conferenceseries.com

10th International Conference and Exhibition on

Obesity & Weight Management December 08-10, 2016 Dallas, USA

Metabolic health has greater impact on diabetes than simple overweight/obese in Mexican-Americans

Shenghui Wu¹, Susan P Fisher-Hoch², Belinda Reninger², Kristina Vatcheva² and Joseph B McCormick² ¹University of Texas Health Science Center at San Antonio-Laredo Campus, USA ²University of Texas Health Science Center-Houston, USA

The risk of type 2 diabetes associated with overweight/obesity appears to be in uenced by the co-existence of other metabolic abnormalities. We compared the risk for diabetes in each of 4 categories of metabolic health and BMI. Participants were drawn from the Cameron County Hispanic Cohort, a randomly selected Mexican American cohort in Texas on the US-Mexico border. Subjects were divided into 4 phenotypes according to metabolic health and BMI: metabolically healthy normal weight, metabolically healthy overweight/obese, metabolic abnormalities. Overweight/obese status was assessed by BMI higher than 25 kg/m². Diabetes was de ned by the 2010 ADA de nition or by being on a diabetic medication. Among 3,247 participants, 878 were diagnosed with diabetes. e odds ratio for diabetes risk was 2.25 in the metabolically healthy overweight/obese phenotype (95% CI 1.34, 3.79), 3.78 (95% CI 1.57, 9.09) in the metabolically unhealthy normal weight phenotype and 5.39 (95% CI 3.16, 9.20) in metabolically unhealthy normal weight phenotype. Cubic spline modeling showed that the risk of diabetes with age was higher in the metabolically unhealthy than the metabolically healthy phenotype regardless of overweight/obesity status. Metabolically unhealthy subjects showed signi cantly increased risk for diabetes compared with metabolically healthy subjects, regardless of their weight. Greater focus on metabolic health appears to be a more e ective target for prevention and control of diabetes than emphasis on weight loss alone.

Biography

Notes: