

HeliGuide

Urea Breath Test System

Helicobacter pylori is extremely common in humans, infecting around 50% of the world's population. It is recognized as the main etiological factor for chronic gastritis, peptic ulcer and also gastric cancer. Much suffering and even ulcer related deaths can be easily prevented through accurate diagnosis and appropriate treatment with antibiotics.

HeliGuide is a ^{14}C -Urea Breath Test System perfectly suited for primary diagnosis and for post treatment follow-up of *Helicobacter pylori* infection.

It is a reliable, safe, and cost-effective near-patient testing system consisting of three components: Capsule, BreathCard and HeliGuide Analyzer.

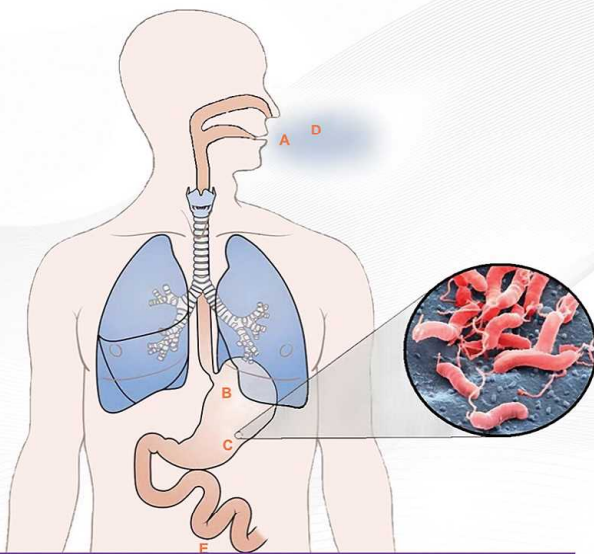


Specifications:

- Bright LCD display
- User-friendly console
- Firm and portable console with comfortable handle design
- Heavy duty packaging
- Weight: 4Kg
- Console dimension: 15×15.5×21 cm³

Advantages of HeliGuide system

- Convenience – Easy to use, near patient testing no need to send sample for analysis
- Comfort – Painless, non-invasive gastroscopic tubing
- Speed – Samples are ready for analysis in only 10 minutes with test result available in 5 minutes



A.

On an empty stomach the patient swallows the capsule with a glass of water.

B.

The capsule containing ^{14}C -labeled urea, disintegrates rapidly in the stomach and the ^{14}C -urea is dissolved.

C.

In the presence of *Helicobacter pylori*, the ^{14}C -urea is metabolized to carbon dioxide and ammonia by the enzyme urease, produced by *Helicobacter pylori*.

D.

The available ^{14}C isotopes, now in the form of $^{14}\text{CO}_2$, diffuse into the blood to be transported to the lungs, where it is exhaled in the breath to be captured during sampling. A positive answer offers conclusive evidence that the patient is infected with *Helicobacter pylori*.

E.

In the absence of *Helicobacter pylori*, the administered urea is absorbed in the gastrointestinal tract and subsequently voided.

1. Swallow the capsule



3. Insert Breathcard into HeliGuide analyzer



2. After a 10-minute wait, breathe into Breathcard



4. Result is available in a few minutes



Parto Negar Persia Co.

Tel : +98 21 - 66 58 11 59 - 66 58 09 59
+98 21 - 40 66 03 58 - 40 66 03 59
Fax: +98 21 - 66 58 11 59

IEC 61010-1:2013

IEC 61326-1:2013

Pioneer in Healthcare Technology

www.pnpmed.com info@pnpmed.com

