

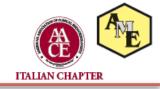


Clinical Impact of Indeterminate Category in Thyroid Nodules After New SIAPEC-IAP Classification

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Conflitti di interesse

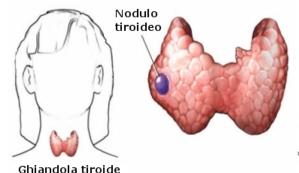


Ai sensi dell'art. 3.3 sul conflitto di interessi, pag 17 del Regolamento Applicativo Stato-Regioni del 5/11/2009, dichiaro che negli ultimi 2 anni NON ho avuto rapporti diretti di finanziamento con soggetti portatori di interessi commerciali in campo sanitario.



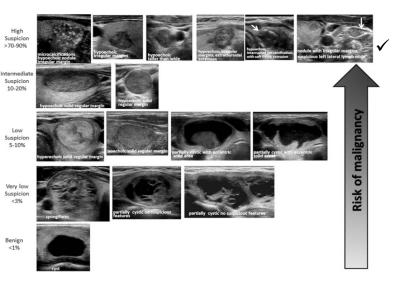
Background







- ✓ Increased detection of thyroid nodules
- ✓ About 15-20% palpable nodules and 19-67% at incidental ultrasound finding in unsuspected people



Fine-needle aspiration biopsy (FNAB): the best predictive, costeffective, safe and rapid test for discriminating malignant thyroid nodules



Material & Methods

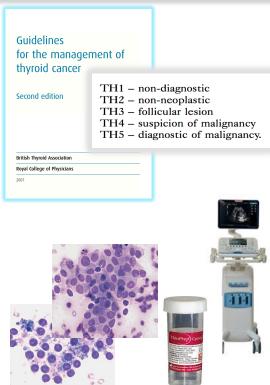


✓ The cytologic diagnoses before May 31st 2014 were made in accordance with the five diagnostic groups of the British Thyroid Association

✓ Since June 2014 the new SIAPEC-IAP Cosensus has been applied CONSENSUS STATEMENT

Italian consensus for the classification and reporting of thyroid cytology

Francesco Nardi · Fulvio Basolo · Anna Crescenzi · Guido Fadda · Andrea Frasoldati · Fabio Orlandi · Lucio Palombini · Enrico Papini · Michele Zini · Alfredo Pontecorvi · Paplo Vitti





Material & Methods



N CHAPTER

Roma, 9-12 novem

J Endocrinol Invest (2014) 37:593-599

Table 1	2013	Italian	thyroid	cytology	classification system
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Code	Diagnostic category	Expected risk of malignancy (%)	Suggested actions	
TIR1	Non-diagnostic	Not defined	Repeat US-guided FNA after at least 1 month	
TIR1C	Non-diagnostic- cystic	Low (variable on the basis of clinical findings)	Evaluate the clinical setting and/or repeat FNA	
TIR2	Non-malignant/	<3	Follow-up	
TIR3A	Low-risk indeterminate lesion (LRIL)	<10 ^a	Repeat FNA/ clinical follow-up	
TIR3B	High-risk indeterminate lesion (HRIL)	15–30 ^a	Surgery	
TIR4	Suspicious of malignancy	60–80	Surgery (consider frozen section)	
TIR5	Malignant	>95	Surgery	

^a Expected rate of malignancy for the TIR3 subcategories is mainly found on clinical experience and is only partially based on the evidence of the published data

Table 2 Comparison of the Italian classification system for thyroid cytology with the Bethesda system and the Royal college of Pathology Guidance for reporting of thyroid cytology specimens

SIAPEC- AIT2013	USA Bethesda	UK RCPath
TIR 1 Non- diagnostic	I. Non-diagnostic Cystic fluid only	Thy1/Thy1c Non-diagnostic for
TIR 1c Non- diagnostic		cytological diagnosis
cystic		Unsatisfactory, consistent with cyst
TIR 2 Non-	II. Benign	Thy2/Thy2c
malignant		Non-neoplastic
TIR 3A Low-risk	III. Atypia of	Thy 3a
ipaeterminate lesion (LRIL)	undetermined significance or follicular lesion u.s. AUS/FLUS	Neoplasm possible—atypia/ non-diagnostic
TIR 3B High-risk	IV. Follicular neoplasm or	Thy 3f
indeterminate lesion (FIRU)	suspicious for a follicular neoplasm	Neoplasm possible—
		suggesting follicular neoplasm
TIR 4 Suspicious	V. Suspicious of	Thy 4
of malignancy	malignancy	Suspicious of malignancy
TIR 5 Malignant	VI. Malignant	Thy 5 Malignant



TIR1

TIR2

TIR3

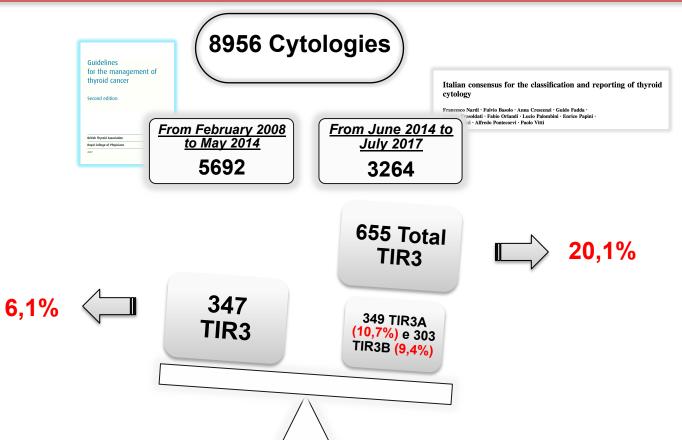
TIR4

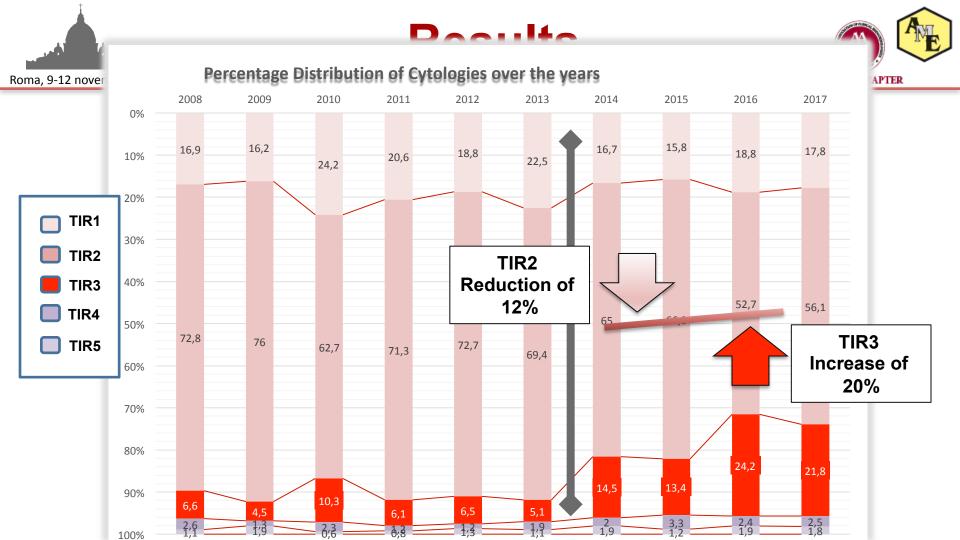
TIR5

Results

ITALIAN CHAPTER

Analysis from February 1° 2008 to July 31° 2017



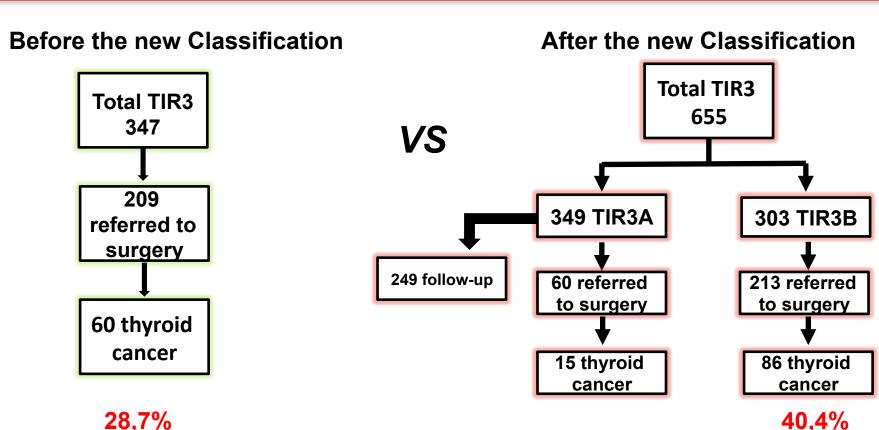




Results

ITALIAN CHAPTER

Analysis from February 1° 2008 to July 31° 2017





Conclusions



- ❖ The categories of the new Classification are in line with the major international Cytological Classifications
- Since May 2014, TIR3 cytologies have increased statistically significantly in our series, with a simultaneus reduction in TIR2 cytologies

❖ We found an increased cancer rate in TIR3B category: <u>about 40%</u>, compared to the expected 15-30%

❖ The new Classification is an advancement in selecting high risk patients, with a cancer rate of 40,4% in TIR3B nodules, compared to the previous 28,7% of the *old* TIR3.



Conclusions



Thank You

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