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Rice consumption and risk of type 2 diabetes

White rice consumption and risk of type 2 diabetes: meta-analysis and systematic review

Conclusion Higher consumption of white rice is associated with a significantly increased risk of type 2 diabetes, especially in Asian (Chinese and Japanese) populations.

Abstract

Introduction

Rob M. van Dam

Objectives To summarise evidence on the association between white rice consumption and risk of type 2 diabetes and to quantify the potential dose-response relation

Design Meta-analysis of prospective cohort studies.

Humans have a long history of cultivating rice crops; rice was first domesticated approximately 8000 to 9000 years ago by people living in the region of the Yangtze River valley in China.13 Rice is now grown worldwide and provides food for

A Global Perspective on White Rice Consumption and Risk of Type 2 Diabetes Diabetes Care 2020:43:2625-2627 | https://doi.org/10.2337/dci20-0042

Preventive policies to improve diet and physical activity are urgently needed to stem the rising global burden of type 2 associated with a higher risk of type 2 diabetes (1). In randomized trials, both high-carbohydrate diets (low in satuwith physical activity and caloric restriction, and moderate-fat Mediterranean diets reduced diabetes risk (2). These findings suggest that diets with variable

prospective cohort studies in Asian coun-The PURE study is a large prospective tries, higher white rice consumption was cohort study using standardized methodology that facilitates comparing diabetes. Therefore, it is crucial to deresults for different world regions. How termine whether white rice consumpwith high intake levels. association between white rice consump- there was limited overlap in intake dis-

ever, the inclusion of many different rated fat and high in fiber), combined tion contributes to the development of countries also represents challenges type 2 diabetes, particularly in populations for analyzing and interpreting the data. First, the differences in rice intakes Bhavadharini et al. (12) evaluated the for the various regions were so large that



consumption and the risk of developing type 2 diabetes. Research found that of the 10 countries with the largest number of diabetes cases, 6 countries in Asia and South America have rice as the main staple food."

Research needs throughout the value chains

