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Dietary nutrition status among Japanese women with gestational diabetes mellitus at the time of diagnosis

Introduction & Aim: e diagnosis rate of gestational diabetes mellitus (GDM) is estimated to increase four-fold in Japan according to revised criteria put out in 2010. Women with a high pre-pregnancy body mass index (BMI) and inadequate nutritional status are more likely to be at a greater risk for the development of GDM. e purpose of the study was to evaluate the nutritional status of GDM women at the time of diagnosis.

Methodology: A cross-sectional study was conducted in 2012 in Japan of 44 GDM women and 169 non-GDM women in the second trimester. Dietary habits during the last month of gestation were assessed with a self-administered dietary histor questionnaire. GDM was diagnosed by a 75-g oral glucose tolerance test, which was performed around gestational week 2 e diagnostic criteria of the GDM test followed the guidelines set forth by the International Association of Diabetes and Pregnancy Study Groups.

Findings: e prevalence of pre-pregnancy BMI was signi cantly higher in the GDM women than in the non-GDM women (p<0.001). e median total energy intake was signi cantly lower in the GDM women compared to that of the non-GDM women (p<0.001). However, the percentage of energy from total fat was signi cantly higher (p<0.01) and the percentage of energy from total carbohydrates was signi cantly lower (p<0.05) in the GDM women than in the non-GDM women. e amounts of ber were signi cantly lower (p<0.05) in the GDM women than in the non-GDM women.

Conclusion: Dietary fat intake may be causally related to the incidence of GDM in reproductive-age women. ey should be encouraged to eat a well-balanced diet both before and during pregnancy.

Biography

Hiroko Watanabe has her expertise in evaluation and passion in improving the women's health and wellbeing. She has experience of working as a Midwife for 8 years at University Hospital in Tokyo, Japan. Her areas of research interest are nutritional education among reproductive-age women and weight and nutritional management during pregnancy.

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