

# Some Fibers Tame Blood Glucose

## Why Fiber?

Fiber is good for digestion and so much more. Individuals who consume a lot of fiber have a lower risk for developing diabetes, coronary heart disease, stroke, high blood pressure and obesity. In fact, individuals with the highest fiber intakes are 29 percent less likely to develop type 2 diabetes than those with the lowest intakes of fiber.

## Understanding Fiber

All fibers are not the same. We frequently talk about fiber as if it is a single nutrient, and we sometimes identify fibers as either soluble or insoluble. That's even the way they are described on a food label. This classification, unfortunately, does not identify fiber's role in the body. It's better to classify fibers in terms of their viscosity and fermentability.

Though the mechanism is not well-understood, viscous fibers, such as pectins, guar gum, beta-glucans, agar, and carrageenan, help lower after-meal blood glucose and reduce insulin levels. Fermentable fibers may also improve blood glucose. Pectin and guar gum are highly fermentable. Beta-glucans, inulin, and oligofructose are also fermented in



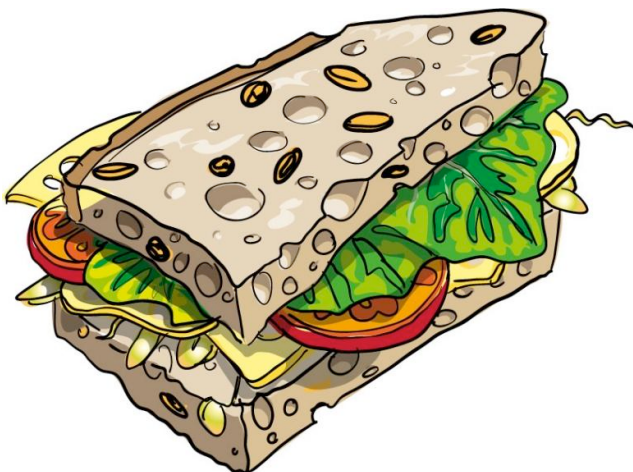
the gut. When these fibers reach the large intestine, colonic bacteria make a meal of them and, in the process, produce short chain fatty acids (SCFA). These SCFAs appear to improve insulin sensitivity. Fibers that are resistant to fermentation increase stool weight, decreasing transit time.

## Talking About Fiber

So now we face the question about how to balance our fiber intake. Since the average fiber intake among Americans is a mere 15 grams, but the Adequate Intake (AI) is 25 grams for women and 38 grams for men, we must increase our consumption of all types of fiber.

We also need to understand the importance of getting fiber from a variety of foods, to ensure the intake of a many different fiber types. When looking for foods to help control blood glucose, I especially focus on oats, barley, beans, and lentils as part of a varied diet, and you can too!

*By Jill Weisenberger, MS, RD, CDE*



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