

Turkish Journal of Medical Sciences

Turkish Journal

of

Medical Sciences


Influence of Cigarette Smoking on Thyroid Gland Volume: An Ultrasonographic Approach

Fatma Gül AKSOY

Özcan KESİM

Radiology Clinic, Ankara Research and Training Hospital, Ankara - Turkey

Abstract: The aim of the present prospective study was to investigate the influence of smoking on ultrasonographically determined thyroid gland volume and echo-texture in a large randomly selected group of 500 healthy subjects of both sexes from a non-iodine deficient area. An accurate ultrasonographic technique and the Brunn method were used to determine the thyroid volume of each volunteer. The examiners had no idea of the smoking habits of the volunteers. In 257 non-smokers the mean value of the right thyroid lobe volume and the left thyroid lobe volume were 7.97 ± 5.27 ml and 6.94 ± 4.82 ml respectively, whereas they were found to be 8.68 ± 5.97 ml and 7.03 ± 3.05 ml respectively in 243 smokers. Thyroid gland volume was higher in male and female smokers than in non-smokers ($p > 0.05$). Smoking does not present a significant heightening effect on mean thyroid gland volume in smokers and has no influence on the echogenicity or echo-texture of the thyroid gland.

 [Keywords](#)

 [Authors](#)



medsci@tubitak.gov.tr

Key Words: Thyroid, Thyroid gland volume, Smoking, Ultrasonography

[Scientific Journals Home Page](#)

Turk J Med Sci 2002; **32**(4): 335-338.

Full text: [pdf](#)

Other articles published in the same issue: [Turk J Med Sci, vol.32,iss.4.](#)