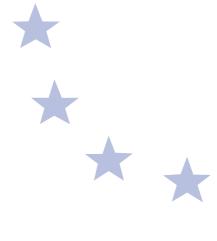


# **Endocrine Abstracts**

May 2012 Volume 29 ISSN 1470-3947 (print) ISSN 1479-6848 (online) ISSN 2046-0368 (CD-ROM)



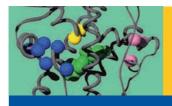
5-9 May 2012, Florence, Italy















Online version available at www.endocrine-abstracts.org







# Endocrine Abstracts (www.endocrine-abstracts.org)

Endocrine Abstracts (ISSN 1470-3947) is published by BioScientifica, Euro House, 22 Apex Court, Woodlands, Bradley Stoke, Bristol BS32 4JT, UK. Tel: +44 (0)1454-642240; Fax: +44 (0)1454-642201; E-mail: editorial@endocrinology.org;

Web: www.bioscientifica.com.

Subscriptions and requests for back issues should be addressed to *Endocrine Abstracts*, Portland Press, PO Box 32, Commerce Way, Whitehall Industrial Estate, Colchester CO2 8HP, UK. Tel: +44 (0)1206-796351; Fax: +44 (0)1206-799331.

### Subscription rates 2012

North & South America \$382 \$127 Rest of the World £191/ $\in$ 287 £64/ $\in$ 96 There are two regular issues per year plus occasional additional issues. Each issue is a separate volume.

### Claims and communications

All claims or communications regarding issues lost or damaged in transit should be addressed to Portland Press in Colchester (see above for address). This applies to both institutional and personal subscribers. No claims can be entertained if they are later than 3 months after the date of despatch.

### Disclaimer

The material contained in each issue of the journal has been prepared and written by named authors. Accordingly, neither the conference, BioScientifica Ltd nor their officers, employees or agents are responsible for the accuracy or otherwise of any abstracts or other articles and shall have no liability for any claims, damages or losses howsoever arising from the contents or any use to which they may be put by any person. It is not possible to guarantee that the abstracts printed in this issue will be presented at the conference.

Cover design by Rumba Graphic Design Ltd, Bristol, UK.

Typeset by OKS Prepress Services, Chennai, India. Printed by Latimer Trend & Company Ltd, Plymouth, UK.

Printed on acid-free paper.

Copyright © 2012 by BioScientifica Ltd. This publication is copyright under the Berne Convention and the Universal Copyright convention. All rights reserved. Apart from any relaxations permitted under national copyright laws, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior permission of the copyright owners save under a licence issued in the UK by the Copyright Licensing Agency. Photocopying in the USA. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients is granted by BioScientifica Ltd, provided that the appropriate fee is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA, Tel: +1-978-750-8400. Prior to photocopying items for educational classroom use, please contact Copyright Clearance Center, Inc. at the address shown above.

### Advertisements

Applications for advertisement space should be sent to Advertisement Department, BioScientifica Ltd, Euro House, 22 Apex Court, Woodlands, Bradley Stoke, Bristol-BS32 4JT, UK. Tel: +44 (0) 1454-642269; Fax: +44 (0)1454-642201;

E-mail: advertising@endocrinology.org. Copy is required 6 weeks before publication date. Rates are available on request.

**USA Postmaster:** send address corrections to *Endocrine Abstracts*, c/o Mercury International, 365 Blair Road, Avenel, New Jersey 07001. Periodicals postage is paid at Rahway New Jersey and at additional mailing offices.

All despatches outside the UK are sent by air-speeded service.

### Citing Endocrine Abstracts

When citing abstracts from this publication please include the names of the authors, year of publication, abstract title, name of this publication i.e. *Endocrine Abstracts*, volume and abstract number: e.g. Stewart P 2001 A tale of two enzymes. *Endocrine Abstracts* 2 SP2.









## **Endocrine Abstracts**

# 15th International & 14th European Congress of Endocrinology (ICE/ECE 2012)

5-9 May 2012, Florence, Italy

### **EDITORS**

The abstracts were marked by the Abstract marking Panel selected by the programme Organising Committee

### ICE/ECE 2012 Programme Organising Committee

Martin Reincke, Germany Chai

### Members

Fahmy Amara Ching-Chung Chang Cheri Deal Andrea Dunaif Hiroshi Ito

A Abdel-Rahim

Henry Kronenberg Mark Mclean Ambrish Mithal Maria Alevizaki Jens Bollerslev Philippe Bouchard Justo P Castaño Sevim Gullu Jean-Mark Kaufman Valdis Pirags Hans Romijn Christian Strasburger Jeremy Tomlinson Peter Trainer Raimo Voutilainen

Sweden

Spain Denmark

### **Abstract Marking Panel**

J Adamski M Alevizaki B Allolio F Amara N Anderson S Arver S N Assaad C Badiu L Bartalena E Baudin A Beckers X Bertagna F Beuschlein N Biermasz K Boelaert J Bollerslev G Borretta F Borson-Chazot M Boscaro P Bouchard R Bouillon P Bouloux J Bourguignon N Bratina A Brinkmann K Brixen I Brtko M Burt C G Caputo J Castano M Castellano P Chanson S Christin-Maitre P Clayton H Cohen M Cooper G Corona M Dattani C Daumerie C De Block A Dunaif E Duncan L Duntas R Elisei T Erbas

M Erdogan

R Feelders

M Fassnacht

Greece Germany Egypt Sweden Romania Italy France Belgium France Germany The Netherlands HK Norway Italy france Italy France Belgium Belgium The Netherlands Slovak Republic Australia Italy Italy France France USA Italy UK Belgium Belgium USA Australia Greece Italy Turkey Turkey Germany

The Netherlands

U Feldt-Rasmussen D Ferone C Follin G Forti L Fugazzola A Giwercman D Glintborg D Grattan C Gravholt A Grossman S Gullu A Gursoy K Ho,Ken I Huhtaniemi E Husebye W Inder G Johannsson P Kadioglu G Kaltsas J-M Kaufman , F Kelestimur M Kiel R Kineman B Kudla A Lacroix N Lahlou S Lamberts E Larger P Laurberg I Lazurova L Leenhardt J Lenders A Lewinski S Llahana M Ludgate R Lugue M Mannelli F Mantero C Marcocci S Mariotti A Marland M Massi Benedetti A McCormack M McLean A Milewicz S Minami, A Mithal

Denmark Italy Sweden Italy Italy Sweden Denmark New Zealand Denmark UK Turkey Turkey UK Norway UK Sweden Turkey Greece The Netherlands Turkey USA USA Poland France The Netherlands France Denmark Slovak Republic France The Netherlands Medical University The Netherlands UK UK Spain Italy Italy Italy Italy UK Italy Australia Australia Poland

Japan

J Mittag E Montanya L Mosekilde E Nieschlag G Opocher J O L Joergensen R Paschke R Peeters U Plöckinger T Poulsen M Quinkler G Radetti D Ray M Reincke M Robledo C Rosak P Rotwein M Sahin P Santisteban H Schneider M Simoni M Skugoi U Smith A Sonmez B Staels G Stalla C Strasburger K Suminkova A Tabarin T Temelkova-Kurktschiev V Tillmann I Tomlinson Toppari D Torpy V Toscano P Trainer K Unluhizarci B Vaidva R Voutilainen S Webb W Wiersigna J Wilding G Williams I-M Wit B Yildiz W Young V Yumuk L Zabuliene

M C Zatelli

Germany Italy Denmark Germany The Netherlands Germany Denmark Germany Italy The Netherlands Spain Germany USA Turkey Spain Germany Italy USA Sweden Turkey France Germany Germany Czech Republic France Bulgaria UK Finland Australia Italy UK Turkey UK Finland Spain The Netherlands UK The Netherlands Turkey USA Turkey Lithuania Italy

### The ISE and ESE would like to thank the ICE/ECE 2012 sponsors:

### **Gold Sponsors**

Eli Lilly Ipsen Novartis Otsuka

### **Bronze Sponsors**

**IBSA** 

Pfizer

Perkin Elmer

### **Other Sponsors & Exhibitors**

The American Association of Clinical Endocrinologists
Alexion
BioScientifica Ltd
BioVendor-Laboratorni Medicina a.s.
Chinese Medical Association
DiaSorin
Endocrine Connections
ENEA
Endocrine Education Inc
European Society of Endocrinology
HRA Pharma
IDS

Mediteque
Mercodia
Phoenix Pharmaceuticals Inc
Prostrakan
S. Karger AG
Salimaterics Europe Ltd
Sandoz International
Serono Symposia
Society for Endocrinology
The Endocrine Society
Thermofisher Scientific
ViroPharma
Wisepress



Lonza Cologne GmbH

ESE Secretariat
Euro House
22 Apex Court
Woodlands
Bradley Stoke
Bristol BS32 4 T, UK

Contact: Andrea Davis

Tel: +44 (0)1454 642247
Fax: +44 (0)1454 642222
E-mail: info@euro-endo.org
Web site: www.ese-hormones.org



**ICE/ECE 2012 Secretariat** 

BioScientifica Ltd Euro House 22 Apex Court Woodlands Bradley Stoke Bristol BS32 4]T, UK

Tel: +44 (0)1454 642240 Fax: +44 (0)1454 642222

E-mail: ice-ece2012@bioscientifica.com

Web site: www.ice-ece2012.com

drenal Basic	OC13.6
Tale Reproduction	0C14.6
hyroid Basic	OC15.6
emale Reproduction Clinical	OC16.6
tiabetes Basic	OC17.6
aediatric Endocrinology	OC18.6
ardiovascular Endocrinology	OC19.6
IURSES ABSTRACTS	1-N28
POSTER PRESENTATIONS	
drenal cortex	-P113
drenal medulla	
one & Osteoporosis	
alcium & Vitamin D metabolism	-P268
ardiovascular Endocrinology and Lipid Metabolism	P341.1
linical case reports - Pituitary/Adrenal	-P399
linical case reports - Thyroid/Others	-P480
Pevelopmental endocrinology	-P498
viabetes	-P746
ndocrine Disruptors	-P772
ndocrine tumours and neoplasia P773	-P884
emale Reproduction	-P983
Frowth hormone IGF axis - basic	-P100 <i>6</i>
fale Reproduction	-P1069
Teuroendocrinology	-P1152
Tuclear receptors and Signal transduction	-P1169
besity	-P1283
aediatric endocrinology	-P1330
ituitary - Basic	-P1360
ituitary - Clinical	1542.1
teroid metabolism + action	
'hyroid (non-cancer)	
hyroid cancer	-P1857

### INDEX OF AUTHORS



Otsuka have kindly sponsored the production of this abstract book. They were not involved with the marking and selection of abstracts.

not have a predictive value in foreseeing malignancy in residual thyroid tissue; however, other studies containing more patients are of necessity to clarify the issue.

The authors declare that there is no conflict of interest that could be perceived as prejudicing the impartiality of the research project.

Funding

This research did not receive any specific grant from any funding agency in the public, commercial or not-for-profit sector.

### P1771

### Ultrasound (US) features of thyroid nodules with cytology suspicious for malignancy

E. Taliani, A. Ansaloni, C. Diazzi, A. Granata, C. Carani, V. Rochira & B. Madeo

University of Modena & Reggio Emilia, Azienda Unità Sanitaria Locale, Modena, Italy.

### Introduction

Several studies in literature have shown that some features of thyroid nodules at US are associated with malignancy. However, previous studies were focused mainly on subjects affected by multinodular goiter (about 70%) rather than subjects with thyroid cancer (about 30%). Furthermore, the main limitation of previous studies was the lack of thyroidectomy in all subjects.

Aim of the study

To evaluate the diagnostic value of US features in a selected sample of patients with thyroid nodules cytologically suspected for malignancy (THY4-THY5) by comparing US features of each nodule with the results of histological analysis after thyroidectomy.

### Methods

In this prospective study, we enrolled 54 patients with cytological result suspicious of malignancy. All subjects underwent thyroid ultrasound before thyroidectomy. We evaluated the following US features: size, content, shape, margins, echogenicity, calcification, halo sign, vascular pattern, for all the nodules (those citologically suspected and those not suspected). All enrolled patients underwent total thyroidectomy, therefore all benign and malignant nodules previously assessed at US received histological verification. Results

In all the 54 patients a diagnosis of differentiated thyroid cancer was confirmed. Each of the following features: microcalcifications, macrocalcifications, irregular margins and hypoechogenicity at US correlate with malignancy at histology by using chi-square (P < 0.001). These features have high specificity but low sensitivity (microcalcifications 93.9-40.4%, macrocalcifications 98-22.8%, hypoechogenicity 96-21% respectively). Irregular margins is the feature with the best pair of sensitivity (65%) and specificity (65%).

### Conclusions

These results confirm and reinforce previous studies that showed a correlation among microcalcification, irregular margins, hypoechogenicity and malignancy in a highly selected sample of patients undergoing thyroidectomy. Furthermore, in contrast with literature, we found a strong correlation also between macrocalcification and malignancy. US is a valid tool to select which nodules require FNA evaluation according to sonographic features closely related to malignancy.

Declaration of interest

The authors declare that there is no conflict of interest that could be perceived as prejudicing the impartiality of the research project

This research did not receive any specific grant from any funding agency in the public, commercial or not-for-profit sector.

### P1772

### Incidence of ultrasound thyroid scan anomalies in healthy volunteers in modena, italy

M. Gnarini<sup>1</sup>, G. Brigante<sup>1</sup>, E. Della Valle<sup>1</sup>, E. Taliani<sup>1</sup>, C. Carani<sup>1</sup> & M. Simoni<sup>1,2</sup>

<sup>1</sup>University of Modena & Reggio Emilia, Azienda AUSL-NOCSAE of Baggiovara, Modena, Italy; <sup>2</sup>University of Modena & Reggio Emilia, Modena, Italy.

### Introduction

We assessed the incidence of ultrasound (US) thyroid scan anomalies in adult volunteers in the district of Modena

### Methods

From December 2010 to October 2011 we performed US thyroid scan (Siemens Acuson Antares, 10 Mega Hertz-Linear scanner- B mode) in a cohort of 201 volunteers, recruited by local advertisement, women (n = 135) and men (n = 66), mean age  $46\pm10.7$ . All participants were unaware of any thyroid disease and at their first thyroid US scan. Fine needle aspiration cytology (FNA) was performed in 13 subjects.

### Results

US thyroid scan anomalies were found in 101 subjects (50.3%): 93 nodular goiters (95%) and 13 subjects with ultrasound features of thyroiditis (12.8%), 11 of them confirmed by positive anti Tg and/or anti TPO antibodies. Positive family history was present in 30% of subjects affected by thyroid US anomalies. In all subjects with nodules serum calcitonin was normal. 13 subjects (6.5%) with nodular goiter underwent FNA with the following citology: 10 patients THY 2 (77%), 1 patient THY 3 (7.7%), 2 patients had THY 4 (15%) followed by histological confirmation of thyroid papillary carcinoma after total thyroidectomy (both women aged 48)

### Conclusions

The incidence of thyroid anomalies, mainly nodular goiter, is very high in subjects unaware of any thyroid disease in the district of Modena, Italy. Thyroid cancer was found in 1% of all subjects, 2% of those affected by nodular goiter. Among subjects who underwent FNA the prevalence of cancer was 15%. Compared to other well-established screening programs like breast and colorectal cancer providing a yearly detection rate of about 0.45% and 0.27% respectively, the incidence of thyroid cancer seems to be much higher: thyroid US mass screening could allow the detection of asymptomatic cancer at a very early stage with a high cost-benefit ratio.

Declaration of interest

The authors declare that there is no conflict of interest that could be perceived as prejudicing the impartiality of the research project.

This research did not receive any specific grant from any funding agency in the public, commercial or not-for-profit sector.

### Surgical treatment of locally advanced thyroid carcinoma with larynx infiltration: case report

I. Djurisic<sup>1</sup>, A. Mikic<sup>2</sup>, M. Buta<sup>1</sup>, M. Oruci<sup>1</sup> & R. Dzodic<sup>1</sup>

<sup>1</sup>Institute for oncology and radiology of Serbia, Belgrade, Serbia; <sup>2</sup>Institute of ORL KCS, Belgrade, Serbia.

Infiltration of larynx by thyroid cancer represents fourth stage of the disease and is threatening disease. Lethal outcome of advanced thyroid cancer, which invades trachea and larynx, is usually associated with airway obstruction. Patient and method

We are presenting 58 year old woman operated due to the advanced papillary carcinoma Patient underwent total thyroidectomy, central neck dissection, modified radical dissection of the right side, selective dissection on the left side, auto-transplantation of left parathyroid gland, partial vertical laryngectomy and reconstruction of defects with epiglottis and surgical tracheotomy. After surgical treatment she received a dose of 5.5 GBq J 131st. Postoperative stenosis of the larynx was treated twice with laser surgery. Results

Traheostomy has been closed and the phonatory and respiratory functions were preserved after treatment. One year of follow up has passed with no signs of relapse.

### Conclusion

Decision of resectability of the tumor with reconstruction of the defect in the larynx is the most commonly intraoperative decision. Radical surgery is a logical and rational therapeutic approach for thyroid cancer in the fourth stage.

The goal of radical surgery in locally advanced thyroid cancer is to prevent lethal outcome but can also be curative form of therapy with good quality of life. Declaration of interest

The authors declare that there is no conflict of interest that could be perceived as prejudicing the impartiality of the research project.

This research did not receive any specific grant from any funding agency in the public, commercial or not-for-profit sector.

Robinson, M S28.2 Robinson, P OC1.2 Robinson, S P1648 Robison, LOC18.4 & P1434 Robledo, M P1816, P1825, S40.2 & S68.1 Roca, I P1821 Roca, M P1137 Roca Rodríguez, M P1482 Roccio, M P1230 Rocha, M P561 Rocha, M P329 & P330 Roche, B P1540, P1592, P1831 & P249 Rochira, V P1010, P1048, P1549, P1763, P1764, P1768, P1771 & P1822 Rockman-Greenberg, C OC8.1 Rodgers, R P493 & P931 Rodien, P P1786 Rodionova, J P619 Rodríguez, J P85 Rodríguez Rodríguez, I P1855 Rodríguez-Domínguez, T P1216 Rodríguez-Sanchez, F P1670 Rodrigues, A P1826 & P878 Rodrigues, D P412 Rodrigues, E P799 Rodrigues, J P1614, P1761 & P834 Rodrigues, P P1328 & P398 Rodrigues, TP1132 Rodriguez, A P1645 & P677 Rodriguez Chinesta, J P1850 Rodriguez Rodriguez, I P666 Rodriguez Sanchez, A P374 Rodriguez-Chacón, M P917 Rodriguez-Molina, J P318 Roeb, J P1331 Roef, G OC2.3 & P1559 Roelfsema, FP1423 Roemmler, J OC10.2 Roganovic, N P1550 Roger, MP42 Rogers, A P1476

Rogers, BP1367, P1368 & P1376 Roggen, I P160 Rogowski, F P1598, P1601 & P1647 Rohenkohl, A P991 & P996 Rohmer, V P814 & P993 Roiter, I P1671 Rojnic Putarek, N P1269 Rojo, G P199 & P205 Rojo-Martinez, G P1270 Rokutanda, N OC13.5 Roldán, PP1694 Rolim, GP1132 Rolinski, J P1599 Román, A P1474 & P1475 Romagnoli, E P219 Romagnoli, M P1377 Roman, EP1165 Roman, MM P215 Romanello, G P992 Romano, MP1124, P1637 & P753 Romano, R P1333 & P753 Romano, S P1822 Romanouski, A P1012 Romei, C P1758, P1795 & P1809 Romero-Muñoz, M P1514 Romero-Ruiz, A P1018 Romijn, H P1423 Romijn, J P278 & P499 Rommel, TP1402 Roncella, M P787 Roncero-Martin, R P1216 Ronchetti, S P768 Ronchi, C P34 Roncucci, L P1822 Roques, S P249 Rorato, R P1136 Ros, S P1816 Rosales, R P1847 Rosati, S P740 Rosato, M P818 Rosca, R P131 Rose, I P8 & P9 Rosellini, V P787 Rosenfeld, ROC18.4 Rosenkranz, E P1121 & P1456 Rosenwald, A P34 Roser, J P979 Roslonowska, E P79 & P93 Ross, I P82

Ross, R P53 & S57.2

Rossato, D P73

Rossetti, R OC16.2, P885 & P927 Rossi, E OC14.1 & P879 Rossi, G P1180 & P1822 Rossi, M P1792, P800 & P801 Rossi, R P783 Rossi, S P1594 Rossi, V P1419 & P803 Rossmann, HP71 Rossmeiselova, L P1231 Rossum, Ev P1077 Rostomyan, L P780 Rota, CP1796 Rotella, C P700 Roth, CP1244 Roudier, M S49.3 Rödl, W OC15.3 Rovira, S P329 & P561 Roy, I P501 & P506 Rozhinskaya, L P1515 & P780 Rozhko, A P664 Ruano, MA P359 Ruas, L P128, P1624 & P878 Rubiales de Barioglio, S P1200 Rubin, B P20, P40 & P825 Rubinfeld, H OC4.5 & P1340 Rubino, M P1389, P1484 & P252 Rubio, I P688 Rubio-Almanza, M P27 Rubio-Matin, E P199 Ruchala, MP1600 & P1661 Rudovich, N P285 Rudzinska, M OC15.5 Rueda, A P1487 Ruffilli, I P1780 Ruffin, M OC1.1 & P1404 Ruggiero, C P1034 Rughooputh, N P828 Ruiz de Adana, M P1270, P686 & P688 Ruiz de azua. T P1810 Ruiz, ROC6.2 Ruiz-Castane, E OC14.1 Ruiz-Marcellan, M P1821 Ruiz-Pino, F P1018 & P1099 Rull, K P926 Runkle, I P1149 & P640 Rusak, MP1714 Rusalenko, M P664

Ruscica, M P502

Russo, G P992 Russo, R P132 Russo, T P940 Rustemoglu, A P1273 Rusu, CP1316 Ruszniewski, P P814 Rutz. C P1007 Rüegger, K N3 Rünkorg, K P705 Ruza, I P261 Ruzehaji, N N7 Ruzic, A P1253 Ruzsa, B P877 R-Villanueva, G P554 Ryan, GP1783 Ryberg, M P78 Rybicka, B P802 Rvdén, MOC5.6 Ryska, A P1819

Sánchez, C P1645 Sánchez, IP P1066 Sánchez Sobrino, PP127 Sánchez-Martín, C P554 Sánchez-Pacheco, M P765 Saad, F P1021, P1207, P1228, P315 & S2.3 Saad, M P1105 & P510 Saatdjian, L P1317 Saba, A P250 Sabatini, S P787 Sabau, S OC3.4 Sabbaghian, N S40.1 Sabba', CP1049 Sabeckiene, N P1069 Sabino, T P390 Sabol, MP1204 Saboo, B P518, P523 & P690 Sabt, A P1303 Sacco, A P776 Sacco, LP8 Sacerdote, A P161 Sachdev, P OC3.6 & P538 Sadiku, E P649 Sadoul, J P993 Sadri, S P373 Saeger, W P1425 Saeki, T P586 Saenko, V P1813 Saez, C S56.1 Safranek, R P1622 Safraou, M P635 Saftig, P P1588 Sagan, LP1508 Saggioro, F P789 Sagkan, R P1025





