Ectopic thyroid is a rare embryological aberration of the thyroid descend in children. We present a case of ectopic thyroid simulating a thyroglossal cyst in a two year old boy, who was diagnosed intra-operatively. The patient was treated with L-thyroxine. We review the embryological features and the approach to the diagnosis and management of this congenital anomaly.
vascular. The pretracheal area was explored and no thyroid tissue was found in the normal anatomical location. Therefore, suspicion of ectopic thyroid was raised, the mass was left undisturbed and biopsy was taken, which revealed a normal thyroid tissue. Postoperatively, he was clinically euthyroid and thyroid function test showed increased thyroid stimulating hormone and normal free thyroxine-4. After a one month therapy with L-thyroxine, thyroid function test was normalized and the swelling had significantly reduced in size. Thyroid scan was performed thereafter looking for other functioning thyroid tissue, which showed only a single midline sublingual ectopic thyroid tissue (Fig 1,2).

**DISCUSSION**

Ectopic thyroid is an uncommon embryological aberration of the thyroid descend and characterized by the presence of thyroid tissue in a site other than its usual pretracheal region. It occurs along the path of descent of the developing thyroid primordium from the foramen cecum. Most commonly, the gland completely fails to descend and presents as a lingual thyroid and this is the only thyroid tissue in 70% of cases. This is in contrast to a sublingual thyroid; in which case, there is incomplete descent of the gland where the final resting point may be high in the neck or just below the hyoid bone. When the thyroid gland is located in its normal position in the lower neck, fragments of the thyroid tissue representing ectopic thyroid may still be found anywhere along its course.

More than 400 cases of lingual thyroid have been documented in the literature, but the reported cases of sublingual thyroid is substantially lower. Ectopic thyroid is subject to same diseases as the anatomically correctly positioned thyroid, such as nodular hyperplasia and rarely neoplastic degeneration. Asymptomatic mass lesion is the usual presentation of ectopic thyroid, but obstructive symptoms, hypothyroidism and very rarely hyperthyroidism have been documented.

The inadvertent removal of ectopic thyroid gland that was mistaken for thyroglossal duct cyst leading to significant hypothyroidism has been reported in the literature. Therefore, differentiation of these two conditions is extremely important. To prevent this problem, routine preoperative identification of the normal thyroid gland by an ultrasound is advocated in all cases of thyroglossal cyst. When the thyroid gland can be identified in the normal position, coexistent ectopic thyroid is seldom found. Thyroid scintigraphy is the best method in identifying all sites of functioning thyroid tissue, but routine thyroid scan is not necessary. It is justified in cases of ectopic thyroid.
thyroid and where normally located thyroid gland cannot be detected. Thyroid function test is an essential test and should be included in the evaluation of all cases of ectopic thyroid.

Many authors agree that hormonal suppressive therapy and preservation of the ectopic tissues are the primary goals in the treatment. Surgery is reserved for those cases of failure of medical therapy in symptomatic patient or in cases of rare malignant degeneration.

The patient presented with a asymptomatic mass mimicking thyroglossal cyst and the preoperative diagnosis of thyroid ectopia was not suspected. Thyroid function test was done postoperatively and the result was consistent with compensated hypothyroidism. He would have avoided unnecessary surgery if a routine preoperative ultrasound study looking for the normal thyroid gland had been done.

CONCLUSION

Ectopic thyroid, though rare, should be one of the differential diagnoses in the midline neck masses in children. A preoperative ultrasound is helpful in distinguishing thyroglossal cyst from this congenital anomaly and prevents inadvertent removal of what may be the only thyroid tissue in these patients. We presented a case of sublingual ectopic thyroid simulating a thyroglossal cyst, which was diagnosed intraoperatively and treated with hormonal therapy.

REFERENCES

demonstration of a normal thyroid gland excludes ectopic thyroid in patients with