

PARATHYROIDS 2010: FROM PATHOPHYSIOLOGY TO THE CLINICAL USE OF PTH

Pisa, Palazzo dei Congressi, February 11-13, 2010

Thursday, February 11, 2010

- 5.00 pm **Registration opens**
5.30 pm **Opening Ceremony**
6.00 pm **Opening Lecture**
Chair: *A. Pinchera, Italy*
Historical Perspective - *J.T. Potts, USA*
- 6.30 pm **Welcome Reception**

Friday February 12, 2010

- 8.30 am **Session I**
PTH Secretion and Action
Chairs: *C. Marcocci, Italy and J.T. Potts, USA*
Control of PTH secretion - *E. M Brown, USA*
Cellular and molecular actions of PTH - *S. Manolagas, USA*
Catabolic and anabolic actions of PTH - *J.P. Bilezikian, USA*
PTH and stem cells - *E. Schipani, USA*
- 10.10 am Coffee break
- 10.30 am **Session II**
Primary Hyperparathyroidism (1)
Chairs: *E.F. Eriksen, Norway and G. Lombardi, Italy*
Molecular pathogenesis of primary hyperparathyroidism - *M.L. Brandi, Italy*
Pathology of parathyroid tumors - *F. Basolo, Italy*
Epidemiology and natural history of primary hyperparathyroidism - *S. Minisola, Italy*
Histomorphometry in primary hyperparathyroidism - *D.W. Dempster, USA*
Primary hyperparathyroidism: impact on BMD and fracture risk - *L. Mosekilde, Denmark*
- 12.45 pm **Lunch and Poster Viewing**
- P1 Role of phosphate in the rapid control of parathyroid hormone release after oral peptones administration in a human model of gastrectomy
M. Bevilacqua, M. Invernizzi, S. Carda, C. Cisari (Italy)
- P3 Retroesophageal parathyroid adenoma – scintigraphic and intraoperative scintimetric localization of an ectopic parathyroid adenoma with Tc99m tetrofosmin: a case report
V.Čáková, J.Lepej, I.Marin, M.Kudláč (Slovak Republic)
- P5 Renal function in primary hyperparathyroidism
F. Tassone, C. G. Croce, V. Borretta, L. Gianotti, F. Cesario, C. Baffoni, I. Emmolo, M. Pellegrino, G. Borretta (Italy)
- P7 Effect of gender and geographic location on the expression of primary hyperparathyroidism (PHPT)
F. De Lucia, S. Minisola, E. Romagnoli, M.L. Mascia, A. Scillitani, N. Parikh, D.S. Rao (Italy and USA)

- P9** Rare activating mutation (S33C) of *CTNNB1* in parathyroid adenoma
V. Guarnieri, F. Baorda, C. Battista, M. Bisceglia, G.N. Hendy, D.E.C. Cole, M. Carella, A. Scillitani (Italy and Canada)
- P11** Multiple endocrine neoplasia type 1 with parathyroid carcinoma
V. Guarnieri, M.Coco, C. Battista, F. Cetani, L. Canaff, M. Bisceglia, C. Marcocci, M. Carella, D.E.C. Cole, G.N. Hendy, L. D'Agruma, A. Scillitani (Italy and Canada)
- P13** Peripheral quantitative computed tomography and DXA of the forearm in hyperparathyroidism, hypoparathyroidism and healthy controls – cross sectional study of 25 women
L. Rolighed, T. Sikjaer, L. Rejnmark, P. Christiansen, L. Mosekilde (Denmark)
- P15** Intraoperative monitorization of IPTH in primary hiperparathyroidism (HPT). Where and when the basal blood samples can be obtained
A. Gómez Palacios, J. Gómez Zabala, B. Barrios, M^a T. Gutiérrez, A. Expósito, B. Roca, N. Partearroyo, I. Iturburu, J. Méndez (Spain)
- P17** Reoperative parathyroid surgery - surgical findings and clinical results in 159 patients with secondary hyperparathyroidism
R. Schneider, A. E. Heverhagen, D. K. Bartsch, K. Schlosser (Germany)
- P19** Asymptomatic hyperparathyroidism complicated with low bone density. Clinical presentation in primary hyperparathyroidism should not be underestimated. Description of a case
R. Romano, R. Tavolaro, M. Veltri, A. Fabiano (Italy)
- P21** Histological and mechanical assessment of fracture bone healing under parathyroid hormone (1-34) treatment
M. Portigliatti Barbos, S. Marino, A. Barberis, A. S. Bravo Martin, Y. Bala, G. Boivin, B. Mognetti (Italy and France)
- P23** The effect of calcimimetic R-568 on the functional role of the calcium sensing receptor R990G polymorphism
A. Terranegra, A. Ferraretto, E. Dogliotti, M. Scarpellini, S. Corbetta, A.M. Barbieri, A. Spada, T. Arcidiacono, F. Rainone, A. Aloia, D. Cusi, G. Vezzoli, L. Soldati (Italy)
- P25** Genetic analysis of *HRPT2* gene in a large series of parathyroid tumors
C. Banti, F. Cetani, E. Pardi, S. Borsari, F. Saponaro, M.R. Pelizzo, N. Sorgato, M. Rugge, G. Pennelli, G. Gasparri, M. Papotti, M. Volante, A. Pinchera, C. Marcocci (Italy)

1.45 pm **Session III**

Primary Hyperparathyroidism (2)

Chairs: E.M. Brown, USA and F. Pacini, Italy

Primary hyperparathyroidism and the kidney - M. Peacock, USA

Non-classical manifestations of primary hyperparathyroidism - S.J. Silverberg, USA

Vitamin D insufficiency and primary hyperparathyroidism - D.S. Rao, USA

Genetic testing in primary hyperparathyroidism - S.J. Marx, USA

3.30 pm **Oral Communications 1**

Chairs: A. Scillitani, Italy and S. J. Silverberg, USA

- OC1** Association between serum osteocalcin and insulin sensitivity in primary hyperparathyroidism
L. Gianotti, F. Tassone, M. Pellegrino, C. Baffoni, C.G. Croce, F. Cesario, G. Borretta (Italy)
- OC2** The sulfaphenazole-sensitive pathway acts as a compensatory mechanism for impaired nitric oxide availability in patients with primary hyperparathyroidism. Effect of surgical treatment
A. Virdis, F. Cetani, C. Giannarelli, C. Banti, L. Ghiadoni, E. Ambrogini, D. Carrara, A. Pinchera, S. Taddei, G. Bernini, C. Marcocci (Italy)
- OC3** Parathyroid hormone level in vitamin D-replete postmenopausal women is an important predictor of fracture risk: a 16-yr follow-up study in postmenopausal women
L. Rejnmark, P. Vestergaard, L. Mosekilde (Denmark)
- OC4** Chronic and acute hypercalcemia modulate mechanism of synaptic plasticity: a study in normal subjects and hyperparathyroids (PHPT) patients
M. L. Mascia, E. Romagnoli, A. Scillitani, A. Conte, C. Cipriani, R. Del Fiacco, S. Piemonte, S. Russo, F. De Lucia, M. Inghilleri, S. Minisola (Italy)
- OC5** Circulating sclerostin levels in disorders of parathyroid function: primary hyperparathyroidism and hypoparathyroidism
G. Costa, S. Cremers, M.R. Rubin, E. Dworakowski, D.J. McMahon, S.J. Silverberg, J.P. Bilezikian (USA)
- OC6** A proteomic approach to study parathyroid glands
L. Giusti, F. Cetani, F. Ciregia, C. Banti, Y. Da Valle, E. Donadio, E. Pardi, F. Saponaro, G. Giannaccini, A. Pinchera, C. Marcocci, A. Lucacchini (Italy)
- OC7** Calcium-sensing receptor (CASR) mutations in hypercalcemic states: functional analyses of novel and recurrent mutations identified in a single endocrine clinic over three years
V. Guarnieri, L. Canaff, D.E.C. Cole, A. Scillitani, G.N. Hendy (Italy and Canada)
- OC8** Polymorphisms of the calcium-sensing receptor gene and stones in primary hyperparathyroidism
T. Arcidiacono, F. Rainone, V. Paloschi, A. Scillitani, A. Terranegra, E. Dogliotti, V. Guarnieri, A. Aloia, L. Borghi, A. Guerra, A. Nouvenne, B. Prati, F. Allegri, T. Meschi, C. Eller-Vainicher, S. Corbetta, A. Spada, L. Soldati, G. Vezzoli

4.50 pm Coffee break

5.10 pm **Session IV**

Primary Hyperparathyroidism (3) and Hypoparathyroidism

Chairs: *M.T. Collins, USA and P. Vitti, Italy*

Impact of genetic polymorphisms on clinical features of primary hyperparathyroidism - *D. Cole, Canada*

Normocalcemic primary hyperparathyroidism - *J.P. Bilezikian, USA*

Diagnosis and management of parathyroid carcinoma - *F. Cetani, Italy*

Hypoparathyroid disorders - *M.L. Brandi, Italy*

8.30 pm **Social Event**

Saturday, February 13, 2010

8.30 am **Session V**

Primary Hyperparathyroidism (4)

Chairs: *J.P. Bilezikian, USA and H. Dralle, Germany*

Asymptomatic primary hyperparathyroidism: when to treat or not to treat? - *J.T. Potts, USA*

Is minimally invasive video-assisted parathyroidectomy the first surgical choice in primary hyperparathyroidism?

Pro - *P. Miccoli, Ital*

Con - *R. Udelsman, USA*

Pro & Con rebuttal and discussion

10.00 am Coffee break

10.20 am **Session VI**

Primary Hyperparathyroidism (5)

Chairs: *P. Miccoli, Italy and S.D. Rao, USA*

Value and limits of intraoperative PTH monitoring

Introduction - *L. Cianferotti, Italy*

Pro - *H. Dralle, Germany*

Con - *A. Sitges-Serra, Spain*

Pro & Con rebuttal and discussion

Persistent primary hyperparathyroidism: Why does parathyroidectomy fail and what to do? - *P. Goretzki, Germany*

Medical approach in primary hyperparathyroidism

Calcimimetics - *C. Marocci, Italy*

Inhibitors of bone resorption - *S. Adami, Italy*

12.45 pm **Lunch and Poster Viewing**

- P2** Patients with surgically cured primary hyperparathyroidism have reduced quality of life compared to healthy age- and sex matched controls
A. K. Amstrup, L. Rejnmark, L. Mosekilde (Denmark)
- P4** Reassessment of the prevalence of nephrolithiasis in primary hyperparathyroidism with the routine use of renal ultrasound
J.J. Chillarón, J. Flores, Y. Maestre, J.J. Sancho, A. Sitges-Serra (Spain)
- P6** Determinants of plasma PTH and their implication for defining a reference interval
L. Rejnmark, P. Vestergaard, L. Heickendorff, L. Mosekilde (Denmark)
- P8** Differential expression of microRNAs in human parathyroid carcinomas compared with normal parathyroid tissue
S. Corbetta, V. Vaira, V. Guarnieri, A. Scillitani, C. Eller-Vainicher, S. Ferrero, L. Vicentini, I. Chiodini, M. Bisceglia, P. Beck-Peccoz, S. Bosari, A. Spada (Italy)
- P10** Two novel *HRPT2* mutations in the nucleolar localization signal of parafibromin
V. Guarnieri, V. Paziienza, F. Baorda, D. Kotzot, K. Kapelari, D.E.C. Cole, G.N. Hendy, L. D'Agruma, M. Carella, A. Scillitani (Italy, Austria and Canada)
- P12** Identification of the *HRPT2* gene mutations in neuroendocrine lung tumours
L.A. Muscarella, A. La Torre, V. Guarnieri, F. Cetani, P. Parrella, R. Barbano, M. Bisceglia, G. Vendemiale, E. Maiello, A. Piepoli, M. Carella, V.M. Fazio, A. Scillitani (Italy)
- P14** Giant cell tumour of the mandible as the first manifestation of primary hyperparathyroidism – case reports
A. Bohdanowicz-Pawlak, J. Szymczak, W. Pawlak, R. Nowak, M. Bolanowski (Poland)

- P16** Use of intraoperative parathyroid hormone to optimize efficacy of minimally invasive video-assisted parathyroidectomy
E. Stenner, C. Dobrinja, W. Micheli, G. Trevisan, G. Liguori, B. Biasioli (Italy)
- P18** Analyzing the relationship between the T393C polymorphism of the *GNAS1* gene and biochemical and densitometric parameters in 322 patients with primary hyperparathyroidism
M. Piedra, A. Berja, M.T. Gutiérrez-Hierro, N. García-Llama, M.T. García-Unzueta, J.A. Amado (Spain)
- P20** Vitamin D deficiency: a case of interference on the incidence of primary hyperparathyroidism
R. Romano, S. Cardea, M. Veltri, A. Fabiano (Italy)
- P22** Hystological evidence of parathyroid adenoma in a woman with normocalcemic primary hyperparathyroidism
C. Gilardini, G. Famoso, E. Angeli, E. Beretta, A. Rubinacci (Italy)
- P24** Cinacalcet treatment of primary hyperparathyroidism
C. Banti, F. Cetani, L. Cianferotti, F. Saponaro, S. Chiavistelli, A. Pinchera, C. Marcocci (Italy)
- P26** Clinical features and severity of multiple endocrine neoplasia (MEN) 1 – related primary hyperparathyroidism (PHPT)
L. Rostomyan, N. Mokrysheva, A. Tiulpakov, L. Rozhinskaya (Russian Federation)

1.45 pm **Session VII**

Secondary Hyperparathyroidism

Chairs: *P. Messa, Italy and M. Peacock, USA*

New hypotheses on the pathogenic mechanisms of secondary hyperparathyroidism in chronic kidney diseases - *M. Cozzolino, Italy*

Secondary hyperparathyroidism in chronic kidney diseases: Osteodystrophy and mineral bone disorders - *J Floege, Germany*

Management of hyperparathyroidism in advanced renal failure and uremia - *J. Bover, Spain*

Parathyroid function after kidney transplantation - *P. Messa, Italy*

Parathyroid surgery in secondary hyperparathyroidism - *G. Gasparri, Italy*

3.50 pm **Oral Communications 2**

Chair: *E. Martino, Italy and L. Mosekilde, Denmark*

OC9 Reduced muscle strength in patients with long standing hypoparathyroidism compared to healthy controls
T. Sijkaer, A. K. Amstrup, L. Rolighed, L. Rejnmark, L. Mosekilde (Denmark)

OC10 Alendronate in the medical management of primary hyperparathyroidism
J. Szymczak, A. Bohdanowicz-Pawlak (Poland)

OC11 Changes in bone mineral density after parathyroidectomy for primary hyperparathyroidism in postmenopausal women with femoral neck osteopenia or osteoporosis
A. Sitges-Serra, L. García, M^a J. Peña, X. Nogués, Y. Maestre, J.J. Sancho (Spain)

OC12 Intraoperative monitorization of IPTH in primary hyperparathyroidism (HPT)
A. Gómez Palacios, B. Barrios, J. Gómez Zabala, A. Expósito, B. Roca, S. Leturio, S. Ruiz, A. Escobar, J. Méndez (Spain)

OC13 Initial parathyroid surgery in patients with secondary hyperparathyroidism - an analysis of 597 patients
R. Schneider, A. E. Heverhagen, D.K. Bartsch, K. Schlosser (Germany)

4.40 pm Coffee break

4.55 pm **Session VIII**

Therapeutic Use of Teriparatide and PTH 1-84

Chairs: *S. Manolagas, USA and R. Nuti, Italy*

Use of Teriparatide and PTH(1-84) in osteoporosis - *P. Selby, United Kingdom*

Use of Teriparatide in glucocorticoid-induced osteoporosis - *G. Bianchi, Italy*

Potential of new molecules targeted to the PTH receptor - *T.J. Gardella, USA*

New approaches to therapeutic uses of PTH, including combination therapy - *E.F Eriksen, Norway*

Use of PTH in hypoparathyroidism - *M.T. Collins, USA*

7.00 pm **Closing Ceremony**