

## Sights, Sounds and Parkinson's

## WELCOME TO EXPERT BRIEFINGS!

✓ The program will begin at the top of the hour

✓ Meeting attendees will be muted

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Divisions of Neuro-Ophthalmology and Movement Disorders University of Pennsylvania









## **Our Goals**

To help our global community live better with Parkinson's, we pursue **three goals**:

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- 1. Improve care for everyone with Parkinson's
- 2. Advance research toward a cure
- 3. Empower and educate our global **community**



## For Your Convenience Image: Convenience RECORDING Expert Briefings are recorded and archived on Parkinson.org/ExpertBriefings within one week SLIDES Download today's presentation via link in the chat.



## Meet Your PresenterImage: Distance of the second decision d

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## Sights, Sounds and Parkinson's

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## Vision & general health (including PD)

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- Vision is our most dominant sense.
- Integral to many daily activities (e.g. reading, writing, driving).
- Increasingly important as technology plays a greater role in our lives (e.g. using text/email instead of talking on the phone).
- Visual impairment is associated with poor health outcomes in the general population (regardless of PD).
  - Falls/injury (e.g. hip fracture)
  - o Depression/anxiety
  - o Cognitive impairment/dementia

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## Vision & general health (cont.) At least half of all visual impairment is caused by eye diseases that are treatable or preventable! E.g. refractive error, cataracts, glaucoma, macular degeneration Associated with age. Important to see an eye doctor regularly (regardless of PD).





## Common visual symptoms in Parkinson's disease

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- 1. Dry eye
- 2. Double vision
- 3. Difficulty reading
- 4. Impaired depth perception
- 5. Visual hallucinations







# Dry eye: Treatment (cont.) Warm compresses (for blepharitis). If these don't work, then follow-up with your eye doctor (prescription eyedrops, in-office procedures).



















## **Visual hallucinations**



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- Seeing something that is not there.
- Very common (half of PD patients will experience at some point) but <u>frequently under-reported</u>.

 $\circ\,$  Afraid of being perceived as "crazy" or having dementia.

• Direct manifestation of PD, can appear/worsen with certain medications.

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## Visual hallucinations (cont.)

Wide range of symptoms

- o Illusion of presence/movement in peripheral vision
- o Brief shadow, passing shape
- o Animals, children
- o Can be distressing/threatening (e.g. people trying to break into house)

## Treatment

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- o Can adjust PD medications
- $\circ~$  Add specific medication for hallucinations





## **Hearing and PD**



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- Less well studied than vision.
- Some studies suggest that people with PD (especially early onset) may have mildly reduced hearing compared to people without PD.
- May also have trouble localizing sounds in space.
- Like vision, hearing impairment may also be associated with hallucinations.
- Primarily treated with hearing aids.



## Frequently Asked Questions (cont.) Q: My eye doctor told me that I have cataracts/glaucoma/macular

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Q: My eye doctor told me that I have cataracts/glaucoma/macular degeneration. Is this condition related to PD?

A: Probably not.

- These conditions are associated with age, and because PD is also more common with age, they are relatively common among PD patients.
- Glaucoma and macular degeneration are neurodegenerative conditions, and so is PD, so there is the suggestion that they may have some shared risk factors, but this has not been definitively shown yet.
- Cataracts are correctable with minor surgery, and PD does not disqualify you from any eye treatments (if anything, they are more important than ever).













