



**CALIFORNIA STATE SCIENCE FAIR  
2003 PROJECT SUMMARY**

<b>Name(s)</b> <b>Brandon Mendoza</b>	<b>Project Number</b> <b>S1008</b>
<b>Project Title</b> <b>Fetal Lung Maturity: Maternal Diabetes' Impact on Lamellar Body Count</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The goal of this project was to compare a fetal lung maturity test, lamellar body counts (LBC) in diabetic and non-diabetic pregnancies. <b>Methods/Materials</b> The experiment involved testing amniotic fluid samples on the Bayer Advia-120 hematology analyzer. A non-diabetic control for each identified diabetic case was selected by matching gestational age. <b>Results</b> There was no statistically significant difference of the LBC between diabetic and non-diabetic cases over the gestational ages studied. (32-39 weeks). <b>Conclusions/Discussion</b> This experiment supports the hypothesis that LBC does not vary between diabetes and nondiabetes cases during pregnancy.	
<b>Summary Statement</b> Comparing fetal lung maturity testing in diabetic and non-diabetic pregnancies.	
<b>Help Received</b> Used the lab instruments at Sharp Memorial Hospital under the supervision of the supervisor Darlynn Lafler, MT (ASCP); help with statistical analysis from Deb Poelter, RN, PhD, research nurse at Sharp Mary Birch Hospital for Women; Mother and Father helped type report; Dr. Susan Domanico, AP	