

3 IMBALANCES, 5 BACTERIA AND 10 PROBIOTICS

BONUS PRESENTATION

CLINICAL MASTERY OF

THE DIGESTIVE SYSTEM

THE ROAD TO HEALTH IS PAVED WITH **GOOD INTESTINES**



THANK YOU FOR BEING HERE

TAKING OUR KNOWLEDGE FURTHER



IN THIS PRESENTATION

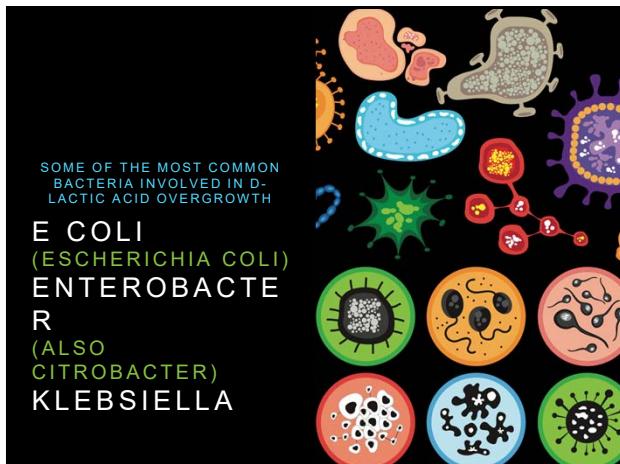
- three important digestive imbalances
- five important invasive organisms
- most reliable testing for each
- ten probiotic bacteria that can help
- how to choose probiotics for the WHOLE person

FIRST DIGESTIVE IMBALANCE D LACTIC ACID OVERGROWTH



D LACTIC ACID OVERGROWTH

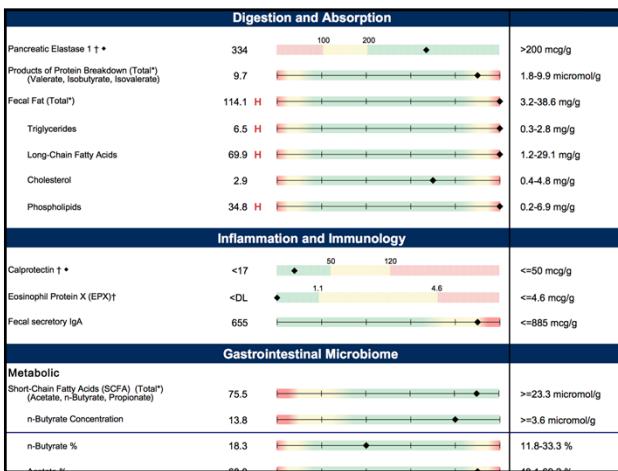
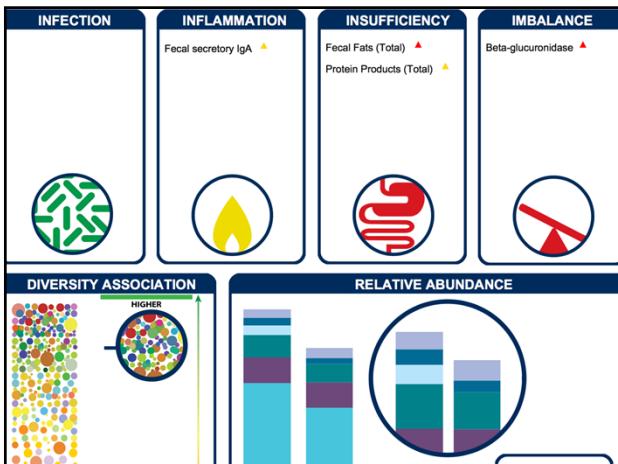
- Organisms producing too much D-lactic acid
- Insufficient organisms breaking down D-lactic acid
- Our bodies have difficulty neutralizing D-lactic acid
- Often hand-in-hand with adrenal fatigue
- Changes the environment in the small intestine IF the bacteria are located there
- Interferes with our absorption of minerals and amino acids
- Displaces beneficial bacteria and encourages yeasts and parasites



E. COLI

- Anaerobic or Aerobic depending on the environment
- Many subspecies' including Shigella, hundreds of E Coli strains identified
- Some strains have also been linked to UTIs and mastitis
- Produce K2, glutathione, Beta-glucuronidase, D-lactic acid
- Common in the large intestine, can interfere with the environment in the small intestine
- Some strains can become easily resistant to drugs, herbs, oils and extracts (including the UTI E coli) and have a double cell wall
- Some strains have been found to cause obesity
- Can feed Candida

GENOVA TEST (CDSA)





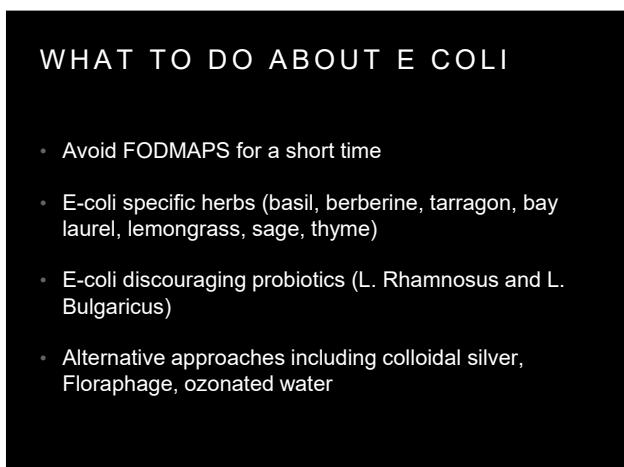
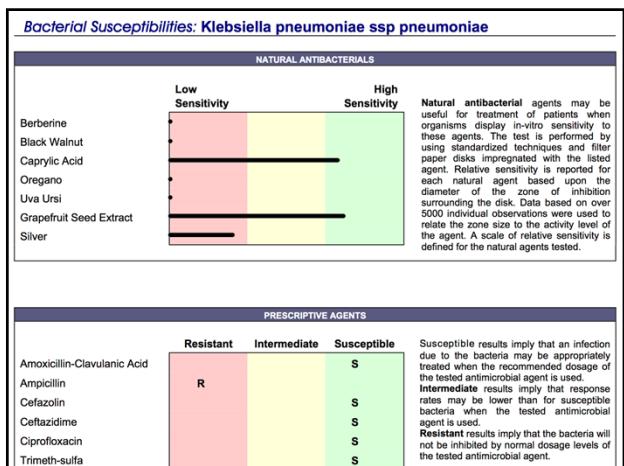
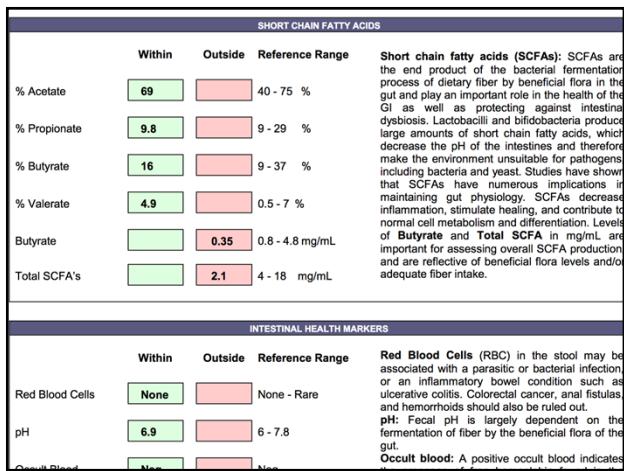
BIO-HEALTH 401 TEST

GI Pathogen Screen with <i>H. pylori</i> Antigen - 401H	
Parameter	Result
*** Stool Culture ***	
Preliminary Report	Normal flora after 24 hours
Final Report	* <i>Escherichia coli</i> isolated *
Amount of Growth	Abundant
*** Ova & Parasites ***	
Ova & Parasites #1	No Ova/Parasites detected
Ova & Parasites #2	No Ova/Parasites detected
Ova & Parasites #3	No Ova/Parasites detected
Ova & Parasites #4	No Ova/Parasites detected
Trichrome Stain	No Ova/Parasites detected
*** Stool Antigens ***	
Cryptosporidium Antigen	Not detected
Giardia lamblia Antigen	Not detected
*** Additional Tests ***	
Fungi	No fungi isolated
<i>C. difficile</i> Toxin A	Not detected
<i>C. difficile</i> Toxin B	Not detected
Yeast	No yeasts isolated

DOCTORS' DATA COMPREHENSIVE

Comprehensive Stool Analysis / Parasitology x3		
BACTERIOLOGY CULTURE		
Expected/Beneficial flora	Commensal (Imbalanced) flora	Dysbiotic flora
3+ <i>Bacteroides fragilis</i> group	3+ <i>Alpha hemolytic strep</i>	3+ <i>Klebsiella pneumoniae</i> ssp <i>pneumoniae</i>
1+ <i>Bifidobacterium</i> spp.	1+ <i>Staphylococcus lugdunensis</i>	
4+ <i>Escherichia coli</i>		
1+ <i>Lactobacillus</i> spp.		
2+ <i>Enterococcus</i> spp.		
3+ <i>Clostridium</i> spp.		
NG = No Growth		
BACTERIA INFORMATION		
Expected/Beneficial bacteria make up a significant portion of the total microflora in a healthy & balanced GI tract. These beneficial bacteria have many health-protecting effects in the GI tract including manufacturing vitamins, fermenting fibers, digesting proteins and carbohydrates, and propagating anti-tumor and anti-inflammatory factors. Giardia is a common pathogen found in a healthy intestine. <i>Clostridium</i> spp. should be considered in the context of balance with other expected/beneficial flora. Absence of <i>Clostridium</i> or over abundance relative to other expected/beneficial flora indicates bacterial imbalance. If <i>C. difficile</i> associated disease is suspected, a Comprehensive <i>Clostridium</i> culture or <i>C. difficile</i> DNA test is recommended. Commensal (Imbalanced) bacteria are usually neither pathogenic nor beneficial to the human tract. Imbalances can occur when there are insufficient levels of beneficial bacteria or when there are too many bad bacteria. Certain commensal bacteria are reported as dysbiotic at higher levels. Dysbiotic bacteria consist of known pathogenic bacteria and those that have the potential to cause disease in the GI tract. They can be present due to a number of factors including: consumption of contaminated water or food, exposure to chemicals that are toxic to beneficial bacteria; the use of antibiotics, oral contraceptives or other medications; poor fiber intake and high stress levels.		
YEAST CULTURE		
Normal flora	Dysbiotic flora	
No yeast isolated		

	Within	Outside	Reference Range	
Elastase	459		> 200 µg/mL	Elastase findings can be used for the diagnosis or the exclusion of exocrine pancreatic insufficiency. Correlations between low levels and chronic diarrhea and malabsorption have been reported. Fat Stain: Microscopic determination of fecal fat using Sudan IV staining is a qualitative procedure utilized to assess fat absorption and to detect steatorrhea. Muscle fibers in the stool are an indicator of incomplete digestion. Bloating, flatulence, feelings of "fullness" may be associated with increase in muscle fibers. Vegetable fibers in the stool may be indicative of inadequate chewing, or eating "on the run". Carbohydrates: The presence of reducing substances in stool specimens can indicate carbohydrate malabsorption.
Fat Stain	None		None - Mod	
Muscle fibers	None		None - Rare	
Vegetable fibers	Rare		None - Few	
Carbohydrates	Neg		Neg	
INFLAMMATION				
	Within	Outside	Reference Range	
Lactoferrin	< 0.5		< 7.3 µg/mL	Lactoferrin and Calprotectin are reliable markers for differentiating organic inflammation (IBD) from functional symptoms (IBS) and for management of IBD. Monitoring levels of fecal lactoferrin and calprotectin can play an essential role in determining the effectiveness of therapy, are good predictors of IBD remission, and can indicate a low risk of relapse. Lysozyme* is an enzyme secreted at the site of inflammation in the body. High levels of lysozyme have been identified in IBD patients. White Blood Cells (WBC) and Mucus in the stool can occur with bacterial and parasitic infections, with mucosal irritation, and inflammatory bowel diseases such as Crohn's disease or ulcerative colitis.
Calprotectin*	12		<= 50 µg/g	
Lysozyme*	58		<= 600 ng/mL	
White Blood Cells	None		None - Rare	
Mucus	Neg		Neg	



ENTEROBACTER

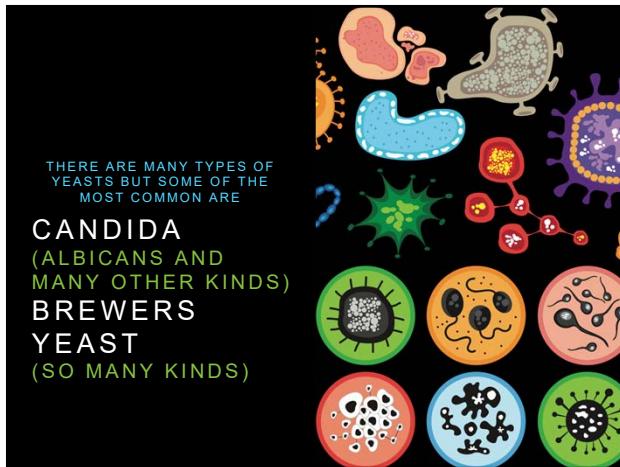
- Anaerobic
- Eats glucose and lactose
- Produces D-lactic acid and *plenty* of histamine
- Common in the large intestine, can interfere with the environment in the small intestine
- Some strains can become easily resistant to drugs, herbs, oils and extracts
- Has been associated with ulcerative colitis, particularly *citrobacter*
- Can feed *Candida*

WHAT TO DO ABOUT ENTEROBACTER

- Avoid FODMAPS for a short time
- Enterobacter specific herbs (berberine, rosemary, cinnamon)
- Enterobacter discouraging probiotics (L. Rhamnosus, L. Bulgaricus, Bifidobacterium)
- Use Bifidobacterium to balance out the histamines, particularly B. Infantis and B Adolescentsis
- Direct DAO supplementation
- Alternative approaches

YEAST OVERGROWTH

- Too many bacteria feeding the yeast
- Too much sugar feeding the yeast
- Not enough action/movement/antioxidant activity in the small and large intestine
- Not enough stomach acid
- Stagnant digestion
- Trace mineral deficiencies
- EMFs





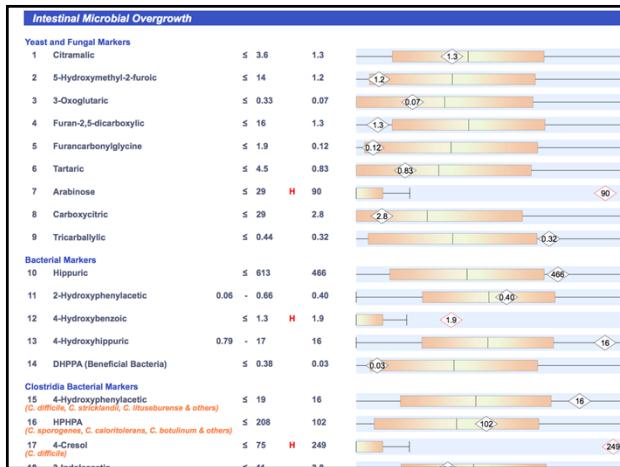
YEASTS HAVE BEEN ASSOCIATED WITH

- Fibromyalgia
- Headaches
- Fatigue
- Acne
- Dry Skin
- Thyroid Conditions
- Gluten cross-reactivity

TESTING FOR YEASTS

- saliva test (home)
- bacterial test
- blood test
- blood analysis
- stool testing
- OAT or MOAT test (Meridian Valley)



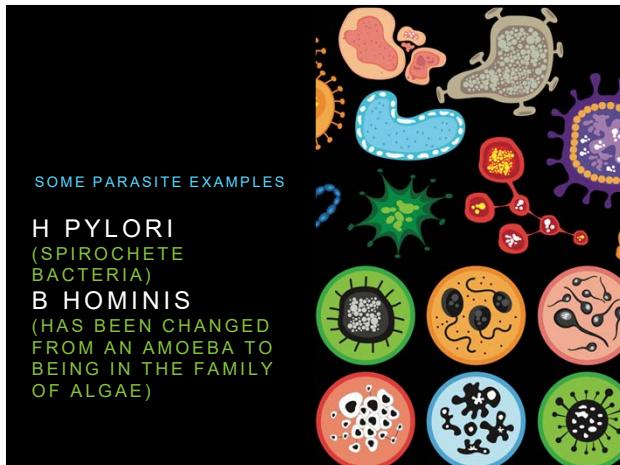


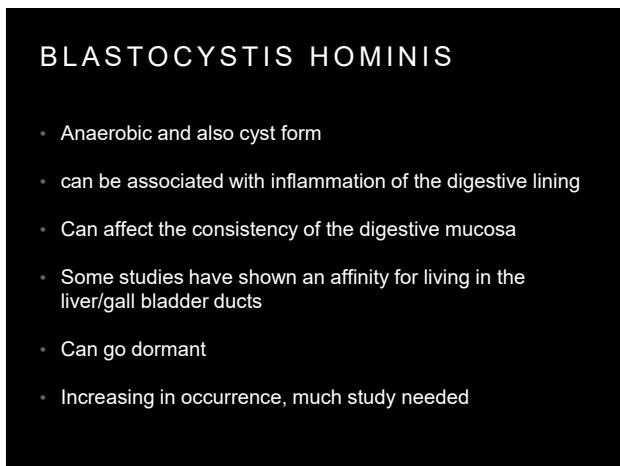
WHAT TO DO ABOUT CANDIDA

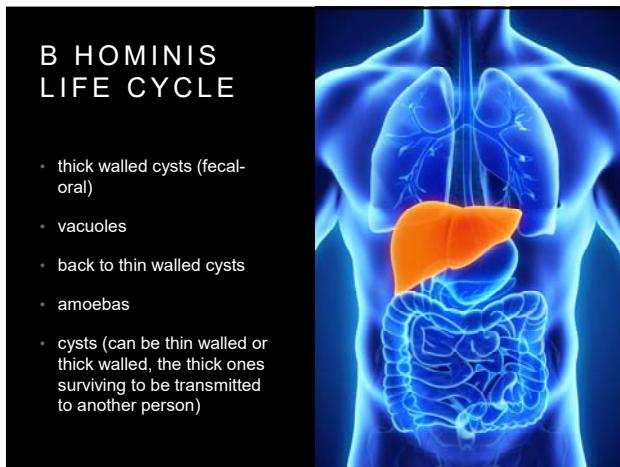
- Avoid processed foods and simple sugars
- Avoid other yeasts that are causing reactions
- Avoid Kombucha
- Direct DAO supplementation or Bifidum Infantis/Adolescentis
- Alternative approaches
- Biofilm disruptors
- Trace minerals (especially Molybdenum, Germanium, Boron)
- B vitamins, especially B1

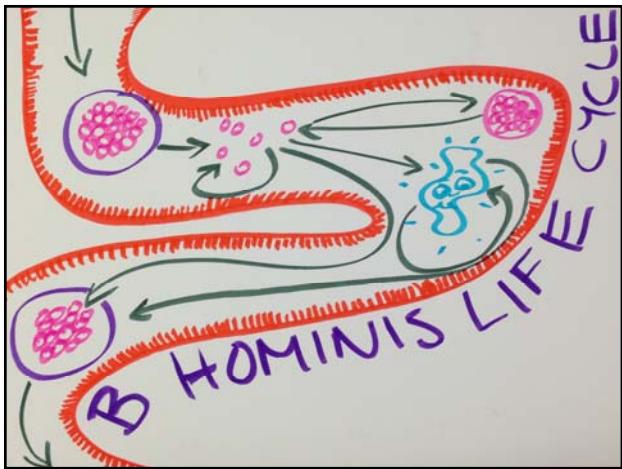
PARASITE OVERGROWTH

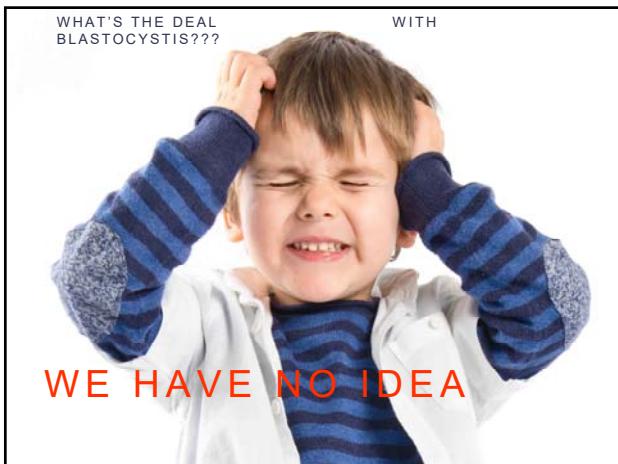
- Low levels of stomach acid
- Low motility
- Exposure
- Yeasts and other bacterial co-infections
- Trace mineral and vitamin deficiencies







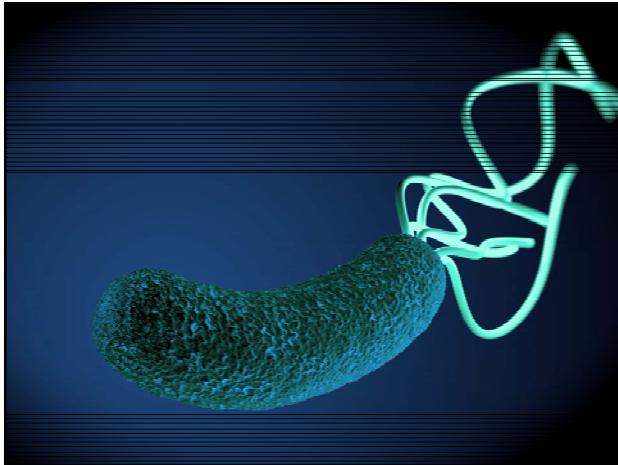






HELICOBACTER PYLORI

- Spirochetes
- Prefer a low acid (more alkaline) environment
- Can attack the parietal cells and interfere with stomach acid production
- Can hide in the stomach wall and mucosa very effectively if the environment is not to their liking



H PYLORI

- can exacerbate protein and mineral malabsorption
- can create a situation without the signalling for the liver and pancreas and migrating motor complex to do their work
- has been strongly linked to stomach and duodenal cancer
- can cause GERD/heartburn
- can contribute to leaky gut in the duodenum
- make histamine



WHAT TO DO ABOUT H PYLORI

- Biofilm disruptors
- Herbs: Horse Chestnut, Neem, Olive Leaf, Celery Seed
- Antioxidant foods: Blueberries, Amla, Pomegranate, Sour Cherry, goji berries, cilantro, cloves, turmeric, cinnamon, acai
- Meadowsweet tea
- Vitamin C (3000 mg was shown to be effective in 40% of H. Pylori cases studied)



LACTOBACILLUS PLANTARUM

SUPPRESS SKIN INFECTIONS

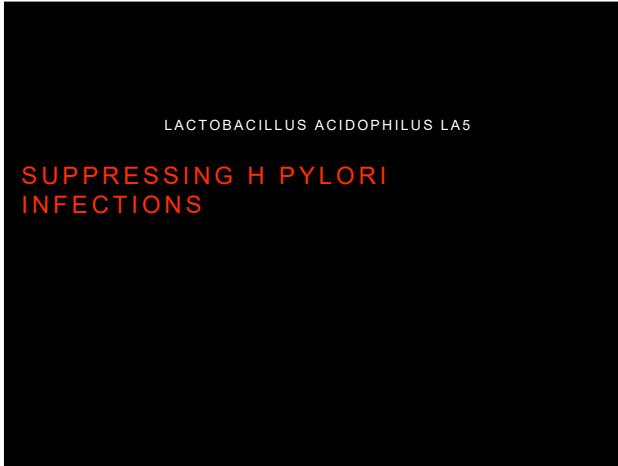


LACTOBACILLUS BULGARICUS

SUPPRESS E. COLI OVERGROWTH







LACTOBACILLUS REUTERI

ENHANCED IMMUNITY

BIFIDUM INFANTIS

REDUCTION OF OXALATES

BIFIDUM BREVE

REDUCE IBS SYMPTOMS



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EBOOK

