

# Partners in progress

## The importance of clinical trials participation

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# Cure?- we are not there yet

## What will it take?



# PARKINSON'S DISEASE

- 1 million patients in the US
- 50,000- 60,000 new cases/ year
- Prevalence increases with age (per 100 000)
  - 40- 49 y.o.: 23
  - 70- 79 y.o.: 525
  - 80- 89 y.o.: 1145
- The number of people with PD is expected to double by 2040 as the reflection of population aging

Tanner et al in Watts, Koller, eds. Movement Disorders 1997

Dorsey et al, 2008

# PARKINSON'S DISEASE

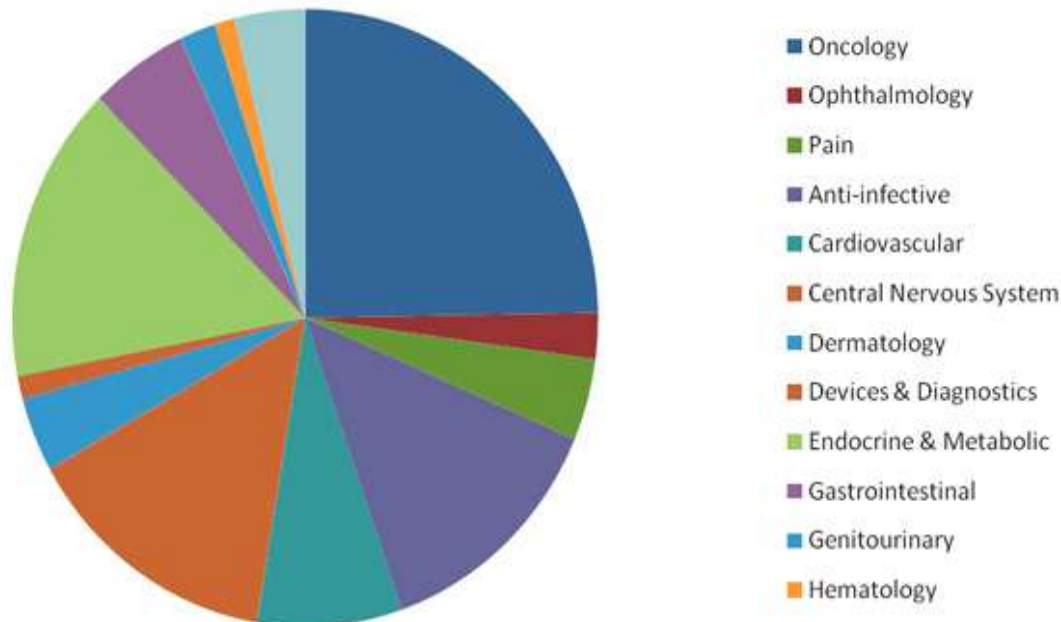
## Economic burden

- Annual direct cost
  - \$ 23,101/patient/year vs \$11,247/controls
- Annual indirect cost
  - \$ 25,326/patient/year
- Estimated annual cost in US
  - \$ 23 billion/year
- Cost of care doubles with the progression of Dx

# What does it take to develop a new drug?

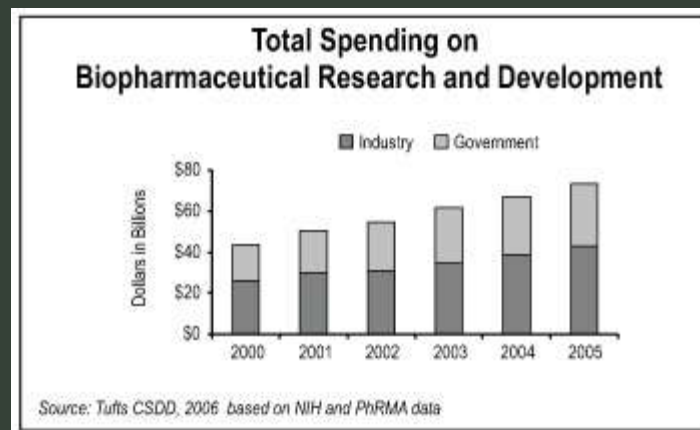
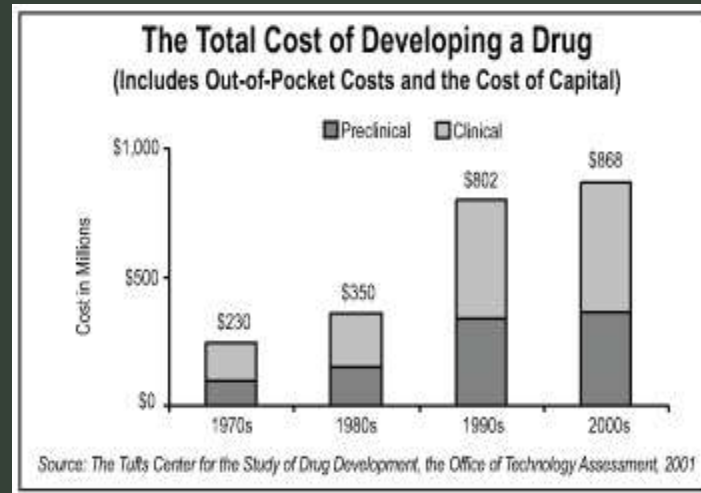
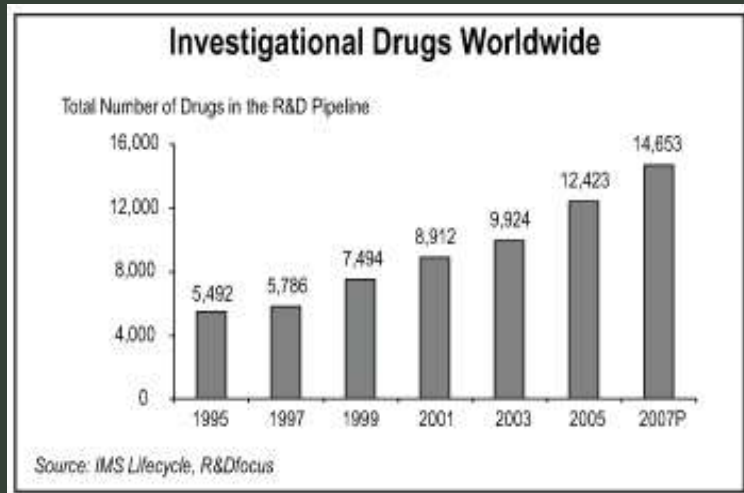
- Cost of development of a new drug  
– 1.073 billion ( 2008)

Segmentation of U.S. Clinical Trials by Therapeutic Area



Source: Parexel's  
Bio/Pharmaceutical R&D  
Statistical Sourcebook  
2009/2010

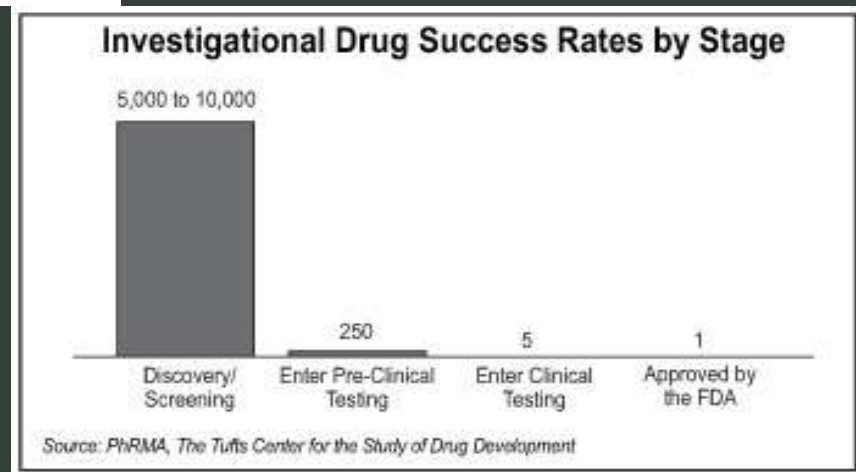
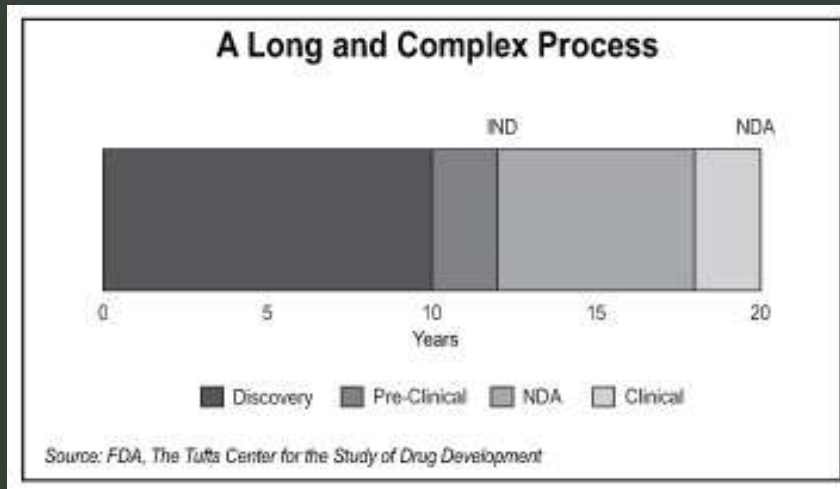
# Number of new drugs in development



# Phases of Clinical Development

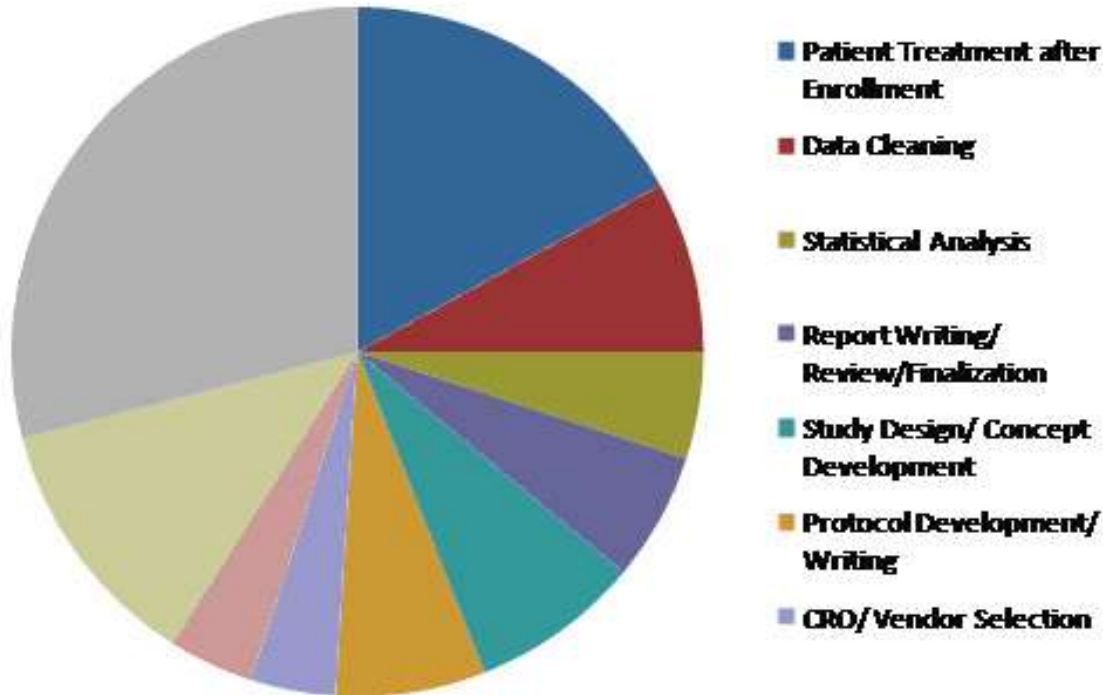
- Phase I
  - Pharmacology/Dose Finding/Safety
- Phase II
  - Prelim Efficacy/Activity/Safety/Dose
- Phase III
  - Confirm Efficacy/Safety/Dose
  - Large randomized placebo controlled studies
- Phase IV
  - Refine use and efficacy/safety profile
  - Post marketing

# Why does it take so long to develop a new drug?



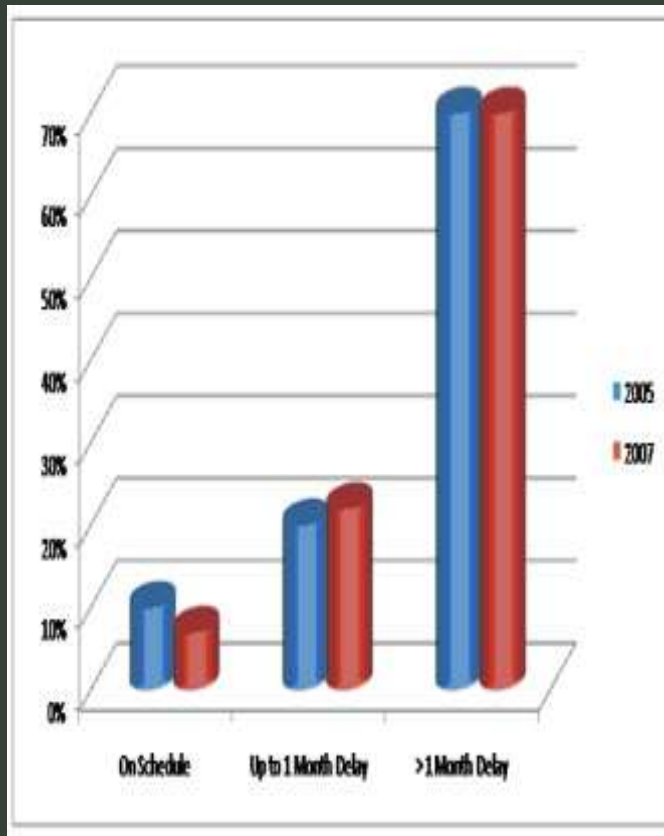
# Why does it take so long to get the results ?

**Time Consumed by Various Clinical Trial Activities**

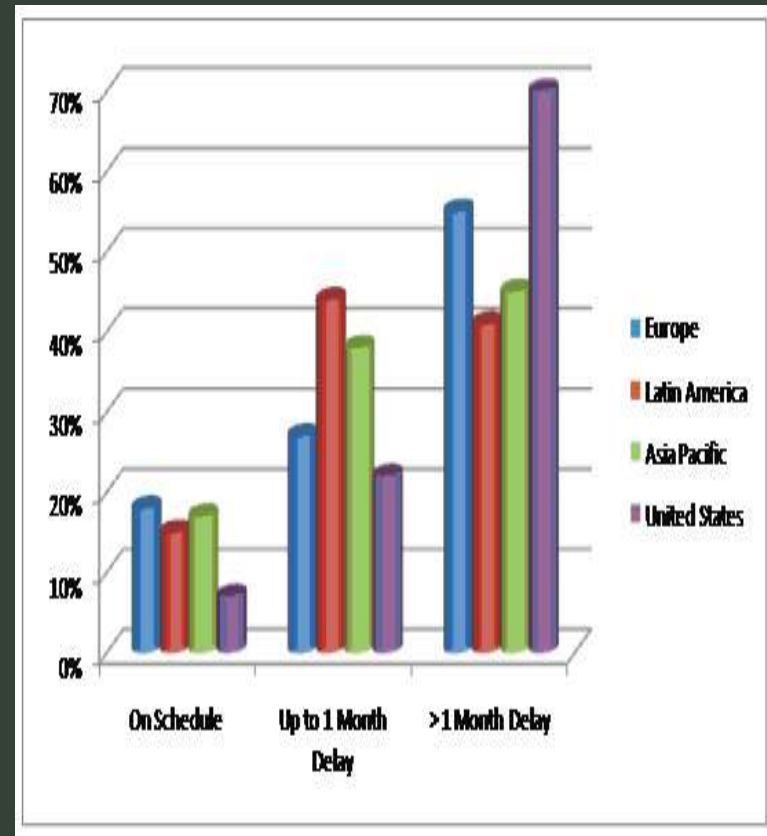


# Timeline of clinical trials recruitment

United states



The rest of the world



# Clinical trials challenges

- 50, 000 clinical trials in US
  - 90% fall behind in recruitment ( CRISP 2009)
- 10% of eligible patients participate in the clinical research
- Less than 1% of PD patients participate in clinical research

# Top 5 reasons why patients participate in clinical trials

- - To advance medicine: 51%
- To find a better treatment for my condition: 46%
- To help others with my condition: 39%
- To earn extra money: 36%
- My doctor recommended it: 31%

# What do studies participants say ?

- 88% of studies participants will do it again

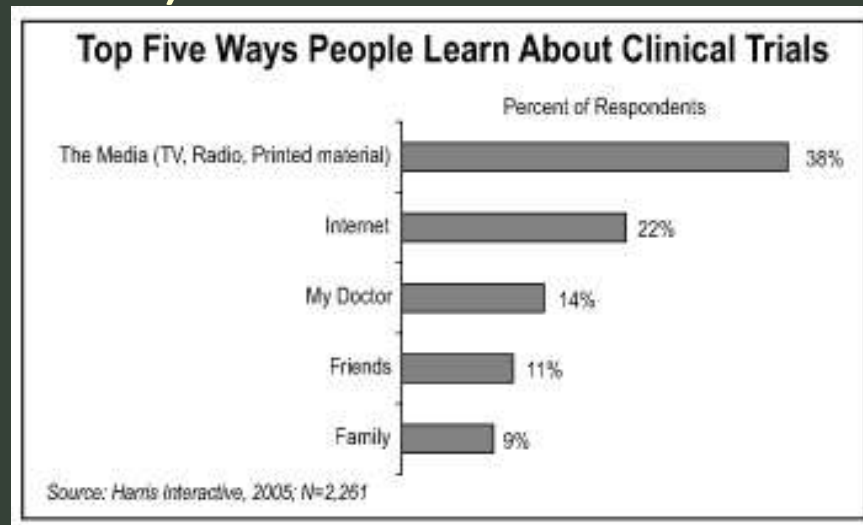


# So why so few participate in clinical research ???

- 71% of PD patients are NOT aware of clinical trials in their area
- 80 % of PD patients want more information on clinical trials
- 80% will be willing to participate in studies if available locally
- 75 % of MDs discuss clinical trials with <10% patients

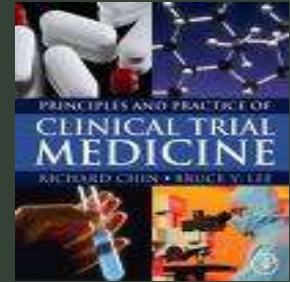
# How do patients learn about clinical trials

- Most common source of information in PD community
  - Support groups 40%
  - Other people with PD 27% ( PDtrials Harris Interactive Poll 2005)





# Call for Action



- WE APPRECIATE EACH OF YOU BEING HERE
- WE TRULY VALUE YOUR COMMITMENT
- THERE IS A LOT OF EXCITING RESEARCH IN PD
- IT WILL TAKE A PARTNERSHIP TO SUCCEED
- TOGETHER WE CAN DO IT
- THANK YOU !!!!

