

## **Gut & Psychology Syndrome** (2010 revised edition) by Dr. Natasha Campbell-McBride

**CLASS: G110** 

This is your test but... do not try to fill in the blanks! We created a Test Answer Sheet which is easy to download, fill in the answer, and email.

Pa	rt One: Chapter 1
b	GAPS children and adults have problems, sometimes quite severe. Colic, loating, flatulence, diarrhea, constipation, feeding difficulties and malnourishment, all to arious degrees, are a part of autism, schizophrenia and other GAPS conditions.
	The main issue is: autistic children have enlarged and inflamed lymph nodes in their wall, which is a clear sign of a fight with some going on there.
Pa	rt One: Chapter 2
С	Symbiotic relationships are ones where neither party can live without the other. We humans, annot without these tiny micro-organisms, which we carry on and in our bodies everywhere.
	Sut micro-flora can be divided into three groups:  1 2 3
fr v	Vithout protection the gut wall is open to invasion by anything that comes along: a virus rom vaccination or the, a ubiquitous fungus such as <i>Candida albicans</i> , arious bacteria and and toxic substances, all of which are very capable of lamaging our digestive system and causing a chronic inflammation in its walls.
	is the action on the dietary fiber that allows it to fulfill all those good unctions in the body.

no harm to human health but, serotype O157:H7, which is normal flora in bovine intesting causes bloody diarrhea and can sometimes cause kidney failure and even death. <i>E. co</i> O157:H7 is called a Shiga toxin-producing <i>E. coli</i> (STEC). There are other types of STE can make you just as sick as <i>E. coli</i> O157:H7.	li
<ol> <li>Apart from digesting, physiological strains of <i>E. coli</i> produce vitamin K2 vitamins B1, B2, B6, B12, produce antibiotic-like substances, called, and other members of their own family which can cause disease.</li> </ol>	
8. People with abnormal gut flora have multiple deficiencies due to all the described above.	e factors
Part One: Chapter 3	
9. In GAPS people, due to the abnormalities in their gut flora, viruses from the vaccine environment have a good chance to and A good environment have a good in the gut wall and spinal fluid of autistic children.	
10. It has been estimated that around 80-85% of our is located in the g	gut wall.
Part One: Chapter 4	
11. Farm animals and poultry are routinely given so all the products we from them (meat, milk, eggs) will provide us with a constant supply of antibiotics and antibiotic-resistant bacteria, which these animals develop in their bodies as well as toxins which these bacteria produce.	d
12. TRUE or FALSE: Antibiotics change bacteria, viruses, and fungi from benign to path giving them the ability to invade tissues and cause disease.	nogenic,
13. Which particular group of antibiotics allow bacteria normally found only in the bowe move up to the intestines, which predisposes the person to development of IBS (Irri Bowel Syndrome) and other digestive disorders?	

Note: Several types of E. coli exist as part of the normal flora of the human gut and have many

(pathogenic) bacteria, from establishing themselves in the intestine. Most E. coli strains pose

beneficial functions, such as the production of vitamin K2. They also prevent harmful

14.	reaction in the body against its own gut.
15.	Aminoglycosides (the -mycins like Erythromycin) have a particular devastating effect on colonies of beneficial bacteria in the gut such as physiological <i>E. coli</i> and
16.	Nystatin is an antibiotic which leads to selective stimulation of growth of the <i>Proteus</i> family and lactose-negative <i>E. coli</i> species, capable of causing disease.
17.	Processed and sugary carbohydrates (white bread, cakes, biscuits, pastries and pasta) also promote population of the gut with and other
Ра	rt One: Chapter 5
18.	There are around different species of opportunistic flora in the human gut.
19.	TRUE or FALSE: Candida can cause "leaky" guts, food allergies, and food intolerances?
20.	Opportunistic flora constantly produces, which are the by-products of their metabolism.
21.	An excess of histamine in the body is called
22.	Clostridium difficile causes a potentially pseudo-membranous colitis.
23.	Sulphates are needed in the body for many functions, some of which are and normal metabolism of brain
Ра	rt One: Chapter 6
On	e only sees what one looks for, one only looks for what one knows Goethe
24.	Alcohol and acetaldehyde render a lot of essential nutrients useless in the body. For example, binding to proteins, acetaldehyde causes functional deficiency of vitamin, which is a co-factor in production of neurotransmitters, fatty acid metabolism and many other functions in the body.

25.	The thyroid gland may be pro occupied by acetaldehyde an	ducing plenty ofd d other toxins.	, but their working sites are
26.	is a protein p	resent in grains, mainly wheat,	rye, oats and barley.
27.	is a milk prote milk products.	ein, present in cow, goat, sheep,	human and all other milk and
28.		sential for protein digestion, as i eaking down proteins into shorte	
29.	comes from their	APS children and adults are very system. So it is the person and foremost in order to treat the	i's digestive system we have
Ра	rt One: Chapter 7		
30.		ill has the same damaging influe the pill have an ability to suppre odily flora.	

"The emerging links between our gut microbiome and the central nervous system (CNS) are regarded as a paradigm shift in neuroscience with possible implications for not only understanding the pathophysiology of stress-related psychiatric disorders, but also their treatment. Thus the gut microbiome and its influence on host barrier function is positioned to be a critical node within the brain-gut axis. Mounting preclinical evidence broadly suggests that the gut microbiota can modulate brain development, function and behavior by immune. endocrine and neural pathways of the brain-gut-microbiota axis. Detailed mechanistic insights explaining these specific interactions are currently underdeveloped. However, the concept that a "leaky gut" may facilitate communication between the microbiota and these key signaling pathways has gained traction. Deficits in intestinal permeability may underpin the chronic lowgrade inflammation observed in disorders such as depression and the gut microbiome plays a critical role in regulating intestinal permeability."

Kelly JR, Kennedy PJ, Cryan JF, Dinan TG, Clarke G, Hyland NP. Breaking down the barriers: the gut microbiome, intestinal permeability and stress-related psychiatric disorders. Frontiers in Cellular Neuroscience. 2015;9:392. doi:10.3389/fncel.2015.00392.

31.	compromised by our modern life styles.
32.	For years we believed that the in a pregnant woman protects the fetus from any toxins which the woman might have in her body. Recent studies show that we were wrong. The accumulates most toxins which the mother is exposed to.
33.	On the whole, having met many families with GAPS children, I usually find that the whole needs treatment.
Pa	rt One: Chapter 8
34.	However, if the child's immune system is severely compromised, then the child will get ill even if are completely avoided.
35.	Concerning our current standard vaccination protocol there is a strong argument to administer single vaccines only rather than combined vaccines, like MMR and DPT. In a natural situation a child would never be exposed to,, and at the same time.
Ра	rt One: Chapter 9
36.	The only treatment modern psychiatry can offer schizophrenic patients is drugs.
37.	There is a certain group of schizophrenics who may not be schizophrenic at all but Pellagra is a deficiency of vitamin B3 (niacin or niacinamide).
Ра	rt One: Chapter 10
38.	Define idiopathic:
39.	How do the diets work? In my opinion, what unites all these diets is the low content.
40.	According to the author, the majority of epileptic seizures are the result of:  1. damaged

## Part Two: Chapter 1

Qu	estions start at page 99.
41.	The most common carbohydrates are, and
42.	Galactose is found in products, like yogurt.
43.	All grains and some root vegetables are very rich in
44.	To allow enterocytes to recover and to stop feeding abnormal gut flora, starch has to be curout of the diet for GAPS children and adults. It means grains or made out of them and no vegetables.
45.	The best sources of easy-to-digest and very nourishing proteins are,, and fish.
46.	To be absorbed fats require
47.	Impaired absorption of fats also causes deficiencies in vitamins: A,D, E, and K.
No	processed foods, please!
48.	Processed carbohydrates get absorbed very, producing an unnaturally rapid increase in blood glucose. A rapid increase in blood glucose, called, puts the body into a state of shock, prompting it to pump out lots of insulin very quickly to deal with the excessive glucose.
49.	As a result of this over-production of insulin, about an hour later the person has a low level of blood glucose, called
50.	The fiber in breakfast cereals is full of substances that bind essential minerals and take them out of the system, contributing to a patient's mineral deficiencies.

	fatty acids in cellular structure, making the cells	
	Being a staple in the Western world, is also a number one cause of food allergies and intolerances.	
53.	Sugar was once called a "white death". It deserves of this title.	
54.	Fruit juices are full of fruit sugars and molds.	
	Soy is a natural It has the ability to impair absorption and reduce thyroid function.	
get No	e: It is important to read the diet chapters. Many clients will need simple guidelines or they overwhelmed. So keep in mind things like No Grains (that includes gluten-free), No Dairy, Corn, No Soy, No Processed Foods, No Artificial Flavorings or Colors. A list of all the items y CAN eat is very important (make a master copy) or they will think there is nothing left to	
Sup	oplementation for Children and Adults with GAP Syndrome (p. 245)	
	The most important fats for GAPS patients, which should be consumed daily and which should constitute the bulk of all fat consumption, are fats: fats in fresh meats, fats rendered from meats, dairy fats (butter, cream and ghee) and fats in eggs yolks.	
Note: No cream if there are milk sensitivities, and not in the beginning stage of changing the diet and healing the intestines.		
57.	TRUE or FALSE: Is the saturated fat in coconut oil healthy?	
	The simplistic idea that eating fat makes you fat is completely Consuming processed carbohydrates causes obesity. Dietary fats go into the structure of your body: your brain, bones, muscle, immune system, etc every cell in the body is made out of fats to a large degree.	
59.	Every cell of every organ in our bodies has as a part of its structure.	

60.	The human brain is particularly rich in cholesterol: around of all body cholesterol is taken by the brain.
61.	After the brain the organs hungriest for cholesterol are our glands: adrenals and sex glands. They produce steroid hormones. Steroid hormones in the body are made from cholesterol: testosterone, progesterone, pregnenolone, androsterone, estrone, estradiol, corticosterone, aldosterone and others.
62.	There are two fatty acids that are essential for life but our body does not make them. We must get them from food. These are and fatty acids.
63.	EPA and are absolutely vital for normal brain and eye development.
64.	TRUE or FALSE: For GAPS patients is supplementing with flax oil sufficient?
65.	oil is a good source of DHA and EPA and one of the oldest ways of supplementing these essential fats.
66.	Arachidonic Acid (AA) is found in,, and products.
Su	pplementation: Chapter 3-4
67.	In people with digestive problems, such as GAPS children and adults, it is virtually impossible to obtain vitamin A from fruits and
68.	Vitamins A and D are!
Dig	gestive Enzymes
69.	What two hormones are so important in normal food digestion that without them this digestion simply cannot happen? A B
70.	But in the stomach with low acidity, overgrowing microbes start dietary carbohydrates, often with the production of various and gas, which can make it very uncomfortable for the GAPS child or adult and make them refuse food.

71. Betaine HCl with added Pepsin should be taken at the	of each meal.