



Colorado Science and Engineering Fair

2025 Individual Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: Analysis of Patient Perceived Side Effects of Medically Induced Eye Dilation.

Finalist's Name: Terra McClure

School and City: Rocky Ford Jr-Sr High School

Sponsor's Name: Jason Bacolod

Category: Behavioral & Social Sciences

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

This project tests if different people with different colored eyes, ethnicities, and ages feel different side effects of medically induced eye dilation. I hypothesized that people with lighter colored eyes such as green or blue would experience the most side effects. Data collection started in October, and once enough data was received, I began to analyze the data. Dr. Ballantyne, an ophthalmologist, handed out the QR code that was linked to a JotForm questionnaire. The questionnaire asked questions about eye color, ethnicity, age, and side effects experienced. On average people with blue eyes experienced more side effects of eye dilation when compared to people with brown eyes. The two most common side effects were light sensitivity and blurred vision. Even without testing for a statistical difference I still found that on average people with blue eyes experienced more side effects of eye dilation.

I hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. I also attest that the above properly reflects my own work.

Finalist's Signature:

Terra McClure

Date: 2-14-25

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with you Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**