





Spotlight on Clinical Trials – What You Need to Know

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Welcome and Introductions



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Disclosure Statements

Dr. Saint-Hilaire: Research Investigator for studies supported by NIH, Michael J. Fox, Acorda, and consultant for Delsys Inc.

Ray James: Research Nurse Coordinator for trials supported by NIH, Michael J. Fox, Acorda.

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By the prospectively assigns human participants or groups of humans to one or more health related interventions to evaluate the effects on health related interventinte



Purpose of Clinical Trials

- Determine safety and efficacy of a therapy
- Observe characteristics of a disease or impact on an individual
- Understand how a therapy works (i.e. pharmacokinetics of a drug)
- Learn information that can be applied to a broader group of people

Clinical trials are the best way for researchers to learn how to diagnose, treat and prevent Parkinson's.





Examples of Interventional Trials in Parkinson's

Drug Studies

- New medications to treat symptoms or slow progression
- New ways of delivering a medication (i.e. patch, controlled-release)
- New indications of a previously approved medication

• Surgical Studies

- Deep Brain Stimulation
- Cell/Gene transplants

• Non-Medical Treatments

- Exercise, PT, OT, Speech, Tai Chi
- ¹¹ Cognitive-Behavioral







Examples of Observational Studies

in Parkinson's



- Biomarkers
 - Biomarkers are characteristics of a disease that can be tested
 - Test blood, spinal fluid, urine, saliva, skin, genes, imaging, neuropsych
- Risk factors for Parkinson's
- Social-Behavioral studies
- Exercise (natural course of physical activity in Parkinson's)
- Cognition and Depression in Parkinson's





- Phase I
- Phase II
- Phase III
- Phase IV

It takes between 6 and 11 years for a drug to obtain FDA approval.

FDA Review website: http://www.fdareview.org/approval_process.shtml





















- NIH, NINDS, DOD, NSF
- Industry

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• Pharmaceutical, Biotech



• May co-sponsor a study or provide research funding

NIH





A Walk Through a Clinical Drug Trial







Responsibilities of Each Study Site

- Each study has a person in charge
 - Each study site has a Principal Investigator (Site PI)
- Formulate research team
 - PI, Sub-PI, Study Coordinator, Research Assistants, Regulatory Contact
- Train study team on conduct of the study
 - Good Clinical Practice (GCP)
 - Investigator Meetings

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• Prepare Protocol for review by the Institutional Review Board







Consent

- Study Purpose
- Procedures / Payments
- Risks / Benefits
- Rights

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- Confidentiality / HIPAA
- Inclusion/Exclusion Criteria





What Happens After the Trial?

• Results will not be available until all participants have finished the trial and data analysis is completed, which may take several months to a few years.

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- Some trials allow participants to roll over into an open label trial.
- Participants may be kept informed by webinars and letters.
- Subjects eventually will learn their treatment group during the study (placebo vs active drug).
- Investigators and sponsors are responsible to publish results, whether positive or negative.
- Experts review results before submitting to the FDA. $^{\scriptscriptstyle 27}$





How Has Subject Participation Made a Difference?

Some Examples

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- Made available treatments including Levodopa, Dopamine Agonists, MAO-B Inhibitors, COMT Inhibitors.
- Improved delivery methods of medications, i.e. Long-acting formulations, Patch, Infusion pump.
- Deep Brain Stimulation
- Better understanding of genetics
- Importance of exercise
- Other clinical aspects, i.e. improved knowledge of non-motor symptoms

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Thank You!

We all need to contribute to the solution, each and everyone of us.







Closing Remarks



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