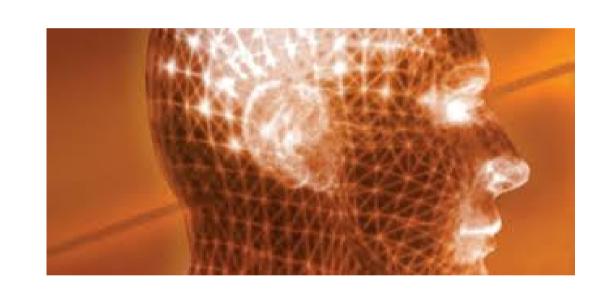
## Day 2

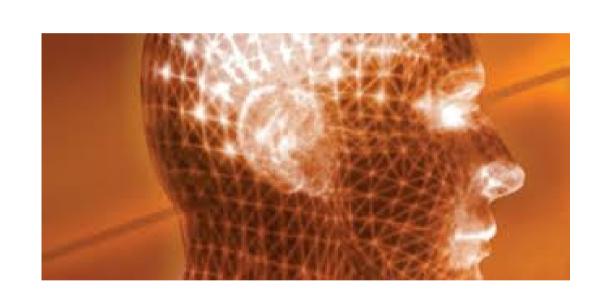
# Plenary: Non motor manifestations of Parkinson's disease



## Plenary Day 2 – Non-motor manifestations of PD

**Lecture 3** 

Antonio Strafella (Canada)



# Contribution of functional imaging to the understanding of non-motor manifestations of PD

Many similarities to the lecture within Science and advocacy of Day 0\*



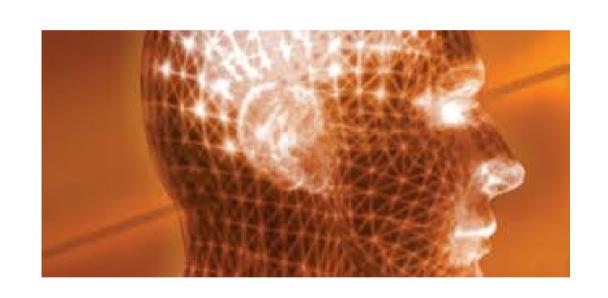
## **Contribution of Functional Neuro Imaging in Non Motor Manifestations**

- Increase reporting of cognitive dysfunction and impulse control disorders
- Cause significant distress for patient and family
- To date mechanisms causing abnormal behaviour is poorly understood

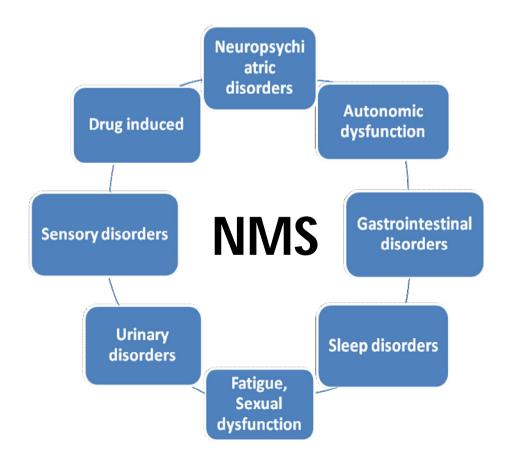
## Non-motor manifestations of PD

Ray Chaudhuri

**Plenary Session** 

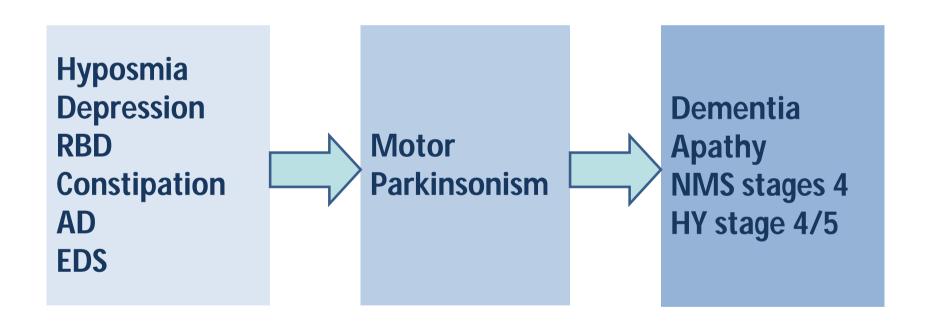


### Non-motor symptons in Parkinson's





### Non-motor symptons in Parkinson's





### Non-motor symptoms - tools

#### The first validated NMS questionnaire:

**NMSQuest** 

Empowering patients across the world to declare NMS to HCP

Worldwide use

Chaudhuri et al 2006

<a href="http://www.parkinsons.org.uk/content/non-motor-symptoms-questionnaire">http://www.parkinsons.org.uk/content/non-motor-symptoms-questionnaire</a>

#### The first validated NMS scale (NMSS)

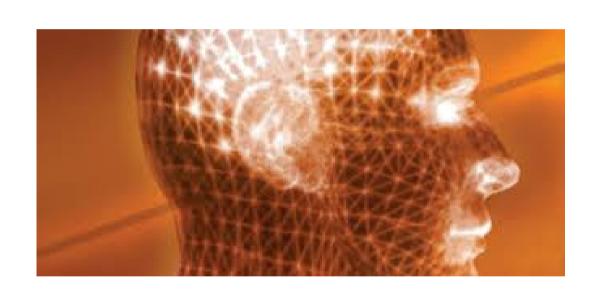
Worldwide use for clinical trials and epidemiology Chaudhuri et al 2007/2009



# Dementia and psychiatric manifestations in PD

**David Burn** 

**Plenary Session** 



### **Non Motor Symptoms**

	Patients
Depression	35%
Anxiety	40%
Apathy	35%
Psychosis (Hallucinations)	<b>Up to 60%</b>
Psychosis (Delutions)	5 – 10%
Delirium	
Dementia	
Mild cognitive impairment	40%



### **Depression**

- Often co-exists with anxiety
- May predate onset of motor symptoms
- Heterogeneous
- May associate with motor phenotype
- Aetiology
- Psychosocial
- Neurobiological
- Anatomical
- neurochemical



### **Psychosis - Treatment**

- Stopping drugs is often the first step
- Review current medication
  - E.g. stop anticholinergics, selegiline, amantadine (gradual)
- Treatment not always required
- Non-pharmacological
  - Environmental considerations
- Pharmacological
  - Avoid ,typical' neuroleptics
  - Cholinesterase inhibitor



#### **PDD Profile**

- Executive dysfunction and ,bradyphrenia often dominant
  - Lack of mental flexibility, inability to multitask, complete simple tasks, mental slowness
- Memory and visuospatial deficits
- Fluctuating attention
  - Variability in performance
- High neuropsychiatric burden
  - Depression, apathy, visual hallucination, sleep-wake disorders
- Postural instability and falls



## What do PD nurse specialists spend their time on?

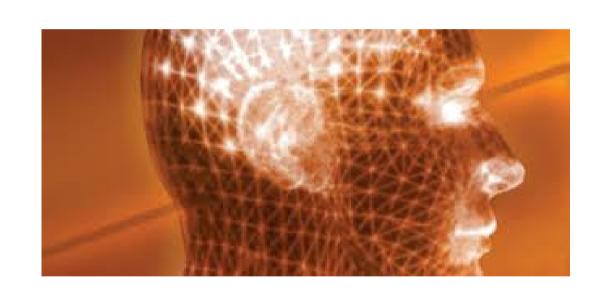
- Neuropsychiatric symptoms
  - May predate motor features
  - Increase as cognitive decline progresses
  - Are often underdiagnosed
- Cognitive impairment
  - May affect 35 40% people at time of diagnosis
  - Full blown dementia in up to 80% (!)
  - Largest area of unmet therapeutic need in PD



## Non Motor Symptoms & PD

Meet the experts Round Table

**Host: Ronald Pfeiffer** 



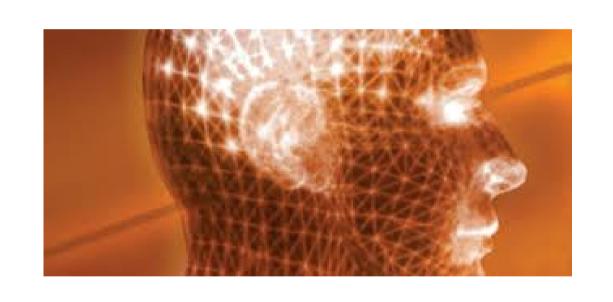
#### **Round Table Discussion on NMS**

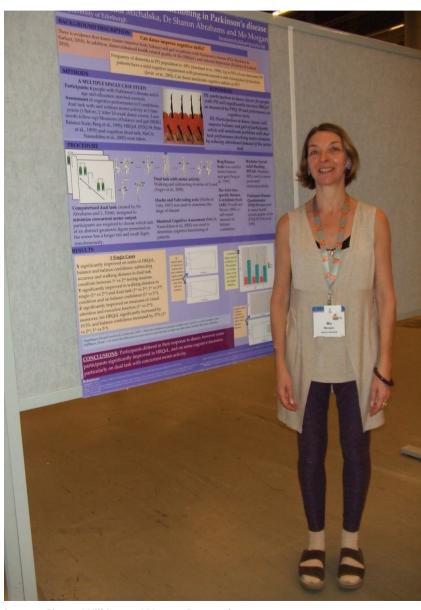
- Vision and double vision
- Difficulties to focus or bring eyes in
- Impaired contrast
- Extreme crying
- Saliva problems
- Bladder problems
- Running eyes and running nose
- Peristalsis problems
- ,Phone' feeling



#### **Poster**

CAN DANCE FOR PARKINSON'S IMPROVE COGNITIVE FUNCTIONING IN PWP?





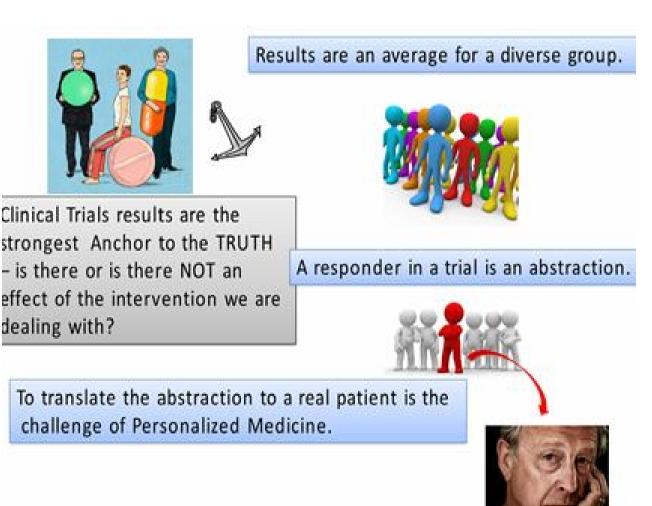


#### Parkinson's Disease Clinical Trials

- No drug has yet been established to have a neuroprotective effect in PD
- Some clinical trials have shown positive results from neuroprotective agents
- Results could not be determined whether benefit was due to Pharmacologic or regulatory effects of the study agent

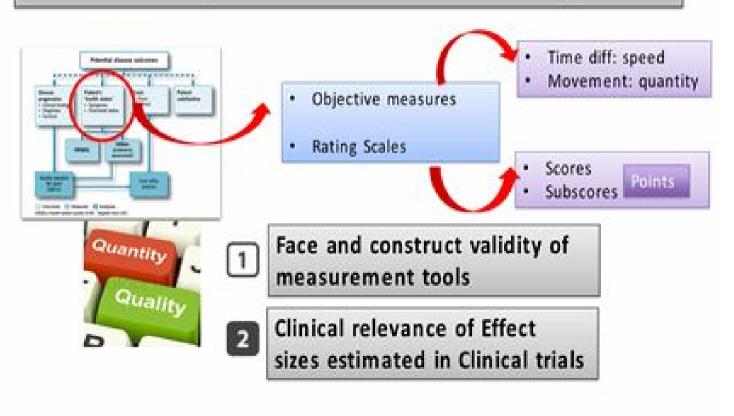


#### Parkinson's Disease Clinical Trials

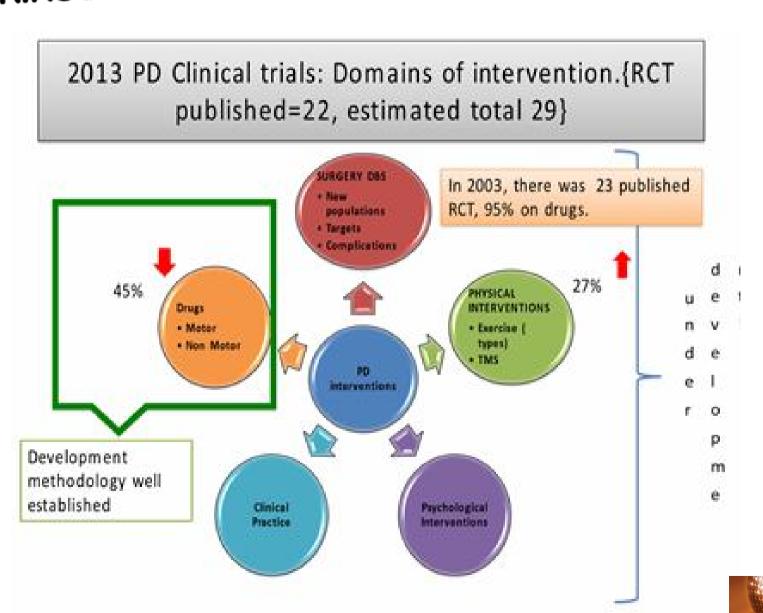




What do we measure in PD Clinical trials and how do we try to translate it back to the patient?







# Ways for people with PD to become empowered

- Self Efficacy-AGAIN!
- Confidence to deal with medical management
- Health care provider to increase patient skill and confidence in managing their health

#### The Expanded Chronic Care Model





## Self Efficacy – AGAIN!

"One's belief that one can perform a specific behaviour or task in the future"

Dr Albert Bandura



# Meta-analysis of the Stanford CDSMP conducted by US Centers of Disease Control

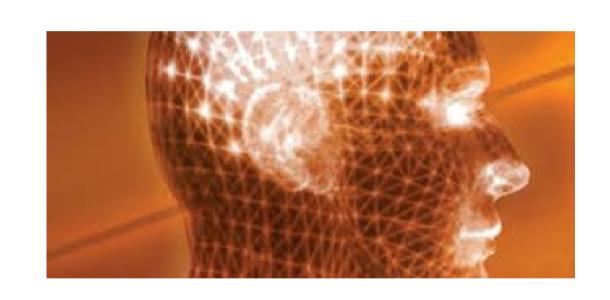
- Control Chronic Disease Self-Management Program
  - 23 studies
  - Between 1999 and 2009
  - 5 countries
  - 3000 subjects in RCT's
  - 5,688 subjects in longitudinal studies
  - Studied impacts at 6 and 12 months



## Benefits and Risks of Genetic Testing

Workshop

Presenter: Oksana Suchowersky



## Workshop: Benefits and risks of genetic testing

#### **Clinical vs Research genetic testing**

#### **Decision factors:**

- Patient
- Family and partner
- Outside, e.g. insurance

#### **Conflicts**

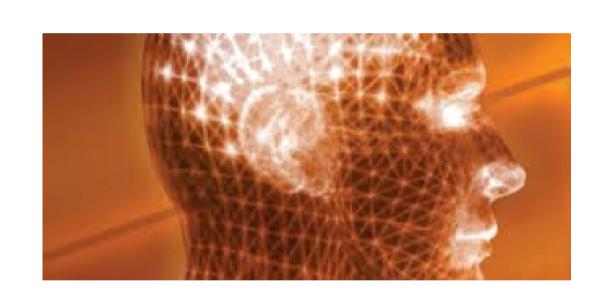
Unexpected results

#### **Need for counseling**



# Workshop Dance for Parkinson's: Why and How?

Gammon Earhart, David Leventhal, Maura Fisher, Diane Cote, Joanabbey Sack



## Dance for

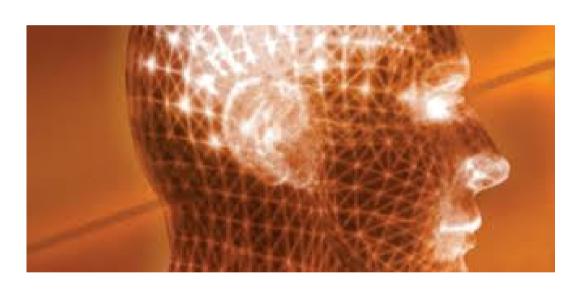
## Parkinson's<sub>©</sub> David Leventhal

(DL) of the Mark Morris **Dance** Group (MMDG)

Accompanied live by

William Wade, musical director at MMDG

Also featuring **Claudine** Naganuma (Dance for Parkinson's, California) and Mo Morgan (me! Dance for People with Parkinson's, Edinburgh)\*



**Acknowledgements** - David Leventhal, Olie Westheimer, Maria Portland Kelly, and every person who dances with Parkinson's anywhere in the world

# What is Dance for Parkinson's<sub>©</sub>?

- Dance for Parkinson's, is a dance/movement class devised specifically for people with Parkinson's led by professionally trained dancers that partners, spouses, care-givers and friends can participate in too
- the original monthly class started 12 years ago by DL and John Heginbotham (JH) of the MMDG\* in conjunction with Olie Westheimer, Executive Director of the Brooklyn Parkinson's Group (BPG)



#### WPC 2010 to WPC 2013

- WPC Glasgow 2010, Olie presented a session which included a video of the Edinburgh Dance for Parkinson's group performing at Dancebase during Fringe Festival 2010.
- 5 UK practitioners led 2 sessions of Dance for Parkinson's with 30 people in the small Renewal Room
- UK Network was born.
- over 100 communities now throughout the world USA, Australia, Canada, Germany, Italy, India, Israel and UK, practicing Dance for Parkinson's\*
- numerous training days as a network\*a led to inaugural UK introductory weekend \*b at Roehampton College, London University, June 2013\*c
- over 40 participants attended from UK, Europe and American guests\*d

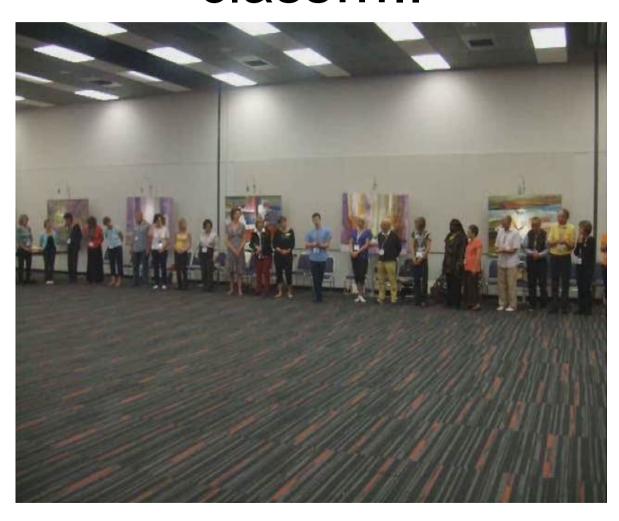


#### **Montreal 2013**

- the overwhelming response from participants in Glasgow resulted in a vastly bigger room being devoted to movement/creative activities in Montreal accommodating lots more people
- Renewal Room activities ranged from yoga, tai chi, clay therapy,
   Pam Quinn's Movement Lab', laughter workshops to singing,
   voice therapy and everything in between!
- ... well over 60 people danced and moved together in the Dance for Parkinson's session....\*



# here we are at the end of class.....



#### Outcome + evidence?!

- Many people were dancing in this way for the first time, others in the session had participated in the very first class in Brooklyn and are still dancing – more of that later.....
- Everyone had an absolute ball enjoying what they could do – all classes focus on this enjoyment of being in the now and enjoying what can be done\*a
- Having managed to persuade a YP UK volunteer to come to the Dance for Parkinson's class\*b. She expressed how she felt she wouldn't be 'good enough' and almost didn't come... She is now set to join up with a current practitioner to co-teach with her!
- She was so inspired and is so inspiring\*c .....



Caught in the act! ....the JOY of

dance!





# Acknowledgements – in no particular order...

Only to say an enormous thank you to the branch for having the courage to back our class. We are the fifth longest running class originating here in the UK and still the only one in Scotland – hopefully this will change within the coming years....

To thank DL for dragging me in to the centre of a very large circle of people at the beginning of the session (to represent the UK) and 'lead' along with Claudia from California and himself.

Olie and Maria and all at Brooklyn Parkinson's Group, Pam Quinn and all other Dance for Parkinson's practitioners and participants at WPC who welcomed me so warmly



#### Other!

More socialising....\*



#### **The Westin Hotel**

Meeting other practitioners!

Independent practitioners in Toronto\*

Research project\*

National Ballet School of Canada, Toronto\*



#### **Poster Tour**

- Several hundred posters on exhibition
- Covered scientific, health, quality of life, education, care delivery, dance (Mo)
- Several stood out, especially educating first line responders
- Startling demonstration given by exhibitor of DB Stimulation on/off effects



# Training Police About Parkinson's Stop and Assist Roger Buxton & Judy Hazlet Parkinson Society Central and Northern Ontario jhazlett@istar.ca

Stop and Assist is a program for police which increases their understanding of Parkinson's disease. To the untrained, people with Parkinson's can appear threatening, require forceful intervention or be in need of emergency medical services; however, this is seldom the case. Through this presentation, the police become aware of how the disease develops and how to assist.

#### Objectives for People with Parkinson's

To ensure people living with Parkinson's receive proper treatment by police. To encourage people to participate in public with self esteem and confidence. To maintain physical and social access into the everyday world.

#### **Objectives for Police Personnel**

To recognize people with Parkinson s disease. To interpret behaviours correctly and respond appropriately. To ensure the safety of all people.

