MALIGNANCY RISK STRATIFICATION OF THYROID NODULES BY TIRADS. CORRELATION WITH CYTOLOGICAL RESULTS

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INTRODUCTION:Only a minority of thyroid nodules are malignant, therefore is a need to establish some basic criteria to select nodules for FNAB to achieve a more rational use of resources. It has been proposed a system to stratify risk malignancy depending on sonographic characteristics: TIRADS. An evolution of TIRADS system is used in the British Thyroid Cancer Guide (BTA).

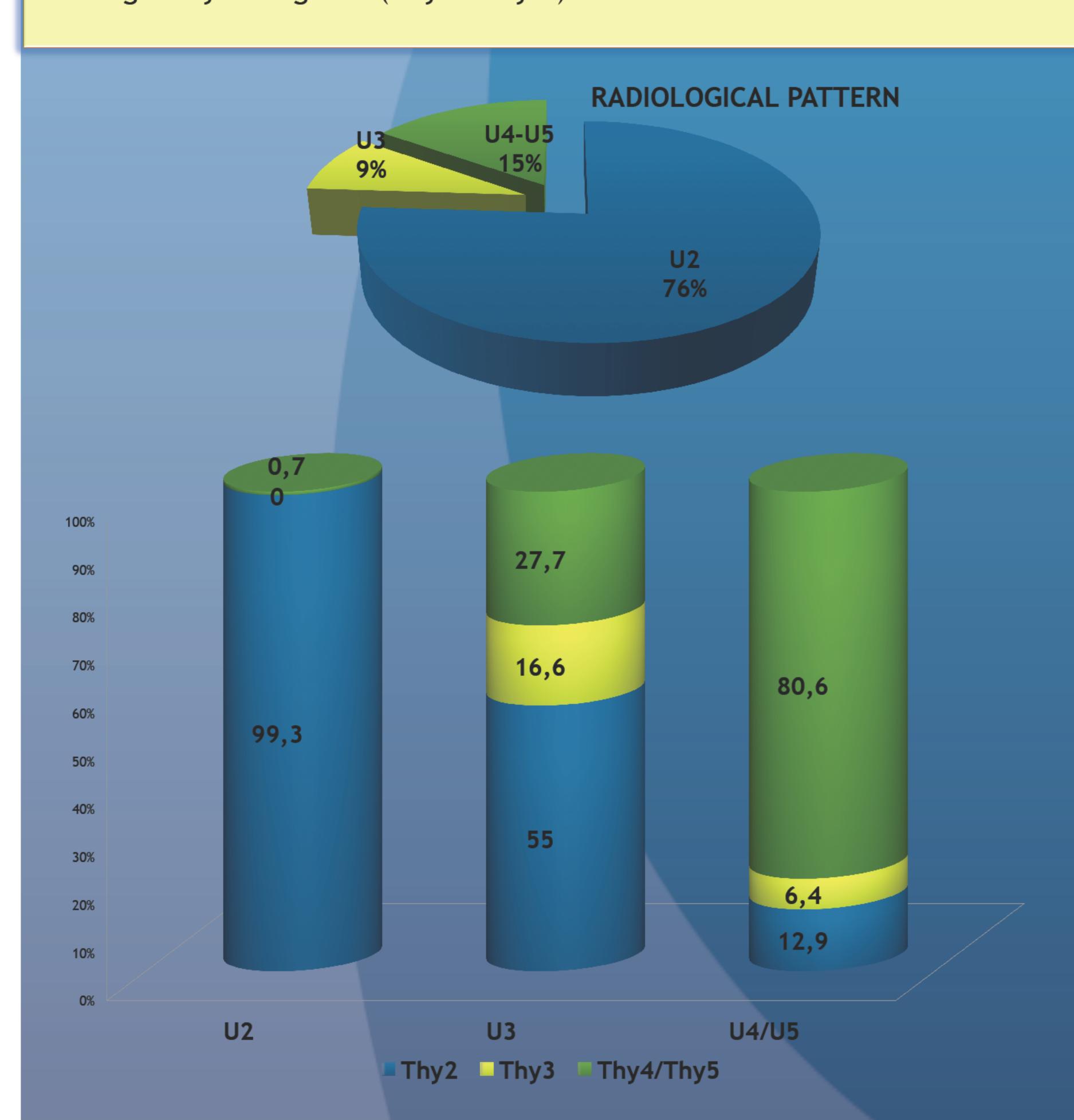
OBECTIVE: The main objective is to determine whether an adequate correlation is present between the risk category of TIRADS / BTA system and cytological results.

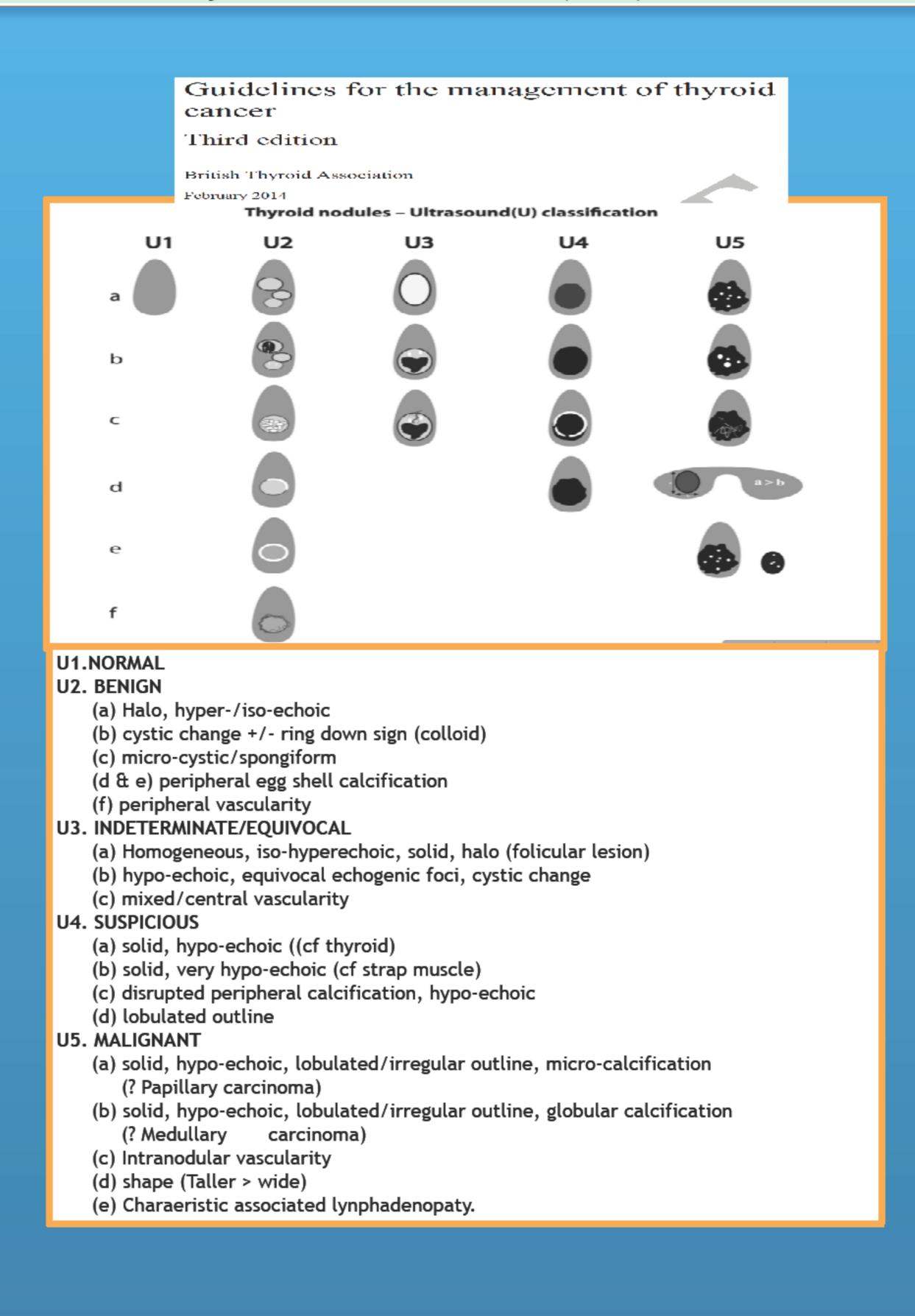
MATERIAL AND METHODS: Retrospective, observational study in which 230 thyroid nodules are analyzed during 2014. All nodules are sudied by the same profesional, experienced in US guided FNAB, who provides a risk category from the BTA clinical guide to each nodule.

Afterwards we correlate it with cytological results, which are expressed with Bethesda classification.

RESULTS:

- Mean age of the sample was 59.2 ±5.6 years. 71.3% were women and 28.7% men.
- 204 valid cases are analyzed. Nodules are organized into 3 groups according to the radiological characteristics: Benign pattern (U2), probably benign (U3) and suspect / probably malignant (U4/U5).
- Cytological results are grouped into three categories for the statistical analysis (Benign (Thy 2), AUS/FLUS (Thy 3) and Suspicious for malignancy/malignant (Thy 4/Thy 5).





	STATISTICS
SENSITIVITY	75% (95% CI:79-87.85%)
SPECIFICITY	97.62% (95% CI: 94.01-99.3%)
PPV	87.1% (95% CI: 70.15-96.29%)
NPV	94.8% (95% CI: 90.35-97.59%)
INTRAOBSERVER KAPPA COEFFICIENT	0.69 (p < 0.000)

CONCLUSIONS:

The risk stratification system TIRADS / BTA is a useful tool to improve the characterization of nodules and decide which of them must be submitted to FNAB, avoiding unnecessary procedures.



