

Team Number: 049

School Name: South Valley Academy

Area of Science: Biology

Project Title: How specific diets are related to cholesterol intake in the body

Problem Definition

Hypercholesterolemia and how humans can fix this problem organically before it turns into a real problem which may threaten their health.

Problem Solution

A simulation to show how calories affect the body and the negative consequences so people are educated on how to deal with the problems accordingly.

Progress to Date

First stage model- model of an artery and the cholesterol build up on the walls depending on settings which will correspond to the foods that we choose so a person can simulate different diets to see which one correlates to them more so they can try to improve themselves.

Research- we are looking for diseases, diets and other factors that would be important to add to the model and we are also deciding which ones are relevant to our current model as well as which ones the the most attention/optimizing.

Expected Results

Fast food has a prominent negative impact on the arteries more so than a vegetarian diet (a more balanced and reliant diet)

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