

# 5TH FOCUSED WORKSHOP OF THE EUROPEAN COMMITTEE FOR TREATMENT AND RESEARCH IN MULTIPLE SCLEROSIS

9-10 MARCH 2017, ROME, ITALY

#### **DRAFT PROGRAMME OUTLINE**

# Advancing Trial design in Progressive Multiple Sclerosis

(in association with the Progressive MS Alliance)

## **Organising Committee**

Jeremy Chataway, Robert Fox, David Miller, Xavier Montalban, Maria Pia Sormani

## **Background**

In the last 20 years, and particularly the last five, there has been a welcome profusion of disease modifying treatments (DMTs) for relapsing-remitting MS (RRMS) with reductions in relapse rate compared to placebo and active comparators in the range of 30-75%. Crucial to their development was strong trial design at all levels, but particularly at phase 2 and 3.

Unfortunately this progress has not been mirrored in progressive MS where at present there is no licensed medication with an 'anti-progressive/neuroprotective' disease modifying effect: although there is promise developing at phase 2 (eg, simvastatin) and phase 3 (ocrelizumab) levels.

This workshop will examine trial designs in progressive MS with a wide variety of experts from clinical, methodological, outcome and pharmaceutical backgrounds. <u>Modelling and illustration with examples from real and derived data-sets is encouraged.</u> The planned output is a position paper that will set out what is known, what is under current development and areas to be pursued to take the field forward.

#### **Programme outline**

2 day meeting

~50 attendees (32 speakers, ~20 non-speaker participants)

Brief discussion after each talk

Longer roundtable/panel-lead discussions after themed sessions, with facilitators and participation of all workshop attendees that address key themes

#### Major themes:

- Treatment targets and patient selection
- outcome measures
- trial designs
- statistical analysis models

# THURSDAY, 9 MARCH 2017

08.30 - 08.45	Welcome from ECTRIMS  D. Miller (London, UK)
08.45 - 09.45	Session 1: Progressive MS treatment targets and trials to date (talks 15 minutes; discussion 5 minutes) Chairs: T. Derfuss (Basel, CH), W. Carroll (Nedlands, AU)
08.45	Pathogenic mechanisms  H. Lassmann (Vienna, AT)
09.05	Overview of progressive MS trials to date  X. Montalban (Barcelona, ES)
09.25	Do we need anti-inflammatory and neuroprotective strategies together or apart?  B. Cree (San Francisco, US)
09.45 - 10.30	Session 2: The human phenotype and trial entry criteria (talks 15 mins; discussion 5 mins) Chairs: P. Soelberg Sørensen (Copenhagen, DK), J. Chataway (London, UK)
09.45	Heterogeneity of progressive MS and relevance of the new classification for trials  A. Thompson (London, UK)
10.05	Enrichment: lessons from ORATORIO and other trials  J. Wolinsky (Houston, US)
10.30 - 11.00	Coffee break
11.00 - 11.30	Roundtable/Panel discussion 1: Progressive MS treatment targets and patient selection
	Panel members: A. Thompson (London, UK), P. Soelberg-Sorensen (Copenhagen, DK), J. Wolinsky (Houston, US), M. Salvetti (Rome, IT), H. Lassmann (Vienna, AT)
11.30 - 12.50	Session 3: Clinical outcome measures – their performance and positioning in progressive MS trials (talks 15 minutes; discussion 5 minutes) Chairs: M. P. Amato (Florence, IT), T. Coetzee (New York, US)
12.30	Current role of EDSS  L. Kappos (Basel, CH)
12.50	MSFC+ and MSOAC  J. Cohen (Cleveland, US)

13.10	Cognition J. DeLuca (New Orange, US)
13.30	Composite scoring F. Lublin (New York, US)
12.50 - 13.50	Lunch break
13.50 - 14.50	Session 3: Clinical outcome measures – their performance and positioning in progressive MS trials (continued) (talks 15 minutes; discussion 5 minutes) Chairs: M. P. Amato (Florence, IT), T. Coetzee (New York, US)
13.50	6-minute walk & upper limb scores  K. Zackowski (Baltimore, US)
14.30	Patient related outcomes  M.P. Amato (Florence, IT)
14.50 - 15.30	Session 4: Interim (phase 2) efficacy outcome measures focused on neuroprotection - their performance and clinical correlation in progressive MS (talks 15 minutes; discussion 5 minutes) Chairs: D. Miller (London, UK), R. Fox (Cleveland, US)
14.50	Global and regional brain atrophy measures  N. de Stefano (Siena, IT)
15.10	Brain lesions A. Rovira (Barcelona, ES)
15.30 - 16.00	Coffee break
16.00 - 18.00	Session 4: Interim (phase 2) efficacy outcome measures focused on neuroprotection - their performance and clinical correlation in progressive MS (continued) (talks 15 minutes; discussion 5 minutes) Chairs: D. Miller (London, UK), R. Fox (Cleveland, US)
16.00	Advanced cranial MRI (MTR, DTI etc) R. Fox (Cleveland, US)
16.20	Spinal cord MRI O. Ciccarelli (London, US)
16.40	0.07
	OCT P. Calabresi (Baltimore, US)

17.20	CSF and blood neurofilaments  J. Kuhle (Basel, CH)	
17.40	PET B. Stankoff (Paris, FR)	
18.00 - 18.30	Roundtable/Panel discussion 2: Outcome measures  Panel members: M.P. Amato (Florence, IT); chair, D. Miller (London, UK), J.  Cohen (Cleveland, US), P. Calabresi (Baltimore, US),  P. Zaratin (Genoa, IT)	
19.30	Workshop Dinner	
FRIDAY, 11 March 2017		
08.30 - 09.30	Roundtable/Panel discussion 2: Outcome measures (continued)	
09.30 - 10.30	Session 5: Progressive MS trial design and statistical analysis (talks 15 minutes; discussion 5 minutes) Chairs: X. Montalban (Barcelona, ES), M. P. Sormani (Genoa, IT)	
09.30	Validating phase 2 and 3 biomarker outcome measures in progressive MS  M. P. Sormani (Genoa, IT)	
09.50	Optimisation of pivotal phase 3 trial  G. Cutter (Birmingham, US)	
10.10	Measurement of brain atrophy in multicentre, phase 3 trials: are ways better than others?  F. Barkhof (Amsterdam, NL)	
10.30 - 11.00	Coffee break	
11.00 - 12.00	Session 5: Progressive MS trial design and statistical analysis (continued) Chairs: X. Montalban (Barcelona, ES), M. P. Sormani (Genoa, IT)	
11.00	Adaptive trial designs M. Parmar (London, UK)	

Bayesian trial designs

M. Gasparini (Torino, IT)

Lessons from oncology

P. Bruzzi (Genoa, IT)

11.20

11.40

12.00 - 13.00	Roundtable/Panel discussion 3: Progressive MS trial design and analysis Panel members: M.P. Sormani (Genoa, IT); chair, G. Cutter (Birmingham, US), K. Smith (US), M. Parmar (London, UK), F. Barkhof (Amsterdam, NL)
13.0 - 14.00	Lunch break
14.00 - 16.00	Session 6: Progressive MS - macro views (talks 15 minutes; discussion 5 minutes) Chairs: B. Hemmer (Munich, DE), G. Comi (Milan, IT)
14.00	View from the pharmaceutical industry at phase 2/3  P. Chin (San Francisco, US)
14.20	Where are the big datasets and what to do with them?  H. Butzkueven (Melbourne, AU)
15.10	Regulatory experience and considerations  D. Leppert (Basel, CH)
15.30	Lessons from MS-SMART & SPRINT-MS  J. Chataway (London, UK), R. Fox (Cleveland, US)
16.00 - 16.15	Meeting Summary J. Chataway (London, UK)