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CKD-MBD
Master Class 2023

FROM THE ORIGIN TO THE **NEXT FUTURE**

by *the SIN Working Group*
on *Mineral Metabolism & Trace Elements*

ROME, 2023
SEP 14/16

Venue: **CASA DELL'AVIATORE**
Viale dell'Università 20





RATIONALE

Chronic Kindey Disease & Mineral Bone Disorders (CKD-MBD) is a relevant complication of chronic kidney disease (CKD), associated with accelerated skeletal and vascular aging, as well as a high risk of all-cause mortality. The consolidated treatment of CKD-MBD is now based on nutritional, dialysis and pharmacological therapy (phosphate binders, calcium mimetics, and vitamin D). Clinical research is shading light on still partially explored issues, such as the direct therapy of vascular calcifications (VC), the pleiotropic effects of calcimimetics, the skeletal and vascular impact of anticoagulants, the measurement of bone turnover, the risk of bone fracture in transplant patients, the use of antiresorptives during CKD, the individualization of nutritional therapy, and the impact of uremic toxins on mineral metabolism. Growing evidence suggests emergent interaction between CKD-MBD and other areas of CKD, including renal aging, tubular-interstitial damage, anemia, left ventricular hypertrophy and kidney stones

The CKD-MBD Masterclass 2023, starting from the pathophysiological bases of mineral metabolism disorders in CKD, aims to describe the complexity of CKD-MBD by addressing the most current issues from a pathogenetic and therapeutic point of view. The course will host eminent speakers, providing plenary and traditional lectures with ample space for discussion. In consideration of the multidisciplinary nature of CKD-MBD, sessions are planned shared with the SIN Project Groups: Nephrolithiasis and Rare Nephrocalcinosis, Physical Exercise in patients with chronic kidney disease and Peritoneal Dialysis. In the spirit of the SIN - Working Group on Mineral Metabolism & Trace Elements, the training of young nephrologists includes the awarding of the 3 best abstracts and practical sessions, to simulate procedures useful to diagnose and treat CKD-MBD (reading of the bone biopsy, measurement of VC, non-invasive measurement of bone mineralization).

Thursday, September 14

14:00-14:30 Registration at desk

14:30-14:45 Welcome

*Mario Cozzolino (Milan), Sandro Mazzaferro (Rome),
Andrea Galassi (Milan), Silverio Rotondi (Rome)*

Practical Course for Nephrology Fellows and Young Nephrologists: 1.0 *Statistical analysis in CKD-MBD*

TEACHING LECTURE

14:45-15:45 Statistical analysis in CKD-MBD

Antonio Bellasi, Giovanni Tripepi

WORKSHOP

15:45-16:45 Statistical analysis in CKD-MBD: from handling
a database to reaching a clinical conclusion

Lorenza Magagnoli

16:45-17:00 *Closing remarks*

Friday September 15

8:30- 9:00 Registration at desk

9:00- 9:15 Welcome

*Mario Cozzolino (Milan), Sandro Mazzaferro (Rome),
Andrea Galassi (Milan), Silverio Rotondi (Rome)*

9:15- 9:45 **PLENARY LECTURE**

Introduction: *Sandro Mazzaferro*

CKD-MBD: lessons from history

Diego Brancaccio

CKD-MBD: Back To Basic

Chairs: *Mario Cozzolino, Silverio Rotondi*

9:45-10:05 Calcium Renal handling: from physiology to CKD
Giuseppe Vezzoli

10:05-10:25 Phosphate Renal handling and FGF23:
from physiology to CKD
Silverio Rotondi

10:25-10:45 What's the role of PTH in the pathogenesis and therapy
of CKD-MBD?
Mario Cozzolino

10:45-11:05 Vitamin D action from physiology to therapy
Sandro Mazzaferro

11:05-11:20 Question & answers

11:20-11:50 *Coffee break*

Bone cells: what do we know?

Chairs: *Sandro Mazzaferro, Andrea Galassi*

- 11:50-12:10** Osteocytes: dead or alive?
Marie-Hélène La-Fage Proust
- 12:10-12:30** Osteoblasts and Osteoclasts in CKD-MBD
Annamaria Teti
- 12:30-12:50** Pharmacological modulation of bone cells activity
Jessica Pepe
- 12:50-13:00** Question & answers
- 13:00-14:00** Lunch
- 14.00-14.30** **PLENARY LECTURE**
Introduction: *Mario Cozzolino*
- Magnesium an unsettled player in CKD-MBD
Marc Vervloet

Into the practice: daily strategies in CKD-MBD

Chairs: *Jordi Bover, Giuseppe Grandaliano*

- 14:30-14:50** Hypophosphatemia diagnosis and therapy
Francesco Emma
- 14:50-15:10** The role of expanded Hemodialysis in CKD-MBD
Andrea Galassi
- 15:10-15:30** CKD-MBD in kidney transplant: the role of Immunosuppressive therapy
Marzia Pasquali

15:30-15:45 Question & answers

15:45-16:15 *Coffee Break*

Bone health nephrolithiasis and osteoporosis

Chairs: *Giovanni Gambaro, Franco Bondatti*

16:15-16:35 Osteoporosis: physiology vs pathology

Salvatore Minisola

16:35-16:50 Calciuria and bone mineral content: what came first?

Pietro Manuel Ferraro

16:50-17:00 Questions & answers

Experimental CKD-MBD

Chairs: *Jordi Bover, Paolo Menè*

17:00-17:20 What is the true clinical role of CPP in CKD?

Andreas Pasch

17:20-17:40 Tubular Klotho signaling update

Carlo Alfieri

17:40-18:00 Questions & answers

Closing remarks

Saturday September 16

8:30- 9:00 Registration at desk

9:00- 9:10 Welcome

*Mario Cozzolino (Milan), Sandro Mazzaferro (Rome),
Andrea Galassi (Milan), Silverio Rotondi (Rome)*

9:10- 9:40 **PLENARY LECTURE**

Introduction: *Mario Cozzolino*

Vascular calcification pathophysiology and clinical update

Markus Ketteler

Vascular damage in CKD-MBD

Chairs: *Massimo Morosetti, Marzia Pasquali*

9:40-10:00 Vascular calcification therapy, is the regression possible?

Lida Tartaglione

10:00-10:20 Diabetes and cardiovascular disease in CKD.

What is the role of the new antidiabetic therapy?

Giuseppe Pugliese

10:20-10:40 HIF and endothelial function, have we got new bone perspectives?

Lucia Del Vecchio

10:40-10:55 Questions & answers

10:55-11:15 *Coffee break*

11:15-11:45 **PLENARY LECTURE**

Introduction: *Sandro Mazzaferro*

News on alkaline phosphatase

Mathias Loberg Haarhaus

GdP SIN

Chairs: *Andrea Galassi, Anna Rachele Rocca*

11:45-12:05 Physical activity in CKD. Does it play a role in vascular and bone health?

Yuri Battaglia

12:05-12:25 CKD-MBD in PD

Valerio Vizzardì

12:25-12:45 Questions & answers

12:45-13:45 *Lunch*

13:45-14:30 *Best abstracts award*

Chairs: *Silverio Rotondi, Andrea Galassi*

Presentation of 3 best abstracts by renal fellows

Practical Course for Nephrology Fellows and Young Nephrologists: 2.0

Bone quality assessment and vascular calcification

14:30-15:00 Interactive clinical cases: Physical Bone Biopsy
and Non-Invasive Bone Evaluation
Chairs: *Andrea Galassi, Lida Tartaglione, Antonio Bellasi,
Silverio Rotondi*

HANDS ON SESSION

15:15-17:30 **Room A**
Bone biopsy: Reading histology
Tutors: *Sandro Mazzaferro*

15:15-15:45 Group 2

15:50-16:20 Group 3

16:25-16:55 Group 1

17:00-17:30 Group 4

15:15-17:30 **Room B**
CKD-MBD: Bed side instrumental diagnosis
Tutors: *Marzia Pasquali*

15:15-15:45 Group 3

15:50-16:20 Group 2

16:25-16:55 Group 4

17:00-17:30 Group 1

SCIENTIFIC INFORMATIONS

CALL FOR ABSTRACT

The Scientific Committee therefore invites the participants to send their works to the e-mail address cpetta@fenicia.events with topic CKD-MBD.

The Abstract may be sent, as an attachment to the e-mail, from May 22th to July 9th

Please indicate general information, institution and contact details of the first author.

Abstracts (in Italian or English) should be prepared as follows:

- use a Word writing program for Windows (Arial font, body 12);
- use the following format: (1) title - bold, (2) authors;
- in bold type (first name + full name), (3) institution and city;
- in italics (without address), (4) text of the abstract;
- structure the abstract in different sections (introduction - material and method - comment results) with any bibliographical notes and not more than one table; not to exceed a total of 3,000 characters;
- separately from the abstract, indicate name and address (email address, postal, fax and telephone) of the author who will present the scientific contribution.

The acceptance of the abstract will be communicated to the author, by e-mail, by July 28th

The abstracts can be posted on 14 September and will remain displayed in the special numbered spaces for the duration of Congress; at the end of the event, if not withdrawn, all the material paper will be trashed.

The best 3 abstracts will be discussed in the Plenary Room on September 16th and the time available will be 5 minutes of exposure and 2 minutes of discussion.

The three best abstracts authors will be awarded with a certificate and accommodation.

GENERAL INFORMATION

Venue

Casa dell'Aviatore – Viale dell'Università 20

Congress Presidents

M. Cozzolino, S. Mazzaferro

Scientific Committee

A. Galassi, S. Rotondi, L. Tartaglione, M. Pasquali

Registration

Participation in the event does not include registration fee. It's still necessary to register on the site www.fenicia-events.eu in the section "MEDICAL/RESIDENTIAL CONGRESSES" selecting the event in object.



CME Accreditation

The Event was added by Philoikos Srl – Provider accredited with the accreditation number 5288 – in its training plan 2023 under the National Programme of Continuing Medical Education. The Event has been accredited for the following categories: cardiology, endocrinology, internal medicine, nephrology and obtained **10 credits**.

Certification with ECM credits will be issued by e-mail and will be subject to:

- registration on the Congress website
- passing the online learning questionnaire.

The online compilation of the satisfaction and learning questionnaires will be possible from 16 to 19 September 2023.

The ECM certificate will be sent at the end of the completion of the questionnaires to all those who have participated in the 90% of the works to the e-mail address indicated.

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