

**Health Sciences 1111**  
**Module 18 Muscles**  
**Lab 18**

**Watch the video "Cross Eye Surgery" and answer the questions on your worksheet.**

**Interactive Physiology**

- Login: biomedcorelab
- Password: waldo
- Click on Muscular
- Do the Anatomy Review
- Take the Quiz at the end of this section
- The Neuromuscular Junction
- Take the Quiz at the end of this section questions 1-5
- Do Sliding Filament Theory
- Take the Quiz at the end of this section
- Do Muscle Metabolism
- Take the Quiz
- Do Contraction of Motor Units
- Take the Quiz
- Do Contraction of Whole Muscle
- Take the Quiz at the end of this section questions 4a - 4b
- Exit Internet Explorer

As you view the video "Cross Eye Surgery" answer the following questions.

1. A term used to describe strabismus in the video is \_\_\_\_\_  
\_\_\_\_\_.
2. Is strabismus occurs at a young age, what will the brain do to compensate for the double image?
- 3, Strabismus can cause the eye(s) to point \_\_\_\_\_ and \_\_\_\_\_.
4. To make the eye muscles weaker or stronger the doctor can move the muscle \_\_\_\_\_ to make it weaker or \_\_\_\_\_ to make it stronger.
5. Wanting to make sure the surgery is successful; the doctor is performing an \_\_\_\_\_ suture surgery.
6. For this procedure the \_\_\_\_\_ \_\_\_\_\_ muscles will be weakened and the \_\_\_\_\_ \_\_\_\_\_ muscles will be strengthened.
7. The clear surface of the eye is called \_\_\_\_\_.
8. The instrument used to locate and pull the eye muscle forward is called \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_.
9. The Vicryl suture is inserted in the \_\_\_\_\_ connecting the muscle to the \_\_\_\_\_. This is done before separating the \_\_\_\_\_ \_\_\_\_\_ muscle from the eyeball.
10. What is Vicryl made of?

11. While the surgeon was working on the left lateral rectus muscle there was an excess of bleeding. What caused this?
12. \_\_\_\_\_ can cause the strabismus to return. This is because \_\_\_\_\_ will change and constrict pulling on the eye muscle(s).
13. Why do younger children usually not qualify for this type of surgery?
14. Why will the doctor NOT use an adjustable suture on the right eye?
15. Why are both eyes operated on at the same time?
16. Strabismus in adults can be associated with disease of the \_\_\_\_\_.
17. The doctor describes two types of strabismus. What are they?
18. In some cases of strabismus the \_\_\_\_\_ muscles can be missing preventing movement in a particular direction.
19. Strabismus is derived from the Greek word strabismus meaning to \_\_\_\_\_.
20. The \_\_\_\_\_ muscle of the left eye has the adjustable suture.
21. Why is it important to finish the procedure the next day?
23. To correct the over correction of the left medial rectus the doctor moved the muscle \_\_\_\_\_ to strengthen it.

Graphics

10.1

10.3

10.5

10.20 c

11.2

11.3 a, b

**Hthsci 1111  
Lab Module 18  
Muscles**

As you view the video "Cross Eye Surgery" answer the following questions.

1. A term used to describe strabismus in the video is \_\_\_\_\_  
\_\_\_\_\_  
CROSS EYE (LAZY EYE)

2. Is strabismus occurs at a young age, what will the brain do to compensate for the double image?  
THE BRAIN WILL SHUT OFF THE AFFECTED EYE

3, Strabismus can cause the eye(s) to point \_\_\_\_\_ and  
\_\_\_\_\_  
OUTWARD; INWARD

4. To make the eye muscles weaker or stronger the doctor can move the muscle \_\_\_\_\_ to make it weaker or \_\_\_\_\_ to make it stronger.  
BACK; FORWARD

5. Wanting to make sure the surgery is successful; the doctor is performing an \_\_\_\_\_ suture surgery.

ADJUSTABLE

6. For this procedure the \_\_\_\_\_ muscles will be weakened and the \_\_\_\_\_ muscles will be strengthened.

MOVED BACK; MOVED FORWARD

7. The clear surface of the eye is called \_\_\_\_\_.

CORNEA

8. The instrument used to locate and pull the eye muscle forward is called \_\_\_\_\_.

EYE MUSCLE HOOK

9. The Vicryl suture is inserted in the \_\_\_\_\_ connecting the muscle to the \_\_\_\_\_. This is done before separating the \_\_\_\_\_ muscle from the eyeball.

TENDON; EYEBALL; MEDIAL RECTUS

10. What is Vicryl made of?

COMPLEX SUGAR

11. While the surgeon was working on the left lateral rectus muscle there was an excess of bleeding. What caused this?

SCAR TISSUE FROM A PREVIOUS SURGERY

12. \_\_\_\_\_ can cause the strabismus to return. This is because \_\_\_\_\_ will change and constrict pulling on the eye muscle(s).

SCAR TISSUE; SCAR TISSUE

13. Why do younger children usually not qualify for this type of surgery?  
YOUNGER CHILDREN WILL NOT ALLOW THE DOCTOR TO FINISH THE  
PROCEDURE THE NEXT DAY OUT OF FEAR. PATIENT COOPERATION IS  
IMPORTANT TO FINISH ANY ADJUSTMENT.

14. Why will the doctor NOT use an adjustable suture on the right eye?  
BECAUSE THE MAJOR STRABISMUS WAS WITH THE LEFT EYE

15. Why are both eyes operated on at the same time?  
TO MAKE SURE HER EYES LOOK STRAIGHT WHEN SHE LOOKS UP,  
DOWN, LEFT OR RIGHT.

16. Strabismus in adults can be associated with disease of the \_\_\_\_\_  
\_\_\_\_\_  
THYROID GLAND

17. The doctor describes two types of strabismus. What are they?  
PROBLEMS OF THE BRAIN AND PROBLEMS WITH THE EYE AND THE  
EYE MUSCLE (ABNORMALITIES WITH LENGTH, FUNCTION, ETC.)

18. In some cases of strabismus the \_\_\_\_\_  
\_\_\_\_\_ can be missing preventing movement in a particular direction.  
ACTUAL MUSCLES

19. Strabismus is derived from the Greek word strabismus meaning to  
\_\_\_\_\_  
SQUINT OR SQUINTING

20. The \_\_\_\_\_ muscle of the left eye has the  
adjustable suture.  
MEDIAL RECTUS

21. Why is it important to finish the procedure the next day?  
BECAUSE THE PATIENT ISN'T UNDER THE EFFECTS OF THE  
ANESTHESIA.

22. To correct the over correction of the left medial rectus the doctor  
moved the muscle \_\_\_\_\_ to strengthen it.  
FORWARD