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**Methods of Remote Visual Field Assessment using AnyDesk Software
and a Medmont M700 Automated Perimeter**

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Introduction:

- Traditionally, many healthcare providers have strayed away from using technology such as remote desktop software to remotely assess patients.
- As stated in our previous article, there are ethical considerations to abstain from technology like remote computer software use in a consulting room and one must consult the relevant professional, legal and ethical guidance from the appropriate organizations.
- In these unprecedented times, with the risks associated with the COVID 19 pandemic, a novel approach to develop a safe way for Optometrists, Ophthalmologists and other health care practitioners to remotely evaluate a patient's visual fields needs to be considered, explored, discussed and further developed.
- The ideas presented in this paper are purely theoretical and only to facilitate further discussion.

Methods:

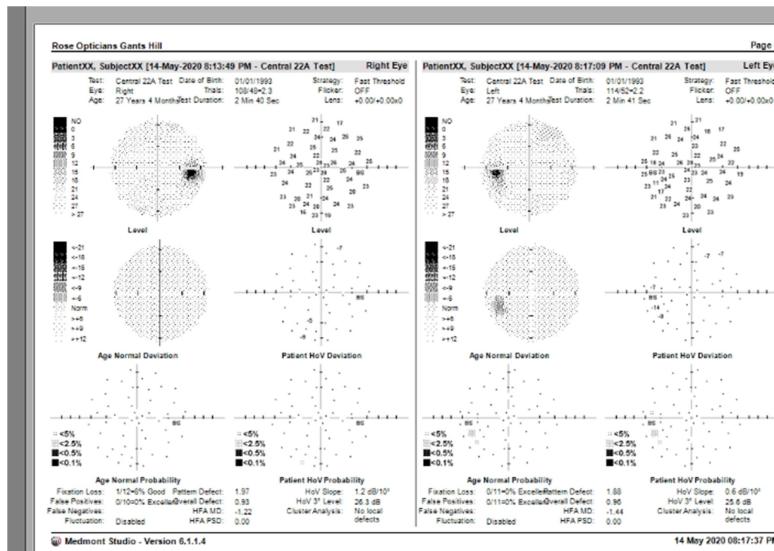
- The following will attempt to demonstrate and establish a theoretical protocol to collect Visual Field reports from patients remotely using software called AnyDesk on a Medmont M700 Automated Perimeter.
- The Visual Field Machine and connected computer terminal with the AnyDesk software installed is placed in an isolated room.
- The equipment is disinfected prior to the patient arriving as per the relevant guidelines; the patient is given appropriate instruction by the clinician from a safe distance of greater than two meters any other necessary equipment is also provided.
- Further, instructions are also provided in a written format in step by step logical method for the patient to refer to if needed.
- The practitioner will access the computer terminal from a consulting room with another computer terminal using the AnyDesk software to control the Visual Fields machine and connected computer terminal.

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Analysis:

- A hypothetical Visual Field report obtained using the above protocol can be seen below with the participants full and explicit consent.
- **Figure 1- Central 22A 22°: 45 to 96 Points**



Discussion:

- A leaflet could be produced in keeping with the Royal College of Ophthalmologists, College of Optometrists, NHS England and other relevant guidelines to better inform the patient with clear instructions for disinfecting the instruments. A protocol such as the one discussed above could be used to ease the burden on Hospital Eye Departments by employing private business to remotely utilize suitable Visual Field machines and connected computers without the need for extensive Personal Protective Equipment. These Visual Field Reports could be uploaded to a secure service like eCare Evolutio's Evonnect or sent to clinicians via NHS.net accounts.

Conclusion:

- This is a purely theoretical concept that needs further investigation and testing before it could be safely utilized. N.B. Not Clinical Advice

Further Notes & Limitations:

- The Visual Field reports utilized are of the authors Visual Fields and have been anonymized with full consent given for teaching and research purposes. The lighting of the room was not measured but could be repeated in dark and light environments.

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References:

- Medmont, 2020. [online] Medmont.com.au. Available at: <https://www.medmont.com.au/media/47198/pn003214-doc10v14-m700-brochure-english_read.pdf> [Accessed 14 May 2020].

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