

Image Article

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Optics Solution In The Sars Cov -2 Pandemic With A New Portable Device

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Introduction

The pandemic that the world has suffered has led to the use of ingenuity in order to continue assisting the people who need it. Consultations at opticians were not possible for people at risk of contracting the disease.

The introduction of remote medical devices in different areas of health, as well as the increase in telemedicine consultations, have propelled these devices to.

Material and Method

Retinoptic® is a simple device (Figure 1 A and B) that contains a camera to obtain high definition images through a portable device Welch Allyn® PanOptic™ (Figure 2A), or a table device, slit lamp (Figure 2 B), inside it has a device storage of images and videos, which can then be transferred to other devices through USB mode.

Retinoptic® presents an adapter for the table slit lamp (Figure 3), thus adapting in a correct and simple way (Figure 4).

Regarding the portable device (Welch Allyn® PanOptic™), the adapter is similar to the one presented previously (Figure 5), also showing easy adaptation (Figure 2A).



Figure 1B



Figure 2A

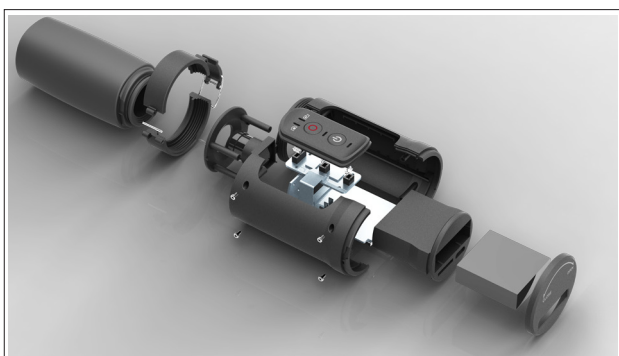


Figure 1A



Figure 2B



Figure 3

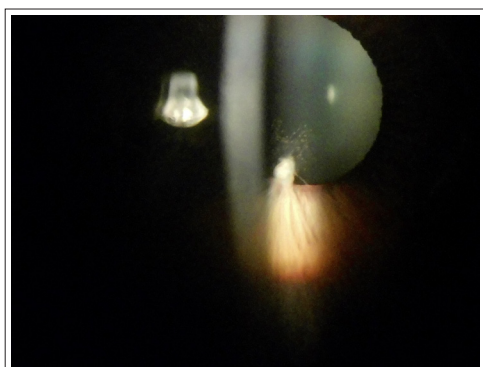


Figure 4



Figure 5

Conclusion

Mobile devices that can be adapted to medical devices have been useful in the pandemic and will continue to be common practice in the future given the ease they provide for patients who have limited mobility, are isolated for any reason or cannot travel to the center diagnosis. Also the uses of these adapters for remote ophthalmological screening are correct and provide a source of important visual information for the clinical history. Keywords: optics solutions, pandemic, ophthalmic device.

Conflict of Interest Statement

Moyano B and Duarte J. are part of the company and creation of the device

Oleñik A There are no conflicts of interest

References

1. Doraiswamy S, Abraham A, Mamtani Cheema S (2020) Use of Telehealth During the COVID-19 Pandemic Scoping Review. *J Med Internet Res* 22: e24087.
2. Lukas H, Xu C, Yu Y, Gao W (2020) Emerging Telemedicine Tools for Remote COVID-19 Diagnosis, Monitoring, and Management 14: 16180-16193.
3. Sommer AC, Blumenthal EZ (2020) Graefes Arch Clin Exp Ophthalmol/Telemedicine in ophthalmology in view of the emerging COVID-19 outbreak 258: 2341-2352.
4. Zapata MA, Arcos G, Fonollosa A, Abalades M, Oleñik A, et al. (2017) Telemedicine for a General Screening of Retinal Disease Using Nonmydriatic Fundus Cameras in Optometry Centers: Three-Year Results Telemed J E Health 23: 30-36.

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