



abdominal cavity

[Introduction](#)

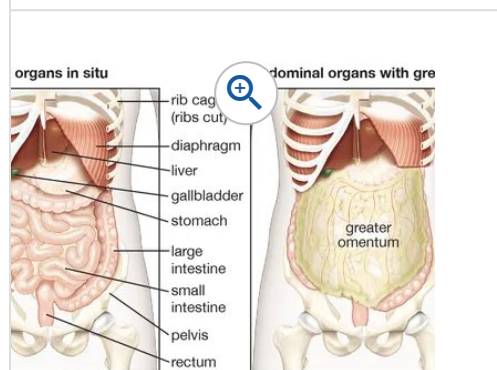
Fast Facts

[Related Content](#)[Quizzes](#)

Media

[Images](#)

More

[More Articles On This Topic](#)[Contributors](#)[Article History](#)[e](#)[Feedback](#)[Britannica](#) • [Edit History](#)

abdominal organs

[See all media](#)

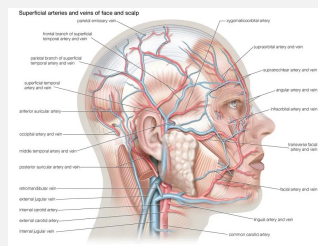
Related Topics: [peritoneum](#) • [laparotomy](#) • [mesentery](#) • [peritoneal cavity](#) • [omentum](#)

[See all related content →](#)

abdominal cavity, largest [hollow](#) space of the body. Its upper boundary is the [diaphragm](#), a sheet of muscle and [connective tissue](#) that separates it from the chest cavity; its lower boundary is the upper plane of the pelvic cavity. Vertically it is enclosed by the [vertebral column](#) and the abdominal and other muscles. The abdominal cavity contains the greater part of the [digestive tract](#), the [liver](#) and [pancreas](#), the [spleen](#), the [kidneys](#), and the [adrenal glands](#) located above the kidneys.

The abdominal cavity is lined by the [peritoneum](#), a membrane that covers not only the inside wall of the cavity (parietal peritoneum) but also every

organ or structure contained in it (visceral peritoneum). The space between the visceral and parietal peritoneum, the peritoneal cavity, normally contains a small amount of serous fluid that permits free movement of the viscera, particularly of the gastrointestinal tract, inside the peritoneal cavity. The peritoneum, by connecting the visceral with the parietal portions, assists in the support and fixation of the abdominal organs. The diverse attachments of the peritoneum divide the abdominal cavity into several compartments.



BRITANNICA QUIZ The Human Body

You may know that the human brain is composed of two halves, but what fraction of the human body is made up of blood? Learn this fact and much more as you test both halves of your mind in this human anatomy quiz.

Some of the viscera are attached to the abdominal walls by broad areas of the peritoneum, as is the pancreas. Others, such as the liver, are attached by folds of the peritoneum and **ligaments**, usually poorly supplied by **blood** vessels.

The peritoneal ligaments are actually rather strong peritoneal folds, usually connecting viscera to viscera or viscera to the abdominal wall; their name usually derives from the structures connected by them (e.g., the gastrosolic **ligament**, connecting the **stomach** and the colon; the splenocolic ligament, connecting the spleen and the colon) or from their shape (e.g., round ligament, triangular ligament).

The **mesentery** is a band of peritoneum that is attached to the wall of the **abdomen** and encloses the viscera. It extends from the pancreas, over the

[small intestine](#), and down over the colon and upper rectum. It helps to hold the organs in place and is richly supplied with vessels that carry blood to or from the organs it enfolds.

The [omenta](#) are folds of peritoneum enclosing nerves, blood vessels, lymph channels, and fatty and connective tissue. There are two omenta: the greater omentum hangs down from the transverse colon of the [large intestine](#) like an apron; the lesser omentum is much smaller and extends between the stomach and the liver.

Get a Britannica Premium subscription and gain access to exclusive content.

[Subscribe Now](#)

Common [afflictions](#) of the abdominal cavity include the presence of fluid in the peritoneal cavity ([ascites](#)) and [peritonitis](#), an inflammation of the peritoneum.

This article was most recently revised and updated by [Kara Rogers](#).