

Ken Lassesen on Changing the Gut Ecosystem With Probiotics

KEEP THE INFORMATION FLOWING - Support Health Rising During Our End of the Year Donation Drive **Find out more here**



Changing the Gut Flora II

(Recovered ME/CFS patient Ken Lassesen relates his understanding of probiotics and gut bacteria. He is not a doctor. Please consult with your doctor before making any changes in your diet or supplement regimen.)

Changing your gut flora is actually not easy. Think of a healthy gut as a well-balanced ecosystem whose flora supports your health. Now think of an unhealthy gut as a well-balanced ecosystem who's flora supports their health – not yours.

Invasive species in



ecosystems present a good model.
From Scotch
broom to zebra
mussels, invasive
species from other
countries are creating
havoc in ecosystems
from across the U.S.
The changes can be
enormous. The entire
native grass population
in California was
essentially relegated to
a minority player by



The Giant African Land Snail can grow as big as a rat, can chew through stucco and eats any plants in its path...Oh, yes – it can also cause meningitis if touched. It recently invaded Miami.

annual grasses from the Mediterranean that were better adapted to cattle grazing and disturbance. Some states like North Carolina have over 100 different invasive species.

A common factor in many invasive species invasions (which fits with our model of chronic fatigue syndrome) is a disturbance of some kind that opens the door to invasive species.

Getting rid of invasive species once they've become entrenched, however, is very difficult.

Now think of a CFS gut as having several invasive species. Some sort of disturbance occurred – a virus, some new bacteria, problems with the gut lining, immune activation – whatever, and some invasive microbial species either swept in or took advantage of the disturbance and multipled greatly. You now have a new gut ecosystem ...

You can

- Exterminate them
- Introduce aggressive native species to push them out, often this needs the soil to be augmented to allow the native species to fare better
- Introduce a natural predator (which can compound the problem often)

With invasive species in the gut, there are similar options. In this post I will look at the most natural way, introducing healthy good species.

A Microbiome Fight For Survival

Probiotics are bacteria. They are bacteria that appear to be *harmless to humans* and may have beneficial effects. Often one species of a family will try to kill off other species of the *same* family. Taking several probiotics at the same time could result in less benefit and more cost then just doing one at time.

Many common commercial gut bacteria tests count that count the *volume* of a family of bacteria do not determine if they are good ones or bad ones. There are three levels in describing a probiotic or a bacteria:

- the family (lactobacillus, bifidobacterium, escherichia, etc)
- the species, usually designated by the second name (lactobacillus acidophilus, bifidobacterium thermophilum, escherichia coli (E.Coli), etc)
- the strain, often designated by a number or a set of characters (E.Coli Nissle 1917, Bifidobacterium Infantis 35624, lactobacillus reuteri JCM1112)

We have dogs (family) which are Welsh Pembroke Corgis (species), two of them were from the same kennel (strain) and these two have very similar

lable and movementates. If you are labeled for a problem to exceed

chickens, picking any dog from a pound at random may not have good outcomes. That sweet chihuahua may not keep away the coyotes (and may need frequent replacement). The same happens with probiotics.

Most people in the US believe that all E.Coli are dangerous, but there are good E.Coli and bad E.Coli. (In fact, several E.Coli **probiotics**, both over the counter and via prescription are available in Europe). Similarly, most alternative medicine people believe lactobacillus are all good, but lactobacillus endocarditis is a known killer. We must be very careful of over generalizing in this area.

A Probiotic Catch-22 in the U.S.

"a problematic situation for which the only solution is denied by a circumstance inherent in the problem or by a rule," i.e. if clinical

There's an interesting catch-22 with probiotics. Probiotics demonstrated in clinical trials to be effective are categorized as a biologic medical product, may require a prescription, and are subject to control by the FDA. Probably the best studied probiotic product, Mutaflor, was pulled from the U.S. market after the FDA deemed that it was a 'biologic product'. Mutaflor contains an E.Coli strain called 'Nissle 1917', which was identified in 1917, and has been studied for over 90 years. You can buy it over the counter in Europe, but can't get it

trials have proved a probiotic is effective, you may not be able to get it in the U.S. in the U.S. It has been used successfully for Crohn's Disease, and two well know CFS physicians in Europe often ask their patients to take it (Dr. Myhill (UK), and

Dr. De Meirleir (Belgium)).

Probiotics that have not been clinically studied, and which may do little or no good, on the other hand, are readily sold. Mutaflor's efficacy was dependent on a specific **strain** of e. coli. Despite that fact that probiotic strains can vary markedly in efficacy, probiotics or yogurt containing probiotics, often focus solely on the family, and rarely specify the strains present. "**Five billion lactobacillus and bifidobacterium**" may appear on the package with no details about species or strains.

The ideal situation is to have:

- The family, species and strain to be declared on the probiotic
- Research papers show a specific strain has clear benefits for ME/CFS or a comorbid condition.

The good news is that there are a few such probiotics, the bad news is that they are rarely found in health food stores!

The Lactobacillus Reality

Often our efforts to 'right' our gut flora's are often misguided. Many people, for instance, believe that Lactobacillus is the dominant bacteria in the gut, and the more lactobacillus bacteria they take, the better off they'll be. This is actually false.

"It is somehow intriguing how lactobacilli could maintain a reputation as numerically important intestinal inhabitants, given that the vast majority of experimental studies conducted after 1960 clearly showed that they form

marginal populations in the human gut." [2008]

A recent paper states "It is important to note that the majority of **traditional** probiotic strains are probably allochthonous to (not originally part of) the intestinal tract, and they show very little ability to persist in the human gut."

A 2009 article provides some interesting insights:

- Members of the genera Bacteroides, Eubacterium, Clostridium and Ruminococcus were the major species found in the adult microbiota. – Lactobacillus species are a minor player.
- For instance, E. coli K12 had a ratio of 3.4% for adult gut-enriched genes, there are other E.Coli present.

Lactobacillus acidophilus is easily the most well-known (and advertised) Lactobaccilus species, but Lactobacillus reuteri is more commonly found in humans. L. reuteri may have special significant for people with chronic fatigue syndrome because it produces B12. If you are low in B12, as many people with ME/CFS appear to be, then your L. reuteri levels are likely very low or non-existent. Instead of doing B12 shots or pills, you might be better off taking L. reuteri and having this species making your own B12.

Don't Miss Another Blog!

Like this blog?

Make sure you don't miss another one by registering for our free ME/CFS and Fibromyalgia blogs here..

The Lactobacillus You Want

There are two good members of the lastabasillus family of bacteria to

consider:

- Lactobacillus reuteri produces B12 and is the dominate Lactobacillus species in healthy animals (and humans)
- Lactobacillus rhamnosus some strains has positive effects on the brain, and others have a negative effect[1], so you need to know the strain and then check the research papers.

Personal Observations: I noticed in my last remission was that one spice-herb-supplement resulted in one or two symptoms disappearing and having no effect on the other symptoms. I have also observed very distinctive changes from specific probiotics which I describe on my own blog.

I believe different strains of bacteria cause specific symptoms. You may eliminate a few symptoms from each spice-herb or probiotic. You may need to rotate through many of them to eliminate most of the symptoms

Escherichia coli

There is only one commercial probiotic available without prescription (and not in all countries), *E.Coli Nissle 1917* also known as Mutaflor. It has been in use for over 90 years (longer than most *Lactobacillus* probiotics). CFS patients appear to be very low in *E.Coli*.

Bifidobacterium Infantis 35624

This species and the "soil bacteria" listed below have been demonstrated to be effective for IBS. IBS is very common in CFS and thus both of them have evidence of being beneficial for CFS symptoms. This is patented and sold as Align Probiotics and very well reviewed on Amazon.

Walgreen's have a different strain (same species) available in their Walgreens 4x Probiotic Digestive Care Supplement. There are no studies on it — but it is reasonable to assume similar benefits (may be less or may be more).

"Soil Bacteria"

The mother's microbiome appears to be DNA compatible with the child. Mother's pass their microbiome to their children by the children sticking their fingers into their mother's and father's mouths. Messy kids are likely healthy kids.

Microbiomes from

Don't forget your dirt!

another person may be rejected or fail to thrive because they are not compatible with the person's DNA. Our Victorian sense of cleaniness may be doing us, and our children significant harm.

Some commercial probiotics contain a large number of common soil bacteria. One, Prescript Assist has been found in a clinical trial to be effective for IBS: Most of these bacterias are not available in any other way for human consumption (they are, however, available in some animal feeds). Because these are soil based, they are robust and do not require refrigeration. Prescript Assist includes

- Anthrobacter agilis,
- Anthrobacter citreus,
- Anthrobacter globiformis,

- Anthrobacter luteus,
- Anthrobacter simplex,
- Acinetobacter calcoaceticus,
- Azotobacter chroococcum,
- Azotobacter paspali,
- Azospirillum brasiliense,
- Azospirillum lipoferum,
- Bacillus brevis,
- Bacillus marcerans,
- Bacillus pumilis,
- Bacillus polymyxa,
- Bacillus subtilis,
- Bacteroides lipolyticum,
- Bacteriodes succinogenes,
- Brevibacterium lipolyticum,
- Brevibacterium stationis,
- Kurtha zopfil,
- Myrothecium verrucaria,
- Pseudomonas calcis,
- Pseudomonas dentrificans produces B12
- Pseudomonas flourescens,
- Pseudomonas glathei,
- Phanerochaete chrysosporium,
- Streptomyces fradiae,
- Streptomyces celluslosae,
- Streptomyces griseoflavus.

Another product, Floracol Generation Plus, contains almost the same species:

- Lactobacillus sporogenes,
- Arthrobacter agilis,
- Arthrobacter citreus,
- Arthrohacter globiformis

- / II II II ODUCCO BIODITOTITIO,
- Arthrobacter leuteus,
- Arthrobacter simplex,
- Azotobacter chroococcum,
- Azotobacter paspali,
- Azospirillum brasiliencise,
- Azospirillum lipoferum,
- Bacillus brevis,
- Bacillus macerans,
- Bacillus pumilus,
- Bacillus polymyxa,
- Bacillus subtilis,
- Bacteroides lipolyticum,
- Bacteroides succinogenes,
- Brevibacterium lipotycum,
- Brevibacterium stationis,
- Kurtha zopfil,
- Myrothecium verrucaria,
- Pseudomonas calcis,
- Pseudomonas dentrificans,
- Pseudomonas flourescens,
- Pseudomonas glathei,
- Phanerochaete chrysosporium,
- Streptomyces fradiae,
- Streptomyces cellulosae,
- Streptomyces griseoflavus

Yogurts, Kefers and other bacteria laden foods

The first question is simple: which species are you getting? A good product will list the species, and generally, the longer the list (especially of non-lactobacillus species), the more likely it will be beneficial to you.

The Kefir below is well labelled and has 5 non-lactobacillus species in it (and 10 species in total!). It's also from Trader Joe's and thus good value for the money! When you shop for yogurt, kefirs etc — read the labels carefully — all fermented milk products are not the same.
carefully — all fermented milk products are not the same.
Trader Joe's Kefir Species

Bottom Line

Much more study is needed before we can

Most gut tests measure the amount of a family of bacteria. A very small number of tests identify the species. An even smaller number measure the exact strains. Even if we know the precise strains, we do not know

we do have a few arrows in our quiver now.

the health effects (or side effects) of 99.9% of the strains. We do not have strains available as

probiotics commercially (some are available, but only in a research context).

IMHO, we only have a few possibilities in our arsenal at this point. The two dominant ones are Prescript Assist and Mutaflor.

Personal Note: My wife and I have observed that they do not compliment each other when taken together, i.e. we get less positive change from both together than taking either by it self. Our usual practice is to do 7-10 days on one, take a 7 day break, then 7-10 days on the other and another 7 day break before repeating. With mutaflor, studies have shown that minocycline does not decrease its effectiveness.

Changing the Gut Flora Series

- Changing Your Gut Flora Pt I: Food to Feed the Good Bacteria in Chronic Fatigue Syndrome
- Changing Your Gut Flora II: Changing the Gut Ecosystem with Probiotics
- Changing Your Gut Flora III Change Agents: Prescription and Herbal Antibiotics to Alter the Gut Flora in Chronic Fatigue Syndrome

Find more of Ken's blogs here.

Ken Lassesen is a recovered patient not a doctor. His blogs are for informational purposes only. Please check with your health practitioner before changing your treatment protocols.

82 Comments

Betsy on December 15, 2013 at 1:58 pm

Interesting – I've never noticed any difference taking lactobacillus but have with reuteri. Can we get the Mutaflor sent from Europe?

Ken Lassesen on December 15, 2013 at 3:39 pm

I have not heard of anyone successfully doing that. I have heard of people getting it by friends and family carrying it with them on return flights from Europe. Given the FDA current position (and that it is very perishable), trying to get it shipped (because it is a biological) would be denied by most shippers and expensive to get delivered in two days.

I doubt that any authorized seller would ship it — so you would need an individual there that is willing to purchase and

L. ...

snip.

Betsy on December 15, 2013 at 9:07 pm

Ok, thanks Ken.

Katy on November 9, 2018 at 1:35 am

I have low ecoli, and am told it is best to feed your current e coli levels with the correct prebiotic rather than trying to introduce a single strain with mutaflor.

The correct prebiotics are galactose and fucose. (Fucose is cheap and comes from a particular strain of seaweed.

The glactose was the more expensive/difficult one to buy).

Lynn on December 15, 2013 at 2:43 pm Hi Ken,

I followed CFSExperimental for years. I am hoping you can give me some advice regarding hives and restoring my gut flora..

After having chronic hives for the last 6 months, I am now testing the hypothesis

ر ن

that the hives are histamine related. In the last week I started a protocol of taking 25 grams of L-Glutamine and a probiotic each day in the hopes of healing my gut and getting rid of the hives.

The probiotic that I chose (with no research at all) is Vitacost Probiotic 15-35 with 15 strains 35 billion CFU. They had a buy one get one free sale, so it cost \$27.99 for a 60 day supply. Here are the ingredients. Do you think they will help to help my gut or should I start with one of the ones that you recommended?

Supplement Facts

Serving Size: 2 Vegetarian Capsules

Servings per Container: 60

Amount Per Serving % Daily Value

Sodium 80 mg 3%

Proprietary Blend Probiotic 15-35

Ultra Complex in VIABLEND® (L.

acidophilus, L. casei, L. rhamnosus, L.

plantarum, B. bifidum, B. breve, B. infantis,

B. longum, L. paracasei, L. salivarius, L.

brevis, L. fermentum, L. helveticus, L. lactis,

S. thermophilus) 35 billion CFU *

FOS (Fructooligosaccharides) NutraFlora®

200 mg *

CFU**: At the time of manufacture.

On another note, I did not have this hive problem until I started high dose vitamin B-1

therapy. It may be a coincidence but I am not willing to give up the B-1 as it has much improved the quality of my life. The researcher for the high dose vitamin B-1 therapy said he has not encountered a patient that got hives from the supplement.

Thanks for any help that you can give.

Lynn

Ken Lassesen on December 15, 2013 at 4:01 pm

One of my frustrations with probiotics labeling is that they often do not tell how much of each ("Proprietary Blend" issue). With 15 species listed, The average would be 2.3 billion, however I suspect that they are listed in order of amount. B.Infantis is #7 so I suspect well < 1 billion.

I dropped into Walgreen's this week and found two blends:
"Ultimate Flora RTS Colon Care Probiotics" which is only
Bifidobacterium (including infantis – the one that has been shown to be effective for IRS), and "Finest Nutrition"

וכטו, מווע דוווכארואמנונוטוו

Digestive Probiotic Probiotics
Maximum Care (30 billion) –
that also included B.infantis in
it's list. The latter one has L.
acidophilus as it's first
ingredient (which means that it
could easily be 90+% of this
species and still be truthful in
the labeling.

Because IBS is co-morbid so often with CFS (and MCS), I would recommend not using general purpose proboitics but those that are specifically targeted for the colon or digestive health. If L.Acidophilus is the first species, I would look for alternatives.

Back to the Hives issue:
"Recent study show that
probiotic bacteria induced in
vivo increased plasma levels IL10 and total IgA in children
with allergic predisposition.
Many clinical studies reporting
significant benefits by
probiotics supplementation in
food allergy prevention and
management but not everyone

agree on their effectiveness.

These differences are probably related to differences in selected populations and in probiotic strains used." 2010 — http://www.ncbi.nlm.nih.gov/pubmed/20562632

Unfortunately no guidance of the right ones. My approach, for my family, is to take as many different species (ideally mono-species when practical) probiotics as possible with a weekly rotation. Note any changes of symptoms with each one (usually seen about day 3-7). If there are zero changes, then record that.

Ken Lassesen on December 15.

2013 at 10:23 pm

Lynn, I did a bit more digging and suggest you read:

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3038963/

"Over 70 years have passed since dermatologists John H. Stokes and Donald M. Pillsbury first proposed a gastrointestinal mechanism for the overlap between depression, anxiety and skin

conditions such as acne.
Stokes and Pillsbury
hypothesized that emotional
states might alter the normal
intestinal microflora, increase
intestinal permeability and
contribute to systemic
inflammation"

Diane on December 15, 2013 at 2:52 pm

Can you get Mutaflor from Canada, and does it require a prescription?

Ken Lassesen on December 15, 2013 at 3:35 pm

Mutaflor may be ordered WITHOUT prescription from http://www.mutaflor.ca.

Payment is by PayPal only — and it must be a CANADIAN PayPal account (i.e. billing address in Canada) It is shipped 2 day express to CANADIAN addresses only and must be signed for It is shipped in large form container with lots of ice packs – it needs to be kept cold

It may be carried across the

border for personal use.
Shipping it into the US can be legally problematic with the FDA current position on it. I usually pick up some Align, Kefir, etc in Canada at the same time, so I am bringing back groceries and thus I may truthfully tell the customs

probiotics" - there have never

probiotics — but if they were, I

would hand him the Align as an

been a question about the

agent, "groceries and

iciniay oc carried across are

Debbie on December 15, 2013 at 5:17 pm

example..

Just a caution about look alike packaging. I went to our local Walgreens for my Align probiotic and noticed that Walgreens had what looked identical to Align for half the price. When I brought it home and compared the strains of bacteria it was not identical. I have had such good results with Align for my IBD (using for over a year now). I now buy it through Health Rising's Amazon page (best price) and it is the only one I now buy. More expensive than most on the market but I've been very happy with the results.

Ken Lassesen on December 15, 2013 at 8:50 pm

"You need a good probiotic" is often what both regular and alternative health professionals will tell patients. If you ask for which, the answer is often the one that they sell or a generic one. If you ask what species should be in it, and research backing up those recommendations... you will often encounter deer in the headline syndrome. My favorite question is "Which species should I not take?" — if they cannot answer that question, they are likely ignorant about species and just re-iterating a "modern wives tale"...

It is unfortunate that brainfogged CFS patients often have to do their own resource because this area of treatment is either poorly or not taught.

MK Gilbert on December 16, 2013

at 2.12 nm

מנט, וט אווו

What about the Align
"wannabe" they sell at
WalMart? That's what I've been
taking...I also eat the Activia
yogurt. Is it any good?

Ken Lassesen on

December 16, 2013 at 4:57 pm

There is a high probability that if it has the same species, it will have similar effects. In general, I use the "official paper" ones as my first line. I will circulate for a week of the wannabe's as a second line of action - since I believe that the more different strains you intake, the better the odds that one of them will take

an attitude to the cartel of evil bacteria.

Activa is "bifidus regularis" – an invented name for marketing purposes. This is the species Bifidobacterium animalis according to Wikipedia

(http://en.wikipedia.org/wiki/Bifidobacteriu

This species is available in many probiotics (search Amazon.com for "Bifidobacterium lactis" for many hits). Each serving is alleged to be 1 Billion units.

If you are probiotic intolerant but can tolerate yogurt, then it is likely a good choice to try shifting your gut cufficiently to

tolerate probiotics.

There is an interesting review on Activa at

http://www.powerofprobiotics.com/Activia.

Chris Cairns on December 15, 2013 at 10:28 pm Ken,

I cannot express enough gratitude for your work in this area of probiotics and ME/CFS. I myself think the gut microbiota is tremendously important and that each of us, with discipline, can work for betterment in this area.

Several items recently have become a concern to me. It is my belief, through experience, that prebiotics (inulin, arabinogalactan) cause more problems than one might expect. It is my supposition that they promote growth of many bacteria, both good and bad, in an unpredictable fashion.

Also I have become concerned about streptococcus thermophilus, which is in many probiotics and all yogurt (by definition).

What does your experience tell you about

these items?

Your website is an invaluable resource and thanks for this.

Chris

Ken Lassesen on December 15, 2013 at 10:57 pm

Thank you Chris, my basic rule is to work from PubMed articles as much as is possible. With my remission, I have a brain that can digest the material and actually been reading professional medical papers since I was 14 (Gifted Child Program). My primary concern has been Lactobacillus acidophilus because it is known to kill E.Coli (which CFS patients are low in — possibly making a bad situation worst). What I could find quickly was: **Antimicrobial activity of** bacteriocin-producing lactic acid bacteria isolated from cheeses and yogurts (2012) which found "Strep. thermophilus and Lact. casei effectively inhibited the growth of natural microflora" as well

as this 2011
article,"Identification and
characterisation of an ironresponsive candidate
probiotic" which states "an
inability to compete with
potential pathogens under
conditions of high iron
availability such as stress and
trauma may contribute to the
lack of efficacy of many LABbased probiotics in treating
disease." LAB, including
Lactobacillus acidophilus and
Strep. thermophilus.

So, I believe your concern (apart from personal experience) may have a scientific basis.

Chris Cairns on

December 16, 2013 at 5:12 pm

Ken,

Thank you for your response.

I assume that you yourself do not take prehiotics

except those included in Prescript Assist. When I spoke to Simon Carding, he did not seem overly interested in prebiotics for ME/CFS.

I wonder what you think about the following probiotics, all of which have some science behind them. I am particularly interested in the research of Gregor Reid, who developed GR-1.

L. plantarum
299v
L. rhamnosus GR1
Bifidobacterim
animalis spp.
lactis BB-12
Custom
probiotic's d-

lactate free blend Russian Choice Immune S. Boulardii

S, Boulardii seems to have the capacity to raise fecal IgA.

Regards,

Chris

Ken Lassesen on

December 16, 2013 at 6:59 pm

Bifidobacterim animalis spp.
lactis BB-12 is effectively what is in Activa Yogurt (they renamed it for marketing purposes). I do not recall that any of the others had "clear" results from reviewing pubmed. L. rhamnosus has

slight improvement for IBS and has a moderate positive effect for Crohn's and UC it's impact was a lot less than Align or Prescript Assist on IBS. S. Boulardii also has moderate impact on CD and UC but studies found zero impact on IBS.

So bottom line, if it does not have major impact on IBS by PubMed studies (regardless of what it may do for IgA levels) – I view them as likely low value. Most CFSers have very limited budget — if the probability of a positive effect is

not very good (as reported by PubMed studies), I prefer to avoid advocating it.

Diane Drayson on December 15, 2013 at 10:55 pm

Hi Ken

I have M.E. A few years ago I started getting blepharitis (allergy-based problem with my eyes). That improved drastically for no reason I could fathom but I immediately developed eczema. I have wondered if they are related. It seems to me that they are both allergy based. Could these be a result of gut problems?

I can treat the eczema with cortisone cream, or I could have allergy testing to discover what is setting it off, but if the root cause is something else then I can see I will simply have a problem erupt elsewhere on my skin.

I have also developed asthma, and again that only occurs in specific places so I know that must be allergy-based too.

Any help would be appreciated.

Diane

Ken Lassesen on December 15,

2013 at 11:15 pm

The short answer is yes – and was proposed 70 years ago.

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3038963/

"Over 70 years have passed since dermatologists John H.
Stokes and Donald M. Pillsbury first proposed a gastrointestinal mechanism for the overlap between depression, anxiety and skin conditions such as acne.
Stokes and Pillsbury hypothesized that emotional states might alter the normal intestinal microflora, increase intestinal permeability and contribute to systemic inflammation"

Specifically it states later "The co-morbidity of chronic skin conditions and mental health disorders has long been recognized, and in recent years specialty psychodermatology and neurodermatology groups have emerged. Acne vulgaris is a common dermatological disorder frequently associated

with depression, anxiety and other psychological sequelae."

What this 2011 article does not provide is guidance on the microflora alteration/correction. It is interesting that acne is often treated with long term doxycyline. The same antibiotics used by many CFS MDs that use antibiotics. It's actual course of action may be altering gut bacteria. I believe that minocycline is actually a better one (because it has 300+ articles supporting it's use as a neuroprotective).

I realize that the use of antibiotics is a "hot button' for many CFS patients — which is why I have looked as more acceptable alternatives which are herbs documented to be as effective. I will be writing about those is a future post.

Betsy on December 17, 2013 at 5:27 pm

Diane, eczema can be caused

this is happening, it only takes a very small amount of gluten to bring on a reaction. If you're not already gluten free, it would be well worth a try.

Steve on December 16, 2013 at 1:13 am

Ken, Great post..where is your blog?

Steve

Ken Lassesen on December 16, 2013 at 8:42 am

http://cfsremission.wordpress.com/

Chris Pfeiffer on December 16, 2013 at 8:25 am Hi Ken,

First, thanks for taking the time to publish your insights and answer questions.

Speaking of which, I have a few. What type of diet would you recommend? When you take the probiotics, how many times a day do you take it? Would you recommend having Kefir along with the probiotics? What do you think of MAF – probiotics?

Thanks for your opinions

Ken Lassesen on December 16,

2013 at 8:57 am

Breakfast is usually a slice of German 100% heavy rye bread (imports from Europe — I can get 1 lb of it from our local Deli or Amazon for about \$3.50, it does not go stale or mold fast, and a single slice is filling) The shelf life of a sealed package is 6+ months. Rye encourages the most diversity of microflora of all prebiotics tested in one study. Often with peanut butter or meat slice on top — this morning it was liver pate (high in iron).

I maintain a preference for high protein (lots of meats, fish) and low carbohydrates (except for rye bread) — which comes out of my first and second remissions.

To this, the usual supplements, 15000 IU of vitamin D, multivitamin with minerals, 500 mg of flushing niacin.
Other items added when something suggests them.

Usual cavaet: every ones microflora is different and unique — so experimentation is often required — taking notes and being systematic (1 week during this, one week doing that) is essential.

Ken Lassesen on

December 16, 2013 at 8:58 am

PS: Every one else in the family is gluten intolerant (except me) — so while I do have the occasional gluten-goodies, there is very little gluten in my diet.

Terry K on December 16, 2013 at 8:59 am

When you go to Canada, where do you get the Mutaflor? Is there a storefront?

Ken Lassesen on December 16,

2013 at 11:00 am

There is no store front —

HOWEVER WHIS HIMY DE W

business opportunity for Canadian CFSers to

supplement their income.

Many years ago, I was getting my piracetam from the Czech republic from a CFSer who purchased it over the counter at her local pharmacy and then sent it on; I was very fine with a 40% mockup in order to get it (today, I have a 2 kilogram container of it sitting on my shelf).

I have a daughter working in Canada so she orders it on her Canadian Paypal account and I schedule delivery with friends or family just across the border from me as the shipping address.

Val Evans on December 16, 2013 at 2:28 pm

Hi I'm in Australia, where do I get the proper probiotics from? As I have m.e. Many thanks

Ken Lassesen on December 16, 2013 at 2:59 pm

Several options for a few:

Mutaflor:

http://www.mutaflor.com.au/

Align:

http://www.shopbot.com.au/align-probiotic/price/australia/392635

Reuteri:

http://www.myshopping.com.au/PR-450742_Blackmores_Lactobacillus_Reuteri

in New Zealand:

http://www.blackmoresnz.co.nz/products/nutritionalsupport-lactobacillus-

reuteri-protectis

Prescript-Assist:

http://shop.realizehealth.com.au/heatstable/2397-prescript-assist-60-caps.html

You may need to shop around carefully, some items like

http://shop.realizehealth.com.au/dairy-

free/2251-bifidobacteria-

four-strain-50g.html are \$150

where as the same apparent

combination from a US

supplier may be just \$35 plus

shipping. What I found

interesting is that some

probiotics require

prescriptions!

Annie on December 16, 2013 at 5:04 pm

Thanks for this article.

Sorry I am a bit confused do you advise taking the reuteri as well as the prescript assist and mutaflor? Or is the reuteuri as well as if you know your B12 is low? Many thanks

Annie on December 16, 2013 at 5:20 pm

Sorry two more questions. I am not clear about your recommendations for kefir. Would this be as well as the mutaflor and prescript assist or taken in rotation with these two? So one week mutaflor, one week prescript assist, one week kefir?

Also in what way would mutaflor help. I know papers show people with ME/CFS are low in it but I haven't worked out how taking it could help?

Finally, could gut dysbiosis cause sugar cravings?

Many thanks

Ken Lassesen on December 16,

2013 at 6:33 pm

No need to apologize for being confused. I have had CFS and personally know the problem

of putting the mail in the icebox, etc.

In general, most CFS patients improve on increased intake of B12

(http://www.drmyhill.co.uk/wiki/B12_-_rationale_for_using_vitamin_B12_in_CFS

). It applies to low, normal and high B12 levels of serum B12. Since B12 is produced by a bacteria, there is a likelihood that it is actually altering the gut bacteria (hence the serum level is actually immaterial). It is also the single Lactobacillus species that is likely to take up residence in your gut.

Mutaflor is an aggressive E.Coli that out-competes other species. E.Coli produces NADH (which studies show lessen CFS symptoms when NADH is supplemented). The rationale is that mutaflor will both produce the other chemicals that E.Coli normally supply to the body(which the body is not getting because of the lack of E.Coli), and push out harmful gut bacteria. Mutaflor has also

been found to be effective with a wide variety of digestive issues, UC, Crohn's etc. and some autoimmune conditions. "Nonpathogenic Escherichia coli strain Nissle 1917 (EcN) has immunomodulatory properties and can act on different cells which are important for the allergic immune response" (2013)

http://www.ncbi.nlm.nih.gov/pubmed/24247760,

Ken Lassesen on December 16,

2013 at 6:48 pm

No problem — My Ideal rotation would be 1 week Mutaflor, 1 week Prescript Assist, 1 week Reuteri, 1 week Align [Repeat]. Fermented milk products should not be taken with the Mutaflor or 1 week after because they tend to have E.Coli killing bacteria in them. It is fine to take with Reuteri and Align. If during the rotation, you notice significant improvement from one — continue on that one for 2 weeks.

Mutaflor (E.Coli Nissle 1917)

has 171 PubMed articles on it

http://www.ncbi.nlm.nih.gov/pubmed/?

term=Nissle+1917 and have

many interesting (positive)

aspects, for example "We

conclude E. coli Nissle 1917 to

interfere with bacterial

invasion of via a secreted

component and not relying on

direct physical contact with

either the invasive bacteria or

the epithelial cells."

http://www.ncbi.nlm.nih.gov/pubmed/15039098,

in translation, it produces antibiotics against many species, from the positive effect for digestive disorders, it is likely killing off more of the bad than the good.

"Probiotics such as Escherichia coli Nissle 1917 ... are currently used to, or have been evaluated for use to, prevent or treat a range of intestinal maladies including inflammatory bowel disease, constipation, and colon cancer." 2013,

http://www.ncbi.nlm.nih.gov/pubmed/23457295

Door it "provo" that it is good

for CFS — no, there have been zero studies on using it with CFS or FM. This is a recommendation by inference from IBS being very co-morbid with CFS and FM.

Annie on

December 17, 2013 at 2:25 pm

Thanks Ken for your very helpful reply. What are your thoughts on kefir?(thank you for advising not to take it when taking mutaflor. Would this also apply to sauerkraut?)
Many thanks

Ken Lassesen on

December 17, 2013 at 6:08 pm

Sauerkraut contains Leuconostoc,

Lactobacillus, and Pediococcus according to

wikipedia.

http://en.wikipedia.org/wiki/Sauerkraut.

Given the wide variety of species cited in the article — which will vary from batch to batch — I just cannot give a simple answer. If you feel significantly better after having it daily for a week, then it is likely good. If not, I would tend to not repeat the experiment too many unknowns.

Annie on

December 18, 2013 at 8:51 am

Thanks Ken. What are your thoughts on kefir?

Annie on

December 18, 2013

at 8:52 am

Ps to clarify, I

notice in your

ideal rotation

kefir is not

mentioned. Do

you think it can

be a useful

probiotic? Thanks

Ken Lassesen on

December 18, 2013

at 1:39 pm

Kefir has benefits

for IBS:

http://www.ncbi.nlm.nih.gov/pubmed/1763

(2007)

http://www.ncbi.nlm.nih.gov/pubmed/1880

(2009)

http://www.ncbi.nlm.nih.gov/pubmed/2149

(2011) "a subset

of IBS patients

there exists a

potential

dysregulation in

energy

. . .

homeostasis

(serum glucose)

and liver function

(serum tyrosine)

that may be

improved

through

probiotics

supplementation."

http://www.ncbi.nlm.nih.gov/pubmed/2227

(2012) One of my

criteria for

recommending is

"demonstrated by

PubMed to result

in remission for

IBS for at least

some". Prescript-

Assist and Align

meets that

criteria. Kefir

does not. Most

CFSers can get

saturated with

the list of things

that help (a little).

I prefer to keep

my list small and

where the

PubMed evidence

suggests it will

help a lot.

Read more: Ken

Lassesen on

Changing the Gut

Ecosystem With

Probiotics

http://www.cortjohnson.org/blog/2013/12/1

lassesen-

changing-gut-

ecosystem-

probiotics/

Annie on

December 19, 2013

at 2:39 pm

Thanks Ken for

your helpful reply

tatt on December 19, 2013 at 1:08 am

Interesting article. I am in the UK – I have had some slight improvement with actimel and more with the prebiotic bimuno

http://www.bimuno.com/?

gclid=CMWd69Lnu7sCFUmWtAodbGwAWQ

(they ship to the us) and may try Mutaflor now. I've also tried Biokult (available to Americans I think) and while this didn't do a lot for me I wonder what you think of it?

http://www.amazon.com/Bio-Kult-F7057-B-Probiotic-120-caps/dp/B004XKUD78

Ken Lassesen on December 19,

2013 at 8:13 am

There are three studies on Bimuno that I could find:

http://www.ncbi.nlm.nih.gov/pubmed/23624658 http://www.ncbi.nlm.nih.gov/pubmed/20798214 http://www.ncbi.nlm.nih.gov/pubmed/19074651

Only one cited the families of concern and reports an increase of Bifidobacteria. A good thing but only one of 5+ shifts in gut bacteria.

It is also a pure (refined) substance and my usual preference is mixtures for prebiotics (i.e. 100% rye bread)

tatt on December 21, 2013 at 1:06 am

Biokult (available to Americans I think) and while this didn't do a lot for me I wonder what you think of it?

http://www.amazon.com/Bio-Kult-F7057-B-

Probiotic-120caps/dp/B004XKUD78

Ken Lassesen on

December 21, 2013 at 6:35 am

Probiotics whose first ingredient is L. Acidophilus are items that I avoid because this species inhibits E.Coli which CFS patients are reported to be very low in.

"complete inhibition of E. coli in 36 h." Immediate effect of Lactobacillus acidophilus on the intestinal flora and fecal enzymes of rats and the in vitro inhibition of Escherichia coli in coculture.

http://www.ncbi.nlm.nih.gov/pubmed/1082

Grant nancarrow on December 19, 2013 at 6:35

pm

Hello ken

I have tested high for entero, strepto, staphylo, klebsiella, bifidobacterium. Low for clostridium, lactobacillus and bacteroids.

Are the three herds you use effective against all of these?

Do you know which of these clarithromycin and azithromycin are effective against? I took both of these for a while and did see benifits but the Dr had me on to short a course and now seem ineffective.

Do you know if penicillin is effective against any of these? I took this for a few months as a child and am wondering if it had much to do with my dysbiosis?

Thanks so much for your help.

Ken Lassesen on December 19, 2013 at 8:49 pm

In my next post I actually layout some key source material and what need to be done. From come of the articles cited:

"Best antimicrobial activity was found in case of ethanol extract of Z. officinale, P.

granatum, T. chebula, O. sanctum, C. cassia, C. asiatica and acetone extract of T. chebula against multidrug resistant UTI pathogens. This probably explains the use of these plants by indigenous people against a number of infections since generations. The plants studied here had shown that they are potentially rich in antimicrobial compounds and have also been extensively used by the tribals."

- T. Chebula is Haritaki,
- O. Sanctum is Tulsi

"extract of Azadirachta indica and Ocimum sanctum exhibited antibacterial activity against Enterococcus faecalis."

A Indica is Neem.

"All strains of bifidobacteria, whatever the species, were sensitive to penicillins: penicillin G, amoxicillin (MIC50 0.06 mg/L), piperacillin, ticarcillin, imipenem and usually anti-Grampositive antibiotics (macrolides, clindamycin, pristinamycin, vancomycin and teicoplanin)"

Grant nancarrow on December

21, 2013 at 7:09 pm

Thanks for your answer. I've heard that staphylococcus can be hard to treat. Do you

happen to know if it is susceptible to these herbs also? Thank you

Ken Lassesen on

December 21, 2013 at 7:32 pm

You can review a list of herbs effective from this URL:

http://www.ncbi.nlm.nih.gov/pubmed/?term=staphylococcus+herbs.

Looking at the first one article

http://www.ncbi.nlm.nih.gov/pubmed/2419

compares antibiotics and

herbs -

Ciprofloxacin was

the best antibiotic

tested, for herbs

Cuminum

cyminum aka

Cumin seeds,

Curcuma long

Linn aka

turmeric.

Turmeric

constantly turns

up in multiple dimensions as being very good for CFS patients. There are other herbs reviewed in later articles — but often they can be hard to obtain in the US.

Grant

nancarrow

on December 22, 2013 at 9:45 pm

Hi Ken
Do you know if
we try to treat
these infections
with herbs and
they do not work
if it makes the
bugs stronger
and more
resistant?

Ken Lassesen on

December 22, 2013 at 11:32 pm

- . .

Bugs becoming resistant to antibiotics or herbs is a bit of a loaded question that I could write about for several posts (my academic training was in modelling and statistics and the "overuse of antibiotics causing drug resistance" does not stand up to rigorous modelling IMHO)

• • •

To hit the issue of herbs: No. These have been used for hundreds if not thousands of years effectively by tribal medicine men in India. They are still effective today. Resistant comes from variation

often when the

treatment is a pure, synthetic substance with no variations (i.e. prescription antibiotics) then the outcome is simple: the adaptable triumphs over the rigorous!

With herbs, every batch is collected from a different collection of plants, many are still semi-wild, so variations meets variation. The herbs continue to work. Yes, some bacteria may adapt to one batch over time. But the next batch of the same herb may become effective because of natural variations With

herbs, I tend to buy from different suppliers whenever I run out — "the best provider, is changing providers".

This is also why I favor 100% rye bread as a prebiotic over a filtered extract of some prebiotic.

That's the short answer.

Grant

nancarrow

on December 23, 2013 at 1:52 pm

Excellent thank you. Then there is nothing to lose by trying the herbal approach.

Grant

nancarrow

on December 23, 2013 at 2:04 pm

Sorry also how much tumeric do you advise we use? Have you found it more effective when used with olive oil as well as black pepper?

Ken Lassesen on

December 23, 2013 at 4:11 pm

We add black pepper (1% by weight to out turmeric – unless the person cannot tolerate pepper): based on PubMed studies.

I could not find any studies on olive oil and turmeric. Each (as

well as monolaurin) has benefits by themselves.

Grant

nancarrow

on December 23, 2013 at 5:20 pm

How many grams roughly per day of termuric?
Thanks again

Ken Lassesen on

December 23, 2013 at 6:07 pm

we usually find 8
"00" capsules
/day works well.
That's about 4
grams. We add
1% black pepper
(by weight) when
we make the
capsules (from
organic bulk
turmeric)

acer2000 on December 20, 2013 at 3:54 pm

Hi Ken, I noticed that a company called "BioGaia" sells probiotics based on L Reuteri. Do you have any experience with them? Do the work better/worse than the Nature's Way product?

Ken Lassesen on December 20, 2013 at 5:07 pm

There are very few suppliers of pure L Reuteri around. I have used both BioGaia and Nature's way with no apparent difference. However, Nature's way is a mixture – the label states 5 Billion CFU and has L.Reuteri as the last species (thus the least one), thus it is 1.6 Billion CFU or considerably lower. BioGaia state it is 100 million CFU (i.e. 0.1 Billion CFU).

Blackmores L. Reuteri (available in Australia) is 200 million CFU per capsule and recommend dosage of 2 per day (thus 0.4 Billion CFU).

Raoul T on December 23, 2013 at 6:37 pm

Hi Ken, I've been on Mutaflor for 5 days now starting with 2 caps on the 3rd day.

Question: feelings a little turbulent in the stomach and i kind of feel depressed. I am going to go with it for week. Is this a normal initial herxheimer reaction I'm experiencing thus far? Just a little background: I believe I have an antiviral resistant latent b cell Epstein Barr dna virus condition.

Ken Lassesen on December 23,

2013 at 7:07 pm

Depression and other herx-like (worst symptoms) are to be expected. My wife is regularly on Mutaflor (for Crohn's) and I tend to often hear "I am feeling horrible and depressed today.... oh I pushed up my mutaflor dosage yesterday!".

Are you doing turmeric (with 1% black pepper) for the EBV?

"Turmeric at a concentration of 10 microg x ml (-1)exhibited the most potent anti-EBV-EA activity, which is ten times more than passionflower, that is next in the order of activity."

http://www.ncbi.nlm.nih.gov/pubmed/11884218 [2002]

L----

Mutaflor is also likely to give headaches — real bad ones — (it states that on the package insert and we have experienced it). My first round of Mutaflor was almost a "found no-effect" until I realized that one subset of symptoms had totally disappeared which had been constant for 6 months. It is NOT a miracle cure-all, it's one component. On my own blog, a reader just posted his experience with another one that recommend: "Hi ken I just tried the rhamnosus from the allergy research group that you recommend and wow... I took six of these and about two hours later felt 50% better. Clearer head, could feel energy coming back, felt happier. Have had similar reaction to mutaflor and even yogurt before but never as strong as this and the effects never last" from this comment

Raoul T on December 25, 2013 at 6:59 pm

Hi Ken, Maybe I was over reacting but i was intrigued to learn about the feature "Big Antiviral Trial Could Usher in New Treatment Era for FM" on Health Rising a couple of weeks ago discussing the promising use of Celebrex with Valtrex as a new and effective strategy for FM and CFS. I just wondered what you opinion on this might be. Are there significant heath risks associated with Celebrex? If so are there any good alternatives? Has anyone you know tried or had success using this therapy?

Ken Lassesen on December 25,

2013 at 10:00 pm

Short answer: Only a small minority may benefit.
Alternatives to Celebrex are listed at

http://arthritis.emedtv.com/celebrex/celebrexalternatives.html and it was

almost taken off the market:

http://www.nbcnews.com/id/6727955/

. My own preference would be white willow bark – AKA Aspirin.

Long answer with documentation of four studies:

http://cfsremission.wordpress.com/2013/12/26/celebrex

with-valtrex-a-pubmedreview/

IMHO: Not recommended

berkpsy on December 29, 2013 at 7:11 pm

I have used VSL #3. Which has exceedingly high levels of several different bacteria (see VSL3.com). Several years ago I was taking several packs a day of this probiotic. It brought tremendous positive changes to my CFS. At that time I was not doing high dose anti-virals as my body couldn't handle it at that time. So, the majority of what I was doing to improve CFS symptoms was taking the VSL#3.

Cort Johnson on December 29,

2013 at 7:15 pm

Thanks for passing that on \bigcirc



Grant nancarrow on December

31, 2013 at 3:43 am

berkpsy, what happened with the vsl3? Did it stop working or you reach a plateau?

Ken, you say it took about six months for you to become

well. If you had have doubled the dose of herbs do you think it would have killed the bugs of quicker?

Thanks to both of you.

Ken Lassesen on

December 31, 2013 at 9:00 am

I know the thinking — I have no evidence one way or the other. My thinking is that you want to see the effect of each one over a 1-2 week cycle. Note the herbs/probiotics with no effect and those with some effects. With Mutaflor, I was originally looking for a big effect: it was only because I was tracking symptoms that I

realized that one set disappeared and realized that it was actually changing things (since less symptoms — for the better).

Remember that each of us has a different mixture of microflora/gut bacteria — which appears to be **DNA** associated (fecal transplants work several times better when the donor is a blood relative). This also applies to the cartel of bacteria causing CFS.

I believe it is fine to increase the dosage but may be contraproductive to "double up" on taking things (i.e.

several things at the same time). Also remember rotation is a key part of the treatment **model**. First, you will not know what is the item that is causing the change, second, some items may interact with each other. For example there are pub med articles that suggests Haritaki and Mutaflor should not be taken together because the first inhibits the seconds.

Valerie on January 1, 2014 at 9:02 am

Hi Ken and Cort,

Ken, I was wondering about these products having dairy proteins in them and if there

are non dainy alternatives. I am coline and

allergic (by Elisa testing) to all dairy products (although I don't feel the symptoms from it). Do you know if there are kefirs and probiotics which do not have dairy from the ones you mentioned? I do believe VSL has some dairy in it and many others do too because of how they are made.

Maybe other people have found some alternatives to tell us about because dairy sensitivity, allergy as well as lactose intolerance seems common in ME/CFS.

Thanks so much for the article. I look forward to the one on herbs.

All the best.

Annie on January 3, 2014 at 11:57 am Hi Ken,

I'm on my third day of prescript assist and am possibly having a reaction, as feel very shaky and more lead like. I say possibly because I did a little bit more over Christmas (I am bedridden so a bit more for me means talking for longer) and I could just be reacting to that and getting some delayed PEM.

Should the reaction be to the prescript assist, should I continue hoping it will pass?

Many thanks

Annie

Ken Lassesen on January 3, 2014 at 1:06 pm

Hi Annie, I believe that I mentioned that any attempt to alter gut bacteria will, for a few people, result in a 'die-off' or herxheimer reaction. At one extreme, I personally known people that with a single (common) probiotic capsule will significantly herx, and the herx will continue for almost a week. With Mutaflor, both my wife and I had the worst headaches we have ever experienced during our first course (and the packet insert warns about headaches! — so that was not an unusual reaction to Mutaflor).

You are the one that must make the call on when "too much" happens and you take a break, allow the body to calm down, and then try a different one at a low dosage.

For those that are very

sensitive to probiotics and drink milk (or put milk in their tea or coffee), one solution is to open a single capsule and put it into a quart or half-gallon of milk. This results in a low dosage that is constantly added.

My daughter has just finished her 2nd bottle of Keifir (finding the ones with the most different species) and had bowel-distress for almost two weeks that has finally quieted down. We assume that she had made one minor step forward towards correcting her gut bacteria — and we see it in a change of mood and behavior.

Annie on January 3, 2014 at 2:52 pm

Thanks Ken. I will persevere as it's bearable. Could i open the prescript assist capsule and mix with water, allowing me to take say half a capsule a day?

Annie on January 3, 2014 at 2:57 pm

Ps to add before starting the prescript assist I took Nature's way probiotic including the reuteri for two weeks with no die off. As said, I could just be crashing after doing a bit more but just noting it may be the prescript assist. I'll continue to monitor

Annie on January 3, 2014 at 3:31 pm

Sorry another question. In a reply to one of my questions above you suggested a one week rotation of align, mutaflor, reuterk and prescript. Just to clarify do you suggest taking them one after the other with no breaks in between or do you one advise say one week mutaflor, followed by no probiotics, then one week prescript, one week no probiotics and so on. Just reading through your blog, I started to think you may suggest a week off probiotics between trying each one? Thanks

Ken Lassesen on January 3, 2014 at 5:15 pm

In general, take substance X for 7-10 days. Do a wash-out of at least 2-3 days (until things seem to stabilize (hopefully in a new and better normal) and then do the next item. Make notes of the changes you experienced. People experience on each item will

be different (because we have different gut bacteria and a different Cartel of CFS bacteria).

In general, when you herx — it is a good sign because it implies (but does not prove) that bacteria are being impacted that are likely causing some of your symptoms.

During my last relapse, I had a checklist of some 35 symptoms that I had and every 3-4 days went thru the list to log which ones were present. This allowed me to recognize that some symptoms had disappeared. Symptoms include items like "Niacin flush from 500 mg", how many minutes could I do Wii Fit (doing same sequence every day), etc.

Ken Lassesen on January 3, 2014 at 3:39 pm

Yes, you can mix with water — or even sprinkle on a peanut butter sandwich. Prescript Assist is robust.

Annie on January 3, 2014 at 7:02 pm

Thanks Ken you have been very helpful and generous with your time. Digressing slightly, I always read how low carb and low/no sugar diets starve the bad bacteria but is it not possible such diets also starve good bacteria as well? Is my thinking off track here? Many thanks

Ken Lassesen on January 3, 2014 at 7:52 pm

The answer really depends on what bacteria you are targeting. If it is an overgrowth from a sweet tooth then that is very likely to help.

"Lactobacilli grow by fermenting sugars and starches and produce lactic acid as their primary metabolic product." [2014] which is also seen with *saccharin*

http://www.ncbi.nlm.nih.gov/pubmed/24382146

And Lactobacilli is low (usually) in CFSer.... so it may be counter productive.

ATTITE OIT January 4, 2014 at 3.40 atti

Thanks Ken

Grant nancarrow on January 5, 2014 at 10:38

pm

Hello Ken

When I take big doses of some probiotics like mutaflor for example. Within a few hours I feel much better. But it does not last.

How did improvement progress for you? Did this kind of thing happen to you?

How do I get these probiotics to colonise the gut so the effects are permanent?

Thank you

Ken Lassesen on January 5, 2014 at 11:07 pm

Most probiotics are "pass thru and kick start some process".

Two of them are likely to be colonizers because their source was a human: BioGala

L. Reuteri and Mutaflor. I say likely because of the DNA – gut bacteria association.

For myself, there were up and

downs during recovery (and I keep monitoring — if there are any negative signs, I will double-dose one probiotic for a week. The rationale (may not be true) is that the sign suggests a new bacteria is trying to get established — if I slam another bacteria into the same space, it's ability to get established may be subverted significantly. In this case, I am using the "pass-thru" probiotic as a disruptor of a suspected negative gut bacteria that seem to be increasing.

My attitude if I start getting sick (from ANY thing, such as legitimate flu, etc) is to accept that infections alter gut bacteria — if I intentionally alter it by high dosages of probiotics, then the infectiongut bacteria co dependency may be subverted and the infection period will be shorter and symptoms milder. All theory/speculation based on the findings in the literature.

Back to your question, I tended

somewhat comes out of a story in the New Testament:
Chucking out an evil spirit
(bacteria) leaves an empty
house, if this vacuum is not occupied, then seven evil spirits move in as a result. This is very much the case with
Prescript Assist being intended for use after prescription antibiotics.

Have you checked this posts on my own blogs?

http://cfsremission.wordpress.com/2013/12/26/why-jadins-antibiotics-protocol-usually-work-pasteur-institute-got-the-solution-right-and-the-explanation-wrong/

The table is helpful and I am hoping to put together the same type of table for herbs in the next few weeks.

Grant nancarrow on January 5, 2014 at 10:42

pm

Sorry I forgot to ask. Have you heard of anyone trying the new fecal pills?

Ken Lassesen on January 5, 2014

at 11:11 pm

Not personally. We have two dogs, and dogs tend to naturally do "dog probiotics" (eat p...) and that story put a very different perspective on their behavior from an evolutionary perspective.

Grant nancarrow on February 11, 2014 at 8:24

pm

Ken do you know if it is possible to culture prescript assist?

Ken Lassesen on February 11, 2014 at 9:13 pm

Yes it is possible – after all it is commercially produced. How is the question.

http://www.sciencedirect.com/science/article/pii/S0023643801908333

hints that every probiotic require different medium for best growth. What the medium is for this is unclear.

There are some hints in this article on growing soil-based bacteria.

http://aem.asm.org/content/68/5/2391.full

IVIGIR UITIVIAY 1, ZUI4 at J.JJ pili

Hi Ken,

I don't know if youre still reading the comments from this article but I had a question for you about this quote...... "The mother's microbiome appears to be DNA compatible with the child. Mother's pass their microbiome to their children by the children sticking their fingers into their mother's and father's mouths. Messy kids are likely healthy kids. Microbiomes from another person may be rejected or fail to thrive because they are not compatible with the person's DNA."

My question is.....do you know of any research that supports the claim that microbiomes from another person (non familial DNA lineage) may be rejected or may not thrive in the gut of a recipient of that foreign biome? I think its a very important question for those of us considering doing FMT. From my research it appears that many people are having success with FMT (Fecal Microbiota Transplant) for many conditions but primarily C Diff infection, Ulcerative Colitis, Crohns and IBS, many of those persons using the fecal material of non family members. Im curious if you have found research which speaks to the idea of rejection of non familiar biomes.

Thanks!

Trackbacks/Pingbacks

1. Celebrex with Valtrex: A PubMed review | CFS Remission - [...] T wrote on Health Rising asked [...]