

## IN THIS PRESENTATION

- 3 tests that will change everything for your clients
- 5 things to find out in your consultations
- The pros and cons of the most popular tests
- 5 things you cannot afford to miss with your clients



HOW DO DIGESTIVE IMBALANCES AFFECT OUR CLIENTS?

## WHY SHOULD WE CARE?



A pug dog is sitting and reading a newspaper titled "DAILY DOG". The dog is looking directly at the camera with a curious expression. The newspaper has several columns of text and a small photo of a dog on the front page.

## 5 PRINCIPLES OF GUT HEALTH

- Transform the digestive environment
  - FIX THIS PLACE UP
- Restore balanced micro biome
  - PROTECTIVE PROBIOTIC PARTY
- Everything responds to good nutrition
  - NUTRIENTS FOR THE WIN
- Modify behaviours
  - STOP MAKING THINGS WORSE
- Transform stress
  - FUN = DIGESTIVE TONIC



TIME + NUTRITION - DAMAGE  
= DIGESTIVE HEALTH

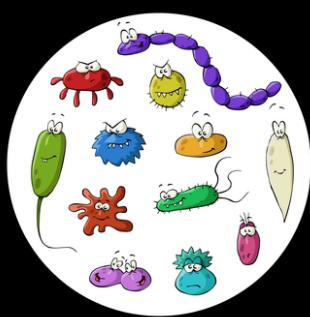
A cluster of blue, rod-shaped bacteria against a dark, colorful background. Below the image is a dark purple box containing the text "TIME + NUTRITION - DAMAGE = DIGESTIVE HEALTH" in yellow.

3 STEPS TO THE  
ROOT OF DYSBIOSIS

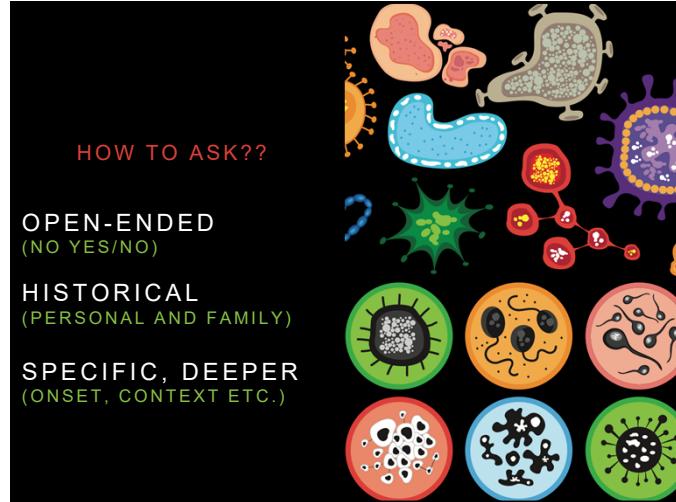
GOOD INTERVIEW  
SKILLS

RELIABLE  
TESTING

PERSPECTIVE

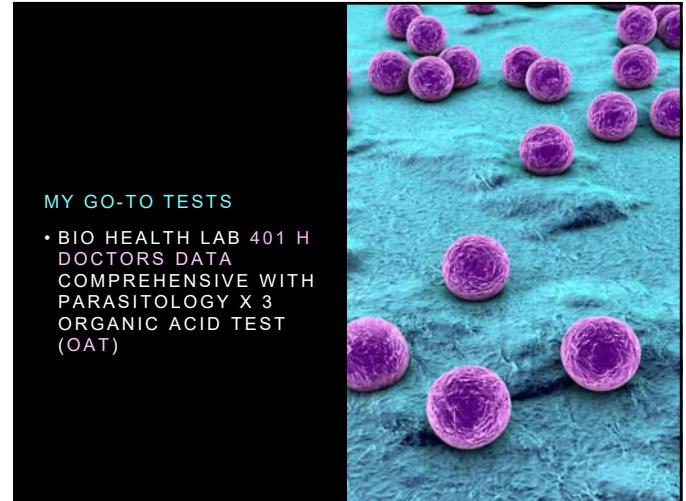


A circular illustration featuring various cartoon bacteria characters with faces, including a green one, a purple one, a red one, and a blue one, all with different expressions.



### ASK QUESTIONS AROUND:

- GERD, heartburn, reflux
- Yeast
- Small intestinal imbalances
- Food (including gluten)
- Amoebic parasites



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## BIO HEALTH 401H PROS

- Most accurate for H. Pylori
- Most accurate for amoebic parasites
- Easy to read and understand

GI Screen with H. pylori Antigen - 401H			
Microscopy			
	Sample I	Sample II	Sample III
Ova/Parasites	Entamoeba coli;	Entamoeba coli; Giardia lamblia	Giardia lamblia
Trichrome Stain	Entamoeba coli	Entamoeba coli; Giardia lamblia	Giardia lamblia
Yeast	Moderate	Moderate	Moderate

Each stool sample was prepared for microscopic evaluation on wet mount and trichrome stains, utilizing resource-intensive techniques to aid in the analysis and detection of organisms. Yeast, when visibly identified, is reported in terms of predominance on the sample. If 'QNS' is reported, the patient's sample was inadequate for testing purposes.

Antigen			
	Cryptosporidium parvum	Giardia lamblia	Helicobacter pylori
	NOT DETECTED	DETECTED	NOT DETECTED

Stool antigen tests are widely used for their non-invasive nature, high sensitivity, and high specificity. Detection of antigens on the surface of organisms in stool specimens is the current test of choice for pathogen diagnosis and provides increased sensitivity over more common microscopy techniques, while avoiding the false positives of DNA-based methods.

Cultures	
Bacteria	Yeast
Citrobacter spp.: NG	Candida Spp.: +2
Enterobacter spp.: NG	Identification: Candida albicans
Escherichia coli: +4	Other Yeast Identified: No other yeast identified
Klebsiella spp.: +3	
Identification: Klebsiella oxytoca	
Proteus spp.: NG	
Pseudomonas spp.: NG	
Other Bacteria spp. Identified: No other bacteria identified	

## WHAT TO LOOK FOR ON THE 401H

- H. Pylori
- D. Fragilis, B. Hominis and other amoebic parasites
- E. Coli and other bacteria

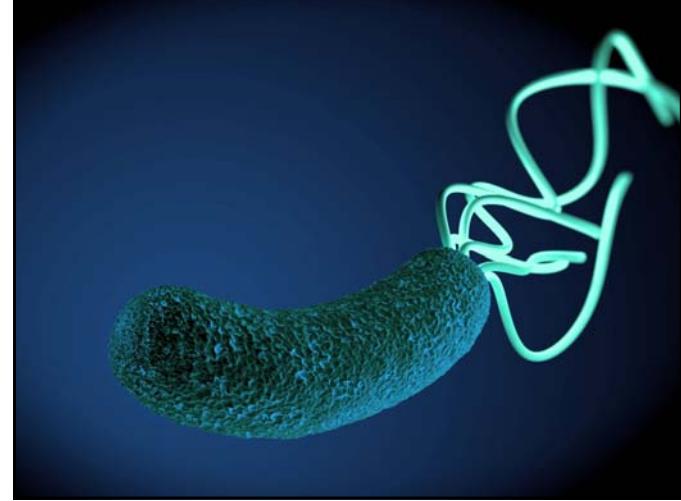
## HELICOBACTER PYLORI

- Prefer a low acid (more alkaline) environment
- Produce bicarbonate
- Can attack parietal cells, interfering with stomach acid
- Spirochetes, can hide in the stomach wall and mucosa

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**H PYLORI**

- can contribute to leaky gut in the duodenum
- strongly linked to stomach and duodenal cancer
- make histamine
- have been associated with hypothyroid and autoimmunity



**DOCTORS DATA COMPREHENSIVE W/ PARASITOLOGY PROS**

- Tests bacteria/yeasts for **susceptibility** to herbs + pharmaceuticals
- Always shows **Bifidobacterium** and **Lactobacillus**
- Shows **SIgA** and short chain fatty acids in the sample
- Easy to read and understand, **colourful**

*Comprehensive Parasitology, stool, x3*

BACTERIOLOGY CULTURE		
Expected/Beneficial flora	Commensal (imbalanced) flora	Dysbiotic flora
4+ Bacteroides fragilis group	2+ Citrobacter freundii complex	4+ Enterobacter cloacae complex
1+ Bifidobacterium spp.	2+ Klebsiella pneumoniae ssp pneumoniae	4+ Enterobacter cloacae complex, isolate 2
4+ Escherichia coli		3+ Pseudomonas aeruginosa
NG Lactobacillus spp.		
4+ Enterococcus spp.		
2+ Clostridium 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-tumour and anti-inflammatory factors.

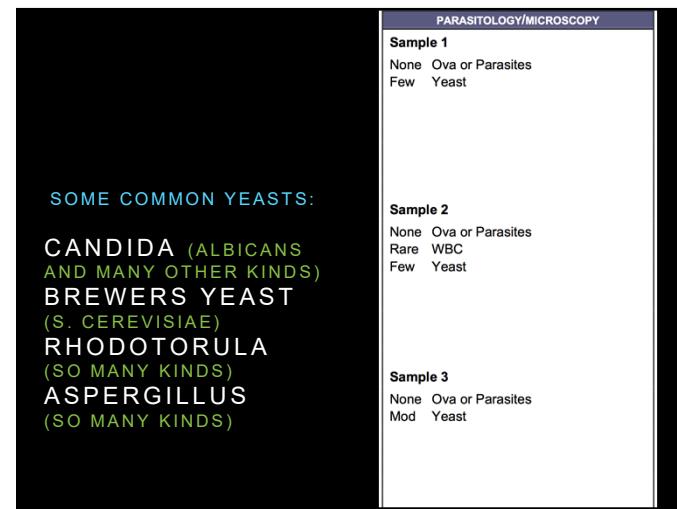
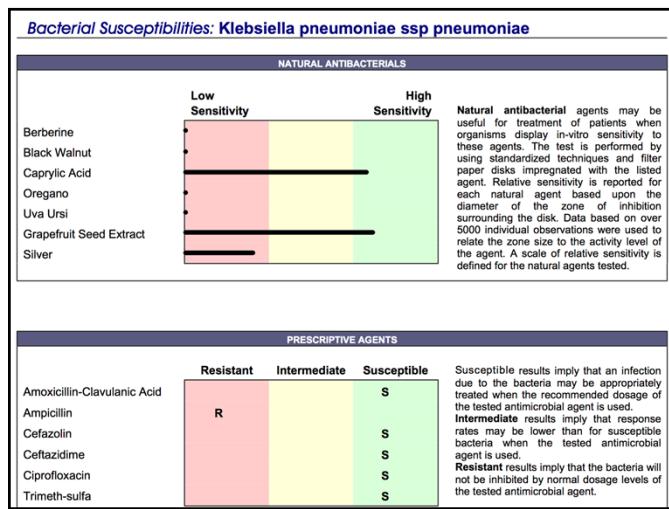
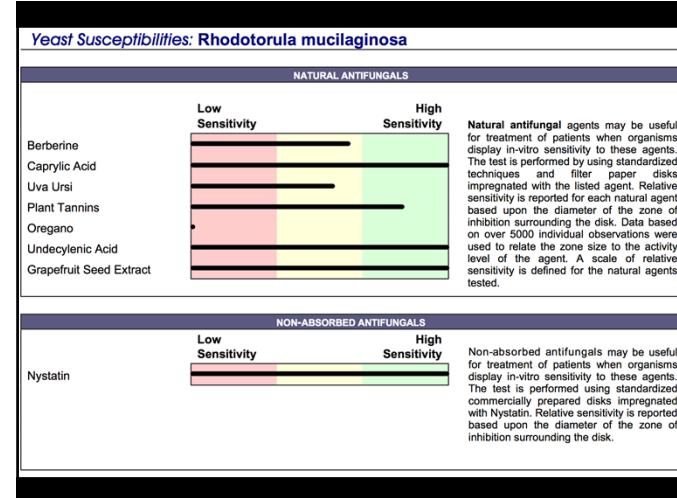
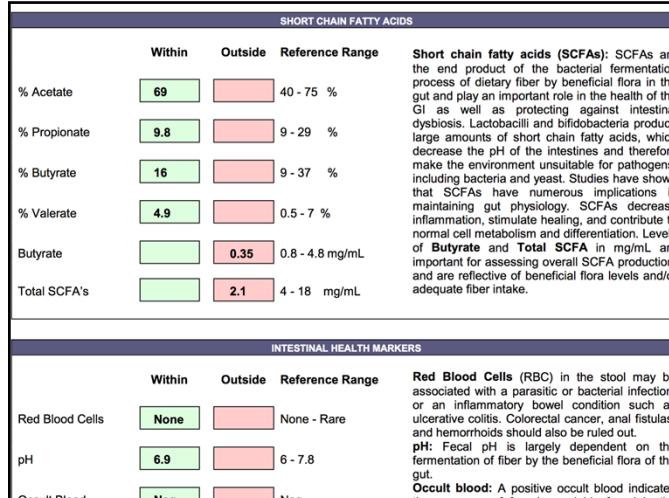
Clostridia are prevalent flora in a healthy intestine. Clostridium spp. should be considered in the context of balance with other expected/beneficial flora. Absence of clostridia or over abundance relative to other expected/beneficial flora indicates bacterial imbalance. If *C. difficile* associated disease is suspected, a Comprehensive Clostridium culture or toxicogenic *C. difficile* DNA test is recommended.

Commensal (imbalanced) bacteria are usually neither pathogenic nor beneficial to the host GI tract. Imbalances can occur when there are insufficient levels of beneficial bacteria and/or increased levels of commensal 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
1+ Rhodotorula mucilaginosa	

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## WHAT TO LOOK FOR ON THE DOCTORS' DATA COMPREHENSIVE W PARASITOLOGY

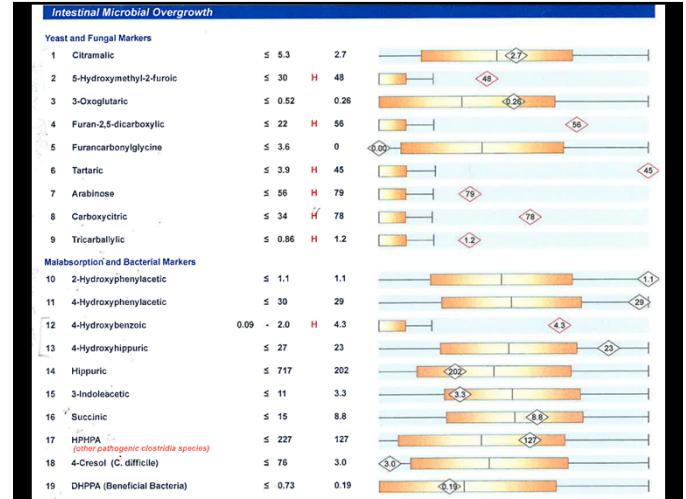
- Yeast and bacterial susceptibilities
- IgA
- Short chain fatty acid levels
- Beneficial bacteria levels
- E. Coli, Klebsiella and other dysbiotic bacteria in context

## E. COLI

- Some strains have been linked to **UTIs** and mastitis
- Produce K2, glutathione, **D-lactic acid**
- Some strains can become easily resistant to drugs, herbs, oils and extracts (**double cell wall**)
- Some strains have been found to **cause** obesity

## ORGANIC ACID TEST PROS

- Markers for oxalates
- Markers for yeast and bacterial overgrowths
- Markers for neurotransmitters
- Markers for C. diff
- MMA (builds up in B12 deficiency)

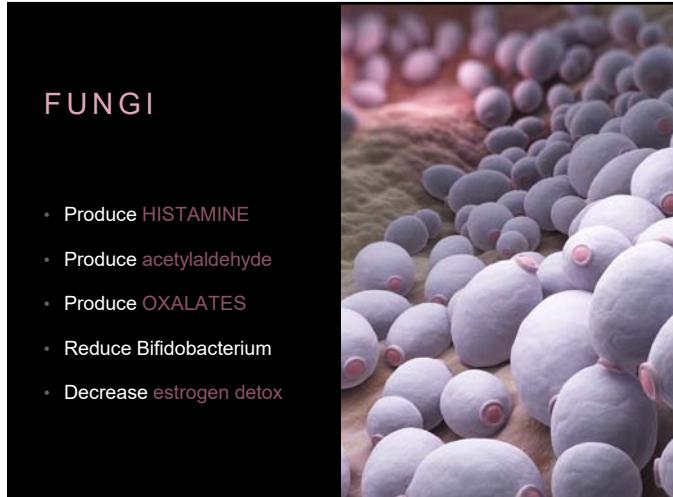


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## WHAT TO LOOK FOR ON THE OAT

- Markers for yeast/bacteria
  - **Arabinose**, citromalic acid, tartaric acid, furan-2,5-dicarboxylic acid, more...
- Markers for high oxalates
  - **Glyceric**, **glycolic**, **oxalic** acid
- Markers for neurotransmitters
  - **Quinolinic acid/5-HIAA ratio**



- Produce **HISTAMINE**
- Produce **acetylaldehyde**
- Produce **OXALATES**
- Reduce **Bifidobacterium**
- **Decrease** estrogen detox

## YEASTS/FUNGI LINKED TO:

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



## WHAT ABOUT THE U-BIOME TEST?

- Can show families but **not species and strain specificity** (yet)
- Can show the bacteria associated with colon cancer but not **what allowed them to grow**
- Can only tell you **fun facts** about the bacteria

## SOME CONTEXT

- **E. Coli** in the small intestine can acidify the environment
  - associated with gluten sensitivity and weight gain
- **Klebsiella** can break down the mucosa
  - required for nutrient absorption, enzymes and protection
- Gut flora will grow to consume **what we can't digest**
- Bifidobacteria can = 10% of our gut flora
- **Lactobacillus** can be **2%** of our gut flora

THANK YOU FOR BEING HERE  
LET'S PLAY A LITTLE GAME!



### HOW TO PLAY

- Follow the instructions on your sheet (client 1 + 2)
- Decide **which tests** are best for your client
- Describe to your client how their specific concern is related to their digestion
- **Describe the steps** necessary to achieve your client's goals



GO TO

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DIGESTIVE  
ASSESSMENT MINI-  
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