



PARKINSON'S DISEASE

SPOTLIGHT ON PARKINSON'S DISEASE: LIVING WELL EVERYDAY

Support for this ram provided by:

Lundbeck X

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WELCOME AND INTRODUCTIONS



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PRESENTATION
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COMMUNICATION CHANGES COMMON WITH PD

- About 90% of people with PD will experience changes in communication
- Changes can be very subtle and can occur early in the disease process
- · Areas affected:
 - breath support
 - voice production
 - · speed and accuracy of articulation
 - · inflection of voice
 - · reduced facial expression, fewer gestures
- · Sensory disconnect
- · Leads to social isolation and reduced quality of life







TREATMENTS WITH SPEECH AND VOICE FOCUS









COGNITIVE DEFICITS

- Cognitive changes are common and are highly variable from person to person
- · Frustrating and with emotional consequences
- Common areas affected: attention, some types of memory (especially when learning new information), language, executive functions, and visuospatial functions and a generalized complaint of "bradyphrenia" (slowed thinking processes)
- · Depression, anxiety and apathy can play a role, and should be true
- An often ignored and significant contributor is *hearing loss*
- Physical exercise is part of a program of cognitive stimulation !!!

Evaluation and treatment:

- · Discuss any changes in cognition with your movement disorder specialist
- · Neuropsychological assessment
- · SLP Services: Cognitive retraining and compensatory strategy training

SWALLOWING CHANGES ASSOCIATED WITH PD

- · Dysphagia is the medical term for a swallowing disorder
- · Changes associated with PD can affect every stage of the swallow
- Changes occur because of decreased force of movement, decreased range of motion, slowness of movement and a decreased ability to adapt to changes in volume and consistency of foods and liquids, as well as changes in reflexes involved in swallowing and airway protection
- Dysphagia has real health consequences for people with PD -- weight loss, reduced quality of life, and aspiration pneumonia
- Dysphagia can also be linked to social isolation







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IMPORTANT SYMPTOMS TO REPORT TO YOUR PHYSICIAN

- · Coughing while or shortly after eating
- Gurgly or "wet" vocal quality
- Excessive watery eyes, nasal drainage, sneezing at meals
- Difficulty chewing
- Needing to swallow many times per bite or sip
- Food remaining in mouth after swallowing/difficulty clearing food from sides of mouth
- Taking longer and longer to finish a meal
- Drooling

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- Losing food or liquids from the mouth
- Frequent heartburn
- Complaints of food getting "stuck" or difficulty with certain consistencies, complaints of globus (lump in throat)
- Changes in respiration with eating (shortness of breath, changes in color)
- · Anxiety/agitation while eating
- Unplanned weight loss
- Difficulty swallowing pills

SPEECH-LANGUAGE PATHOLOGY SERVICES FOR DYSPHAGIA

Evaluation:

Physician's order for "Dysphagia evaluation and treatment."

- 1. "Bedside" evaluation of the swallow
- 2. Modified Barium Swallow Study (MBSS)

Treatment:

- LSVT LOUD®
- Expiratory Muscle Strength Training
- · Compensatory strategies
- · Changes in posture and positioning
- · Modification of diet
- · Look at on/off periods







Common Sense



COMMON SENSE GUIDELINES FOR MEALS AND PILLS

- Position as close to 90 degrees upright as possible
- · Position yourself with everything within reach
- · Small bites and sips
- · Eat slowly
- · Alternate bites of food with sips of liquid
- Soft moist foods are easiest to chew
- Eat smaller meals throughout the day
- · Minimize conversations and distractions at meals
- Do not lie down for 1/2 hour after meal
- Take pills one at a time with cold liquids; may also put one pill at a time in a spoonful of pudding, applesauce or smooth yogurt. Follow this spoonful with a couple of "dry" swallows, then a sip of cold liquid
- · Do not crush pills without the approval of your physician
- Consult your physician and consider seeing a nutritionist if you are losing weight; keep a food diary









ADEQUACY UNPLANNED WEIGHT LOSS

- Minor adjustments often effective
- Add 100-400 calories daily for gradual weight gain
- Small, frequent meals are easier to tolerate
- Add softer foods that require less cutting and chewing
- Low protein-high calorie supplements may be helpful if larger additions are needed to manage weight loss









BALANCE: CARBOHYDRATE

- Faster stomach emptying time than protein or fat
- Food sources
 - Starch (breads, cereals, rice, pasta, potatoes, beans, peas, lentils)
 - Natural sugars (fruits, vegetables, milk products)
 - Fiber
 - Added sugars

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BALANCE: PROTEIN

- Most people get more than they need and would benefit from choosing more plant sources
- Food sources
 - · Dairy and soy products
 - Meats
 - Beans, peas, lentils
 - Nuts and nut butters
 - · Grains and vegetables









BALANCE: FAT

- Longest stomach emptying time compared to carbohydrate and protein
- · Heart-healthy sources
 - Olive, canola, peanut oils
 - Nuts, nut butters
 - Avocadoes, olives
 - Fish

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VARIETY **MICRONUTRIENTS** Diet-related nutrients of concern for most Americans Vitamins A, C, E, D ٠ Potassium, Calcium, ٠ FOR AMERICANS Magnesium 2015-2020 **Dietary Fiber** ٠ **EIGHTH EDITION** For PD Folate, vitamin B12, vitamin B6 AMERICAN PARKINSON DISEASE ASSOCIATION 90













DIETARY SUPPLEMENTS

- A multivitamin-mineral, age/sexappropriate supplement is generally recommended.
- Diagnosed vitamin deficiencies may be treated under MD supervision.
- High dose supplements and diseasespecific supplements may interfere with medications and/or worsen other conditions.
- Be cautious. Let your healthcare team know about any supplements you are considering.

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CONSTIPATION MOST COMMON GI SYMPTOM IN PD

- 25 and 38 grams of dietary fiber per day are recommended for women and men, respectively.
- The average American adult consumes only 15 grams of fiber per day.
- Adequate fluid intake is essential with increased fiber intake.

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EXAMPLE DAY OF FIBER-RICH FOOD CHOICES

Food Group Serving Size	# of Servings	x Approximate Fiber Content Per Serving (grams)	= Fiber Intake (grams)
Whole Fruit 1 medium, 1 cup cut	2	2	4
Vegetables 1 cup cut, 2 cups raw leafy	3	4	12
Whole Grains 1 slice bread, ½ cup cooked rice/pasta/oatmeal	4	2	8
Beans, Peas and Lentils ½ cup cooked	1	8-10	9
Nuts and Nut Butters ¼ cup nuts, 2 Tablespoons nut butter	1	2	2
Whole Grain Breakfast Cereals See Nutrition Facts Label	1	3	3
Total			38
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ESTIMATE YOUR FIBER INTAKE

Food Group Serving Size	# of Servings	x Approximate Fiber Content Per Serving (grams)	= Fiber Intake (grams)
Whole Fruit 1 medium, 1 cup cut		2	
Vegetables 1 cup cut, 2 cups raw leafy		4	
Whole Grains 1 slice bread, ½ cup cooked rice/pasta/oatmeal		2	
Beans, Peas and Lentils ½ cup cooked		6	
Nuts and Nut Butters ¼ cup nuts, 2 Tablespoons nut butter		2	
Whole Grain Breakfast Cereals See Nutrition Facts Label		3	
Total			
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DELAYED STOMACH EMPTYING

- If Levodopa is taken with food, it will not be absorbed until the food leaves the stomach. Take 30-60 minutes before eating.
- Heartburn/acid reflux and delayed medication effects may be signs of delayed gastric emptying.
- Small, plant-based meals and snacks may improve gastric emptying time.

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LEVODOPA AND PROTEIN

- Protein competes with levodopa for absorption and transport through blood-brain barrier
- **Moderate motor fluctuations:** Reduce protein by substituting plant sources and spread evenly throughout the day
- Marked motor fluctuations: Restrict protein at breakfast and lunch with catch-up protein at evening meal to meet daily protein requirements

















<section-header> ESTIMATING PROTEIN CONSUMPTION DARY PRODUCTS AND EGGS 8 ounces of milk = 8 grams 6 ounces of yogurt ~ 8 grams 6 ounces of yogurt ~ 2x regular yogurt 1 ounce of cheese = 7 grams (easy to eat several ounces) 1 large egg = 7 grams







A PATH TO WELLNESS

- Pursue educational offerings in detecting and mitigating the symptoms of PD
- Track changes; consider a journal/daily log for jotting down concerns/noticed changes
- Report even mild or subtle changes to your physician and treating therapists
- Choose professionals that you will feel comfortable working with at various times over the course of the disease
- · Combat social isolation!











CLOSING REMARKS



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