

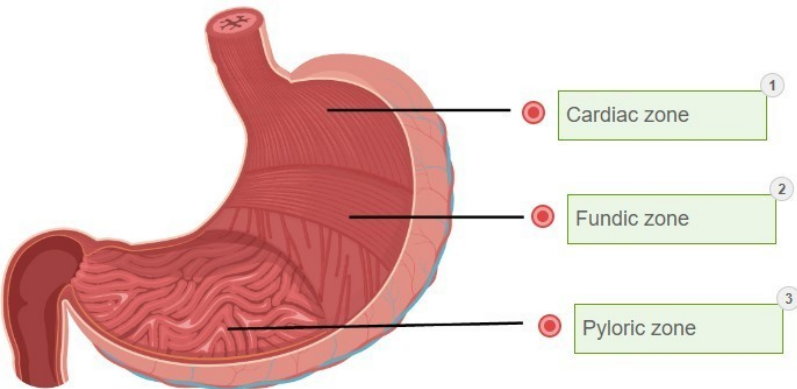
# Week 5 Concepts: Nutrition

## Acid-Controlling Drugs

### Prepare: Acid-Controlling Drugs

#### Stomach Areas

Identify the areas of the stomach.



#### Gastric Glands

Match the gastric gland cell with its function.

Produce and secrete hydrochloric acid	Parietal cells
Secrete pepsinogen which is a precursor to pepsin	Chief cells
Provide a protective coating for the stomach	Mucosa cells

#### Parietal Cells

Which receptors in the stomach are responsible for stimulating the secretion of acid from the parietal cells? Select all that apply.

Histamine

Adenosine triphosphate (ATP)

pump Proton ion

Gastrin

Acetylcholine (ACh)

### Self-Check: Stomach Acid

#### Gastric Hyperacidity

Gastric hyperacidity is the over production of stomach acid.

#### Stomach Acid

The pH of stomach acid is 1-4.

### Self-Check: Hyperacidity

#### Gastroesophageal Reflux Disease (GERD)

Gastroesophageal reflux disease is when excessive acid backs up into the esophagus.

#### Acid-controlling Drugs

Match the acid-controlling drugs with how they work.

Antacids	Reduce acid by neutralization within the stomach
Histamine (H) 2 Blockers (H2 receptor agonist)	Reduce acid by blocking signals to the parietal cells

## Self-Check: H. Pylori (Helicobacter pylori)

### Helicobacter pylori (H. pylori)

Helicobacter pylori (H. pylori) is a **Bacteria that can infect the gastric track.**

## Reflect: Acid-Controlling Drugs

### Acid-controlling Drugs

The telehealth nurse is responding to question send to the Hancock Healthcare Services' social media page. Review the questions and choose the best response.

#### Question 1 / 6

Mandy345 asks:

I have heartburn and I am in the pharmacy. Do all acid controlling drugs work the same way?

Choose your best response from the choices given below.

**"Acid controlling drugs do not all work the same way."**

"It depends on each person's genetics."

"Yes, they do." "I think so."

#### Question 2 / 6

MrTom2u wrote:

I take a lot of prescribed daily medication, including digoxin. Is it safe to take any type of acid controlling drugs with my medications?

Choose your best response from the choices given below.

"Yes, acid controlling drugs are safe. You may also need to take an extra dose of your digoxin to stay in your therapeutic range."

"Yes, acid controlling drugs are safe and should be taken with your nightly medications."

"Yes, acid controlling drugs are safe and can be taken with your daily medications."

**"Yes, acid controlling drugs are generally safe. Check with your doctor for the best choice of acid controlling drugs for you."**

#### Question 3 / 6

Mavis52 wrote:

What lifestyle changes can I start that will prevent/reduce my heartburn (hyperacidity) symptoms?

Choose the correct response from the choices given below.

"Chewing gum will prevent your hyperacidity symptoms."

"Eat later in the evening so your stomach can digest your food while you sleep."

"Drinking more water will prevent your hyperacidity symptoms."

**"Changing your diet and reducing stress can decrease your symptoms."**

#### Question 4 / 6

Mavis52 wrote back:

My husband said that smelling his food on the grill will make my stomach secrete digestive fluid. Is this true?

Choose the correct response from the choices given below.

"No, food must be present in the stomach for the secretion of digestive enzymes."

**"Yes. Smelling, seeing, or tasting food can cause your stomach to secrete digestive acids."**

"Yes, but it only happens with smelling grilled food."

"No, only chewing and swallowing food makes you secrete stomach acids."

#### Question 5 / 6

Mav12 asks:

Do these work the same way to reduce acid in my stomach?

