

ESH Endocrine Hypertension Working Group

Nucleus

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Members

The following members of the Endocrine Hypertension WG distribution list declared that they were members or going to become members of the ESH.

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Planned activities

Cooperative research projects and registries

A European Society of Endocrinology (ESE)/ESH Special Interest Group (SIG) has been created to develop a metaanalysis, a registry, and guidelines concerning long-term follow-up in patients operated on a pheochromocytoma or paraganglioma (PPGL). The ENS@T (European Network for the Study of Adrenal Tumors) PPGL WG also agreed to participate. The SIG is chaired by PF Plouin.

Position papers and guidelines

At the initiative of GP Rossi, several Endocrine Hypertension WG members participated in an expert consensus on use of adrenal vein sampling for the subtyping of primary aldosteronism (see the reference of Rossi GP et al below).

Four members of the WG (J Lenders, AP Gimenez-Roqueplo, G Eisenhofer and K Pacak) were also members of the scientific panel of the Endocrine Society (USA) that prepared clinical practice guidelines for pheochromocytoma and paraganglioma.

Organization of the ISP 2014 international meeting

Several members of the WG (G Eisenhofer, AP Gimenez-Roqueplo, A Januszewicz, J Lenders, G Opocher, K Pacak, PF Plouin) are also members of the Organizing Committee of the International Symposium on Pheochromocytoma and Paraganglioma to be held in Kyoto in September 17-20, 2014

Publications by WG members, 2013

Papers published in English in 2013 by Endocrine Hypertension WG members belonging to two different teams or more:

1. Beuschlein F, Boulkroun S, Osswald A, Wieland T, Nielsen HN, Lichtenauer UD, Penton D, Schack VR, Amar L, Fischer E, Walther A, Tauber P, Schwarzmayr T, Diener S, Graf E, Allolio B, Samson-Couterie B, Benecke A, Quinkler M, Fallo F, Plouin PF, Mantero F, Meitinger T, Mulatero P, Jeunemaitre X, Warth R, Vilsen B, Zennaro MC, Strom TM, Reincke M. Somatic mutations in *ATP1A1* and *ATP2B3* lead to aldosterone-producing adenomas and secondary hypertension. *Nat Genet* 2013;45:440-4
2. Boulkroun S, Golib Dzib JF, Samson-Couterie B, Rosa FL, Rickard AJ, Meatchi T, Amar L, Benecke A, Zennaro MC. *KCNJ5* mutations in aldosterone producing adenoma and relationship with adrenal cortex remodeling. *Mol Cell Endocrinol* 2013;371:221-7
3. Därr R, Pamporaki C, Peitzsch M, Miehle K, Prejbisz A, Peczkowska M, Weismann D, Beuschlein F, Sinnott R, Bornstein SR, Neumann HP, Januszewicz A, Lenders J, Eisenhofer G. Biochemical diagnosis of phaeochromocytoma using plasma-free normetanephrine, metanephrine and methoxytyramine: importance of supine sampling under fasting conditions. *Clin Endocrinol (Oxf)*. 2013 Sep 18. doi: [Epub ahead of print]
4. Dekkers T, Deinum J, Schultzekool LJ, Blondin D, Vonend O, Hermus AR, Peitzsch M, Rump LC, Antoch G, Sweep FC, Bornstein SR, Lenders JW, Willenberg HS, Eisenhofer G. Plasma metanephrine for assessing the selectivity of adrenal venous sampling. *Hypertension* 2013;62:1152-7
5. Eisenhofer G, Lattke P, Herberg M, Siegert G, Qin N, Därr R, Hoyer J, Villringer A, Prejbisz A, Januszewicz A, Remaley A, Martucci V, Pacak K, Ross HA, Sweep FC, Lenders JW. Reference intervals for plasma free metanephrines with an age adjustment for normetanephrine for optimized laboratory testing of phaeochromocytoma. *Ann Clin Biochem* 2013;50(Pt 1):62-9
6. Estey MP, Diamandis EP, Eisenhofer G, Pacak K, Maher ER, Young WF, De krijger RR. Pheochromocytomas. *Clin Chem* 2013; 59:466-72
7. Giavarini A, Chedid A, Bobrie G, Plouin PF, Hagège A, Amar L. Acute catecholamine cardiomyopathy in patients with phaeochromocytoma or functional paraganglioma. *Heart* 2013;99:1438-44

8. Killian JK, Kim SY, Miettinen M, Smith C, Merino M, Tsokos M, Quezado M, Smith WIJR, Jahromi MS, Xekouki P, Szarek E, Walker R, Lasota J, Raffeld M, Klotzle B, Wang Z, Jones L, Zhu YJ, Wang Y, Waterfall J, O'sullivan M, Bibikova M, Pacak K, Stratakis CA, Janeway KA, Schiffman JD, Fan JB, Helman LJ, Meltzer Ps. Succinate dehydrogenase mutation underlies global epigenomic divergence in gastrointestinal stromal tumor. *Cancer Discov* 2013;3:648-57
9. Pamporaki C, Därr R, Bursztyn M, Glöckner S, Bornstein SR, Lenders JW, Pacak K, Krinner A, Eisenhofer G. Plasma-free vs deconjugated metanephrines for diagnosis of pheochromocytoma. *Clin Endocrinol (Oxf)* 2013;79:476-83
10. Peitzsch M, Pelzel D, Glöckner S, Prejbisz A, Fassnacht M, Beuschlein F, Januszewicz A, Siegert G, Eisenhofer G Simultaneous liquid chromatography tandem mass spectrometric determination of urinary free metanephrines and catecholamines, with comparisons of free and deconjugated metabolites. *Clin Chim Acta* 2013;418:50-8
11. Peitzsch M, Prejbisz A, Kroiß M, Beuschlein F, Arlt W, Januszewicz A, Siegert G, Eisenhofer G. Analysis of plasma 3-methoxytyramine, normetanephrine and metanephrine by ultraperformance liquid chromatography-tandem mass spectrometry: utility for diagnosis of dopamine-producing metastatic pheochromocytoma. *Ann Clin Biochem* 2013;50(Pt 2):147-55
12. Prejbisz A, Klisiewicz A, Januszewicz A, Lenders JW, Pręgowska-Chwała B, Józwik-Plebanek K, Michałowska I, Januszewicz M, Andziak P, Hoffman P, Guzik TJ. 22-Year-old patient with malignant hypertension associated with primary aldosteronism. *J Hum Hypertens* 2013;27:138-40
13. Prejbisz A, Lenders JW, Eisenhofer G, Januszewicz A. Mortality associated with pheochromocytoma. *Horm Metab Res* 2013;45:154-8
14. Prejbisz A, Lenders JW, Eisenhofer G, Januszewicz A. Mortality associated with pheochromocytoma. *Horm Metab Res* 2013;45:154-8
15. Qin N, Peitzsch M, Menschikowski M, Siegert G, Pacak K, Eisenhofer G. Double stable isotope ultra performance liquid chromatographic tandem mass spectrometric quantification of tissue content and activity of phenylethanolamine N-methyltransferase, the crucial enzyme responsible for synthesis of epinephrine. *Anal Bioanal Chem* 2013;405:1713-9
16. Rao JU, Engelke UF, Rodenburg RJ, Wevers RA, Pacak K, Eisenhofer G, Qin N, Kusters B, Goudswaard AG, Lenders JW, Hermus AR, Mensenkamp AR, Kunst HP, Sweep FC, Timmers HJ. Genotype-specific abnormalities in mitochondrial function associate with distinct profiles of energy metabolism and catecholamine content in pheochromocytoma and paraganglioma. *Clin Cancer Res* 2013;19:3787-95
17. Richter S, Qin N, Pacak K, Eisenhofer G. Role of hypoxia and HIF2 α in development of the sympathoadrenal cell lineage and chromaffin cell tumors with distinct catecholamine phenotypic features. *Adv Pharmacol* 2013;68:285-317
18. Vlenterie M, Flucke U, Hofbauer LC, Timmers HJ, Gastmeier J, Aust DE, van der Graaf WT, Wesseling P, Eisenhofer G, Lenders JW. Pheochromocytoma and gastrointestinal stromal tumors in patients with neurofibromatosis type I. *Am J Med* 2013;126:174-80
19. Ziegler CG, Ullrich M, Schally AV, Bergmann R, Pietzsch J, Gebauer L, Gondek K, Qin N, Pacak K, Ehrhart-Bornstein M, Eisenhofer G, Bornstein SR. Anti-tumor effects of peptide analogs targeting neuropeptide hormone receptors on mouse pheochromocytoma cells. *Mol Cell Endocrinol* 2013;371:189-94