	PAPILL	ARY THYROID MICROCARCINOMA				
FOCUS	ON PREVA	ALENCE, CHARACTERIZATION AND FOLLOW-UP				
European Society		OURING A 10 YEAR TIME PERIOD				
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3 - 7 May 2014 Wrocław, Poland		introduction				

- Recent studies point to an ever increasing papillary thyroid microcarcinoma (PTMC) prevalence, with a percentage range between 20-43% of all differentiated thyroid carcinomas;
- It is many times considered an "incidental" finding discovered at final histology after thyroid resections done for benign pathology;
- Its clinical behaviour is uncertain and no consensus on its malignant potential or its treatment exists.

To characterize a cohort of patients with PTMC, with reference to clinical and pathological variables and outcomes; To evaluate the PTMC prevalence in respect to the total of thyroid cancers diagnosed in the last 10 years.

## methods

- Data from patients with histopathologic diagnosis of PTMC during a 10 year time frame (between Jan-2003 and Oct-2013) were retrospectively reviewed;
- PTMC prevalence, demographic data, clinical and histological features were retrieved and final outcome assessed at maximum 10 years follow-up.

		results					
				TYPE OF THYROID SURGERY Total thyroidectomy	n (%) 172 (79.6)		
	216 patients	Lobectomy	27 (12.5)				
THYROID CARCINOMAS n=538 PTMC n=216 PTMC PTMC PREVALENCE 40.1%	Gender: Female/ Male	184 (85%)/ 32 (15%) 57 (19-84) 57 (19-84) 57.5 (30-82)		Completion thyroidectomy	12 (5.6)		
	Age (at diagnosis, median) Female Male			Total thyroidectomy plus ganglionar neck dissection	5 (2.3)		
	PREOPERATIVE DIAGNOSIS	n	% 33 32 18	HISTOLOGICAL FEATURES OF PTM	C n (%)		
	(cytological <i>and/or</i> clinical) = Benign hyperplasia (multinodular goiter/solitary nodule) = Follicular neoplasm = Papillary carcinoma = Hurthle cell tumor = Toxic goiter/adenoma = Graves disease = "Suspicion for malignancy" = Other	71 70 36 12 4 3 8 12		Tumor size (mm) < 5 mm ≥ 5 mm Unknown Variant type Classical/ papillary Follicular Oncocytic Encapsulated Unicentricity Multicentricity	86 (40) 122 (56) 8 (4) 171 (79.2) 39 (18.1) 5 (2.3) 1 (0.5) 154 (71) 62 (29)		
				Intraglandular	195 (90)		
				Extrathyroidal extension	21 (10)		
THYROID RADIOIODINE ABLATION				Lymph node metastases	8 (4) 1 (0 5)		
<ul> <li>Radioactive iodine (RAI) ablation</li> <li>43 patients (20'</li> </ul>				Distant metastases (timus)	I (0.5)		
> Undetectable stimulated TG levels > Median RAI activity (MCi) > Median follow-up time (surgery-RAI ablation) 4.5 months (1.6-28; min-ma		9%) ax) ax)	MEDIAN	FOLLOW-UP TIME RECURRE	ENCE		



2 patients (0.9%) with cervical 3.5 yrs (1.1 mo-10.4 yrs) lymph node metastases 31% of the patients with undetectable serum TG levels Time to relapse: 2 and 3.5 yrs (<0.1 ng/mL) on the last visit

There were no deaths attributed to thyroid cancer during this period

## conclusions

- In this 10-year study, most of the diagnosed PTMC were incidentally found in benign thyroid disease (multinodular goiter);
- The relatively uneventful course of PTMC, with low rates of cervical node metastases at diagnosis and recurrence during this time, may justify a less intense follow-up.

References: Papillary thyroid microcarcinoma in Denmark 1996-2008: a national study of epidemiology and clinical significance. Thyroid microcarcinoma: A study of 900 cases observed in a 60-year period. Surgery. 2008; Lin JD et al. Increased incidence of papillary thyroid microcarcinoma with decreased tumor size of thyroid cancer. Med Oncol. 2010; Papillary Microcarcinoma of the Thyroid - Prognostic Significance of Lymph Node Metastasis and Multifocality. Cancer. 2003

I radioiodine ablation therapy

> Median follow-up time (1st-2nd RAI ablation)

7 patients (16%)

13 months (7-26; min-max)