



15th International RBD Study Group meeting

17 ● 19 March 2022

RAVENNA- ITALY
Biblioteca Classense

Under the auspices of



Associazione Italiana
di Medicina del Sonno



Comune di **Ravenna**



SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale di Bologna

Istituto delle Scienze Neurologiche
Istituto di Ricovero e Cura a Carattere Scientifico



SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale della Romagna



FONDAZIONE FLAMINIA
PER L'UNIVERSITÀ
IN ROMAGNA



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



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MODENA E REGGIO EMILIA



UNIVERSITÀ
di **VERONA**

Dipartimento
di **NEUROSCIENZE,
BIOMEDICINA E MOVIMENTO**

COMMITTEE

LOCAL ORGANIZERS

Chair - **Giuseppe Plazzi**, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Modena and Reggio Emilia

Co-Chair - **Elena Antelmi**, University of Verona

Luigi Ferini-Strambi, Salute e Vita University, Milan

Raffaele Ferri, Oasi Research Institute - IRCCS, Troina (EN)

Monica Puligheddu, University of Cagliari

Fabio Pizza, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Bologna

Francesca Ingravallo, University of Bologna

Raffale Lodi, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Bologna

Rocco Liguori, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Bologna

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Treasurer elect **Dario Arnaldi**, University of Genoa, Italy

PROGRAM



WEDNESDAY, 16 MARCH 2022

14:00 PRIVATE SHUTTLE BUS FROM ROME TO RAVENNA (for participants who confirmed the service). PICK UP: NUVOLO CONFERENCE CENTER (Viale Asia 44 – Rome)

20:15 WELCOME DINNER, RESERVED TO DELEGATES (NOT TRAINEES)
Location: NH Hotel _ Piazza Mameli 1 – Ravenna Italy

THURSDAY, 17 MARCH 2022

09:00 WELCOME AND INTRO TO MEETING

Ron Postuma (Canada)

Giuseppe Plazzi (Italy)

Raffaele Lodi (Italy)

09:15 NEUROIMAGING

Moderator: **Raffaele Ferri** (Italy)

09:15 RECENTLY PUBLISHED LITERATURE

Michele Hu (MRI) (UK) and **Dario Arnaldi** (PET and SPECT) (Italy)

09:45 DATA BLITZ

Marta Bianciardi (USA): Brainstem structural connectivity changes in in-vivo isolated REM sleep behaviour disorder by 7 Tesla MRI

Shady Rahayel (Canada): Brain atrophy in iRBD is shaped by gene expression and structural connectivity

Beatrice Orso (Italy): Identification and validation of a brain glucose conversion pattern in iRBD

Stanislav Marecek (Czech Republic): Comparison of DAT-SPECT analysis using BASGAN software and individual MRI-guided approach in correlation with motor markers in iRBD

Shady Rahayel (Canada): Brain-clinical perfusion patterns predicting conversion phenotypes in iRBD

Zsóka Varga (Czech Republic): Voxel-based analysis of substantia nigra magnetic susceptibility in iRBD and Parkinson's disease

10:45 BREAK

11:00 DISCUSSION - COMMON PROJECTS IMAGING #1

Moderators: **Michele Hu** (UK) and **Dario Arnaldi** (Italy)

MRI project

DAT-SPECT project

FDG-PET project

11:45 WORKING GROUPS MEETING #1 – COMBINED IN ALL CASES NEUROPHYSIOLOGY, IMAGING

12:30 LUNCH

13:15 SESSION

Moderator: **Fabio Pizza** (Italy)

13:15 REM SLEEP ATONIA AND NARCOLEPSY – **Elena Antelmi** (Italy)

13:30 DATA BLITZ:

Jung, Young-Ji (South Korea): Clinical significance of OSA in RBD

Eemil Partinen (Finland): RBD and COVID-19

13:50 NEUROPHYSIOLOGY / PSG

Moderator: **Alex Iranzo** (Spain)

13:50 RECENTLY PUBLISHED LITERATURE

Poul Jørgen Jennum (Denmark)

14:20 DATA BLITZ

Matteo Cesari (Austria): New automatic approaches to RWA quantification

Emmanuel During (USA): Automated diagnosis of isolated REM sleep behavior disorder (iRBD) during single night in-lab video-polysomnography (PSG) using computer vision

Pavla Peřinová (Czech Republic): RWA in iRBD, PD and control subjects

Emmanuel During (USA): Ambulatory detection of isolated RBD using nocturnal wrist actigraphy and a machine learning method

Andreas Brink – Kjaer (Denmark): End-to-end Deep Learning of Polysomnograms for Classification of REM Sleep Behavior Disorder

15:10 BREAK

15:25 EPIDEMIOLOGY OF RBD

Moderator: **Marco Zucconi** (Italy)

15:25 RECENTLY PUBLISHED LITERATURE

Michele Terzaghi (Italy)

15:55 DATA BLITZ

Calogero E. Cicero (Italy): A population-based assessment of the prevalence of isolated RBD in Southern Italy (Catania, Sicily)

Carolyn Schafer (Switzerland): REM Sleep Behavior Disorder in the Bernese Sleep Database - from a Retrospective to a Prospective Study

William Yao (Canada): Prevalence and Clinical Determinants of Trauma-associated Sleep Disorder among Canadian Population: a Nation-wide Study in the CLSA

16:25 BASIC SCIENCE

Moderator: **Alessandro Silvani** (Italy)

16:25 RECENTLY PUBLISHED LITERATURE

Pierre Luppi (France)

17:10 - 19:10 WORKING GROUPS MEETING #2. – EPIDEMIOLOGY

20:00 DINNER AT THE TYPICAL RESTAURANT CA' DE VÈN

FRIDAY 18 MARCH 2022

09:00 GENETICS OF RBD

Moderator: **Karel Sonka** (Czech Republic)

09:00 RECENTLY PUBLISHED LITERATURE

Ziv Gan-Or (Canada)

09:30 DATA BLITZ

Yuri Soser (Canada): Genetic of RBD

Emma Somerville (Canada): Genetic of RBD

Emmanuel Mignot (USA): HLA and tau in PD and AD, an opportunity for RBD?

10:00 WORKING GROUPS MEETING #3 – GENETICS

10:30 BREAK

10:45 BIOMARKERS

Moderator: **Elena Antelmi** (Italy)

10:45 RECENTLY PUBLISHED LITERATURE

Wolfgang Oertel (Germany)

11:15 DATA BLITZ

Mariana Fernandes (Italy): CSF biomarkers in isolated REM sleep behavior disorder

Vincenzo Donadio (Italy): Parkin p-alpha-syn RT-QuiC in skin and CSF

Dario Arnaldi (Italy): HDEEG functional connectivity measures of neurodegeneration in iRBD

Carmen Calvello (Italy): Neurophysiological responses of the brainstem in patients with isolated REM sleep behavior disorder

Jan Rusz (Czech Republic): Linguistic Biomarkers in Isolated Rapid Eye Movement Sleep Behavior Disorder

12:05 WORKING GROUPS MEETING #4 - BIOMARKERS

13:35 LUNCH

14:00 CLINICAL

Moderator: **Isabelle Arnulf** (France)

14:00 RECENTLY PUBLISHED LITERATURE

Ambra Stefani (Austria)

14:30 DATA BLITZ

Isabelle Arnulf (France): RBD: a window onto emotions processing during REM sleep

Maria Carolina Vacca (Italy): Does MCI matter in the diagnostic work-up of patients with isolated REM sleep behavior disorder?

Ambra Stefani (Austria): Low specificity of screening questionnaires for REM sleep behavior disorder

Cristina Garcia Campos (UK): The OPDC smartphone test for PD and RBD motor symptom

15:10 WORKING GROUPS MEETING #4 – CLINICAL

16:00 ASSEMBLY OF MEMBERS

Trainee networking event – during business meeting

16:55 - 17:55 COMMON PROJECTS #2 – CLINICAL/TRIALS

Moderator: **Giuseppe Plazzi** (Italy), **Aleks Videnovic** (USA), **Francesca Ingravallo** (Italy)

- Sample size study
- RBD severity scale
- Ethics discussion
- Disclosure and other issues
- Incorporating patient communities (patient advocacy groups) – separate session, or with disclosure, depending upon time)

20:30 CONCERT IN AUDITORIUM SAN ROMUALDO

by **Luigi Cherubini Youth Orchestra**

Giovanni Sollima conductor and cello solo

Gaetano Ciandelli Concert for cello arranged by G. Sollima

Giovanni Sollima Fecit Neap 17

Franz Joseph Haydn Concert n. 2 for cello and orchestra in D major Hob.VIIb:2

21:30 COCKTAIL DINNER AT THE CIRCOLO DEI FORESTIERI

09:00 TREATMENT AND TRIALS

Moderator: **Luigi Ferini Strambi** (Italy)

09:00 RECENTLY PUBLISHED LITERATURE

Aleks Videnovic (USA)

09:30 DATA BLITZ

Emmanuel During (USA): Results of a RCT evaluating the efficacy of sodium oxybate in treatment-resistant RBD

Jiří Nepožitek (Czech Republic): Relation between the severity of iRBD behavioral manifestations and the development of the synucleinopathy

Monica Puligheddu (Italy): The “FarPresto study”: Preliminary results from the Italian dataset of iRBD

Yo-El Ju (USA): Updates from the NAPS consortium

10:10 COMMON PROJECTS #3

Moderators: **Wolfgang Oertel** (Germany), **Monica Puligheddu** (Italy), **Elena Antelmi** (Italy)

- Registry discussion (Italy)
- Combining grants/cohorts (NAPS, European, Italian, etc). – organization
- Discussion of best overlapping biomarkers / clinical markers (common to various projects)

10:50 BREAK

11:10 WORKING GROUP FINAL MEETING

(Treatment and Trials, plus open session combined, along with updates from networking events, etc.)

12:20 GENERAL DISCUSSION

(future directions of web site, future directions of RBD, next meeting, etc) - Ron Postuma and Aleks Videnovic

13:00 END OF MEETING & LIGHT LUNCH

14:00 PRIVATE SHUTTLE BUS FROM RAVENNA TO BOLOGNA
(for participants who confirmed the service).

A special thank to:



ORGANIZING SECRETARIAT



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Viale Aldini 222/4 – 40137 Bologna – Italy
Tel. + 39 051 6564300 – congressi@avenuedia.eu – www.avenuedia.eu