URINE INDICAN TEST

The gastrointestinal tract (GI) is one of the largest interfaces between the outside world and the human internal environment. In the GI, food are digested and absorbed via mucosal membrane. In our gut represents the highest complexity ecosystem called gut microflora.

However, some species of microorganism, pathogenic or opportunistic microbes, can produce many toxins such as

- Endotoxins
- Hydrogen sulphide
- Phenols
- Ammonia
- Indoles compound

That can have detrimental effects on both mucosal and host health. Alterations in the gut microflora and its activities are now believed to be contributing factors to many chronic and degenerative diseases such as

- Obesity
- Type 2 diabetes mellitus
- Metabolic syndrome
- Atherosclerosis
- Irritable bowel syndrome
- Inflammatory bowel disease
- Rheumatoid arthritis and ankylosing spondylitis

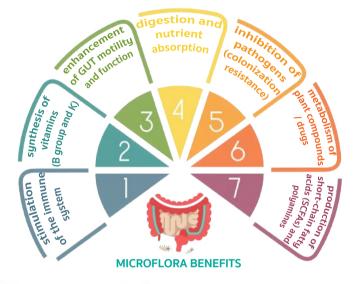
INDICAN is an indole compound (indoxyl) which produced from tryptophan degradation by intestinal bacteria – indole bacteria. Normally, Indole compound was excreted in a stool. However, indole compounds were absorbed via mucosal membrane and metabolized in the liver before excreted in the urine in the indican form. In case of patient who has leaky gut syndrome, not only indole compound was absorbed but many toxins also absorbed into blood stream. Then, these toxins or small particles can induce the immune system and lead to inflammation in many tissues or organs.

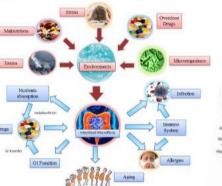
Urine Indican Test is a simple, quick and inexpensive screening

tool to monitor and determine the balance of microorganisms in the gastrointestinal tract. High level of urinary indican indicates that patient may has some illness which cause by dysbiosis condition, putrefaction of undigested food in the bowel, intestinal bacteria overgrowth, stomach disorder, intestinal disorder (malabsorption). These conditions linked to many chronic and degenerative diseases as mentioned above including of malnutrition and leaky gut syndrome. This test is able to use for screening gut health and able to follow up after treatment in patients with gastrointestinal problems.

Treatment if high urine indican: Prebiotics and Probiotics

The color scale of urine indican level Negative 1+ 2+ 3+ 4+ Test Name Code Specimen TAT Urine Indican Test 01001 First Morning/Void Urine 1 Day









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References;

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 Hawrelak JA, Myers SP. The causes of intestinal dysbiosis: a review. Alternative medicine review: a journal of clinical therapeutic. 2004;9(2):180-97.