

# Progress Report of the activities of the Working Group « Hypertension and the Kidney » 2018-2019

## Contents

|  |   |
|--|---|
| Members .....  | 2 |
| New election of the board of the Working Group ..... | 2 |
| ESH 30 years .....                                   | 3 |
| WG meetings and proceedings.....                     | 3 |
| Fibromuscular Dysplasia (FMD) .....                  | 4 |
| Hypertension in dialysis .....                       | 5 |
| Hypertension in renal transplantation.....           | 5 |
| Publications on behalf of the WG .....               | 6 |

## Members

The updated list of members of the WG with their areas of interest is available on the ESH website:

<https://www.eshonline.org/esh-content/uploads/2018/12/WG-on-Hypertension-and-the-Kidney.pdf>

The WG is currently composed of 46 members from 21 countries.

The map shows the countries currently represented in the WG (except for Argentina and Japan).



The board is composed of the Chair (Prof. Alexandre Persu, Belgium), the past Chair (Prof. Peter de Leeuw, The Netherlands), the Secretary (Dr Gregor Wuerzner, Switzerland) and an officer in charge of relations with ERA/EDTA (Prof. Patrick Rossignol, France). The statutes, approved in May 2016, are available on the website.

## Election of the New President and Secretary of the Working Group

After 4 years of governance of Prof. A. Persu as Chair and Dr G. Wuerzner as Secretary, an anonymous electronic vote was organized within the WG between 21<sup>th</sup> December 2018 and

18<sup>th</sup> January 2019 to elect the new Chair and the new Secretary of the Working Group. Each member could vote for two candidates (President-Secretary).

Of 45 members, 27 voted for the election.

Prof. Pantelis Sarafidis and Prof. Jean-Michel Halimi received the highest number of votes. The results of the vote have been sent to the council of the ESH for validation.

Therefore, beginning from June 2019, Prof. Sarafidis and Prof. Halimi will take the lead as new President and Secretary, respectively.

### **ESH 30 years**

To mark the 30 Years of ESH, the WG participated to the initiative of Prof. Tsioufis and Prof. Kreutz for a revised and updated edition of the history of ESH. A text written by the past Chair (Prof de Leeuw) and the current Chair (Prof. Persu) summarizing the activities of the WG “Hypertension and the Kidney” was sent to the ESH.

### **WG meetings and proceedings**

The Chair and the Secretary have regular telephone conferences to organize and to follow progress of the objectives of the WG. Newsletters are sent to the members on a regular basis to inform them about the activities and meetings proposed by the WG.

The business meeting of the WG is scheduled on Saturday 22<sup>th</sup> June 2019 at the annual ESH Congress in Milan.

The activities organized by the WG on this occasion are listed below:

#### **ESH2019: Hands-on workshop and business meetings**

#### **RENAL ULTRASOUND IN HYPERTENSION (BASICS)**

***Friday, 21<sup>th</sup> June, 13.00-17.00, Blue Hall***

**Chairpersons: A. Persu (Brussels), G. Wuerzner (Lausanne)**

13.00: Welcome address (Dr Gregoire Wuerzner, Prof. Alexandre Persu)

13.10-13.20: Technical basics of ultrasound and indications to perform a renal ultrasound in hypertensive patients (Dr Menno Pruijm)

13.20-13.35: Normal anatomic findings and common abnormalities of the renal and urogenital tract (renal masses, nephrolithiasis, hydronephrosis) (Dr Magdalena Januszewicz)

13.35-14.00: Renal duplex ultrasound: atherosclerotic renal artery stenosis / renal resistive indexes (Dr Belén Ponte)

14.00-14.15: Old and novel ultrasound applications in Fibromuscular Dysplasia (Dr Rosa Maria Bruno, Prof. Alexandre Persu)

14.15-14.30: Beyond the kidney: aorta and adrenal glands (Dr Ilaria Petrucci)

14.30 pm: Break

14.40: Practical examination of the kidney, aorta and adrenal glands by experts (Magdalena Januszewicz, Ilaria Petrucci, Belén Ponte, Menno Pruijm)

15.20: Hands-on kidney ultrasound with healthy volunteers and supervision with experts

16.50-17.00: General discussion with experts and participants

### **ESH 2018 BUSINESS MEETING**

***Saturday, 22<sup>th</sup> June, 18.00-19.00, White Room***

Agenda:

- Summary of the activities of the WG during the last 4 years (Gregor Wuerzner and Alexandre Persu)
- Transfer of leadership from current to next team President-Secretary
- Perspectives for the future (Pantelis Sarafidis)
- Project proposals (Jean-Michel Halimi)

### **Fibromuscular Dysplasia (FMD)**

The main objectives of the European FMD initiative are to (i) standardize clinical practice and update the FMD consensus; (ii) establish and develop a network of expert centers; (iii) establish a European patient network; (iv); develop the European/International FMD registry; (v) contribute to dissect the genetics of FMD (GWAS/WES); (vi) coordinate research on FMD in Europe.

### **European/International FMD Registry**

The registry includes over 50 items covering demographic and clinical characteristics of FMD, family history, type (uni- versus multifocal FMD), localization of FMD, associated features (aneurysm, dissection) and interventions (angioplasty, surgery...). A flexible, user-friendly online version has been developed (L. Toubiana), allowing to add an indefinite number of new events/visits.

A new expanded and fully revised version is in production and will be released in Autumn 2019.

The registry is linked with a wide scale genetic project (Prof. N. Bouatia-Naji and X. Jeunemaitre, Paris).

As of now, 45 centres from 21 European countries have included over 1200 patients.

Furthermore, the registry is becoming more and more international with inclusion of centres from Argentina, China, Japan, Israël and Tunisia.

The WG is actively searching to recruit new centers, particularly in Northern and Central-Eastern Europe, which are currently less represented.

The registry is endorsed by the ESH and an official call for participation is available on the ESH website:

<http://www.eshonline.org/esh-content/uploads/2016/10/Call-FMD-registry-2016.pdf>.

The support of the “Excellence centers” network to raise awareness about FMD and stimulate participation to the registry also remains of critical importance.

### **International consensus on FMD**

The international consensus on diagnosis and management of FMD led by Prof. A. Persu (Brussels) and Prof. H. Gornik (Cleveland) has been jointly published in *Journal of Hypertension and Vascular Medicine* on behalf of the ESH WG “Hypertension and the Kidney” and the Society for Vascular Medicine (SVM).

### **Hypertension in dialysis**

The WG has initiated a tight collaboration with the European Renal and Cardiovascular Medicine (EURECA-m) WG of the ERA/EDTA.

An online survey on the adequacy of blood pressure measurements in dialysis centers across Europe has been completed end May 2017. Ninety-seven physicians working in dialysis centers from 36 countries have participated to the survey. Half of the centers originated from 7 countries.

The results have been accepted for publication as a research letter in *Nephrology, Dialysis and Transplantation*.

A poster comparing the agreement of patients, nurses and physician regarding correct blood pressure measurement will be presented at the 29<sup>th</sup> European Meeting of hypertension and cardiovascular protection in Milan

### **Hypertension in renal transplantation**

A meta-analysis on the effect of antihypertensive drugs on patient, graft survival and kidney endpoints in kidney transplantation, also resulting from a joint effort of our WG and EURECA-m has just been published in *Nephrology Dialysis and Transplantation*.

### Publications on behalf of the WG (2019)

Gornik HL\*, Persu A\*, Adlam D, Aparicio LS, Azizi M, Boulanger M, Bruno RM, de Leeuw P, Fendrikova-Mahlay N, Froehlich J, Ganesh SK, Gray BH, Jamison C, Januszewicz A, Jeunemaitre X, Kadian-Dodov D, Kim ES, Kovacic JC, Mace P, Morganti A, Sharma A, Southerland AM, Touze E, van der Niepen P, Wang J, Weinberg I, Wilson S, Olin JW, Plouin PF: First International Consensus on the diagnosis and management of fibromuscular dysplasia. *J Hypertens* 2019;37:229-252; *Vasc Med* 2019;24:164-189.

Pisano A, Bolignano D, Mallamaci F, D'Arrigo G, Halimi JM, Persu A, Wuerzner G, Sarafidis P, Watschinger B, Burnier M, Zoccali C: Comparative effectiveness of different antihypertensive agents in kidney transplantation: a systematic review and meta-analysis. *Nephrol Dial Transplant* 2019

Pappaccogli M, Labriola L, Van der Niepen P, Pruijm M, Vogt L, Halimi JM, Ferro CJ, Halabi G, Phan O, Bullani R, Saudan P, Avdelidou A, Panou E, Papoulidou F, London G, Rossignol P, Sarafidis P, Persu A\*, Wuerzner G\*, on behalf of the Working Group "Hypertension and the Kidney" of the European Society of Hypertension (ESH), the Working Group "European Renal and Cardiovascular Medicine (EURECA-m) of the European Renal Association-European Dialysis, Transplant Association (ERA-EDTA), the Groupe Romand de dialyse and the Northern Greece Haemodialysis Network. Is blood pressure measured correctly in dialysis centers? Physicians' and patients' view. *Nephrol Dial Transplant* (in press).