

COLLABORATIVE RESEARCH

SALUS UNIVERSITY COLLEGE OF OPTOMETRY
PHILADELPHIA, PA



eyesafe®

BLUE LIGHT
SUMMIT 2020



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Overview of Salus Research Project

Focus areas:

- Randomized clinical trial related to computer gaming
- To evaluate the effect of low blue light display on signs and symptoms of dry eye following hours of concentrated video gaming
- To analyze gaming performance for standard display or low blue light display

Status update



The screenshot shows a news article on the Salus University website. At the top, the Salus University logo is on the left, and navigation links for 'GIVING', 'Centennial', 'Salus Health', 'Academics', 'Admissions', 'Life', 'About', 'News', and 'Info For' are on the right. The main headline reads 'SALUS SIGNS RESEARCH AGREEMENT WITH EYESAFE TO STUDY BLUE LIGHT AND SCREENTIME'. Below the headline is a photograph of three men in suits sitting at a table covered with a red Salus University banner, signing documents. The article text below the photo states: 'Salus University and Eyesafe, a global leader in high energy visible blue light filtration technology and protection standards, signed a [Memorandum of Understanding \(MOU\)](#) to partner in a research project about the health hazards and protective solutions related to blue light for the electronics display industry.' A quote from Salus president Michael H. Mittelman follows: 'We're the premiere optometry program in the country and we're going to lead the way on this because it fits right into our DNA,' said Salus president Michael H. Mittelman, OD, MPH, MBA, FAAC, FACHE, at a signing ceremony Oct. 10 on the University's Elkins Park campus.

Oct 2019

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Status Update



Clinical Research Center re-opened in August
Examining subjects on campus with precautions



IRB approval as of October 1, 2020



Recruitment to begin November 2, 2020

Overview

- Double-masked RCT
- 30 participants (18-35 years old)
- Randomized to:
 - Standard Display
 - Low Blue Light Display
- Play Call of Duty: Black Ops II 20 minutes
- Then play any of provided games
- Final 20 minutes repeat Call of Duty for another 20 minutes
- Next visit switch assignments

Do you enjoy computer gaming? This study may be for you.



Recruitment is underway

This study will assess the impact of blue light filtration display technology versus a standard laptop computer display on the signs and symptoms of dry eye.

Are you eligible?

We are recruiting patients 18-35 years old with normal vision with or without glasses or daily-disposable contact lenses, no history of eye disease or eye surgery, and be willing to play video games for 3 hours.

Participants will be asked to participate in:

- A 45-minute screening visit to determine study eligibility
- Two 3 hour and 30 minute study sessions composed of:
 - 3 hours of game play on a computer
 - 30 minutes of eye tests and symptom survey

Participants will receive:

\$20 for completing the first study session
\$30 for completing the second study session

If you're unsure if you meet the requirements, email a member of study team:

Dr. Laine S. Higa

Principal Investigator

Outcomes

Compare change in:

- Blink rate
- Dry eye measures
 - Symptoms score
 - Objective measures
- Gaming performance

eyesafe.com/research