

CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s)	Project Number
Mitch L. Karraker	
	J1008
Project Title	
Flow Factor	
Objectives/Goals Abstract	
The object of my project was to learn whether or not the length and diameter of the flow of fluid through it. My gools were to time the flow of different diameter	f an artery had an affect on
find the resistance of the fluid, to learn more about my topic, and to have fun.	ers and different lenguis to
Methods/Materials	
With the help of Dr. Gregorgy, I cut out the left descending coronary artery out of both hearts to use in my	
experiment. I used an IV bag, catheter tubing, and a blunt tip to run the water the	nrough. After completeing
my experiment I used Poiseuille's Law to find the resistance of the fluid. Results	
The results of the project proved that my hypothesis was correct. When I ran the fluid through a longer	
artery the slower the fluid went and when I ran the water through one with a big	gger diameter the faster the
Conclusions/Discussion	
My conclusion of the project was that my hypothesis was correct. The artery the	at was longer was slower
also showed that my hypothesis was correct. This project expanded my knowle	dge of this project a lot. I
learned more about the heart and more about how the doctors use information t	o help them durin the
surgery of the data that they use before.	
Summary Statement	
My project is about how the resistance of arteries affects a person when they are	e treated with bypass
surgery or other cardiac procedures.	find the of pubb
Help Received	
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Mother helped with the board and some writing, the Meat Market store gave me the pig hearts, and Dr. Richard Gregorgy helped with some materials and the experiment.