

EndoFLIP

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About this procedure

EndoFLIP is a test done to measure the area in your gastrointestinal organs, such as your esophagus and stomach, and the pressure inside that organ. It can be used to:

- Find the cause of problems swallowing, coughing, or choking when swallowing.
- Help identify the cause of pain during swallowing.
- Find the cause of vomiting, feeling of a lot of fullness after eating, stomach pain, or bloating. For this test, a balloon is used to measure how well the valve in the stomach, called the pyloric sphincter, stretches.
- Open an area without the need for X-rays, called therapeutic dilation. This uses a slightly different kind of balloon to stretch the area and is called EsoFLIP.

How the test is done

- During an upper endoscopy, while you are sedated, your doctor will place a long tube, called a catheter, through your mouth into your esophagus. This tube has a small balloon on the end.
- Fluid is put in through the tube to inflate the balloon. Special sensors in the balloon take measurements.
- This test can add about 45 minutes to the time it takes to do an endoscopy.

关于本手术

内镜下功能性腔道成像探针 (Endolumenal Functional Lumen Imaging Probe, EndoFLIP) 检查是为了测量胃肠器官 (如食管和胃) 的面积以及这些器官内的压力。该检查用途如下:

- 找出吞咽、咳嗽或吞咽时窒息的原因。
- 确定吞咽时疼痛的原因。
- 查找呕吐、进食后感到饱胀、胃痛或腹胀的原因。该检查将使用球囊来测量胃中的瓣膜 (称为幽门括约肌) 的伸展程度。
- 该检查无需 X 射线辅助即可撑开一定区域, 称为治疗性扩张。该检查采用一种略有不同的球囊来拉伸该区域, 称为 EsoFLIP。

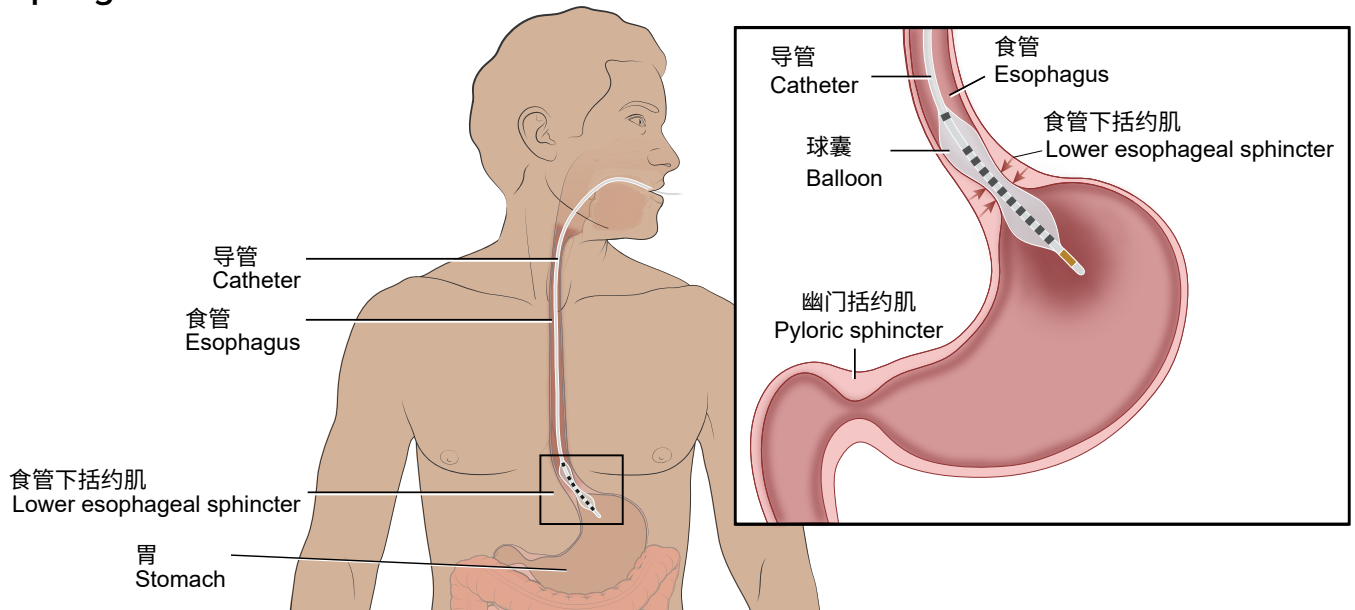
检查方法

- 上内镜检查中, 在您服用镇静剂后, 医生会将一根长管导管通过您的口腔插入您的食管。这根导管的末端配有一个小球囊。
- 通过导管注入液体, 使球囊膨胀。球囊中的特殊传感器将会进行测量。
- 该项检查较一般内镜检查所需时长长约 45 分钟。



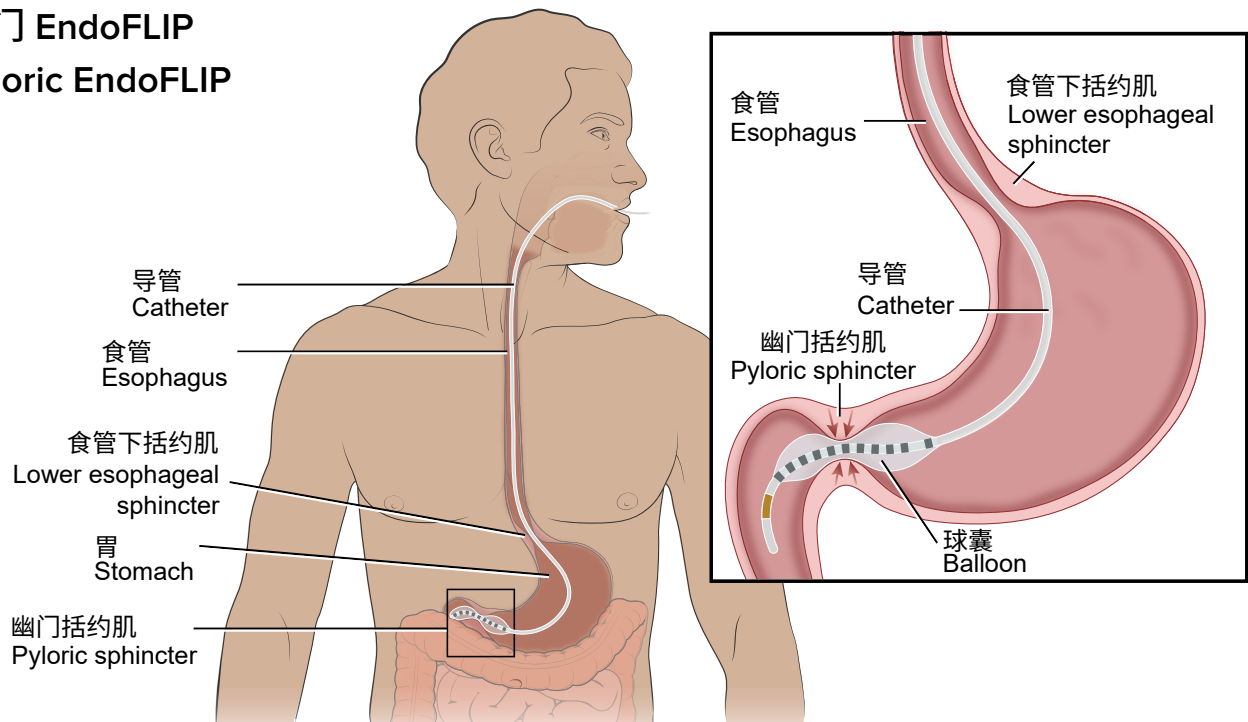
食管 EndoFLIP

Esophageal EndoFLIP



幽门 EndoFLIP

Pyloric EndoFLIP



Risks of the test

When EndoFLIP is used to check for problems, there is a very small risk of bleeding or putting a hole in the wall of your esophagus or stomach, called perforation. To prevent this, the pressure from the balloon is limited and closely watched with a computer. There are no known reports of serious problems from EndoFLIP being used as a test to diagnose a problem. When EndoFLIP is used for treatment reasons, there is also a small risk of bleeding or perforation.

Preparing for your test

- **Starting in the morning, you can have only liquids the day before your test (liquid diet).**
- **Do not eat or drink anything after 11 p.m. the night before your test.**
- **You need to have an adult come with you and drive you home** because of the medicines you will get to help you relax during the test. If you take a cab, bus, or medical transportation service, an adult other than the driver needs to come with you.

Medicine Changes Before Your Procedure

You may need to make changes to your medicines many days before your procedure. Read carefully the medicine change information at go.osu.edu/pted5355 or review the copy with these instructions. These include blood thinners, medicines for diabetes, weight loss, heart conditions, and others. **If you do not review and make the needed medicine changes, your procedure may need to be rescheduled.**

检查的风险

当 EndoFLIP 用于诊断问题时，食管或胃壁出血或穿孔（称为穿孔）的风险极低。为防止此类情况的发生，将限制球囊的压力，并用电脑密切监测压力变化。截至目前，EndoFLIP 用于诊断时尚无关于 EndoFLIP 导致严重问题的报告。由于治疗原因使用 EndoFLIP 时，出血或穿孔的风险也极低。

准备事项

- **从早上开始, 检查前一天只能进食流质食物(流质饮食)。**
- **考试前一天晚上 11 点以后不要吃喝任何东西。**
- **由于在检查期间将会提供药物帮助您放松, 因此您需要由一名成人陪同您一起开车回家。如果您在检查结束后乘坐出租车、公交车或医疗交通服务车辆, 除驾驶员以外应当由一名成人陪同。**

手术前药物变更

您可能需要在手术前几天变更药物。请访问 go.osu.edu/pted5423, 仔细阅读药物变更信息, 或查看提供这些说明的副本。包括血液稀释剂、糖尿病药物、减肥药物、心脏病药物等。如果您没有查看并作出必要的药物变更, 您的手术可能需要重新安排。

- You should not smoke or vape the day before and on the day of your test.
- **If you have an implanted stimulator device**, it should be turned off before your procedure. Please bring the remote with you on the day of the procedure.
- If there are major changes to your health, please contact the healthcare provider who is doing your procedure. Your procedure may need to be changed for your safety.
- **If you have alcohol, marijuana, or illegal drugs in your system**, your procedure may be rescheduled for your safety
- 您不应该在手术前一天和当天吸烟或使用电子烟。
- **如果您有一个植入式刺激装置**，在手术前应该将其关闭。请在手术当天随身携带遥控器。
- 如果您的健康状况发生重大变化，请联系正在为您提供手术的医疗护理提供者。为了您的安全，我们可能需要对您的手术作出变更。
- **如果您体内有酒精、大麻或非法药物**，为了您的安全，我们会重新安排您的手术。

What to expect after

- You will be taken to a recovery room where your driver can join you.
- You may feel some soreness in your throat after the test. This is normal. Your doctor may prescribe a medicine called Magic Mouthwash for this. This is a liquid containing a numbing medicine (lidocaine), a sedative (Benadryl) and an antacid (Maalox).
- Your doctor will explain your results and you will get instructions for your diet, medicines, and follow-up.
- Your test results will also be shared with your doctor who referred you for this test.

When to get help

Call 911 any time you think you may need emergency care. Call if:

- You passed out (lost consciousness).
- You have trouble breathing.
- You pass maroon colored or bloody stools.

检查后事项

- 您将被带往恢复室，您的驾驶员将在此与您会合。
- 检查后您可能会感到咽喉有些酸痛。这是正常现象。您的医生可能会为您开具一种名为神奇漱口水的药物。这是一种液态药剂，含有麻醉药（利多卡因）、镇静剂（苯那洛尔）和镁抗酸剂（Maalox）。
- 您的医生会为您解释检查结果，并为您提供饮食、药物和随访的指导。
- 您的检查结果也将与您的转介医生共享。

获取帮助的时机

如您认为需要紧急护理，请随时拨打 911。如果出现以下情况，请拨打 911:

- 昏迷（失去知觉）。
- 呼吸困难。
- 栗色大便或血便。

Call your doctor now or seek medical care right away if:

- You have pain that does not get better after you take pain medicine.
- You have new or worse belly pain.
- You have blood in your stools.
- You are sick to your stomach and cannot keep fluids down.
- You have a fever.
- You cannot pass stools or gas.

Watch closely for changes in your health, and be sure to contact your doctor if:

- Your throat still hurts after a day or two.
- You do not get better as expected.

如果出现以下情况，请立即致电医生或就医：

- 服用止痛药后疼痛依然未好转。
- 新发或恶化腹痛。
- 血便。
- 胃极度不适，出现反流。
- 发热。
- 无法排便或排气。

密切关注健康状况的变化。如果发生以下情况，请务必联系您的医生：

- 一两天后，咽喉仍然疼痛。
- 未出现预期的好转。

本手册仅供参考。如对您的治疗有任何疑问，请咨询医生或医疗护理团队。

This handout is for informational purposes only. Talk to your doctor or health care team if you have any questions about your care.