## PE 118



# **International Surgical Week**

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# The Simultaneous Occurence of Papillary Thyroid Cancer and Follicular Thyroid Cancer: a Population Based; Propensity-Score Matched Analysis

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## Introduction

Multiple primary cancer is a rare entity and is characterized by the presence of two or more distinct cancers within patients. However not much is known when both types of papillary thyroid cancer (PTC) and follicular thyroid cancer (FTC) occur simultaneously in the same patient (co-FTC/PTC).

#### **Objectives**

- To explore disparities in tumor characteristics.
- To assess potential differences in survival rates in such cases.

#### Methods

An observational study was performed on PTC and FTC patients using Surveillance Epidemiology and End Results data (2000-2020). Propensity score matching (PSM) was based on age, sex, race, and histological subtype. Overall disease-specific survival was calculated.

## **Results**

#### **Table 1.** Baseline patient characteristics

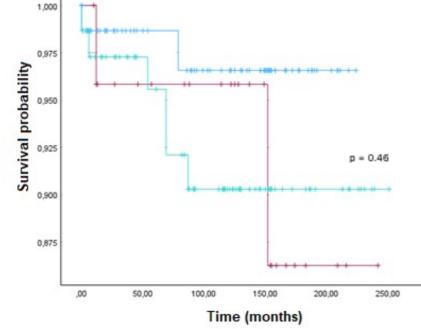
Variables	FTC (n=75)	Co-FTC/PTC (n=25)	PTC (n=75)	P-value FTC vs FTC/PTC	P-value PTC vs FTC/PTC	
Age (years)	54 (44-67)	56 (44-66)	62 (44-68)	0.957	0.376	
Female sex (n,%)	54 (66.7)	18 (72.0)	48 (64)	0.807	0.623	

## **Table 2.** Tumor characteristics

Variables	FTC (n=75)	Co-FTC (n=25)	P-value	PTC (n=75)	Co-PTC (n=25)	P-value
Extrathyroidal extension	9 (16.4)	4 (21.1)	0.729	11 (22.9)	2 (9.1)	0.204
Mutlifocality	8 (18.4)	3 (17.7)	>0.999	22 (52.4)	3 (18.8)	0.036
Positive lymph nodes	1 (2.6)	1 (7.1)	0.462	8 (19.5)	0 (0.0)	0.093
Distant metastasis	3 (7.0)	1 (6.7)	>0.999	1 (2.6)	1 (6.7)	0.482

FTC co-FTC/PTC

300.00



#### Conclusion

- No differences tumor characteristics between the cohorts
- More research is warranted, emphasizing the need for careful consideration when determining the appropriate surgical approach for patients with concomitant PTC and FTC.

Fig. 1 Disease-specific survival of FTC, co-FTC/PTC and PTC



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 The simultaneous presence of both PTC and FTC is rare.

- The concurrent occurrence of these tumors does not appear to impact
  - overall disease-specific survival.