

Cite this as: Xiao-chun MAO, Wen-qiao YU, Jin-biao SHANG, Ke-jing WANG, 2017. Clinical characteristics and treatment of thyroid cancer in children and adolescents: a retrospective analysis of 83 patients. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, 18(5):430-436.
<http://dx.doi.org/10.1631/jzus.B1600308>

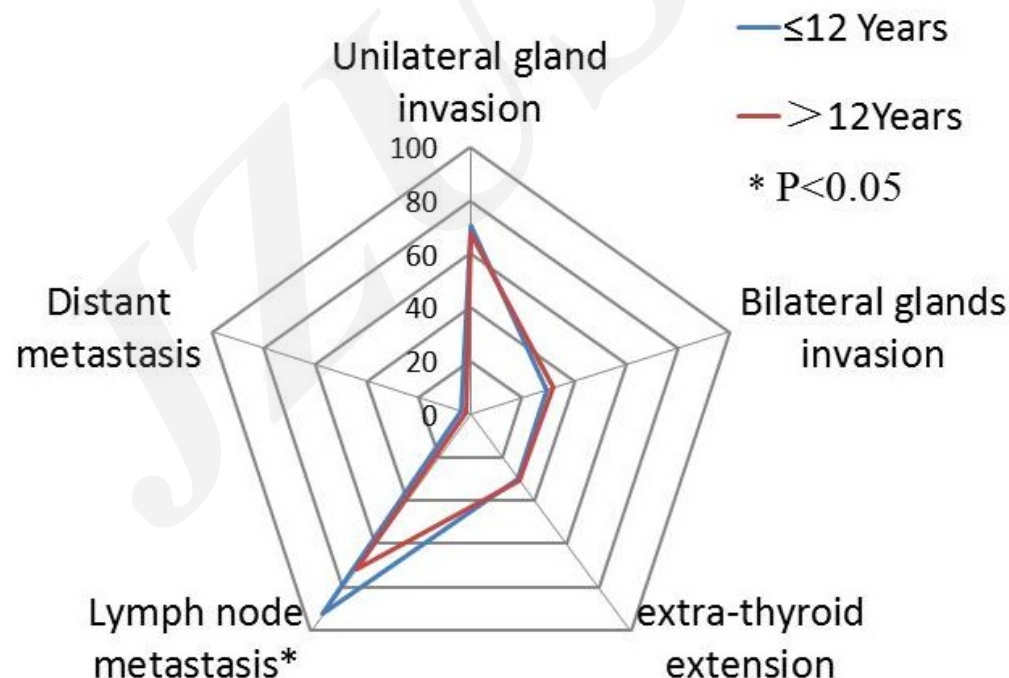
Clinical characteristics and treatment of thyroid cancer in children and adolescents: a retrospective analysis of 83 patients

Key words: Children and adolescents; Thyroid cancer; Clinical characteristics; Surgical treatment

Research Summary

This study mainly focused on the analysis of clinical characteristics, treatment and prognosis of thyroid cancer in children and adolescents.

- Analyzed the clinical characteristics and prognosis
- Contribute to clinical decision making



Innovation points

- **Introduction:** Children and adolescent thyroid cancer has a different clinical presentation and course than in adults. we showed our retrospective clinical materials in 83 patients up to 18 years of age, who underwent surgical therapy at our institution for diagnosis of thyroid cancer, and analyzed the clinical features, effectiveness of our surgical approach, radioactive iodine (RAI) therapy, thyroxin suppressive-substitutional treatment and long-term outcome of the patients
- **Summary** 83 cases were included and divided into two groups according to the age: patients ≤ 12 years old and > 12 years of age. The total lymph node metastasis rate was 78.31%. The patients ≤ 12 years of age showed a higher rate of lymph node metastasis than the older .The female incidence rate in older group was higher than younger group. There were no significant differences in intra-thyroid and extra-thyroid extension, distant metastasis and survival rate between the two groups.
- **Emphasis:** Childhood thyroid cancer has a good prognosis, and the surgery is the most effective method for treatment. Choosing reasonable surgery method and postoperative comprehensive treatment can achieve satisfactory curative effect and survival rate

Innovation points

A series of comprehensive tables were generated to summarize the clinical features, surgical procedures, pathological type and pTNMclassification.

Table 1 | Patients' basic characteristics.

Table 2 | 83 cases of surgical procedures

Table 3 | 83cases of pathological type and encroachment scope.

Table 4 | The pTNM classification and clinical stage of the patients.

Table 5 | Comparison of the invasive capacity of thyroid carcinoma between two groups.