

WORLD CONGRESS ON OSTEOPOROSIS,  
OSTEOARTHRITIS AND MUSCULOSKELETAL DISEASES

WCO  
IOF-ESCEO

2019 PARIS

April 4-7, 2019  
Palais des Congrès  
[www.WCO-IOF-ESCEO.org](http://www.WCO-IOF-ESCEO.org)



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Congress Programme

#OsteoCongress

WORLD'S LEADING CLINICAL CONFERENCE ON BONE, JOINT AND MUSCLE HEALTH

## CONGRESS INFORMATION

### Event

**April 4-7, 2019**

WORLD CONGRESS ON OSTEOPOROSIS,  
OSTEOARTHRITIS AND MUSCULOSKELETAL DISEASES  
The world's leading clinical conference on  
bone, joint and muscle health

### Venue

**Palais des Congrès de Paris**  
Place de la Porte Maillot, 2  
75017 Paris, France

### Organizer

**Sinklar Conference Management**

Pietersbergweg, 283  
1105 BM Amsterdam, The Netherlands  
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### Secretariat

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### Congress Website

[www.wco-iof-esceo.org](http://www.wco-iof-esceo.org)

## ABSTRACTS

### Submission Period for Abstracts

October 1, 2018 to January 15, 2019

### Notification to the contributors

February 1, 2019

## ACCREDITATIONS

### European

The WCO-IOF-ESCEO 2019 Paris Congress has been granted 20 European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

### American

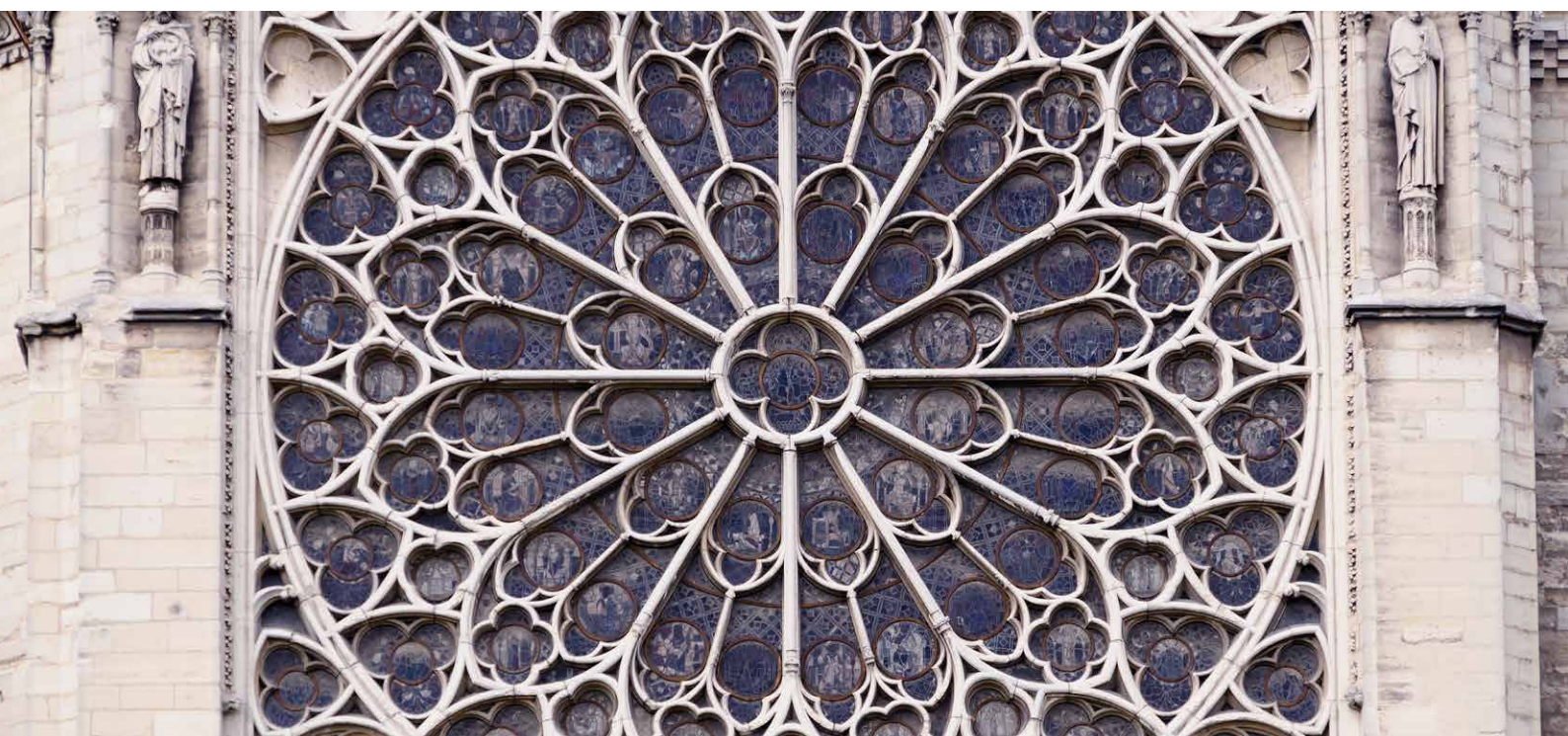
In Progress

### Belgian

In Progress

### Italian

In Progress



## REGISTRATION

|                                                                         | Early Registration<br>< Dec. 4, 2018 | Pre-registration<br>< Dec. 5, 2018 -<br>Mar. 4, 2019 > | From Mar. 5, 2019<br>and On Site |
|-------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|----------------------------------|
| Regular Registration                                                    | 795 €                                | 895 €                                                  | 995 €                            |
| IOF Committee of corporate advisors (CCA)                               | 795 €                                | 895 €                                                  | 995 €                            |
| ESCEO Scientific Advisor Board (SAB)<br>- No abstract submitted         | 650 €                                | 750 €                                                  | 995 €                            |
| IOF Committee of Scientific Advisors (CSA)<br>- No abstract submitted   | 650 €                                | 750 €                                                  | 995 €                            |
| Student <sup>1</sup>                                                    | 250 €                                | 270 €                                                  | 300 €                            |
| CNS Free Registration                                                   | Free                                 | Free                                                   | Free                             |
| Press Representation <sup>2</sup>                                       | Free                                 | Free                                                   | Free                             |
| IOF Committee of Scientific Advisors (CSA)<br>- With abstract submitted | Free                                 | Free                                                   | Free                             |
| ESCEO Scientific Advisor Board (SAB)<br>- With abstract submitted       | Free                                 | Free                                                   | Free                             |
| One-day Registration<br>(Thursday, Friday, Saturday, Sunday)            | 1.000 €                              | 1.000 €                                                | 1.000 €                          |

Notification of cancellation and refund requests must be submitted in writing by e-mail to  
[registration-wco-iof-esceo@pacificworld.com](mailto:registration-wco-iof-esceo@pacificworld.com)

Before September 30, 2018: 50% reimbursement

No refunds will be given for cancellations/modifications received after September 30, 2018

<sup>1</sup> A certification and signature from either a mentor/supervisor verifying training/degree status or from an employer verifying paramedical/non-doctoral status must be sent to Pacific World via e-mail.

<sup>2</sup> A copy of your Press card must be sent to Pacific World via e-mail. All registration fees include Tax for all categories (20% VAT)

## SCIENTIFIC INFORMATION

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ESCEO President

**John A. KANIS**  
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## THURSDAY APRIL 4

14.30

### Actualités et controverses sur l'arthrose et l'ostéoporose

*Symposium conjointement organisé par la Société Française de Rhumatologie (SFR), le Groupe de Recherche et d'Informations sur les Ostéoporoses (GRIO), l'International Osteoporosis Foundation (IOF) et l'European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO).*

Chairpersons: Leith Zakraoui, Bernard Cortet, Thierry Thomas

- ▶ 14h30 : *Produits laitiers fermentés et santé osseuse* Emmanuel Biver
- ▶ 14h55 : *L'arthrose, une histoire d'alimentation ?* Jérémie Sellam
- ▶ 15h20 : *L'arthrose, une maladie inflammatoire ?* Florent Eymard
- ▶ 15h45 : *Vitamine D, arthrose et ostéoporose* Etienne Cavalier
- ▶ 16h10 : *L'arthrose rachidienne existe-t-elle ?* François Rannou
- ▶ 16h35 : *La place de la vertébroplastie, les données sont-elles solides ?* Bernard Cortet
- ▶ 17h00 : *Conclusion* Thierry Thomas

Symposium organisé en langue française.

17.15

### WCO-IOF-ESCEO - OPENING CEREMONY

Chairpersons: John A. Kanis, Jean-Yves Reginster

17.15

### Best clinical papers published in 2018

René Rizzoli

18.00

### Beyond nutrients: health effects of the dairy matrix

Arne Astrup

18.30

### 2018 update of the European guidelines for the diagnosis and management of osteoporosis (ESCEO-IOF)

René Rizzoli

19.00

### Plenary Lecture: Disease in Art Painting

Davide Lazzeri

19.30

### Opening of the meeting

Cyrus Cooper (IOF President, ESCEO Vice-President)

19.40

### Presentation of the 2019 ESCEO Medal of Excellence

19.45

### Presentation of the ESCEO-IOF Herbert Fleisch Medal

19.50

### Presentation of the IOF Medal of Achievement

19.55

### Presentation of the IOF Olof Johnell Science Award

20.00

### INDUSTRY-SPONSORED WELCOME COCKTAIL

## FRIDAY APRIL 5

08.00

### SPONSORED BREAKFAST SYMPOSIUM

08.00

### INDUSTRY BREAKFAST SYMPOSIUM

08.00

#### SYMPOSIA

08.00

**Patients' preferences for anti-osteoarthritis treatment: A cross-European Discrete Choice Experiment: outcomes of an experts consensus meeting organized under the auspices of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO).**

Chairpersons: Mickaël Hiligsmann, Elaine M. Dennison

- 08:00: *Welcome and introduction* Mickaël Hiligsmann
- 08:05: *Identification prioritization of important attributes of OA treatment* Elaine M. Dennison
- 08:20: *Results from the cross-European discrete choice experiment* Mickaël Hiligsmann
- 08:35: *Discussion* Elaine M. Dennison
- 08:55: *Conclusion* Mickaël Hiligsmann

08.00

**Osteosarcopenic obesity: enough evidence for a distinct entity: outcomes of an ESCEO experts consensus meeting organized under the auspices of the World Health Organization Collaborating Center for Public Health Aspects of Musculoskeletal Health and Ageing**

Chairpersons: Islene Araujo de Carvalho, Roger Fielding

- 08:00: *Introduction* Stefania Maggi
- 08:05: *Osteosarcopenic obesity: Facts and evidence supporting a distinct entity* Jürgen Bauer
- 08:20: *Osteosarcopenic obesity: Lack of evidence supporting a distinct entity* Alfonso Cruz Jentoft
- 08:35: *Discussion* Jürgen Bauer
- 08:55: *Conclusion* Roger Fielding

Panel: Islene Araujo de Carvalho, Jürgen Bauer, Olivier Bruyère, Roland D. Chapurlat, Cyrus Cooper, Alfonso Cruz Jentoft, Elaine M. Dennison, Roger Fielding, John A. Kanis, Jean-Marc Kaufman, Francesco Landi, Andrea Laslop, Médéa Locquet, Stefania Maggi, Eugene McCloskey, Simone Perna, Jean-Yves Reginster, René Rizzoli, Yves Rolland, Pawel Szulc, Mila Vlaskovska

08.00

### NON-SPONSORED SYMPOSIA

08.00

#### Real World Evidence in Metabolic Bone Disease

Chairperson: Daniel Prieto-Alhambra

- *Real world data for assessing the use, risks, and benefits of anti-osteoporosis therapies in actual practice conditions* Daniel Prieto-Alhambra
- *Routinely collected data for the study of the epidemiology of fractures, and for characterising imminent fracture risk* Bo Abrahamsen
- *Health economics using real world data: an introduction* Rafael Pinedo-Villanueva
- *Real world data for the study of orthopaedics and hip fracture care* Alma Pedersen

08.00

#### What's new in tendinopathies?

Chairpersons: Jean-François Kaux, Olivier Bruyère

- *Introduction* Olivier Bruyère
- *Tendon physiopathology and imagery... What's new ?* Stijn Bogaerts
- *Rehabilitation: eccentric or not eccentric? Which physiotherapy?* Jean-Louis Croisier
- *Which efficacy for the new treatments ?* Jean-François Kaux

08.00

#### Emerging Biomarkers in Vitamin D Metabolism

Chairperson: Nasser Al-Daghri

- *Biomarker Discovery* Nasser Al-Daghri
- *Vitamin D Biomarker Discovery* Majed Alokail
- *Validation* Yousef Al-Saleh

08.00

#### Sarcopenia in older people: actual perspectives

Chairpersons: Stefania Maggi, René Rizzoli

- *The radiological evaluation of muscle mass in older people* Giuseppe Guglielmi
- *Physical performance in older people: actual evidence* Olivier Bruyère
- *The diagnosis of sarcopenia in older people: between research and clinical practice* Nicola Veronese

## FRIDAY APRIL 5

08.00

### Female Bone Project: a gynecological approach through routine assistance

Chairperson: Adriana Orcesi Pedro

- *Opening: UNICAMP message for Bone Health*  
Adriana Orcesi Pedro
- *Bone mass and fracture risk during pregnancy and lactation*  
Anna Valéria Gueldini de Moraes, Fernanda Garanhani de Castro Surita
- *Update on management of osteoporosis in young women - special clinical situations* Adriana Orcesi Pedro
- *Evaluation and management of osteopenia and osteoporosis in breast cancer survivors*  
César Cabello, Adriana Orcesi Pedro
- *Question & Answers with audience*

09.00

### SCIENTIFIC SESSION I

Chairpersons: John A. Kanis, Jean-Yves Reginster

09.00

### Plenary Lecture 1

*When and why use a bone forming agent?*

Eugene McCloskey

09.30

### Oral communication selected from abstracts

10.20

### Presentation of the ESCEO-AgNovos Healthcare Young Investigator Awards

10.30

### SCIENTIFIC SESSION II

Chairpersons: René Rizzoli, Cyrus Cooper

10.30

### Plenary Lecture 2

*Bone fragility and its treatment in chronic renal failure*

Peter R. Ebeling

11.00

### Presentation of the IOF President's Award

11.10

### Oral communication selected from abstracts

12.15

### INDUSTRY SATELLITE LUNCH SYMPOSIUM

12.15

### INDUSTRY SATELLITE LUNCH SYMPOSIUM

14.00

### MEET-THE-EXPERT SESSIONS

14.00

### How to assess frailty in daily practice ?

Evelien Gielen

14.00

### Disorders of phosphate homeostasis

Maria Luisa Brandi

14.00

### Pre- and postnatal influences on bone and muscle health in children

Nicholas Harvey

14.00

### Strengths of recommendations for GIOP management

Jonathan Adachi

14.00

### Poster Viewing Session I

14.00

### Oral presentation of selected posters

14.00

### SYMPOSIA

14.00

### Reassessment of the safety of anti-osteoarthritis medications: outcomes of an experts consensus meeting organized under the auspices of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO).

Chairpersons: Olivier Bruyère, Elaine M. Dennison

- 14:00: *Welcome and scope of the problem* Cyrus Cooper
- 14:05: *Methodology of the ESCEO Working Group*  
Cyrus Cooper
- 14:15: *Safety of analgesics, non-steroidal anti-inflammatory drugs and opioids* Nicholas Fuggle
- 14:30: *Safety of SYSADOAs, intraarticular Hyaluronic Acid and intraarticular corticosteroids* Tim McAlindon
- 14:45: *Discussion* Nigel K. Arden
- 14:55: *Wrap-up and conclusions* Nigel K. Arden

## FRIDAY APRIL 5

14.00

**Determinants, consequences and potential solutions to poor adherence to anti-osteoporosis treatment: outcomes of an experts consensus meeting organized under the auspices of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases.**

Chairpersons: Adolfo Diez-Perez, Stefania Maggi

► 14:00: *Welcome and scope of the problem*

Maria Luisa Brandi

► 14:05: *Determinants of non-adherence to anti-osteoporosis medications* Bernard Vrijens

► 14:20: *Recommendations to improve adherence to anti-osteoporosis medications* Mickaël Hilgsmann

► 14:35: *Recommendations for additional research needed to improve adherence to anti-osteoporosis medications* Bo Abrahamsen

► 14:45: *Discussion* (Leader : Sansin Tuzun)

► 15:00: *Closure of the meeting* Adolfo Diez-Perez

15.00

### SCIENTIFIC SESSION III

Chairpersons: Charlotte Beaudart, Bess Dawson-Hughes

15.00

### Plenary Lecture 3

*Early treatment of osteoarthritis*

Nigel K. Arden

15.30

Oral communication selected from abstracts

16.30

### Plenary Lecture 4

*Guidelines for the management of osteoarthritis*

Jean-Yves Reginster

15.00

### COMMITTEE OF NATIONAL SOCIETIES SPECIAL PLENARY SESSION

*Clinical, social, ethical and economic burden of osteoporosis and fragility fractures*

16.35

Presentation of the IOF Committee of National Societies Medal

17.00

### INDUSTRY SATELLITE SYMPOSIUM

17.00

### INDUSTRY SATELLITE SYMPOSIUM

## SATURDAY APRIL 6

08.00

### AVAILABLE INDUSTRY-SPONSORED BREAKFAST SYMPOSIUM

08.00

### SPONSORED BREAKFAST SESSION

08.00

### NON-SPONSORED SYMPOSIA

08.00

#### Vitamin D: as viewed by the laboratory

Chairperson: Etienne Cavalier

- *Vitamin D: Optimal levels* Harjit Pal Bhattoa
- *Vitamin D metabolites: Now and Beyond* Etienne Cavalier

08.00

#### FLS in the UK 2014-2018: implementation, standards, quality improvement and benefits

Chairperson: Kassim Javaid

- *FLS Implementation: An innovative service support model for secondary fracture prevention in the UK* Will Carr
- *Securing funding for service implementation and improvement - demonstrating the benefits and effectiveness of fracture liaison services* Tim Jones
- *Vertebral Fracture Identification – meeting the challenge of FLS standards* Jill Griffin

08.00

#### Non-pharmacological treatment of low back pain

Chairperson: Alexandr Barulin

- *Cognitive-behavioral therapy in the treatment of chronic back pain* Olga Kurushina
- *Biomechanical aspects for understanding of non-specific low-back pain* Alexandr Barulin
- *Kinesiotaping in the correction of myofascial back pain* Bogdan Kalinchenko
- *New approaches to the correction of pain in patients with peripheral paralysis* Olga Agarkova

08.00

#### Learning on Common Diseases by Understanding the Rare Disorders: The Case of Bone Fragility

Chairperson: Maria Luisa Brandi

- *Taxonomy of Metabolic Bone Diseases* Laura Masi
- *FD-MAS Guidelines* Naveen Hamdy
- *Hypophosphatasia in the adults* Christian Roux
- *Phosphate wasting disorders in the adults* Kassim Javaid

08.00

#### Are current treatment recommendations for Osteoarthritis adapted to old/very old patients ?

Chairpersons: Emmanuel Maheu, Odile Levy-Raynaud

- *How to manage NSAID in the Elderly in knee, hip or hand osteoarthritis treatment?* Christian Cadet
- *Are guidelines for the management of osteoarthritis adapted to very old patients: how to manage opioids in the Elderly in knee, hip or hand osteoarthritis?* Agnès Portier
- *Exercise and weight loss in the management of knee/hip OA in very old patients: current data and how to prescribe* Jean-Laurent Le Quintrec
- *Total joint replacement of knee or hip in osteoarthritis management of very old patients, is it possible: current evidence and how to proceed?* Emmanuel Maheu

08.00

### SYMPOSIUM

08.00

#### Recommendations for the conduct of the economic evaluation in osteoporosis: outcomes of an experts consensus meeting organized under the auspices of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) and the International Osteoporosis Foundation (IOF) USA branch

Chairpersons: Stuart Silverman, Mickaël Hiligsmann

- *08:00: Welcome and scope of the problem* Stuart Silverman
- *08:05: Recommendations for the conduct of economic evaluations in osteoporosis: a summary from an ESCEO-IOF USA Working Group* Mickaël Hiligsmann
- *08:25: Challenges, uncertainties and future research agenda for the conduct of economic evaluations in osteoporosis: a summary from an ESCEO-IOF USA Working Group* Stuart Silverman
- *08:40: Discussion* Panel
- *08:55: Conclusion* Mickaël Hiligsmann

Panel: Susan Bukata, Deborah T. Gold, Philippe Halbout, Mickaël Hiligsmann, Famida Jiwa, Mike Lewiecki, Daniel Pinto, Jean-Yves Reginster, Kenneth Saag, Stuart Silverman, Anna N. A. Tosteson

## SATURDAY APRIL 6

08.00

### EUGMS-IOF-ESCEO Symposium

#### SARCOPENIA COMES OF AGE

Chairperson: Stefania Maggi

- *What is new in the definition of sarcopenia?*  
Alfonso Cruz Jentoft
- *Diagnosing sarcopenia in clinical practice* Yves Rolland
- *Diet and exercise to treat sarcopenia* Jürgen Bauer

09.00

### SCIENTIFIC SESSION IV

Chairpersons: Thierry Thomas, Stefania Maggi

09.00

### Plenary Lecture 5

*What spaceflight has taught us regarding bone and muscle*

Laurence Vico

09.30

### Oral communication selected from abstracts

10.20

### Presentation of the ESCEO-IOF Pierre Meunier Young Scientist Award

10.30

### SCIENTIFIC SESSION V

Chairpersons: Bernard Cortet, Elaine M. Dennison

10.30

### Plenary Lecture 6

*Pharmacological agents for the treatment of sarcopenia*

Roger Fielding

11.00

### Oral communication selected from abstracts

12.15

### INDUSTRY SATELLITE LUNCH SYMPOSIUM

12.15

### INDUSTRY SATELLITE LUNCH SYMPOSIUM

14.00

### MEET-THE-EXPERT SESSIONS

14.00

### Local therapies in osteoarthritis management

François Rannou

14.00

### Vitamin D and osteoarthritis

Tim McAlindon

14.00

### Fracture Liaison Services: models and fracture risk reduction

Kassim Javaid

14.00

### Local Bone Treatment in Osteoporosis (supported by an Unrestricted Educational Grant from Agnovos Healthcare)

Andreas Kurth

14.00

### SYMPOSIUM

14.00

### Diabetes and Osteoarthritis: outcomes of an ESCEO experts consensus meeting organized under the auspices of the World Health Organization Collaborating Center for Public Health Aspects of Musculo-skeletal Health and Ageing

Chairpersons: Elaine M. Dennison, Marc Hochberg

- *14:00: Introduction* Roland D. Chapurlat
- *14:05: Impact of diabetes mellitus on osteoarthritis incidence and progression* Nicola Veronese
- *14:20 Management of osteoarthritis in diabetic patients* Daniel Uebelhart
- *14:35 Discussion* André Scheen, Islene Araujo de Carvalho
- *14:55 Conclusion* Elaine M. Dennison

Panel: Jaime Branco, Olivier Bruyère, Roland D. Chapurlat, Cyrus Cooper, Elaine M. Dennison, Gabriel Herrero-Beaumont, Marc Hochberg, Andrea Laslop, Emmanuel Maheu, Jean-Yves Reginster, René Rizzoli, Roland Roth, Lucio C. Rovati, André Scheen, Daniel Uebelhart, Nicola Veronese, Mila Vlaskovska

## SATURDAY APRIL 6

14.00

### Effects of biologics on bone in chronic arthritis

Osvaldo D. Messina

14.00

### Poster Viewing Session II

14.00

### Oral presentation of selected posters

15.00

### SCIENTIFIC SESSION VI

Chairpersons: Radmila Matijevic, Fanny Buckinx

15.00

### Plenary Lecture 7

*Tools for estimating fracture probability*

John A. Kanis

15.30

### Presentation of the IOF Best Committee of National Societies Booth

15.40

### Oral communication selected from abstracts

16.30

### Plenary Lecture 8

*Osteoporosis screening and fracture risk reduction*

Cyrus Cooper

17.00

### AVAILABLE INDUSTRY-SPONSORED SYMPOSIUM

17.00

### AVAILABLE INDUSTRY-SPONSORED SYMPOSIUM

## SUNDAY APRIL 7

08.00

### AVAILABLE INDUSTRY-SPONSORED BREAKFAST SYMPOSIUM

08.00

### NON-SPONSORED SYMPOSIA

08.00

#### Bone structure in chronic arthritides

Chairpersons: Osvaldo D. Messina, Cristiano A. F. Zerbini

- *Biologic agents and bone loss in rheumatoid arthritis* Willem Lems
- *Non invasive measurement of erosive disease with QCT and MRI in rheumatoid arthritis* Jonathan D. Adachi
- *Value and limitations in HRpQCT imaging in chronic arthritides. Current status and future directions* Klaus Engelke

08.00

#### IOF-FFN Joint symposium - Moving from treatment to prevention of new fractures

Chairpersons: Kristina Åkesson, Matt Costa

- *Getting the stars on the map* Thierry Thomas
- *What are the potential uncertainties for trauma surgeons - e.g. fracture healing* Andy Gray
- *The future of surgical fixation in fragile bone* Matt Costa
- *Monitoring patients and tools for getting better* Kassim Javaid
- *Capture the Fracture mentorship programme* Donncha O'Gradaigh

08.00

#### Women's special issues: osteoporosis

Chairperson: Adriana Orcesi Pedro

- *Risk factors for osteoporosis: Frax-based intervention and assessment thresholds in Brazil* Ben-Hur Albergaria
- *Osteoporosis prevention and treatment on special situations during women's reproductive period* Adriana Orcesi Pedro
- *Update on efficacy and safety of post-menopause hormone therapy and fracture prevention* Bruno Muzzi Camargos
- *Question & Answers with audience*

08.00

### SYMPOSIA

08.00

#### New insights in the management of Osteoarthritis: an update of the ESCEO algorithm for the management of the Osteoarthritis

Chairpersons: François Rannou, Cyrus Cooper

- *08:00 Welcome* Cyrus Cooper
- *08:05 The 2014-2016 ESCEO Algorithm for the management of the Osteoarthritis* Olivier Bruyère
- *08:15 New insights in the management of Osteoarthritis* Cyrus Cooper
- *08:30 The updated ESCEO algorithm for the management of knee Osteoarthritis : Assessment of the various treatment modalities by GRADE* Nicola Veronese
- *8:55 Discussion* Roland Roth

08.00

#### Selection of relevant outcomes in sarcopenia: a Discrete Choice Experiment. Outcomes of an ESCEO consensus meeting

Chairpersons: Charlotte Beaudart, Mickaël Hiligsmann

- *08:00: Welcome and introduction* Mickaël Hiligsmann
  - *08:05: Identification and prioritization of important outcomes for patients in sarcopenia* Charlotte Beaudart
  - *08:20: A cross-european discrete choice experiment to assess patients' preferences for sarcopenia outcomes* Mickaël Hiligsmann
  - *08:40: Discussion* Alfonso Cruz Jentoft, Islene Araujo de Carvalho
  - *08:55: Conclusion* Charlotte Beaudart
- Panel: Jürgen Bauer, Charlotte Beaudart, Olivier Bruyère, Cyrus Cooper, Alfonso Cruz Jentoft, Mickaël Hiligsmann, Francesco Landi, Stefania Maggi, Jean-Yves Reginster, René Rizzoli, Yves Rolland

08.00

### ESPRM-IOF-ESCEO Joint Session

08.00

#### WIN - What is new in Physical and Rehabilitation Medicine on Osteoarthritis

Chairpersons: Fitnat Dincer, Michael Quittan

- *W.I.N. - What is new in Hand Osteoarthritis? Update in Physical and Rehabilitation Medicine on Hand Osteoarthritis* Fitnat Dincer
- *W.I.N. - What is new in Knee Osteoarthritis? Update in Physical and Rehabilitation Medicine on Knee Osteoarthritis* Michael Quittan
- *W.I.N. - What is New in Hip Osteoarthritis? Update in Physical and Rehabilitation Medicine on Hip Osteoarthritis* Raquel Valero

## SUNDAY APRIL 7

09.00

### MEET-THE-EXPERT SESSIONS

09.00

#### Obesity, bone and muscle

Roland D. Chapurlat

09.00

#### Androgens: a role in bone and muscle disorders management?

Jean-Marc Kaufman

09.00

#### Atypical femoral fracture: stage in 2019

Emmanuel Biver

09.00

#### Pitfalls in identification of vertebral fracture

Christian Roux

09.00

#### Muscle strength/power assessment and outcomes

Olivier Bruyère, Charlotte Beaudart, Mylène Aubertin-Leheudre

10.00

### SCIENTIFIC SESSION VII

Chairpersons: Şansın Tüzün, Famida Jiwa

10.00

#### Plenary Lecture 9

*Vitamin D: how much is too much?*

Bess Dawson-Hughes

10.40

#### Oral communication selected from abstracts

11.30

#### Plenary Lecture 10

*Dietary protein, dairy and bone: devils or angels?*

René Rizzoli

12.00

### NON-SPONSORED SYMPOSIA

12.00

#### Osteoarthritis and vascular aging

Chairperson: Sekib Sokolovic

- *Introduction* Sekib Sokolovic
- *The impact of osteoarthritis on aging* Şansın Tüzün
- *The crosstalk between vessels, bone and cartilage: does it exist* Marius Miglinas
- *Osteoarthritis and vascular aging* Sekib Sokolovic

12.00

#### Approach to Osteoporotic Hip Fractures

Chairpersons: Berrin Durmaz, Sema Oncel

- *Osteoporotic Hip Fractures: Are we able to prevent?* Yesim Kirazli
- *Pharmacological Treatment after Hip Fractures: When and How?* Ozlem El
- *Adherence to Pharmacological Treatment of Osteoporosis* Yesim Gokce Kutsal
- *Rehabilitation after Hip Fractures* Funda Calis
- *Prevention of Complications Following Hip Fractures* Ozlen Peker

12.00

#### Osteonecrosis of the jaw management in the clinical setting

Chairperson: Bruno Muzzi Camargos

- *Pathophysiology and Risk Factors* Oscar Rosero Olarte
- *Biochemical markers and Imaging use on ONJ* Bruno Muzzi Camargos
- *Osteosteoporosis Therapies and ONJ.* Adriana Medina Orjuella
- *Clinical scenarios #1: Oral invasive procedures pre-op patients* Monique Chalem
- *Clinical scenarios #2: Oral invasive procedures pre-op patients* Ana Karina Sarmiento Lievano

12.00

#### Osteosarcopenia: Elucidating bone, muscle and fat interactions

Chairperson: Gustavo Duque

- *Osteosarcopenia: Where bone, muscle and fat collide* Gustavo Duque
- *Diagnostic approach to osteosarcopenia* Bjoern Buering
- *Osteosarcopenia: Potential Therapeutic Interventions* Liang-Kung Chen

12.00

#### Exercise with or without nutrition as countermeasures of dynapenia in older adults

Chairpersons: Bertrand Fougère, Fanny Buckinx, Mylène Aubertin-Leheudre

- *How to maintain muscle quality :the secret of a successful aging* Bertrand Fougère
- *Exercise to prevent muscle function in dynapenic or non-dynapenic older adults: one fits for all?* Mylène Aubertin-Leheudre
- *Impact of nutrition during exercise intervention on muscle adaptation in older adults* Fanny Buckinx

## SPONSORED SATELLITE SYMPOSIA

### THURSDAY, APRIL 4

20.00 - 21.00

#### INDUSTRY-SPONSORED WELCOME COCKTAIL

### FRIDAY, APRIL 5

08.00 - 09.00

#### ABIOTEN BREAKFAST SYMPOSIUM - VITAMIN D FOR MUSCLE-SKELETAL HEALTH

Chairperson: Maria Luisa Brandi

- ▶ *Vitamin D for Bone Health* René Rizzoli
- ▶ *Vitamin D for Muscle Health* Bess Dawson-Hughes

08.00 - 09.00

#### SPONSORED BREAKFAST SYMPOSIUM

12.15 - 13.45

#### MYLAN SATELLITE LUNCH SYMPOSIUM - CRYSTALLINE GLUCOSAMINE SULFATE: EXPLORING THE EFFICACY FOR POTENTIAL NEW INDICATIONS

Chairpersons: Alberto Migliore, Jean-Yves Reginster

- ▶ *ESCEO recommendations for clinical trials for hand OA* Jean-Yves Reginster
- ▶ *Hand osteoarthritis: specificities and similarities with knee OA - a short overview* Emmanuel Maheu
- ▶ *A new opportunity to treat hand Osteoarthritis: the role of crystalline glucosamine sulfate* Sandro Tenti
- ▶ *The challenge of early symptomatic knee osteoarthritis (ESKOA)* Alberto Migliore
- ▶ *Serum kinetics of cartilage biological markers in response to immobilization and physical exercise, and the potential role of CGS in this context* Anna-Maria Liphardt
- ▶ *Opening of discussion* Jean-Yves Reginster
- ▶ *Conclusion*

12.15 - 13.45

#### UCB SATELLITE LUNCH SYMPOSIUM

17.00 - 18.30

#### IBSA SATELLITE SYMPOSIUM - DIFFERENCES IN THE EFFICACY OF VARIOUS CHONDROITIN SULFATE PREPARATIONS: FACTS OR FANTASY?

Chairperson: Jean-Yves Reginster

- ▶ *Welcome and introduction* Jean-Yves Reginster
- ▶ *Efficacy and tolerance of pharmaceutical-grade Chondroitin Sulfate: What does evidence-based medicine say?* Jean-Yves Reginster
- ▶ *Is there a responder profile to pharmaceutical-grade Chondroitin Sulfate? An analysis of the CONCEPT study* Olivier Bruyère
- ▶ *CS pharmaceutical grade and CS nutraceuticals how far are they?* Chiara Schiraldi
- ▶ *Discussion and conclusion* Jean-Yves Reginster

17.00 - 18.30

#### KYOWA KIRIN SATELLITE SYMPOSIUM - THE MANY FACES OF RARE BONE DISEASE

Chairpersons: Cyrus Cooper, Christian Roux

- ▶ *Welcome and introductions* Cyrus Cooper, Christian Roux
- ▶ *Phosphate wasting disorders in adults: a clinical overview* Maria Luisa Brandi
- ▶ *Unexplained fractures in a previously healthy young adult* Salvatore Minisola
- ▶ *How to find the needle in the haystack?* Lars Rejnmark
- ▶ *A case of mistaken identity: spondyloarthritis or not?* Karine Briot
- ▶ *Q&A* Christian Roux
- ▶ *Summary and close* Cyrus Cooper

## SPONSORED SATELLITE SYMPOSIA

### SATURDAY, APRIL 6

08.00 - 09.00

#### AVAILABLE INDUSTRY-SPONSORED BREAKFAST SYMPOSIUM

08.00 - 09.00

#### SPONSORED BREAKFAST SESSION

12.15 - 13.45

#### ELI LILLY SATELLITE LUNCH SYMPOSIUM - 17 YEARS OF TERIPARATIDE: NEW INSIGHTS IN THE TREATMENT OF SEVERE OSTEOPOROSIS

Chairperson: Thierry Thomas

- *Welcome and Introduction* Thierry Thomas
- *New Insights on the Mechanism of Action of Teriparatide* Erik Fink Eriksen
- *New Results of Teriparatide in the Treatment of Severe Osteoporosis* Adolfo Diez-Perez
- *Question and Answers and Close* All

12.15 - 13.45

#### AMGEN SATELLITE LUNCH SYMPOSIUM - IMPROVING OSTEOPOROSIS CARE - GETTING CLOSER TO THE PATIENT

Chairpersons: Eugene McCloskey, Christian Roux

- *Welcome and introduction* Eugene McCloskey, Christian Roux
- *Estimating the treatment gap in elderly women – a cross-sectional primary care study* Socrates Papapoulos
- *Utility of fracture risk assessment in primary care; identifying the right patient* Eugene McCloskey
- *Managing osteoporosis treatment – challenges and opportunities for primary care physicians* Liesbeth Borgermanns
- *Q&A session and meeting close* Eugene McCloskey, Christian Roux

17.00 - 18.30

#### AVAILABLE INDUSTRY-SPONSORED SYMPOSIUM

17.00 - 18.30

#### AVAILABLE INDUSTRY SATELLITE SYMPOSIUM

### SUNDAY, APRIL 7

08.00 - 09.00

#### AVAILABLE INDUSTRY-SPONSORED BREAKFAST SYMPOSIUM

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