Basics facts about fiber, probiotics and bowel health

Starts with British surgeon Denis Burkitt. He worked in Africa (his lymphoma) and noticed something about native health: No diabetes, no diverticulitis, no cancer, no constipation...

He eventually theorized that it was due to high fiber content of the diet.

This contrasted sharply with Western dietary habits.

But was he correct?

He produced a slide something like this:



#### He produced a slide something like this:





Can't show you native feces but can tell you they were more like cow pats!
This was Burkitt's initial "clue".

Can't show you native feces but can tell you they were more like cow pats! This was Burkitt's initial "clue". Of course it's not just about "fiber" but about raw or natural wholefoods.

For years, I followed the line of natural foods containing great nutrients and down-played the mechanical factor of fiber.

For years, I followed the line of natural foods containing great nutrients and down-played the mechanical factor of fiber. Now it seems I was right... in a roundabout way!

Although much is made of the quality and bulk of the stool, the pre-biotic properties seem overwhelmingly more important.

Fiber foods can help your bowel flora!

Fiber comes largely from oligosaccharides (short chain sugars). These have documented immune modulation properties. Also pre-biotic in nature

#### Types of Fiber:

So-called soluble fiber: dissolves somewhat.

Absorbs moisture and creates bulk. Slows intestinal passage

Insoluble fiber: does not soften or dissolve.

Speeds up intestinal passage. Laxative effect.

Insoluble fiber: does not soften or dissolve.

Speeds up intestinal passage. Laxative effect.

Both types are, of course, important

Sources: Soluble fiber

From oats, legumes, some fruits, nuts, flax seed, psyllium, cucumbers, celery, and carrots

Sources: Insoluble fiber

From wheat, whole grains, bran, seeds, nuts, barley, brown rice, zucchini, celery, brassicas, onions, dark leafy vegetables and vegetable skins.

#### How Much?

Text books say 30 - 40 grams a day. But what does that mean?

- -4 grams in a potato skin
- -Split peas/lentils: 15/16 grams! (1 cup)

How Much?

Raspberries a surprise at 8 grms (1 cup) Artichoke 10.5 grams Baked beans similar: 10 grams.



Jerusalem artichoke

#### Special cases:

Psyllium husk Inulin (from chicory, jerusalem artichoke) Glucomannan Vegetable fiber gum (guar etc.)

The ONLY non-plant source of suitable pre-biotic oligosaccharides is human breast milk and these play an important role in the development of a healthy immune system in infants.

We also know it powerfully protects against food and other allergies.

So we have closed the loop