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Association between *Helicobacter pylori* infection and serum thyroid stimulating hormone in the National Health and Nutrition Examination Survey 1999–2000

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Objective: Current evidence on the associations between plasma thyroid stimulating hormone and *Helicobacter pylori* infection is conflicting. Therefore, our study aimed to examine TSH in relation to *H. pylori* infection.

Methods: Based on the US National Health and Nutrition Examination Survey (NHANES) 1999–2000, a cross-sectional study was conducted with 948 participants aged 30 to 85 years. The associations between *H. pylori* seropositivity and TSH were evaluated using binary logistic regression models. A subgroup analysis stratified by sex, age, and body mass index was conducted.

Results: A higher serum TSH level was found in subjects with *H. pylori* seropositive than in subjects with *H. pylori* seronegative. A significant positive association was found between *H. pylori* seropositivity and TSH with increasing quartiles of hormonal levels in univariate regression models (Q4 vs Q1: OR = 1.659; 95% CI, 1.152–2.389) and in multivariate regression models (Q4 vs Q1: OR = 1.604; 95% CI, 1.087–2.367). In stratified analyses, the adjusted association of serum TSH with *H. pylori* seropositivity was statistically significant in male (Q4 vs Q1: OR = 1.894; 95% CI, 1.109–3.235), normal BMI (Q4 vs Q1: OR = 1.894; 95% CI, 1.109–3.235), overweight (Q4 vs Q1: OR = 2.124; 95% CI, 1.047–4.308), obese (Q4 vs Q1: OR = 0.429; 95% CI, 0.220–0.837), and age over 60 years (Q4 vs Q1: OR = 1.999; 95% CI, 1.118–3.575).

Conclusion: High TSH levels were associated with *H. pylori* infection, especially among male, overweight and elderly adults.

KEYWORDS

thyroid stimulating hormone, TSH, *Helicobacter pylori* infection, NHANES, CDC

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Behavioural Change Colette Browning, Shane A. Thomas, 2006-01-04 Behavioural Change provides a comprehensive overview of what is known about our ability to change behaviour of people across a wide range of domains including smoking, physical activity and exercise, eating and nutrition, sexual behaviour, drugs and alcohol use, sleep, crash and injury prevention, depression, gambling and self-management of chronic illness. It not only reviews the evidence concerning these issues but also provides original insights into how effective and sustainable intervention programs may be designed and delivered to address them. The main emphasis of the book is on linking research knowledge, i.e. the evidence base and its translation into effective and sustainable programs. State of the art reviews are presented in an accessible but authoritative manner. The emphasis

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Novel Food and Feed Safety Safety Assessment of Foods and Feeds Derived from Transgenic Crops, Volume 1 OECD,2015-04-03 These science based consensus documents contain information for use during the regulatory assessment of food feed products of modern biotechnology i e developed from transgenic crops

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