



Eye Dissection Video Guide: An Innovative Approach to Anatomy Education of the Orbit, Eye, and Intraocular Lens

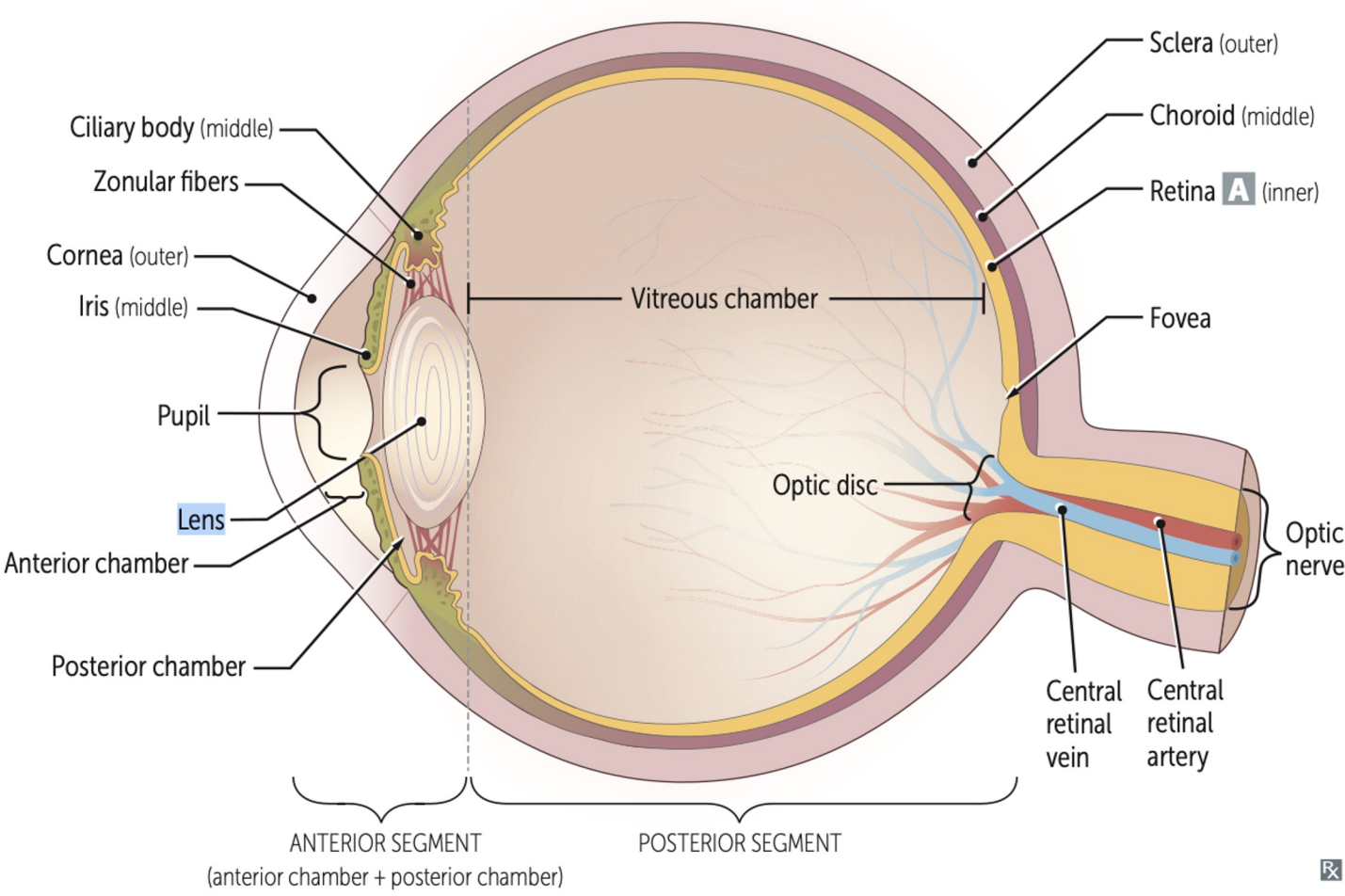
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Introduction

Cadaver dissection remains a vital part of the anatomy curriculum for preclinical medical students. This project created and implemented a step-by-step video guide of the eye dissection process which was provided to first-year medical students prior to their scheduled dissection time in the anatomy lab.

Aims and Objectives

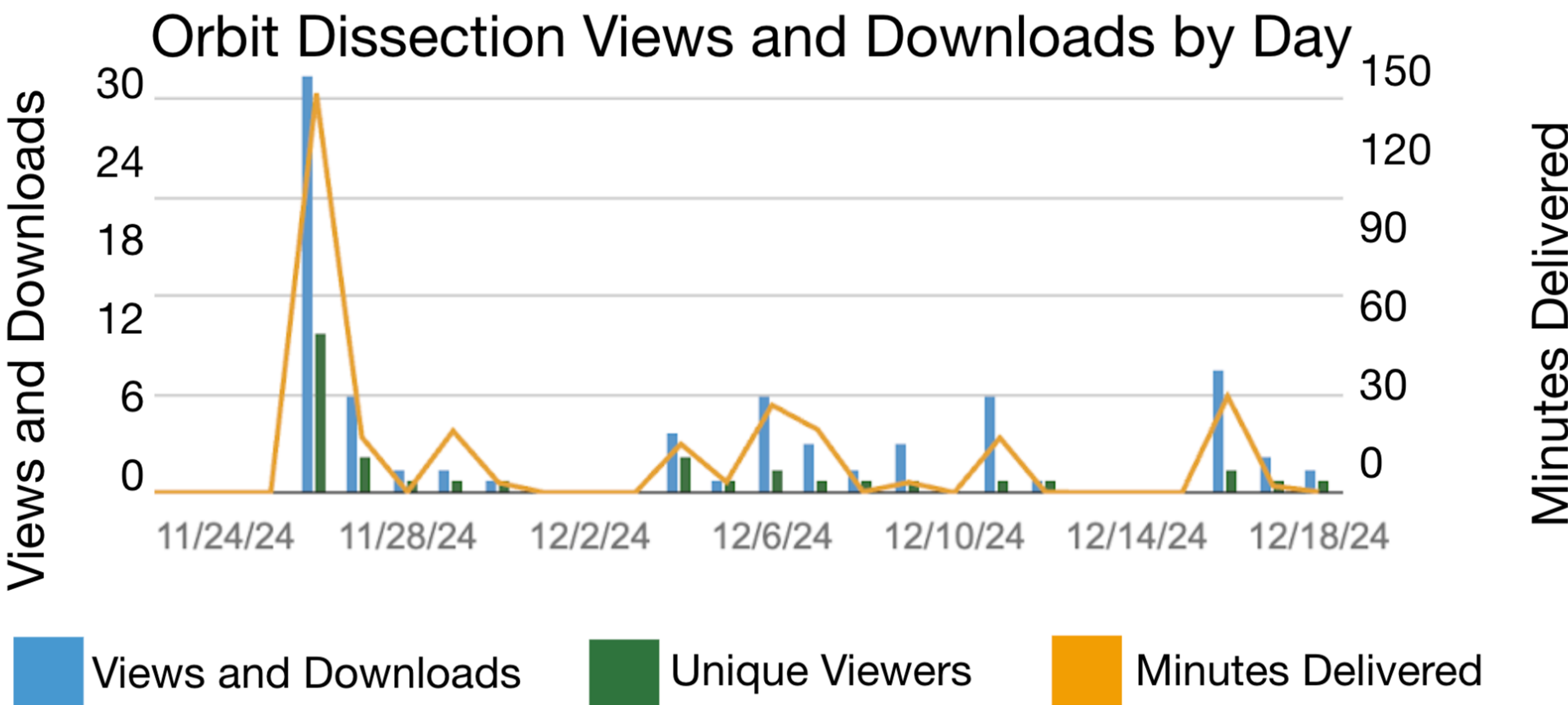
The aim of this project was to devise a way for students to have a better understanding of the anatomy of the orbit, eye, and intraocular lens prior to entering the anatomy lab, and therefore have a better experience when performing a dissection of this region themselves.



Approach/Process

A series of six short (between 1:00 and 9:00 minutes long) narrated videos were created, with each highlighting a specific area of eye anatomy. Video topics included:

- Left Orbit Anterior Approach
- Contents of the Orbit
- Right Orbit Superior Approach
- Eyelid and Lacrimal Apparatus
- Orbit - Osteology
- Orbit - Surface Anatomy



Expected Results

The module and post-module survey have been provided to 125 first year medical students. The results of the survey remain pending. We anticipate that the results will indicate an improvement in student preparedness and anatomical understanding prior to performing their own dissection of the eye and orbit.



Evaluation Plan

The module was provided to students via a Panopto video link available on their anatomy course Moodle page. Students have been asked to self-report the module's perceived effectiveness via an online 14-question post-module survey. Two example survey questions can be seen below:

The short videos were a useful resource for reviewing anatomical structures in preparation for examinations.

1= Strongly Disagree. 2= Disagree. 3 = No Response. 4= Agree. 5= Strongly Agree

The short video improved my ability to recall anatomical structures.

1 = Strongly disagree. 2 = Disagree. 3 = No Response. 4 = Agree. 5 = Strongly Agree

Discussion

Pending positive survey responses, we foresee this project suggesting the utility of similar video-based modules that prepare students for dissection of other complex regions of the body, such as the cranium, neck, or pelvis.