

- ♥ Analyze current treatments for coronary artery disease
- ♥ Recommend a treatment option for the patient after analyzing symptoms and risk factors
- ♥ Formulate questions to ask a surgical team while watching a live broadcast of open-heart surgery

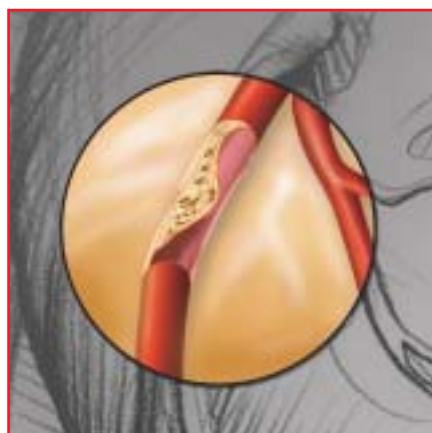
45–50 minutes

In this lesson, students look at four treatments for coronary artery disease, ranging from least invasive to most invasive. Based on Mr. Harvey's symptoms and diagnostic tests, students make a recommendation for Mr. Harvey's treatment and write a letter to the cardiologist outlining the rationale for their choice. Students also explore current areas of research in the treatment of heart disease.

In Part B, students will explore current research in heart disease treatment. Here is an example of current research at Advocate Christ Medical Center:

One of the disadvantages of an angioplasty and stent is that scar tissue can form around the stent, causing the artery to become narrowed again. Current research shows that drug-coated stents can prevent scar tissue from forming and, therefore, can prevent re-narrowing of the artery.

- ♥ Copies of **Lesson 4 Student Pages**
- ♥ Internet access

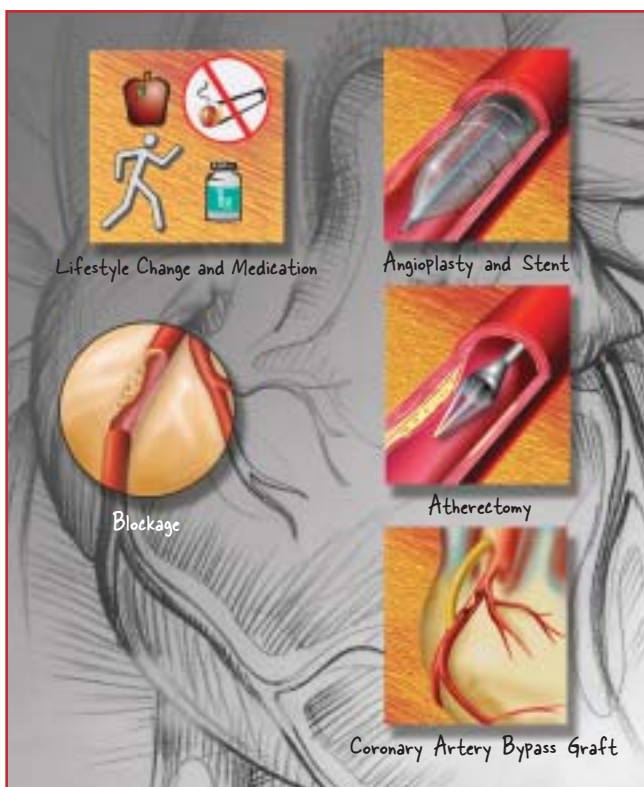


Notes:

Procedure

Part A: Analyzing Treatments (20–25 min.)

1. As a class, in partners or in small groups, students will read through the four treatment options for heart disease. Based on the condition of Mr. Harvey's heart, students will pick the treatment that they think will most benefit Mr. Harvey.
2. Students will look at the disadvantages of each treatment, which show that none are perfect.
3. Students will write a letter to the cardiologist explaining the chosen treatment.
4. The class will discuss the treatment recommended by each group.
5. Explain that the cardiologist, in fact, recommended coronary artery bypass surgery for Mr. Harvey.



Part B: Using the Web...Going Beyond (25 min.)

1. Students will access the Advocate Health web site (www.advocatehealth.com) to explore current research in heart disease treatment.
2. Students will report on three advances in current heart disease treatment research.

Notes:

