

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Yousef Joseph; Nicholas Mah	
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	34391
Project Title	
Modeling a Blood Glucose Determination Using Surface Conductivity	
Abstract	
Objectives/Goals	
The objective of our project is to determing if it is possible to determing a person through surface conductivity. The purpose of this this project is to model a non-	n's blood sugar levels
glucose level determination.	hivasiye illetilod for blood
Methods/Materials The model of the model of the declaration of the de	<u></u>
The method for measuring blood glucose levels through noninvasive means is a model for the skin. Five bags of dialysis tubing would be filled with varying convater for the control and the experimental. The dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the experimental of the dialysis tubing would be submediately and the dialysis tubing would	of use dialysis tubing as a necentrations of glucose and
water for the control and the experimental. The dialysis tubing would be subme	rged in beakers filled with
distilled water. Before the dialysis tubing is inserted, the contactivity of each be	eaker would be measured.
The main difference between the control and experimental groups is that the exa a .3M solution of NaCl in the beaker that the dialysis thoughts submerged in. A	fter approximately 20
minutes, the conductivity of the beakers would be measured and compared to each other and their original conductivity to see if there was a change caused by the diffusion of the dialysis tubing.	
Results	
Analysis revealed that the control was relatively static with Succeptions. In terms of the experimental	
results showed a decrease in conductivity that was measured by a voltmeter. These results pertain to our objective in that the data obtained showed that a method for measuring blood glucose level could possibly	
act as a model for topical measurement.	
Conclusions/Discussion The results appropriate description in it is like a state of the state o	
The results supported our initial hypothesis in that the experiment showed how surface conductivity could act as a possible method for determining blood glucose levels. The possibility of a topical method of	
measauring blood glucose levels would have a great impact in the medical industry.	
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Summary Statement	
This project aims to propose an alternate method of measuring blood-sugar levels.	
Help Received	
Mother helped make board	