

RISK FACTORS FOR TINNITUS IN 37,692 PATIENTS FOLLOWED IN GENERAL **PRACTICES IN GERMANY**

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BACKGROUND:

Tinnitus is frequently associated with a major hearing handicap, which has a significant impact on the quality of life of patients.

AIMS:

The goal was to analyze risk factors for tinnitus in patients followed in general practices in Germany.

METHODS:

Patients who had received a first tinnitus diagnosis in one of 928 general practices between January 2014 and December 2017 were included in this study. Controls without a tinnitus diagnosis were matched (1:1) to tinnitus cases by age, sex, index year, and physician. In total, 18,846 patients with tinnitus and 18,846 matched controls without tinnitus were included in the present study. Potential risk factors for tinnitus included in the present study were diseases of the ear, diseases of the upper respiratory tract, mental disorders, diseases of the nervous system, endocrine diseases, diseases of the circulatory system, and hemolytic anemias. A multivariate logistic regression with stepwise selection was used to analyze the association between defined diagnoses and tinnitus.

RESULTS:

A total of 20 diseases were significantly associated with tinnitus. The five diagnoses displaying the strongest effect were vestibular neuronitis (odds ratio [OR]=3.29, 95% confidence interval [CI]: 1.56-6.90), Menière's disease (OR=3.23, 95% CI: 1.78-5.86), Eustachian salpingitis and obstruction (OR=2.51, 95% CI: 1.72-3.67), presbycusis (OR=2.27, 95% CI: 1.93-2.67), and otalgia and ear effusion (OR=1.99, 95% CI: 1.56-2.53).

CONCLUSIONS:

Tinnitus was associated with a wide range of conditions, in particular disorders of the ear.

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If you would like to read any of the studies in its entirety, please, contact us to obtain the full version of a publication. Also, our research director is at your disposal if you have any further questions.

Thank you for your interest!