

# Remotely Viewing Through The Eyes Of A Microscope!

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## INTRODUCTION

Unlike other Specialties where the patient and their medical problem is easily seen without any other assistive technology, Ophthalmology is very unique in that all teaching of medical students and health staff utilises a microscope. This means that both the clinician, patient and student are often head to head at the microscope, with the clinician and student often using the same microscope eye piece. The Covid 19 Pandemic and social distancing, has put an end to this, but we are equally determined that innovation and continued teaching will prevail.

## AIM

To develop a worldwide financially viable innovative alternative of ensuring that live teaching with patients can continue for medical students during their Ophthalmology placements during and post Covid 19.

## MATERIALS

The following items are needed:

- Slit lamp with a standard eyepiece or teaching arm or beam splitter with C mount.
- Mobile / cell Phone
- Mobile phone to Eye piece adaptor mount (cell phone adapter mount) – available on Amazon
- PC with Screen Monitor & webcam or any other mobile device with a large screen & camera.
- Access to Microsoft (MS) Teams on both the Mobile Device on the slit lamp and also the PC/Other large screen mobile device.
- Two email addresses – one address associated with your PC to host a MS meeting and send invites and the other (“teaching email address”) associated with the mobile phone to be invited to the meeting.

# METHODS



## RESULTS

Live remote teaching utilising the slit lamp bio-microscope with standard eye pieces was successfully achieved. Our Live results can be seen by scanning the QR code on your mobile device.

## DISCUSSION

To the authors knowledge this is the 1<sup>st</sup> time this method of live teaching has been described. It is not only financially viable but also cost effective for most institutions.

This novel new easily reproducible method can be utilised in other ophthalmology departments and the other specialties that utilise microscopes or perform microsurgery. It is also adaptable with most eye pieces, teaching viewing arms or beam splitter with a C mount.

## CONCLUSION

While problems and obstacles may arise due to circumstances beyond our control, we can turn them into stepping stones for opportunity and success.

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