ESPN CKD-MBD working group

Spring meeting (virtual) June 9th, 2023

Talk by Guillaume Courbon: new insights in FGF23 physiology



President award 2019 from the American society of bone and mineral research (ASBMR). American heart association (AHA) sponsor grant 2019-2021.

Guillaume spent 6 years in the USA to study the regulations and roles of FGF23 in CKD-MBD patients and animal models. He recently opened his lab in France, where he studies FGF23 at the intersection of iron and phosphate metabolism.

Recent publications
Bone-derived C-terminal FGF23 cleaved peptides increase iron availability in acute inflammation.
Courton G, Thomas JJ, Martinec Calle M, Wang X, Spindler J, Von Drasek J, Hunt-Tobey B, Mehta R, Isakova T, Chang W, Creen
JWM, J P, Martin A, David V. Blood. 2023 Apr 13:blood 2022018475.

Martinez-Calle M, Courbon G, Hunt-Tobey B, Francis C, Spindler JJ, Wang X, Dos Reis LM, Steller Wagner Martins C, Salusky IB, Malluche HH, Nickolas TL, Moyses RM, Martin A, David V. J Clin Invest. 2023 Apr 20:e159928. Lipocalin 2 stimulates bone fibroblast growth factor 23 production in chronic kidney disease.
Courbon G, Francis C, Gerber C, Neuburg S, Wang X, Lynch E, Isakova T, Babit LI, Wolf M, Martin A, David V. Bone Res. 2021 Aug. 23(1):35.

Update guidelines

- Calcium intake from childhood to adulthood in CKD: joined initiative between EUROD and ERN-ERA: R Shroff chair with P Evenepoel + paper submitted in NDT at the end of May 2023
- Cardiovascular guidelines with dialysis and Tx WGs, S Stabouli and R Shroffr, F-2-F organized in Lyon in April 2023, 1st part diagnosis (in process, newt meeting for the people involved on June 21st), next step management
- CKD-MBD management after a failed kidney transplant: pending data

 A Prytula and acidosis

 A Lalyannis and fractures

 Z Arsian and failed Tx

 J Bacchetta and early bone changes (biomarkers / HRpQCT)

 Objective begin a consensus proposal by the end of 2023 / early 2024 even in the absence of the results of all these studies

Update research

- Children with CKD are reported to have bone pain, limb deformities, short stature and a three-fold higher fracture incidence compared to their healthy peers. The cumulative burden of the mineral bone disorder that develops during the pre-transplant period may be further exacerbated after transplantation. Little is known about the prevalence of fractures in European children with CKD.
- On behalf of the ESPN Dialysis working group, we would like to invite you to participate in a survey to determine the prevalence and risk factors for fractures in European children with CKD, on dialysis and with kidney transplants.

- nor tractures in European cinieren with CLU, on dialysis and with knoney transp. Please complete the survey below. You may open the survey in your web browser by clicking the link below: Fractures in European Children with CKD. If the link above does not work, try copying the link below into your web brow.

https://redcap.slms.ucl.ac.uk/surveys/?s=TH7JTM9HFNY7DAYP

- If you do identify children who have suffered a fracture, we will send an additional short datasheet for some anonymised clinical data collection including the diagnosis, bischemical results, dialysis modality, medication and clinical information preceding the fracture. This may help us identify common risk factors that contribute to the disproportionate fracture burden.
- All respondents contributing data will be acknowledged in any presentations and publications.

 Please contact Rukshana Shroff (Rukshana Shroff@goch.nhs.uk) or Alex Lalayiannis (alex.lalayiannis@nhs.net) should you require any further information.
- Presentation at the next CERTAIN meeting, join with ERKNet?

Update ESPN Vilnius 2023: 27-30 September

- · Chair of the scientific comitee = Rukshana Shroff
- · Pre-congress CME course on CKD and dialysis on Sept 27th

 - Trouble-shooting on dialysis
 Dialysis in special situations
 CKD-MBD management
 Workshops: vascular access, CKD-MBD management in real life, nutritional management
 - F2F meeting at the end of the CME day: 1 hour, CKD-MBD and dialysis WGs together
- Session CKD-MBD during the main conference
 - Mini-symposium: bone and rare diseases / obesity pandemic ans CKD
 Guidelines session: nutrition and CKD-MBD

 - Controversies: clinical targets in MBD management : bone versus vessels

Research

• A Prytula: Association between the laboratory CKD-MBD markers and statural growth after kidney transplantation, submitted for the ESPN 2023





