Descriptive analysis of a series of 1567 thyroidectomies in Castilla La Mancha and its association with thyroid cancer

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OBJECTIVES

This is a retrospective, multicenter study within 8 sanitary areas of Castilla La Mancha, a region of Central Spain.

Objectives:

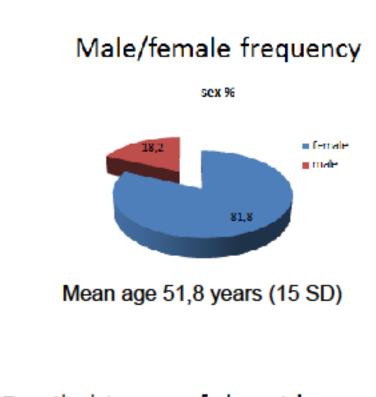
- To investigate clinical, analytical characteristics and diagnostics procedures related to thyroidectomies in our heath area
- 2. To determine clinical predictor of malignancy

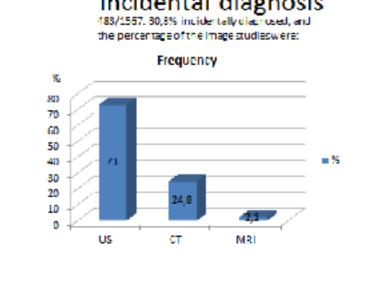
PATIENTS AND METHODS

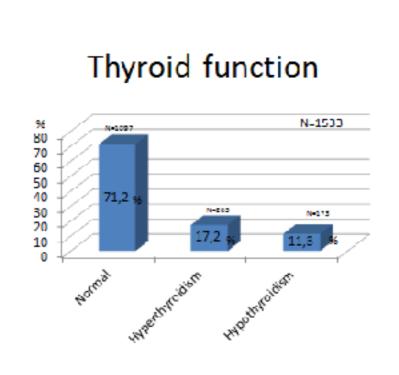
The retrospective data collection was made in a database online. Patients undergoing thyroidectomy that was made between 2010-2013 were collected.

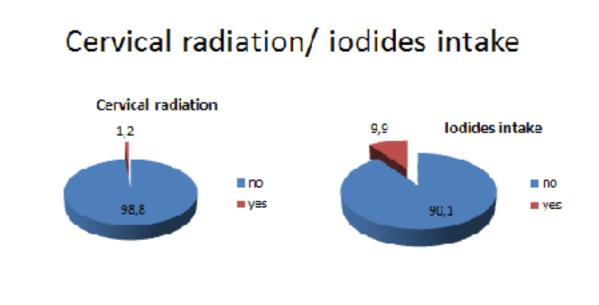
Registered variables were: sex, age at surgery, thyroid function, thyroid autoantibodies, family history of thyroid disease or thyroid cancer, cervical radiation, iodide intake, diagnostic procedures, reasons for thyroidectomy. In this work we do not describe sonographic features of the nodules. For statistical analysis SPSS (v20) was used

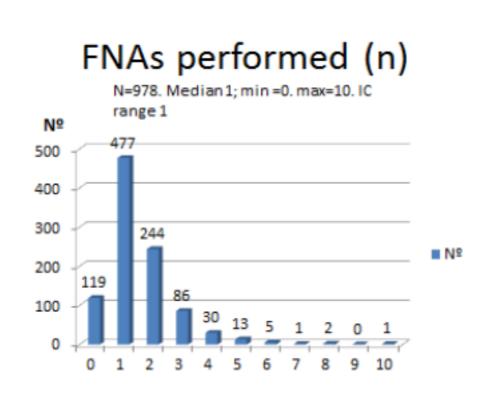
RESULTS

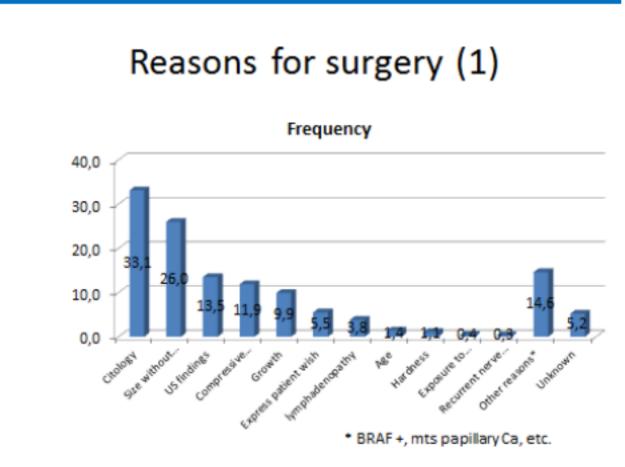


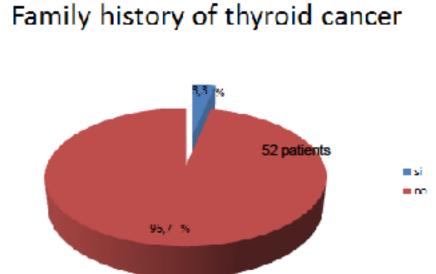


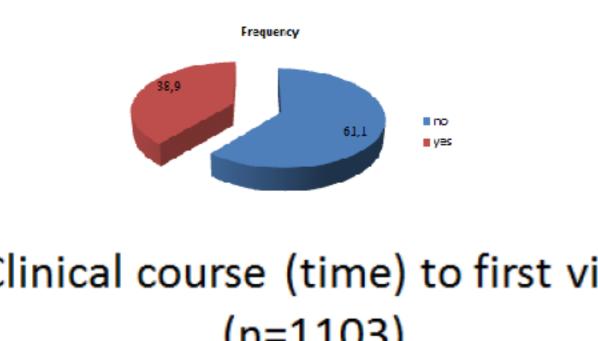




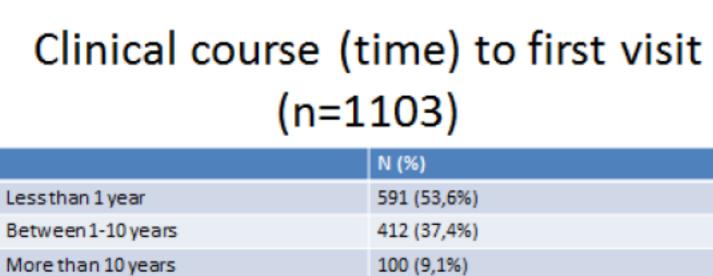


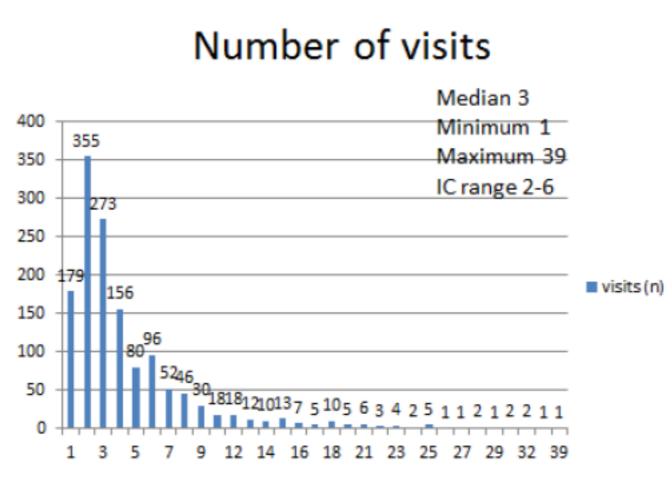


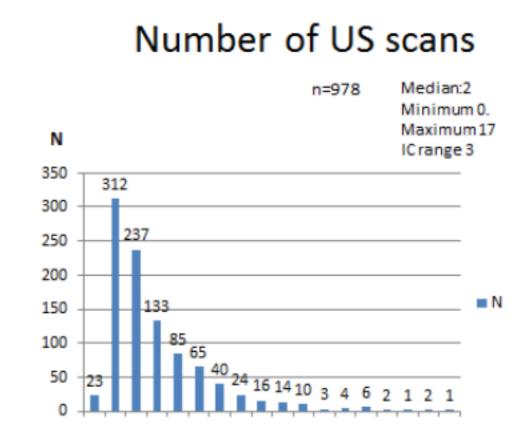


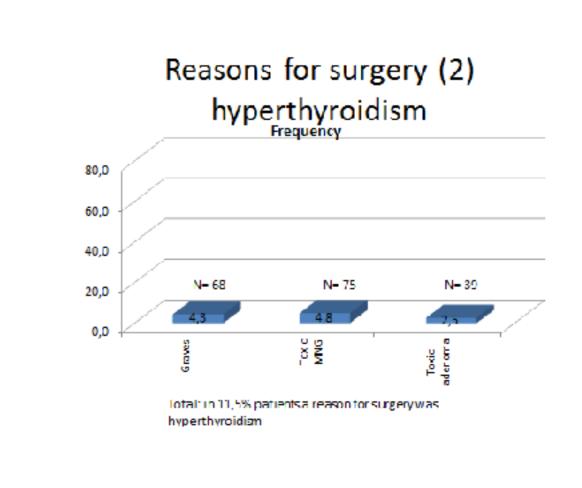


Family history of thyroid disease









Characteristics associated with thyroid carcinoma

	Malignant %	Malignant %	р	
Age	<45 y: 34,8	≥45 y: 25	<0,0001	
Sex	M: 35,1	F: 26,6	0,003	
Family history thyroid Carcinoma	Yes: 55,8	No:27,2	<0,0001	
Clinical course <1yr	Yes: 33,3	No:28,1	<0,0001	
Hyperthyroidism	Yes:19,3	No:30,1	<0,0001	
LT4 treatment (sustitutive)	Yes:37,1	No: 27,5	0,043	
Citology as indication	Yes: 52,7	No: 16	<0,0001	
US as indication	Yes:54,7	No:24	<0,0001	
Compressive symptoms	Yes: 11,3	No: 30,4	<0,0001	
Size without symptoms	Yes:13	No:33,4	<0,0001	
Hyperthyroidism (indication for surgery)	Yes:11	No:30,4	<0,0001	

Univariate analysis

Multivariate analysis

	OR (IC95%)	
Cytology as indication	3,15 (2,29-4,3) p<0,0001	
U.S. findings as indication	2,46 (1,75-3,47) p<0,0001	
Family history of Thyroid carcinoma	2,43 (1,23-4,81) p<0,010	
Male sex	1,44 (1,02-2,04) p=0,037	
No compressive symptoms	1,92 (1,15-3,33) p=0,017	
No large nodule (asymptomatic)	1,67 (1,12-2,43) p=0,011	
No incidental diagnosis	1,47 (1,03-2,08) p=0,03	
No hyperthyroidism as indication	4 (1,82-9,1) p=0,001	

CONCLUSIONS

Clinical variables may help to indicate increased risk of malignancy in thyroid nodular disease. In our work the value of cytology as surgical indication is still a valid tool.

Nodule size it's not a good predictor for thyroid cancer, in recent years it seems that younger patients with smaller thyroid nodules have been more frequently diagnosed. For these patients the role of the ultrasound is essential. In our series, patients with large nodules or larger goiters with compressive symptoms show a lower risk of malignancy.

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