Joint Meeting of the

Hellenic Society for the Study of Bone Metabolism

Dutch Society for Calcium & Bone Metabolism

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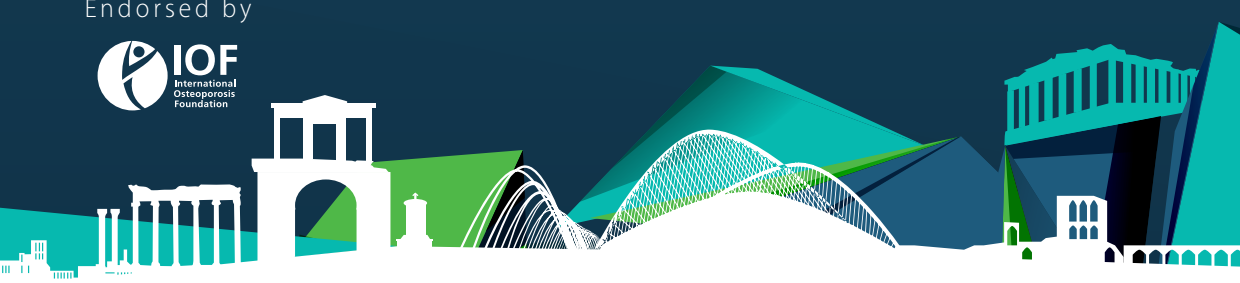

10-12
October 2019

MAICC
Megaron Athens International Conference Center

Athens
Greece

Final Program

Welcome Address

Dear Colleagues,

We are pleased to welcome you at the annual 2019 meeting of the **Hellenic Society for the Study of Bone Metabolism (HSSBM)** and the **Dutch Society for Calcium and Bone Metabolism (NVCB)** which is held in **Athens**, **Greece** on **October 10th-12th, 2019**.

This would be a joint meeting of these two European societies aiming to improve the knowledge of participants regarding osteoporosis and other metabolic bone diseases. In specific, participants will receive important information for the recent advances in clinical and basic research as well as their interrelationship. By the end of the meeting clinicians will improve their ability to assess difficult tasks in the diagnosis and treatment of metabolic bone diseases while basic scientists will identify useful links between laboratory and clinical research. Finally, the implementation of current data and guidelines in the everyday clinical practice of the two countries will be thoroughly discussed during the meeting in order to pinpoint common problems, different strategies and solutions.

The profile of the participants will include endocrinologists, rheumatologists, orthopedic surgeons, general practitioners, rehabilitation practitioners, internal medicine practitioners, pediatricians, nephrologists, researchers, other health and allied health professionals in the field of: molecular biology, musculoskeletal research, genetics, physiology, and pharmacology.

We are pleased to welcome you to Athens.

Kind regards

Polyzois Makras
HSSBM Chair

Natasha Appelman-Dijkstra
NVCB Chair

Committees

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Scientific Program — Thursday, October 10th 2019

15:00	**Registrations**
17:00-18:30	**E-posters Discussion**
18:45-19:00	**Welcome Addresses** **N.M. Appelman-Dijkstra, P. Makras**
19:00-20:30	**SESSION 1** Chairs: **N.M. Appelman-Dijkstra, P. Makras**
19:00-19:45	Osteoporosis: where we have been **G. Lyritis**
19:45-20:30	Osteoporosis: where are we going **S. Ferrari**
20:30-21:00	**SESSION 2** Chairs: **E. Kataxaki, E. Kaskani**
20:30-20:45	Educating physicians for osteoporosis **G. Kapetanos**
20:45-21:00	Educating patients for osteoporosis **A. Kotsopoulou**
21:00-21:15	**Discussion - Closing** **P. Makras**

Scientific Program — Friday, October 11th 2019

09:00-10:30 **SESSION 3**
Chairs: **T.J. de Vries, E. Kassi**

09:00-09:30 Molecular mechanisms of ion transport in metabolic bone diseases
B.C.J. van der Eerden

09:30-10:00 Non coding Rnas and bone metabolism
M. Yavropoulou

10:00-10:30 From mouse models to humans: the RANKL paradigm
E. Douni

10:30-10:45 **Coffee Break**

10:45-12:10 **ORAL PRESENTATIONS**
Chairs: **S. Polyzos, T.J.A.G. Münker**

001 10:45-10:57
THE EFFECT OF DURATION OF VITAMIN D3 APPLICATION ON THE OSTEOGENIC DIFFERENTIATION OF HUMAN ADIPOSE STEM CELLS
Kelder C., Hogervorst J.M.A., Kleverlaan C.J., de Vries T.J., Wismeijer D., Bakker A.D.
Academic Centre for Dentistry Amsterdam (ACTA), University of Amsterdam and Vrije Universiteit Amsterdam, The Netherlands

002 10:57-11:09
hMSC-TERTSCAS9: A VERSATILE TOOL TO STUDY OSTEOBLAST GENE FUNCTION
van de Peppel J.[1], Mies R.[1], Guo Y.[1], van der Eerden B.C.J.[1], Kassem M.[2], van der Oost J.[3], Mathijssen I.M.J.[4], van Leeuwen J.P.T.M.[1]
[1]Erasmus MC, Department of Internal Medicine, Rotterdam, The Netherlands, [2]Odense University Hospital, Department of Endocrinology and Metabolism, Odense, Denmark, [3]Wageningen University, Department of Microbiology, Wageningen, The Netherlands, [4]Erasmus MC, Department of Plastic and Reconstructive Surgery, Rotterdam, The Netherlands

003 11:09-11:21
SURFACE CHARACTERISTICS OF AND CELLULAR RESPONSES TO COATED PERSONALIZED MEDICAL DEVICES
Münker T.J.A.G.[1], van Diemen E.[1], Zandieh Doulabi B.[1], Becking A.G.[2], Kleverlaan C.J.[1]
[1]Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam NL, [2]Amsterdam University Medical Centers (Amsterdam UMC), Amsterdam NL

004 11:21-11:33
HOMEODOMAIN TRANSCRIPTION FACTOR MEIS1 INHIBITS OSTEOGENIC DIFFERENTIATION AND ECM MINERALIZATION IN HMSC-TERTS
Guo Y.[1], Mies R.[1], Kassem M.[2], van Leeuwen H.[1], van de Peppel J.[1]
[1]Erasmus MC, Departments of Internal Medicine, Rotterdam, The Netherlands, [2]Department of Molecular Endocrinology, University of Southern Denmark and Odense University Hospital, Denmark

Scientific Program | Friday, October 11th 2019

005 11:33-11:45

ENDOTHELIAL CELL PHYSIOLOGY IN A MICROFLUIDIC DEVICE AND THEIR RESPONSE TO MESENCHYMAL STROMAL CELLS IN VITRO

Zhang S.[1], Tuk B.[2], van Neck J.W.[2], Koedam M.[1], van Leeuwen J.P.T.M.[1], van Steijn V.[3], van der Eerden B.C.J.[1]

[1]Department of Internal Medicine, Erasmus MC, Rotterdam, The Netherlands, [2]Department of Plastic and Reconstructive Surgery, Erasmus MC, Rotterdam, The Netherlands, [3] Department of Chemical Engineering, TU Delft, The Netherlands

006 11:45-11:57

OCY454 AS A NOVEL OSTEOCYTE MODEL TO STUDY PHOSPHATE HOMEOSTASIS

Ratsma D.M.A.[1], Schreuders-Koedam M.[1], Zillikens M.C.[1], van der Eerden B.C.J.[1]

[1]Erasmus University Medical Center, Rotterdam, The Netherlands

007 11:57-12:10

THE EFFECT OF VITAMIN D ON THE EXTRACELLULAR VESICLE COMMUNICATION IN BONE METASTASIS

Klazen J.A.Z.[1], Robbesom - van den Berge I.J.[1], Hartjes T.A.[1], Van Royen M.E.[1], Libregts S.[2], Van Wijnen A.[3], Zillikens M.C.[1], Van Leeuwen J.P.T.M., Van Driel M.J.J.E.[1]

[1]Erasmus Medical Center, Rotterdam, The Netherlands, [2]Utrecht University, Utrecht, The Netherlands, [3]Mayo Clinic, Rochester, Minnesota, USA

12:10-13:10 **Industry Sponsored Session**

(For the full program please go to page: 18)

13:10-13:40 **Lunch Break**

13:40-14:10 **FLS UPDATE**

Chairs: **E. Panagiotopoulos, C. Kosmidis**

13:40-13:55 Fracture Liaison Services: the Dutch experience
N.M. Appelman-Dijkstra

13:55-14:10 Fracture Liaison Services: the Greek experience
P. Makras

14:10-16:25 **SESSION 4**

Chairs: **M.C. Zillikens, G. Trovas**

14:10-14:40 Discontinuation of osteoporosis treatment
A. Anastasilakis

14:40 -15:10 Hip fractures: the winning patient
Th. Karachalios

15:10-16:25

ORAL PRESENTATIONS

Chairs: **M.C. Zillikens, G. Trovas**

008
15:10-15:22

EFFECT OF CALCIUM AND VITAMIN D SUPPLEMENTATION WITH AND WITHOUT COLLAGEN PEPTIDES ON BONE MINERAL DENSITY AND BONE TURNOVER IN POSTMENOPAUSAL WOMEN WITH OSTEOPENIA - PRELIMINARY RESULTS

Karlafti E.[1], Lampropoulou-Adamidou K.[1], Argyrou Ch.[1], Tournis S.[1], Makris K.[2], Trovas G.[1], Dontas I.[1], Triantafyllopoulos I.K.[1]

[1]Laboratory for Research of the Musculoskeletal System "Th. Garofalidis", Medical School, National and Kapodistrian University of Athens, General Hospital of Athens KAT, Greece, [2]Clinical Biochemistry Department, General Hospital of Athens KAT, Greece

009
15:22-15:34

DIETARY INTAKE OF ADVANCED GLYCATION END PRODUCTS AND BONE MINERAL DENSITY AND PREVALENT FRACTURES: THE ROTTERDAM STUDY

Chen J.[1,2], Waqas K.[1], Trajanoska K.[1,2], Koromani F.[1,2], Uitterlinden A.G.[1,2], Rivadeneira F.[1,2], Zillikens M.C.[1]

[1]Department of Internal Medicine, Erasmus MC University Medical Center, Rotterdam, The Netherlands, [2]Department of Epidemiology, Erasmus MC University Medical Center, Rotterdam, The Netherlands

010
15:34-15:46

BONE MATERIAL STRENGTH INDEX AS MEASURED BY IMPACT MICROINDENTATION IN VIVO IS NORMAL IN SUBJECTS WITH HIGH-ENERGY TRAUMA FRACTURES

Schoeb M., Winter E.M., Malgo F., Papapoulos S.E., Appelman-Dijkstra N.M.

Center for Bone Quality, Leiden University Medical Center, Department of Medicine, Division of Endocrinology, Leiden, The Netherlands

011
15:46-15:58

TERIPARATIDE TREATMENT IN 16 PATIENTS WITH PREGNANCY- AND LACTATION-ASSOCIATED OSTEOPOROSIS

Lampropoulou-Adamidou K.[1], Trovas G.[1], Triantafyllopoulos I.K.[1], Yavropoulou M.P.[2], Anastasilakis A.D.[3], Anagnostis P.[4], Toulis K.A.[3], Makris K.[5], Balanika A.[6], Tournis S.[1]

[1]Laboratory for the Research of Musculoskeletal System "Th. Garofalidis", Medical School, National and Kapodistrian University of Athens, KAT Hospital, Greece, [2]1st Department of Propaedeutic Internal Medicine, National and Kapodistrian University of Athens, School of Medicine, Laikon General Hospital, Athens, Greece, [3]Department of Endocrinology, 424 General Military Hospital, Thessaloniki, Greece, [4]Unit of Reproductive Endocrinology, First Department of Obstetrics and Gynecology, Medical School, Aristotle University of Thessaloniki, Greece, [5]Biochemistry Departement, KAT Hospital, Athens, Greece, [6]Department of Computed Tomography, Asklepeion Voulas Hospital, Athens, Greece

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012 15:58-16:10

CLUSTERING OF HIP FRACTURE PATIENTS BY BONE METABOLISM MEASUREMENTS

Papakitsou E.[1], Giannikou P.[2], Andreopoulos A.[2], Giannakopoulos I.[2], Morakis A.[2], Sarantos K.[2], Sarras E.[2], Skagias K.[2], Tsagari A.[2], Dontas I.[3], Lyritis G.[4]
[1]Laiko General Hospital, Athens, [2]KAT Hospital, Kifissia, [3]Laboratory for the Research of Musculoskeletal System, Kapodistrian University, Kifissia, [4]Hellenic Osteoporosis Foundation, Kifissia

013 16:10-16:25

PREVALENCE OF VERTEBRAL FRACTURES IN OSTEOPOROTIC PATIENTS OF THE GENERAL POPULATION IN GREECE: THE VERTEBRAL INTEGRITY ASSESSMENT (VERTINAS) STUDY

Stathopoulos K.D.[1], **Chronopoulos E.**[1,2], **Kaskani E.**[1], **Drakopoulou T.**[3], **Ibro E.**[3], **Kosmidis C.**[1]
[1]Hellenic Society for the Study of Bone Metabolism, [2]2nd Department of Orthopaedics, National and Kapodistrian University of Athens, School of Medicine, Greece, [3] Butterfly Bone Health Society, Athens, Greece

16:25-16:45 **Coffee Break**

16:45-18:15 **SESSION 5**

Chairs: **W.F. Lems, I. Yovos**

16:45-17:15 Stress and skeletal health
G. Chrousos

17:15-17:45 Osteoporosis and the vasculature
S.E. Papapoulos

17:45-18:15 Extraskeletal effects of bisphosphonates
I. Reid

18:15-18:30 **Break**

18:30-19:00 **Industry Sponsored Session**
(*For the full program please go to page: 18)*

19:00-19:30 **Industry Sponsored Session**
(*For the full program please go to page: 18)*

19:30-20:00 **Industry Sponsored Session**
(*For the full program please go to page: 18)*

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09:00-10:35 **SESSION 6**

Chairs: **B.C.J. van der Eerden, E. Chronopoulos**

09:00- 09:30 Molecular genetic diagnosis in early-onset osteoporosis
E. Tsourdi

09:30-10:00 Early detection, genetic background and management of atypical femoral fractures
M.C. Zillikens

10:00-10:35 **ORAL PRESENTATIONS**

Chairs: **B.C.J. van der Eerden, E. Chronopoulos**

014 10:00-10:10
CIRCADIAN RHYTHM IS ESSENTIAL FOR BONE HEALTH
Schilperoort M.[1], Bravenboer N.[1,2], Kroon J.[1], Lim J.[1], Mletzko K.[3], Busse B.[3], van Ruijven L.[4], Rensen PCN.[1], Kooijman S.[1], Winter EM.[1]
[1]Leiden University Medical Center, Leiden, The Netherlands, [2]Amsterdam University Medical Centers, location VUMC, Amsterdam, The Netherlands, [3]University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [4]Academic Centre for Dentistry Amsterdam, Amsterdam, The Netherlands

015 10:10-10:20
SKIN AUTOFLUORESCENCE, A NONIVASIVE BIOMARKER FOR ADVANCED GLYCATION ENDPRODUCTS, IS ASSOCIATED WITH PREVALENT VERTEBRAL AND MAJOR OSTEOPOROTIC FRACTURES: THE ROTTERDAM STUDY
Waqas K.[1], Chen J.[1,2],Trajanoska K.[1,2], Koromani F.[1,2], Uitterlinden A.G.[1,2], Rivadeneira F.[1,2], Zillikens M.C.[1]
[1]Department of Internal Medicine, Erasmus Medical Center, Rotterdam, The Netherlands, [2]Department of Epidemiology, Erasmus Medical Center, Rotterdam, The Netherlands

016 10:20-10:35
IDENTIFYING CAUSAL GENES FOR FAMILIES WITH HISTORY OF OSTEOPOROSIS AND/OR ATYPICAL FEMUR FRACTURES WITH EFFORT TO BUILD A COMMON WORKFLOW
Zhou W., van de Laarschot D.M., Verkerk J.M.H., Zillikens M.C.
Department of Internal Medicine, Erasmus Medical Center, Rotterdam, The Netherlands

10:35-10:45 **Coffee break**

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10:45-12:45 **SESSION 7**
Chairs: **N. Bravenboer, E. Stathopoulos**

10:45-11:15 Analysis of in-vivo bone structure, adaptation and strength using high resolution peripheral quantitative CT
A. van Rietbergen

11:15-11:45 Radio-labelled analogues in the diagnosis of bone diseases
S. Chatziioannou

11:45-12:15 Bone material properties and fragility fractures
E.P. Paschalis

12:15-12:45 Implementation of microidentation in clinical practice
N.M. Appelman-Dijkstra

12:45- 13:45 **Industry Sponsored Session**
(*For the full program please go to page: 19)*

13:45-14:15 **Lunch Break**

14:15-16:15 **SESSION 8**
Chairs: **N.A.T. Hamdy, A. Mavrogenis**

14:15-14:45 Hematologic malignancies and bone metabolism: the multiple myeloma paradigm
E. Terpos

14:45-15:15 Animal and cell models to study periodontitis, the most common inflammatory bone disease
T.J. de Vries

15:15-16:15 **ORAL PRESENTATIONS**
Chairs: **N.A.T. Hamdy, A. Mavrogenis**

O17
15:15-15:27

IMPACT MICROINDENTATION ASSESSES PERIOSTEAL BONE MATERIAL PROPERTIES IN HUMANS

Rokidi S.[1], Bravenboer N.[2], Gamsjaeger S.[1], Chavassieux P.[3], Klaushofer K.[1], Paschalis E.[1], Papapoulos S.E.[2], Appelman-Dijkstra N.M.[2]
[1]Ludwig Boltzmann Institute of Osteology at Hanusch Hospital, Vienna, Austria
[2]Leiden Center for Bone Quality, Leiden University Medical Center, Leiden, The Netherlands,
[3]INSERM UMR 1033, University of Lyon, Lyon, France

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018 15:27-15:39

BONE MATERIAL STRENGTH INDEX AS MEASURED BY IMPACT MICROINDENTATION IN VIVO IS ALTERED IN PATIENTS WITH PRIMARY HYPERPARATHYROIDISM

Schoeb M.[1], Winter E.M.[1], Schepers A.[2], Snel M.[1], Appelman-Dijkstra N.M.[1]

[1]Center for Bone Quality and Center for Endocrine Tumours, Department of Internal Medicine, Leiden University Medical Center, Leiden, the Netherlands, [2]Center for Bone Quality and Center for Endocrine Tumours, Department of Surgery, Leiden University Medical Center, Leiden, The Netherlands

019 15:39-15:51

MAZABRAUD'S SYNDROME IS OFTEN ASSOCIATED WITH COMPLICATIONS OF FD/MAS; A MULTICENTER INTERNATIONAL COHORT STUDY

Hagelstein-Rotman M.[1,2], **Boyce A.M.**[3], **Dur N.B.J.**[2], **Majoor B.C.J.**[2], **Gensburger D.**[4], **van de Sande M.A.J.**[2], **Dijkstra P.D.S.**[2], **Chapurlat R.**[4], **Appelman-Dijkstra N.M.**[1]

[1]Department of Medicine: Division of Endocrinology, Centre for Bone Quality, Leiden University Medical Center, Leiden, the Netherlands, [2]Department of Orthopaedic Surgery, Centre for Bone Quality, Leiden University Medical Center, Leiden, The Netherlands, [3]Skeletal Disorders and Mineral Homeostasis Section, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, Maryland, [4]INSERM UMR 1033, University of Lyon, Hôpital Edouard Herriot, Lyon, France

020 15:51-16:03

GORHAM STOUT SYNDROME OF THE PARIETAL BONE: A RARE CASE WITH A CHALLENGING TREATMENT APPROACH

De Keyser C.E.[1], **Bos E.M.**[2], **Zillikens M.C.**[1]

[1]Department of Internal Medicine, Erasmus Medical Center, Rotterdam, The Netherlands, [2]Department of Neurosurgery, Erasmus Medical Center, Rotterdam, The Netherlands

021 16:03-16:15

SPECIALIZED SURGICAL TREATMENT OF FIBROUS DYSPLASIA

Meier M., Majoor B., Appelman-Dijkstra N., Van de Sande M.

Leiden University Medical Center, Leiden, The Netherlands

16:15-16:30 **Coffee Break**

16:30-18:05 **SESSION 10**

Chairs: **N. Papaioannou, E.M. Winter**

16:30-17:00 Glucocortocoid induced Osteoporosis
W.F. Lems

17:00 -17:30 Chronic kidney disease mineral and bone disorder
N.A.T. Hamdy

Scientific Program — Saturday, October 12th 2019

17:30-18:05 **ORAL PRESENTATIONS**
Chairs: **N. Papaioannou, E.M. Winter**

022 17:30-17:40
SERUM PHOSPHATE AND BMI IN THE ROTTERDAM STUDY: A BIDIRECTIONAL MENDELIAN RANDOMIZATION ANALYSIS
Bosman A., Campos-Obando N., Ligthart S., Voortman T., Ikram M.A., van der Eerden B.C.J., Uitterlinden A.G., Zillikens M.C.
Erasmus University Medical Center, Rotterdam, NL

023 17:40-17:50
CHARACTERIZATION OF THE PATHOPHYSIOLOCIAL PROCESSES OF OSTEOARTHRITIS USING RNA SEQUENCING DATA OF SUBCHONDRAL BONE
Tuerlings M.[1], Coutinho De Almeida R.[1], Nelissen R.G.H.H.[2], Ramos Y.F.M.[1], Meulenbelt I.[1]
[1]Dept. of Biomedical Data Sciences, section Molecular Epidemiology, LUMC, Leiden NL, [2]Dept. of Orthopaedics, LUMC, Leiden NL

024 17:50-18:05
IS SOLUBLE CTLA-4 RELATED TO THE ONSET OF ACUTE PHASE RESPONSE (APR) IN PATIENTS WITH INFLAMMATORY RHEUMATIC DISEASES (IRD) RECEIVING INTRAVENOUS ZOLEDRONATE (ZOL)?
Giusti A.[1], Camellino D.[1,2], Saverino D.[2], Iervasi E.[2], Girasole G.[1], Bianchi G.[1], Papapoulos S.E.[1,3]
[1]Rheumatology Division, Musculoskeletal System Department, Local Health Trust 3, Genoa, Italy, [2]Autoimmunology Laboratory, Department of Internal Medicine, University of Genoa, Italy, [3]Center for Bone Quality, Leiden University Medical Center, Leiden, The Netherlands

18:05-18:30 **Break**

18:30-19:00 **Industry Sponsored Session**
(For the full program please go to page: 19)

19:00-20:00 **E-posters Discussion**

20:00 **Closing of the meeting**

E-POSTERS

P01 **SICKLE CELL ANAEMIA MAY ADVERSELY AFFECT THE SKELETON, REGARDLESS OF SEVERITY. PRESENTATION OF AN INTERESTING FAMILY**

Doulgeraki A.[1], Drakaki K.[2], Polyzois G.[1], Fragodimitri C.[2]
[1]Department of Bone and Mineral Metabolism, Institute of Child Health, Athens, Greece, [2]Thalassaemia Unit, "Aghia Sophia" Children's Hospital, Athens, Greece

P02 **ONE-YEAR SKELETAL FOLLOW UP OF CHILDREN WITH ACUTE LYMPHOBLASTIC LEUKAEMIA AND OSTEONECROSIS. A CASE SERIES**

Doulgeraki A.[1], Nikita M.[2], Kanaka-Gantenbein C.[3], Servitzoglou M.[2], Karavanaki K.[4], Zambakidis C.[5], Athanasopoulou H.[1], Polyzois G.[1], Tsentidis C.[6], Baka M.[1], Kossiva L.[4]
[1]Department of Bone and Mineral Metabolism, Institute of Child Health, Athens, Greece, [2]Oncology Department, "P. & A. Kyriakou" Children's Hospital, Athens, Greece, [3] Division of Endocrinology, Diabetes and Metabolism, 1st Department of Paediatrics, Medical School, National and Kapodistrian University of Athens, "Aghia Sophia" Children's Hospital, Athens, Greece, [4]2nd Department of Paediatrics, Medical School, National and Kapodistrian University of Athens, "P.&A. Kyriakou" Children's Hospital, Athens, Greece, [5]Department of Orthopaedics, "P. & A. Kyriakou," Children's Hospital, Athens, Greece, [6] Department of Endocrinology, Metabolism and Diabetes Mellitus, Nikaea-Piraeus General Hospital "Agios Panteleimon", Greece

P03 **OVERGROWTH DISORDERS AND SKELETAL HEALTH: PRESENTATION OF A GREEK PAEDIATRIC COHORT WITH SOTOS SYNDROME**

Doulgeraki A.[1], Kapogiannis C.[2], Polyzois G.[1], Papaggelopoulos P.[3], Athanasopoulou H.[1], Frisira E.[4], Savidou O.[3]
[1]Department of Bone and Mineral Metabolism, Institute of Child Health, Athens, Greece, [2]Department of Paediatrics, University Hospital of Heraklion, Crete, Greece, [3]Department of Orthopaedics, Attikon University Hospital, Athens, Greece, [4]Department of Genetics, National and Kapodistrian University of Athens, "Aghia Sophia" Children's Hospital, Athens, Greece

P04 **CLINICAL AND RADIOLOGICAL OUTCOMES OF TERIPARATIDE ADMINISTRATION IN PATIENTS WITH OSTEOPOROTIC SACRAL FRACTURES**

Begkas D., Chatzopoulos S., Lymaxis E., Panagopoulos P., Iliadis I., Papageorgiou A., Pastroudis A.
6th Orthopaedic Department, Asclepieion Voulas General Hospital, Athens, Greece

P05 **EFFECT OF EARLY POSTOPERATIVE ADMINISTRATION OF BISPHOSPHONATES ON HEALING OF OSTEOPOROTIC FRACTURES OF THE DISTAL RADIUS**

Begkas D., Panagopoulos P., Chatzopoulos S., Iliadis I., Lymaxis E., Papageorgiou A., Pastroudis A.
6th Orthopaedic Department, Asclepieion Voulas General Hospital, Athens, Greece

P06 **ZOLEDRONATE FOR THE PREVENTION OF BONE LOSS IN WOMEN DISCONTINUING DENOSUMAB TREATMENT. A PROSPECTIVE 2-YEAR CLINICAL TRIAL**

Anastasilakis, A.D.[1], Papapoulos, S.E.[2], Polyzos, S.A.[3], Appelman-Dijkstra, N.M.[2], Makras, P. [4]
[1]Department of Endocrinology, 424 General Military Hospital, Thessaloniki, Greece; [2]Center for Bone Quality, Department of Internal Medicine, Section Endocrinology, Leiden University Medical Center, Leiden, The Netherlands; [3]First Department of Pharmacology, Faculty of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece; [4]Department of Endocrinology and Diabetes and Department of Medical Research, 251 Hellenic Air Force & VA General Hospital, Athens, Greece

E-POSTERS

P07 **LONG-TERM PERSISTENCE WITH DENOSUMAB IN POSTMENOPAUSAL WOMEN WITH OSTEOPOROSIS: RESULTS FROM A GREEK TERTIARY HOSPITAL**

Mole E.[1], Moschou D.[1], Koutsantoni E.[1], Krikelis M.[1], Zoupidou K.[1], Donta I.[2], Gazi S.[1]
[1]Department of Rheumatology, KAT General Hospital of Attica, Athens, Greece, [2]Researce Center of Myoskeletal System Disorders, Th. Garofalidis, KAT General Hospital of Attica, Athens, Greece

P08 **DETECTING STRUCTURAL CHANGES OF THE BONE TISSUE USING RAMAN SPECTROSOPY**

Gialama L.
Undergraduate student, Department of Physics, National and Kapodistrian University of Athens, Athens, Greece

P09 **INCREASED BONE MARROW ADIPOSITY IN HUMANIZED RANKL TRANSGENIC MOUSE MODELS OF OSTEOPOROSIS**

Rinotas V.[1,2], Kritikos K.[1,2], Nikolaou P.[1,2], Papadopoulos A.[1,2], Kolokotroni A.[1,2], Douni E.[1,2]
[1]Laboratory of Genetics, Department of Biotechnology, Agricultural University of Athens, Athens, Greece, [2]Biomedical Sciences Research Center "Alexander Fleming", Vari, Greece

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424 GMTH General Military Hospital

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Yavropoulou M.P.[1,2], Kolinou A.[3], Tsachouridou O.[4], Skoura L.[3], Chatzidimitriou D.[5], Makras P., Metallidis S.[4]

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Kostoglou-Athanassiou I.[1], Athanassiou L.[2], Manta E.[1], Giannakopoulos A.[1], Pastroudis A.[1], Athanassiou P.[3]

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Zymperdikas V.F.[1,2], Yavropoulou M.P.[3], Kaklamanos E.G.[4], Papadopoulos M.A.[1]

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S. Johnston

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Vitamin D: a real myth in clinical practice
A. Giustina

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The osteoporosis treatment continuum and the position of anabolic therapy
M. Yavropoulou

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OSTEOPOROSIS: A CHRONIC DISEASE REQUIRING CHRONIC TREATMENT

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Dates and Meeting Venue

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Megaron Athens International Conference Center
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Official language

English is the official language of the Meeting and simultaneous translation will not be available.

CME accreditation

The Joint meeting of the Hellenic Society for the Study of Bone Metabolism and the Dutch Society for Calcium and Bone Metabolism has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **17** European CME credits (ECMEC®s).

Certificate of attendance

According to the European Accreditation Council for Continuing Medical Education (EACCME®), each medical specialist should claim only those credits that he/she actually spent in the educational activity.

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Available visual equipment for all presentations will be through power point presentation. For power point use, your presence to the "technical reception desk" is required one hour prior to the time of your presentation in order to check the compatibility of your cd or usb stick and to copy the relevant files. Use of personal computers will not be feasible.

Abstract book

The abstract book will be available electronically at the website www.eemmo.gr and www.cbm2019.com

E-Posters

All E-posters will be presented electronically and no hardcopies will be hanged. The E-posters will be available to delegates throughout the Congress in the exhibition area.

Exhibition

Within the Meeting area there will be an exhibition of medical equipment and pharmaceutical products.

On-site Registration

Participants who wish to register on-site are advised to arrive early. On-site registration will be processed on a first-come, first-served basis. Priority will be given to pre-registered delegates. Depending on the number of onsite registered delegates, availability of congress bags may be limited.

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Delegates are obliged to show their congress badge at the entrance of Congress Hall for their attendance time to be registered.

General Information

Athens Weather

Athens weather in October is with Mediterranean sunshine and temperatures around 18°C means you will enjoy superb conditions as you explore the ancient city.

Currency

Greece's monetary unit is the Euro. No other currency is accepted and it is best to exchange dollars or other currency at a bank. The exchange rates are all the same throughout the country and you exchange money at a bank or official exchange shop where you will get the best running rates. Banks are open from 9:00 am until 2:00 pm.

Insurance

We cannot accept responsibility for any personal loss, accidents or damages to participants and/or accompanying persons. Participants are strongly advised to obtain personal insurance to cover any evenduality that may occur during the Meeting.

Registrations fee

Type	Cost
Specialists	200 €
Residents	Free
Nurses / Undergraduate Students	Free

24% VAT is not included in the above fees

Registration fee for Specialists and Residents includes:
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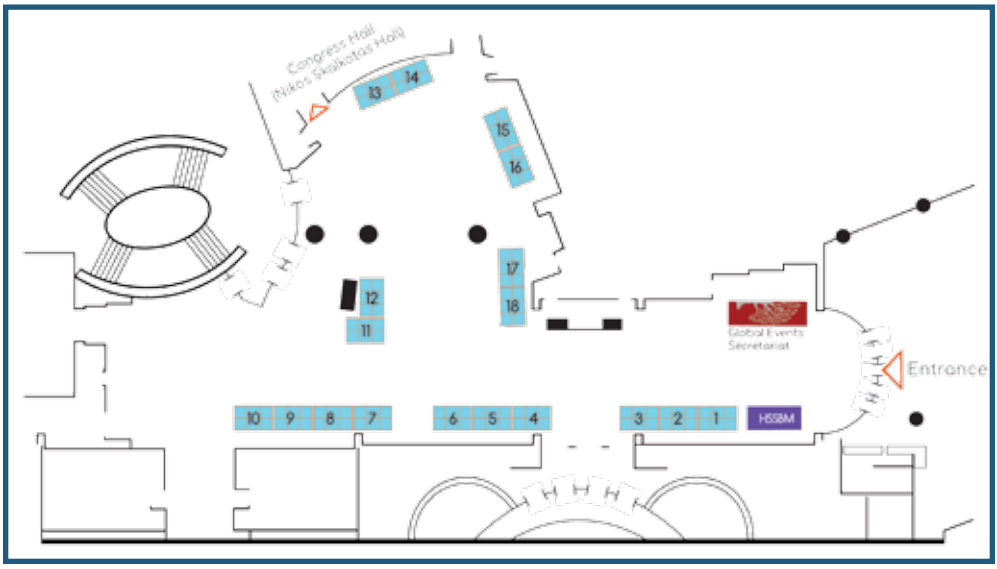

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