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Zhengyu Zhang,
Nanjing Medical University, China

*CORRESPONDENCE
Yong Xie
xieyong_ffshoncu@163.com

[†]These authors have contributed
equally to this work and share
first authorship

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

Jinyun Wang^{1,2,3*}, Dingwei Liu^{1,2,3*} and Yong Xie^{1,2,3*}

¹Department of Gastroenterology, Digestive Disease Hospital, The First Affiliated Hospital of Nanchang University, Nanchang, Jiangxi, China, ²Department of Gastroenterology, The First Affiliated Hospital of Nanchang University, Nanchang, Jiangxi, China, ³Department of Gastroenterology, Jiangxi Clinical Research Center for Gastroenterology, The First Affiliated Hospital of Nanchang University, Nanchang, China

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

Nutrition 1999 2000 Edition

**Adrianne Bendich, Richard J.
Deckelbaum**



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Nutraceuticals for Prenatal, Maternal, and Offspring's Nutritional Health Priyanka Bhatt, Maryam Sadat Miraghajani, Sarvadaman Pathak, Yashwant Pathak, 2019-12-23 Although there is an increasing number of pregnant individuals taking nutraceuticals to maintain good health many gaps exist in the knowledge base These nutraceuticals might

be involved in a wide variety of biological processes and the biological and epidemiological findings of relevant studies should be examined and analyzed

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Advance Data from Vital & Health Statistics of the National Center for Health Statistics ,1976

Resources in Education ,2001

Community Nutrition Gail C. Frank,2008 This graduate level community nutrition textbook presents a conceptual framework for understanding the course of health and disease and matching community nutrition or applied nutrition epidemiology to the model

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 upon transfer to programs is very useful for practitioners and students For all topics the following questions are posed What is the scope of the problem within the international communities What approaches are typically used to prevent or treat it What is the evidence as to the most effective approaches to prevention and treatment What is the performance of these approaches in terms of prevention diversion and full or partial recovery for the short and long term

Child Nutrition and WIC Programs Joe Richardson,Donna Viola Porter,Jean Yavis Jones,2004 About a dozen federally supported child nutrition programs and related

activities including the Special Supplemental Nutrition Program for Women Infants and Children the WIC program reach over 36 million children and almost 2 million lower income pregnant and postpartum women The School Lunch and School Breakfast programs provide cash subsidies to participating schools and residential child care institutions RCCIs for all meals they serve larger subsidies are granted for free and reduced price meals served to lower income children The Child and Adult Care Food Program CACFP subsidises meals and snacks served by child care centres and day care homes in centres higher subsidies are given for meals snacks served to lower income children while subsidies for homes generally are not varied by children s family income but are larger for homes in lower income areas or operated by lower income providers Schools RCCIs and other public and private non profit organisations operating programs for children also can receive subsidies for snacks and in some cases meals served in after school and other outside of school settings The Summer Food Service Program subsidises food service operations by public and private non profit sponsors in lower income areas during the summer all meals snacks they serve are subsidised generally without regard to individual children s family income The Special Milk Program operates in schools and RCCIs without a lunch program and subsidises all milk they serve All these subsidies are inflation indexed and are paid only where the subsidised meals snacks meet federal nutrition standards In addition to cash aid many providers receive food commodities from the Agriculture Department at a set value per meal and may receive bonus commodities from stocks acquired for agricultural support purposes Grants also are made to help cover state administrative expenses And the WIC program provides nutrition services and tailored food packages to lower income pregnant breastfeeding and postpartum women infants and children who are judged to be at nutritional risk Other significant federal programs activities include a WIC farmers market nutrition program support for a Food Service Management Institute and initiatives to improve meal quality food service and safety

Nutritional Concerns of Women, Second Edition Dorothy Klimis-Zacas, Ira Wolinsky, 2003-08-13 Women s health and nutrition concerns have moved to the forefront of research with the mandate by the National Institutes of Health to include women in formerly male only studies assessing responses to diet and disease This second edition of a popular and highly praised resource provides new research results that detail the prevalence of and different manifestations of diseases in women With more contributions by leading authorities Nutritional Concerns of Women Second Edition updates the knowledge base of nutrition and health interactions unique to women through the life cycle It includes new chapters on obesity diabetes thyroid diseases and musculoskeletal and rheumatic diseases Additionally it covers societal influences nutrition in the adolescent female menopause and vegetarianism This new awaited edition also examines the roles that gender and culture play on nutrition Equally useful to the dietitian clinician physician researcher student or educated layman this useful and practical book provides you with a wealth of information Nutritional Concerns of Women Second Edition facilitates nutrition recommendations for women and helps women integrate health issues and nutrition into guiding principles for everyday life

Public Health Nutrition Natalie

Stein,2014-03-13 Issues related to nutrition are among the most pressing public health concerns in modern times Worldwide malnutrition affects nearly 1 billion individuals or more than one in seven people Many Protein energy malnutrition and micronutrient deficiencies play roles in more than half of all childhood deaths Effects of malnutrition include mortality decreased economic productivity morbidities such as blindness and stunting and development of chronic diseases With a unique focus on Global Health this book is a comprehensive introduction to Public Health Nutrition Designed for MPH programs this book will prepare students to become successful global public health professionals with a clear understanding of the critical need for public health nutrition programs around the globe Unlike other texts of its kind Public Health Nutrition Principles and Practice for Community and Global Health offers a unique focus on nutrients Readers will come away with a solid understanding of the specific roles of nutrients including macronutrients and the most relevant micronutrients enabling them to be more effective in improving public health nutrition With 19 chapters divided into 6 parts this book covers Nutrition around the World Policy and Public Health Nutrition Hunger and Malnutrition Maternal and Child Nutrition Nutritional Scenes in Developing Nations Nutrition and the Environment

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

Preventive Nutrition Adrienne Bendich,Richard J. Deckelbaum,2001-03-06 Nutrition has been recognized as a major determinant of health for centuries Traditionally nutritional sciences have primarily targeted the prevention of diseases resulting from clinical deficiencies of essential nutrients such as scurvy and rickets Contemporary nutritional research has focused on the prevention of major diseases of Western civilization particularly cardiovascular disease and cancer as well as promoting maternal and child health and healthy aging Heart disease and cancer which were rare in most developing countries several decades ago are increasing dramatically in these countries in parallel with economic development and dietary transitions decreases in infectious diseases and increasing sedentary lifestyle and obesity Substantial evidence indicates major chronic diseases such as coronary heart disease type 2 diabetes and some cancers are largely preventable by relatively simple diet and lifestyle modifications Despite the great potential of nutrition in preventing diseases and improving health nutrition is not routinely emphasized in the education and training of physicians and other health care professionals This has resulted in inadequate nutritional knowledge and lack of skills in providing dietary counseling among many health care professionals Further more in the past decade the public's access to nutritional information has been increasing rapidly particularly through the Internet There are now hundreds of websites providing a wide range of nutritional information and selling numerous dietary products Because of the explosion in nutritional information the public's demand for nutritional advice has been increasing rapidly and will continue to rise

Present Knowledge in Nutrition Bernadette P. Marriott,Diane F. Birt, Virginia A.

Stallings, Allison A. Yates, 2020-07-21 Present Knowledge in Nutrition Eleventh Edition provides an accessible highly readable referenced source of the most current reliable and comprehensive information in the broad field of nutrition Now broken into two separate volumes and updated to reflect scientific advancements since the publication of its tenth edition Present Knowledge in Nutrition Eleventh Edition includes expanded coverage on the topics of basic nutrition and metabolism and clinical and applied topics in nutrition This volume Present Knowledge in Nutrition Clinical and Applied Topics in Nutrition addresses life stage nutrition and maintaining health nutrition monitoring measurement and regulation and important topics in clinical nutrition Authored by an international group of subject matter experts with the guidance of four editors with complementary areas of expertise Present Knowledge in Nutrition Eleventh Edition will continue to be a go to resource for advanced undergraduate graduate and postgraduate students in nutrition public health medicine and related fields professionals in academia and medicine including clinicians dietitians physicians and other health professionals and academic industrial and government researchers including those in nutrition and public health The book was produced in cooperation with the International Life Sciences Institute <https://ilsi.org> Provides an accessible source of the most current reliable and comprehensive information in the broad field of nutrition Features new chapters on topics of emerging importance including the microbiome eating disorders nutrition in extreme environments and the role of nutrition and cognition in mental status Covers topics of clinical relevance including the role of nutrition in cancer support ICU nutrition supporting patients with burns and wasting deconditioning and hypermetabolic conditions Beating Stress, Anxiety And Depression Jane Plant, Janet Stephenson, 2009-05-07 The epidemic of stress anxiety and depression that is sweeping the Western world is accompanied by huge social economic and personal costs This accessible and groundbreaking book is designed to help sufferers their families and health professionals The authors both former sufferers argue that the medical profession's current approach is not working They dispel the fear and prejudice surrounding mental illness and present a new effective programme for dealing with stress anxiety and depression They describe the successes that they and others have achieved through new treatment methods You will discover your risk factors and how to reduce them how mental health problems can be diagnosed more effectively and how to ensure the best possible treatment They go on to present the 10 lifestyle factors that affect the likelihood of developing anxiety and depression and reveal the 10 food factors that can improve mental well being BEATING STRESS ANXIETY AND DEPRESSION is essential reading for sufferers and their families *The Dog's Drugstore* Richard W. Redding, Myrna Papurt, Myrna L. Papurt, 2001-08-15 Written by two experienced veterinarians this guide explains when how and in what amounts dog owners can use over the counter medicines to treat canine conditions which medicines are unsafe for dogs and when owners should seek professional help Martin's Press

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