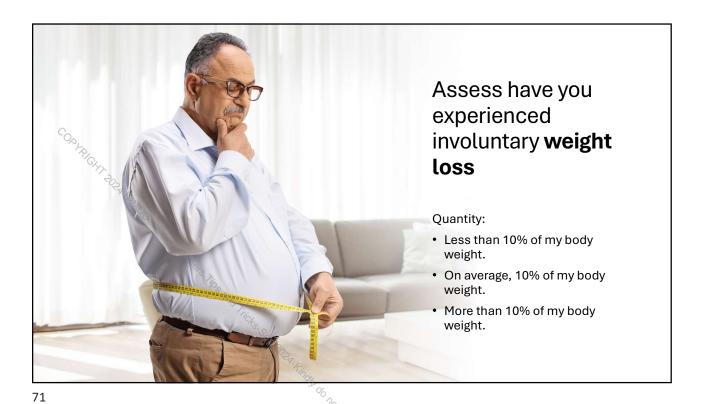
Frequently: at least twice a week, I have needed to pass a stool more often than usual.

### Severity

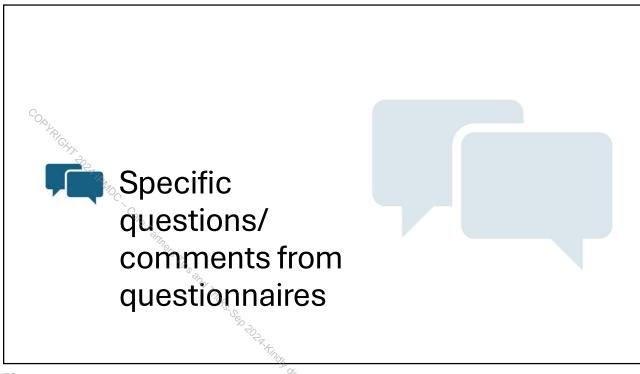
Mild: increased frequency of stool passing is present but leads to little or no discomfort or distress.

Moderate: increased frequency of stool passing leads to discomfort or is disruptive.

Severe: increased frequency of stool passing leads to severe discomfort, distress or is very disruptive and stops you from doing your activities (for example, faecal incontinence).

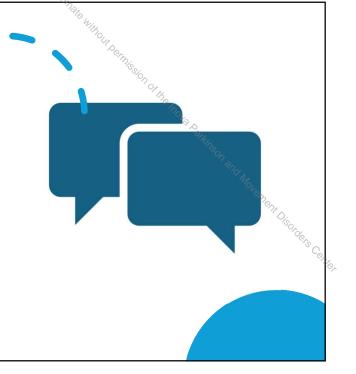


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Factors that make it worse			, o
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Carepartner opinion			
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"Is it ok to eat prunes and/or drink prune juice on a daily basis?"

Daily consumption of prunes or prune juice in moderate amounts is safe and provides digestive, cardiovascular, and bone health benefits. However, excessive consumption may lead to increased flatulence.



### "Can we take too many stool softeners or Milk of Magnesia, etc.?".

While stool softeners and Milk of Magnesia can be effective short-term remedies for constipation, their excessive use may lead to dependency, electrolyte imbalances, and gastrointestinal problems. It's important to follow medical advice regarding their appropriate use.



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### "The more salads I eat, the worse is my constipation".

- Certain factors related to salads and their ingredients might actually contribute to worsening constipation like:
  - eating vegetables high in insoluble fibers (lettuce, cucumbers & tomatoes) which will require increasing water intake.
  - using certain high-fat salad dressings may slow down digestion
  - eating raw vegetables, especially in large amounts, can be harder to digest than cooked ones



### "What is the best over-the-counter for constipation?"

- Depends on the cause of constipation and personal preference.
- Consult a healthcare provider to determine the underlying cause and best treatment choice for you.
- Macrogol, probiotics, and fiber supplements are among the best OTC options for managing constipation in Parkinson's.



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### Thank you for coming