

## Gender differences in renal disease: focus on diabetes and obesity

### CME of the DOKI Project

This CME 2023 of the Doki Project focused in gender differences in renal disease, specifically on diabetes and obesity. The course was held in Garachico, Tenerife, on December 1<sup>st</sup> and 2<sup>nd</sup>. It had 13 speakers professionals in the subject of obesity and diabetes from Spain, Copenhagen, Norway, Italy and Ireland. It also hosted the presentation of 6 posters in the meanwhile of the Coffee breaks. The course was divided in two intensive days:

#### Day 1 – December 1<sup>st</sup>

On the first day of the course the host **Dr. Esteban Porrini** started at 8.30 am with a brief introduction and a welcome to this 2023 CME. Then, the presentation began in the context of “**The normal Kidney**”. The first speaker was **Dr. Ariela Benigni** from Mario Negri Institute who spoke about *Renal endowment in men and women: start from the beginning*. Next was **Dr. Diego Álvarez de la Rosa**, from University of La Laguna, who spoke on the topic of *Renal physiology in men and women: common facts and differences*; which was followed by **Dr. Ana González Rinne** from the Canary Island University Hospital with the presentation about *Metabolic demand, renal mass and GFR change in healthy men and women: lessons from living kidney donors and recipient*. Around 10.45 am started the first Coffee break of the day until around 11.45 am. In this time the attendants had the opportunity to had a small breakfast and visualize the **6 presented posters titled:**

- Characterizing mitochondrial bioenergetics in a mouse model of chronic kidney disease (CKD): a new methodological approach.
- Fatty liver & fatty kidney: lipidomic analysis and gender differences

- *In-vitro* cell model of proximal tubular epithelial cells – method of isolation and characterization
- Prevalence of unrecognized chronic kidney disease in The Lolland-Falster Health Study: a population-based study set in a rural-provincial area of Denmark
- Impaired adiponectin pathway in obesity-induced CKD focus on gender differences
- Organokine impact in obesity induced chronic kidney disease

The second part of the day was focused in “**Renal disease in obesity and diabetes, an overview**”; starting with **Dr. Mads Hornum** from Righospitalet and his presentation about *Diabetes Kidney Disease: old and new aspects*. It was followed by **Dr. Enrique Morales** from 12 de Octubre Hospital who spoke about *Obesity related renal disease*. At the end of these two presentations, around 13.30 pm, it was time to perform another stop to perform a brief lunch.

The third part of this CME course was focused on “**Menopause and renal disease**” and started around 15.30 pm. In this subject, the first speaker was **Dr. Anette Tonnes Pedersen** from Righospitalet speaking about *Menopause: and overview*. This presentation was followed by the host, **Dr. Esteban Porrini** from the University of La Laguna, who gave the audience some information about *Menopause, obesity and renal disease*. Around 17.00 pm started the second Coffee break of the day until around 17.45 pm. In this time the attendants had the opportunity to had a small lunch and visualize again the 6 presented posters. Once the Coffee break was finished, the attendants participated on the third presentation of the afternoon given by **Dr. Toralf Melsom** from Tromsø – Norway, who spoke about *Gender differences in GFR decline: the view of epidemiological studies*. Finally, the last presentation of the day was in charge of the **Dr. Brian J. Harvey** from Beaumont Hospital, who instruct the audience with

his knowledge in *Sexual dimorphism and estrogen in renal salt and water homeostasis*. Thus, the first part of the CME course was finished around 19.15 pm.

## Day 2 – December 2<sup>nd</sup>

On the second day the course started at 9.00 am and the presentation began in the context of **“Pathogenesis of renal disease in menopause”**. In this subject, the first speaker was **Dr. Ana Rodríguez** from Canary Island University Hospital with the presentation about *Lessons from animal model of renal disease*. Following her was the time of the speaker **Dr. Covadonga Rodríguez**, from the University of La Laguna, who spoke about *Renal lipotoxicity and inflammation: main players or bystanders?* Around 10.00 am started the first Coffee break of the day until around 11.00 am. In this time the attendants had the opportunity to had a small breakfast and visualize again the 6 presented posters.

One the Coffee break was finished, it was started second part of the day which was focused on **“Gender differences in renal outcomes”**. In this subject, the next speaker was **Dr. Sergio Luis Lima** from Canary Island University Hospital, who gave the audience a presentation about *Men, women and the evaluation of GFR*. Finally, the last speaker of this CME course was **Raúl Morales Febles** from University of La Laguna, who spoke about *Gender differences in response to exercise: impact on renal outcomes*. At the end, around 13.00 pm, the host Dr. Esteban Porrini closed the CME course by giving some conclusions, remarks and explaining some future activities of the research group.