# Absent Manubrium Bone, a Case Report of 14yrs Old Boy

**Shehzad khan[1*], Sanya Hadi[2], Anabhayat[1], Asif Iqbal[3], Ishaq[3] and Asma Hadi[2]**

[1]Consultant Radiologist, Saidu Teaching Hospital, Pakistan

[2]Swat Medical College, Pakistan

[3]Medical officer Radiology, Saidu Teaching Hospital, Pakistan

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[*]**Corresponding author:** Shehzad Khan, Consultant Radiologist, Saidu Teaching Hospital, Pakistan, E-mail: shehzadkaan@gmail.com

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## Abstract

A 14yrs old boy presented to Radiology department of Saidu Teaching hospital swat for ultrasound of a swelling in the region of lower part of neck present since birth.

Swelling was appreciated on expiration Figure 1, and on inspiration there was a groove formation Figure 2.

Upon ultrasound there was direct visualization of arch of aorta and its branches (Figure 3 and 4).

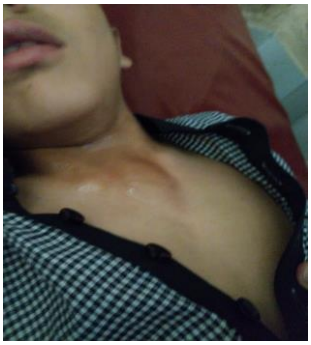

**Figure 1:** Swelling was appreciated on expiration.

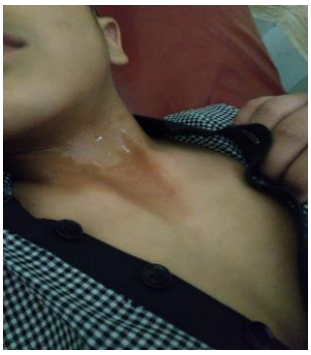

**Figure 2:** Suspicion for absent sternum was made. For further evaluation, chest Radiograph with AP was taken and it showed absent of manubrium.

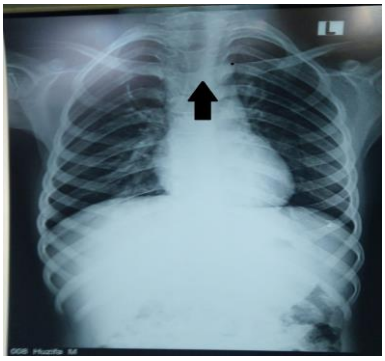

**Figure 3:** Medial ends of clavicles were suspended on lateral neck view.

**Figure 4:** Absent manubrium bone.

## Discussion

Congenital absence of sternum is a rare entity. Which may or may not be present with other Anomalies [1,2]. The associated anomalies can be in pericardium, heart, diaphragm, anterior abdominal wall (Cantrell`s pentology) and sternal fusion as well as Poland syndrome [3] Other risks could be mediastinal injury, hypothermia and fluid losses.

Surgically repair of sternal clefts should be done in neonatal period due to high compliance of chest wall and prevent further complications mentioned earlier [1,2]. As the patient ages and the chest wall compliance decrease, closure can become progressively difficult as venous return and lung compliance are increasingly compromised [1,2]. Osteochondroplasty is preformed to fulfill the goal of right heart function and manipulating ventilation and oxygenation to account for decreases.

## References

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