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## Introdution

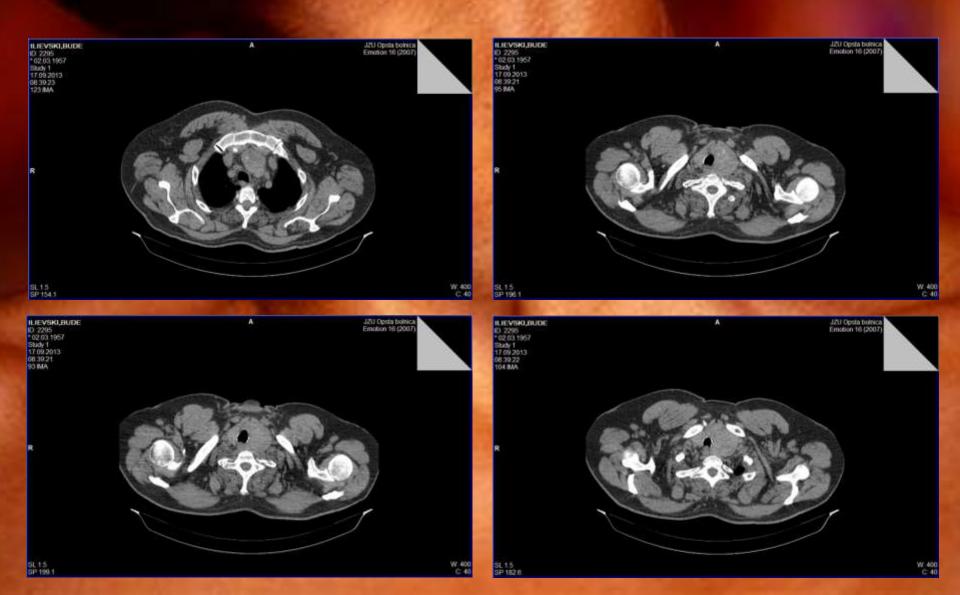
Goiter is an enlargement of the thyroid gland. The thyroid gland is a small, butterfly-shaped gland located in the neck, below your Adam's apple.

Thyroid hormones influence such bodily functions as a person's body temperature, mood and excitability, pulse rate, digestive functions, and other processes necessary for life. Over 90.54% cases of goitre are caused by iodine deficiency.

Retrosternal goitre is usually referred to as enlarged thyroid gland with greater than 50% of its mass below the thoracic inlet. It has a clinical importance because its compressive symptoms may cause diagnostic problems and the selection of surgical approach is sometimes difficult.

If the goiter extends into the chest or is very large, a CT scan is used to evaluate the size and extent of the goiter.

# Goiter of left lobe of thyroid gland

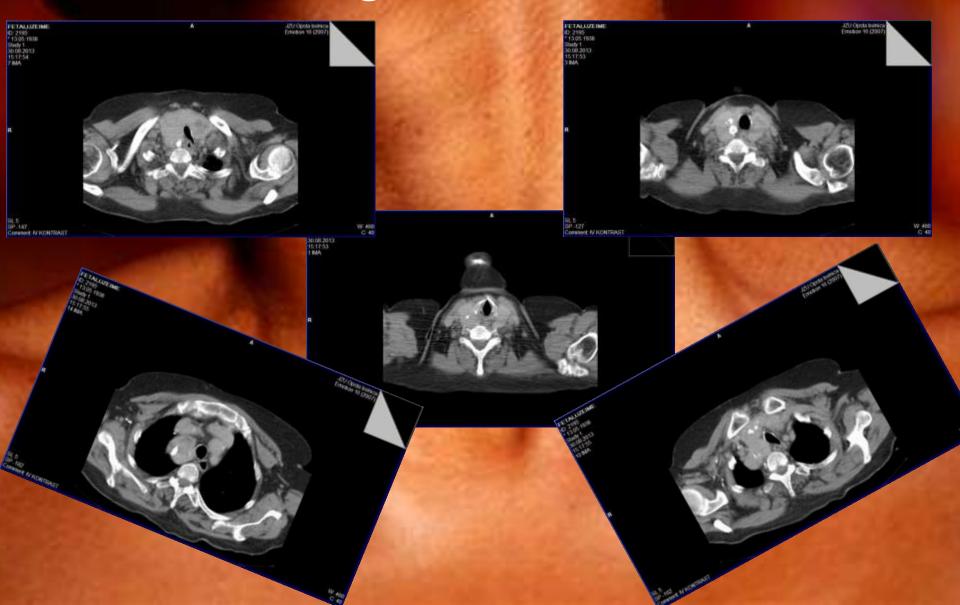


## Material and methods

2011 and half of 2013 we made 5000 CT scan examinations(Simens CT), which 43 CT scans of neck organs and chest. CT scan obtained with the arms by the side are more accurate for determining substernal extent of goiter than when the arms are overhead, a position usually used in chest CT



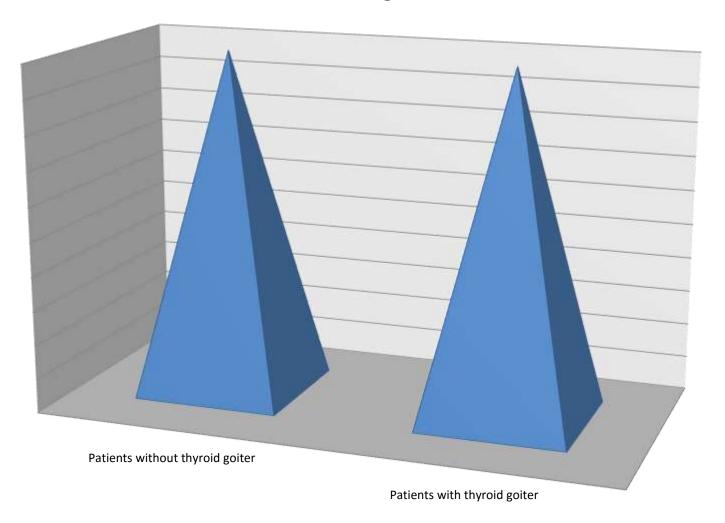
# Retrosternal goiter with calcifications



#### Results

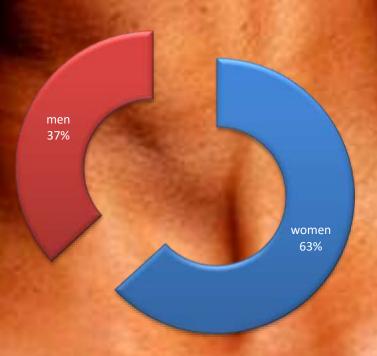
We found 19 thyrod goiters. (44.2%) 7 patients (36.8%) were men, 12 (63.2%) were women.9 patients (47.36%) have retrosternal gotre.

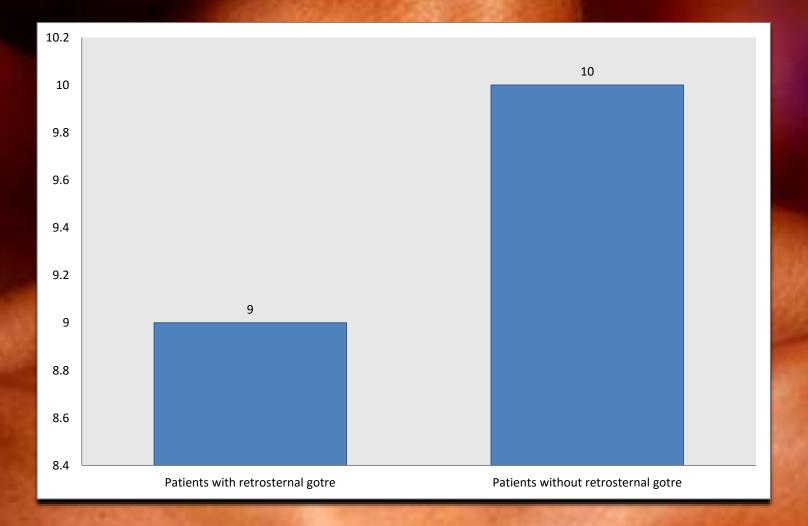
#### CT scans of neck organs and chest



	Patients without thyroid goiter	Patients with thyroid goiter
■ Series1	24	19

#### Sex of patients with thyrod goiters





### Conclusion

Suspected retrostenal goitre should be investigated with CT scan to assess the degree of extension into the chest and to determine the extent and degree of tracheal (windpipe) narrowing and diplacement. The radiologist provides an accurate account of the substernal extent of the mass and describes its impact on the trachea, esophagus, and vascular structures.