Differentiated Thyroid Cancer: Tendency changes from 1970 to 2012 in the southwest of Spain

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There is a specific unit specialized in Differentiated Thyroid Cancer (DTC) at the Endocrinology and Nutrition Department (END) from “Virgen del Rocio” University Hospital (Seville, Spain); this unit’s area of influence comprises the province of Huelva and Seville. Due to environmental pollution, Huelva has higher incidence of certain types of cancer.

**Objective:**
1. To evaluate the changes in the clinical presentation of DTC through 44 years in a cohort of patients admitted to a specific unit specialized in this disease.
2. To analyze possible differences between patients from Huelva and Seville.

**Material & Methods**
Descriptive retrospective study, including all patients diagnosed with DTC admitted to the END from January 1970 to March 2014. Quantitative variables are expressed as Median [Interquartile range], and qualitative variables as percentage (n patients). A p value of <0.05 was considered as statistically significant. All the results were standardized using specific population records from the National Institute for Statistics for each time period.

**Table 1. Study Population**

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<th>Age at diagnosis</th>
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<tr>
<td>n=1289</td>
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<tr>
<td>Males (n=255)</td>
<td>42 [32.75-56]</td>
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<tr>
<td>Females (n=1034)</td>
<td>43 [33-55]</td>
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**Standardized DTC incidence rates per sex**

**DTC distribution per age group and sex**

**Standardized DTC incidence rates in Huelva and Seville**

**Standardized DTC histology per province and year**

**DTC: Tumor staging**

**DTC recurrence risk per year in Huelva**

**DTC recurrence risk per year in Seville**

**Conclusions:**
In our series, DTC incidence is steadily rising over the last 40 years, mainly due to an increase in low-risk PTC’s (T1, 2 y 3, N0 and M0) in the age groups between 21-45 and 45-65 years. We found no significant differences between provinces in terms of incidence and/or aggressiveness, although we observed that in the province of Huelva (More polluted) DTC tends to have higher risk of recurrence.