**Gut is the centre of our** well-being — and a key to both great health and good mood Kalyani Prasher mirrorfeedback@timesgroup.com

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t turns out gut instinct is a much bigger deal than most of us knew. A central hub full of neurotransmitters and micro-organisms, we've been addressing our gut without actually using the word 'gut' for generations now. Feeling butterflies "inside" before an exam or a big interview; feeling so stressed that your stomach gives out; the feeling of "something is wrong" or instinctively avoiding certain foods — over the last couple of decades, science has revealed that all these feelings are most likely not triggered by the brain, but our gut, the second brain inside us.

The alimentary canal, or our gut, is a roughly a nine-metre-long tract from the esophagus to the anus, where a million complex processes take place. But most importantly, this tract is responsible for food to enter, be digested and exit our systems in a smooth, con-

tinuous process. To do this, the gut has a trillion micro-organisms, including many thousands of good bacteria that make up the gut flora. According to Ayurveda, the gut, or koshta, is the largest and longest channels in the body that can affect all the smaller channels like veins and arteries. "A disease is manifested when the gut gets affected in one of three ways: Hyper-activity, blockage, or reverse activity in the channel," explains worldrenowned holistic health expert Dr Issac Mathai, who is also medical director of Soukya International Holistic Health Centre, Bangalore.

A healthy gut is populated by diverse bacteria derived from a wide range of wholesome foods. Traditional Indian food, irrespective of regions, is designed to keep a balance of the flora in our systems. With a combination of fibre, protein, tempering spices, minerals and vitamins, food has always been a way to



Curd is a traditional probiotic that helps boost gut health

keep us healthy, and not just satiated. Probiotics too, have been staple in our daily diets - whether it is homechurned curd in Punjab, or fermented yam leaves in Nagaland, or buttermilk in Kerala, we've been consuming healthy bacteria in the form of everyday food for generations.

However, with the world becoming a global village, and lives getting busier, over the years, certain foods have gone out of our daily diets, replaced by certain others mostly out of a packet. The United Nations recently noted that as high as 90 per cent of crop varieties have disappeared from the world in the last century as people have started consuming fewer, and increasingly similar, food items. An inevitable fallout of this homogenous diet is a negative impact on our gut health and hence our entire digestive system.

Now, instead of traditional probiotics, we eat prebiotics and probiotics out of bottles and packets to make up for the imbalanced diet. "One of the things that control the gut neural system is the kind of bacteria inside," says Dr Shobna Bhatia, head of medical gastroenterology at King Edward Memorial Hospital, Mumbai. "Gut bacteria varies with the

kind of food we intake."

In fact, there is biochemical signalling, a kind of cross-talk, which occurs between the gut bacteria, the gut and the brain. Dr Michael D. Gershon's pathbreaking book The Second Brain talks about how the gut is a mass of neural tissue, containing a "100 million neurons" that constantly transmit signals to our main brain about the body's well-being. His research reveals that our state of mind and our gut are inter-dependent,

**CONTINUED ON PAGE 25** 

## **CONTINUED FROM PAGE 24**

contributes to feelings of happiness duced in the gut." body clock. Interestingly, a large and also helps control our in the brain control our feelings explains Dr Mathai. "For instance, emotions and overall wellbeing, proportion of serotonin is prothe neurotransmitter serotonin concur. "Neurotransmitters both Dr Mathai and Dr Bhatia

often related to stress." one's finger on. Diseases of the gut ness' or something one can't put in intangible feelings of 'queasiadds: "It can manifest in your gut impact on gut health. Dr Bhatia like irritable bowel syndrome are Stress can also have a direct

that your gut isn't able to process sign of an unhealthy gut is indigespated or irregular motions are signs tion. Feeling bloated, gassy, constiour health goes for a toss. The first key central machinery is disturbed Unsurprisingly, when such

G Vighi) have established that 70 everything from your immune syschain of reactions that can affect per cent of the immune system is tem to your skin. Scientists (such as An unhealthy gut sets off a



Green leafy vegetables can help restore healthy bacteria in the gut

dictates that if the gut is healthy, Mathai. "Ayurveda, more or less, strategy of Ayurveda to tackle any or cleansing of the gut," says Dr located in the gut. "In fact, the very illness is to achieve koshta shuddhi he individual is healthy."

Ayurvedic cleanse comprising "the advice," she says. What helped in many things on various doctors' the end was a strict 20-day mon allergens from my diet, I tried homeopathy to eliminating comnowhere. "From allopathy to developed skin rashes out of who lives and works in Delhi In the winter of 2017, Neha Kumar, bad gut health can manifest itself. There are other ways in which

cleansing enemas. "Last year, I caught a bug and

ucts (except curd) and her recurring breakouts. So a healthy gut is allergens irritate the gut, and manioff processed foods and dairy prodfests itself in the form of itching or Allergy to foods start when the bitterest of concoctions". She went rashes "simply disappeared"

ed with fatigue," says Dr Mathai. syndrome and are directly associatcytokines are increased by leaky gut inflammatory compounds called one's fitness levels. "Certain directly related to healthy skin. An unhealthy gut can also affect

scribing a strict diet and lots of gut week Panchakarma programme that aims to reset the gut by prethe time until he went for a twoused to feel tired and fatigued all Mumbai-based R Srinivasan

result, I suddenly couldn't digest my gut flora got affected. As a

-Dr Shobna Bhatia

can't put one's finger on

feelings of 'queasiness' or something one

Stress can have a direct impact on gut health, and manifests itself in intangible

> moderation. I regained my energy normal diet and was able to digest soon after." breads and other gluten products in "Slowly I was able to get back to a helped to repopulate the gut with two-week regimen that included had no energy left," he says. The gluten and used to feel bloated healthy flora and reset his system. partaking ghee so as to oil the tract and constipated all the time. I also

gut flora map of every person is difbe different. solutions. The diet map and hence system to ignore, and keeping it ferent, and the solution must also healthy should be our top priority. lowever, beware of falling for easy Clearly, the gut is too crucial a

a healthy gut." mind are the two pre-requisites for customised diet and stress-free general strength, age, season of the state and more," says Dr Mathai. "A stitution, geographical location, year, climatic condition, mental various factors like their body concustomised meal plan based on "Each individual should have a

Mathai. "Overnight fasting can defing the following day," says Dr snacked, and then ate mid-mornate supper at sundown, rarely health. "Our forefathers typically day, has been known to aid gut simpler. Alternate fasting, or a 14 to resetting your gut, try something 20 days to spare for the regimen of l6-hour period of not eating in a If you don't have two weeks or

> restore healthy bacteria. bles, can help heal the gut and mented foods and anti-inflammatory foods, and green leafy vegetainitely help." Probiotics like fer-

curd can help." curd rice or just plain homemade curds," says Dr Bhatia. "Foods like in the gut is lactobacillus, founds in "One of the most useful bacteria

and garlic. Indian filter coffee), flaxseed, onion chicory (commonly added to south foods containing prebiotics are proliferate in the gut; common hat allow the good bacteria to Prebiotics are substances

gut," says Dr Bhatia. are removed from the wheat during causes constipation and irritates the its manufacture. The lack of fibre vitamins, fibre and other nutrients thing to pick, I'd say avoid maida, as gut is refined flour. "If there was one Perhaps the biggest evil for the

and rocking. stress management goes hand in gut nevertheless, so working on ones from your life and get a meal keep our second brain well-oiled hand with the right meal plan to right, your mind can affect your plan that suits your system best help you eliminate the wrong And remember, even if you eat may irritate the gut repeatedly. nuts, wheat, or shellfish, which most foods, you may have particulesting against these foods will lar allergy to foods like milk, soy, While a healthy gut will digest