

Helicobacter infections hit Bhutan's happiness

June 11 2020, by Saleem Shaikh



Over half of Bhutan's population may be infected by the *Helicobacter pylori* bacteria, according to a recent study. Credit: Pradip Kar from Pixabay

Over 66% of Bhutan's population may be harbouring *Helicobacter pylori* bacteria, which is responsible for ulcers of the gastro-intestinal tract that, left untreated, may lead to cancer, a new study suggests.

"Having observed such a high prevalence of the *H. pylori* pathogen, one

could be surely unconvinced that Bhutan could be called a really happy country," Rui Paulo de Jesus, WHO representative in Bhutan, a Himalayan country of 770,000 people, tells SciDev.Net.

Bhutan pioneered the Gross National Happiness Index, which caught global imagination and guides the country's economic and [social policy](#) and factors in culture and psychological well-being alongside traditional indicators of development such as living standards, health and education.

Symptoms of *H. pylori* infection include pain in the abdomen that worsens when the stomach is empty, nausea, loss of appetite, frequent burping, bloating and weight loss. According to [WHO reports](#), it causes peptic and duodenal ulcers, chronic gastritis and gastric cancer in all age groups.

The study results, published 29 May in the *International Journal of Infectious Diseases*, were based on data from examining 1,178 dyspeptic patients—664 of them female—collected between December 2010 and April 2015 in the six Bhutanese districts of Thimphu, Punakha, Wangdue, Trongsa, Bumthang, and Haa.

"Having analysed the nationally representative data, we discovered that 66.2% of the population is infected with the disease," Ratha-korn Vilaichone, professor of medicine at Thailand's Thammasat University Hospital, and an author of the study, tells SciDev.Net.

Punakha district displayed the highest prevalence of the pathogen (85.6%), followed by Wangdue (75.4%) followed by Bumthang (66.1%) and Thimphu (65.7%). Overall, [urban areas](#) had higher prevalence than the [rural areas](#).

Vilaichone tells SciDev.Net that 81% of the indigenous strains of *H. pylori* were found resistant to metronidazole, the main antibiotic used to

treat gastro-intestinal infections. However, the pathogen was far less resistant to other commonly used [antibiotics](#) such as levofloxacin, clarithromycin and tetracycline.

"We observed that frequent antibiotic prescriptions, poor understanding of antibiotic side-effects, bad/inadequate sanitary conditions/practices, use of pit latrines as major toilet facilities, crowded family homes, meagre household spending on health due to low incomes were the key causes of heightened H. pylori prevalence in the country," Vilaichone says.

The antibiotic resistant patterns discovered by the study could help provide evidence-based treatment for H. pylori infection, says WHO's de Jesus.

"Enhancing disease surveillance and diagnosing facilities, public awareness about the disease and [preventive measures](#), promoting eradication therapy, encouraging proper antibiotics use, better [public access](#) to water and sanitation and sustainable urban and housing planning could help the country get rid of H. pylori infections," de Jesus suggests.

More information: Ratha-korn Vilaichone et al. Population-based Study of Helicobacter pylori infection and Antibiotic Resistance in Bhutan, *International Journal of Infectious Diseases* (2020). [DOI: 10.1016/j.ijid.2020.05.077](#)

Provided by SciDev.Net

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