WHAT DOES THE CELL DO?
The heart muscle cell contracts itself so that the heart keeps pumping, sending out blood.

WHAT MEDICAL ISSUES COULD AFFECT THIS CELL?
Heart attack, heart tumor, hypertropic cardiomyopathy (the heart can’t pump enough blood), heart failure and endocardites (inflammation in the heart.)

HEART CANCER:
Usually when you get cancer it’s because the cell division won’t stop so you have to many cells. Those cells are called epithelial cells. But in the heart there are not that many epithelial cells. The heart have heart muscle cells and connective tissue cells. The heart muscle cells can’t divide themselves, therefore they aren’t replaceable. The connective tissue cells divide themselves when it is needed, for example when the body is wounded. And that’s why cancer is not so usual in the heart.

OTHER INFORMATION:
The number of heartbeats varies between different species. Between the codfish who’s heart beats 20 times in a minute to a hummingbird who’s heart beats 600 times in a minute.

The heart pumps about 5 liters of blood each minute.

Another word for heart is cardiac.

Information from:
http://illvet.se/fraga-oss/far-man-aldrig-cancer-i-hjartat
http://en.wikipedia.org/wiki/Heart_muscle
http://skolarbete.nu/skolarbeten/cancer-4/
http://people.arcada.fi/~ngr/afp/PATOLOGI.pdf

THE DIFFERENT PARTS OF THE CELL:
Gap Junction is particularly important in cardiac muscle. The signal to contract the heart is passed through the gap junction. Sarcomere does so the heart can contract
Z-line is a part of the sarcomere to which the actine binds to.
Adherens junction function is to separate other things, like walls Mithochondrion products energy in the from of adenosine triphosphate (ATP). The heart uses this energy to perform specific work for survival and function.
Capillary wall is primarily used to diffuse nutrients and gas through it. It is known to be the most functional unit of the blood vessels.
The red blood cells major function is to carry around oxygen to the tissues of the lungs. It has been described as looking like a donut.

ANIMAL CELLS VS. HEART MUSCLE CELLS
The animal cells is the round one and the heart muscle cell is the long and green one. The blue on the heart muscle picture is the nucleus.