

**International network dedicated to visual health
would allow an improvement of the collaboration
between professionals**



Abstract Submission

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International network dedicated to visual health would allow an improvement of the collaboration between professionals

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Objective: In many countries, care access is a problem and communication between professionals remains limited. New technologies, the digitization of the health sector and the emergence of artificial intelligence are real opportunities to transform the visual health sector. We are working on the implementation of an international digital platform with the aim of improving the patient care pathway and facilitating exchanges between all professionals.

Methods: We have developed a web platform to analyze the need of patients in visual health and to direct it to the most suitable professional. Four technologies have been developed: online pre-consultation, inter-professional intercession modeling, a telemedicine and teleexpertise tool, and encrypted messaging between professionals. We integrate ophthalmologists, orthoptists, optometrists and opticians into the system. We offer them the first collaborative tool to communicate securely, transfer patients and share medical exams. All declared health data are stored on a French licensed health server. Our study covers a period of 9 months in the French territory and part of Italy.

Results: Our system is in operation in France and more than 200 professionals used it daily. More than 100,000 requests for appointments could be processed. We were able to provide an appointment in 30,000 of the cases.

The distribution of these requests in terms of age is 7% (0-6 years), 19% (6-16), 47% (16-50), 17% (50-65) and 10% (65%). +). Our orientation algorithms allowed a breakdown of demand to ophthalmologists, orthoptists and opticians in this proportion 59%, 25% and 16%.

The conversion rates between the orientation proposals and the validation of the appointment break down as follows: 17% ophthalmologists, 90% orthoptists and 34% opticians.

We were able to highlight 1761 patients reporting a serious reason that could be prioritized on an appointment.

The geographical distribution is studied by typology of need on the territory and will be illustrated by maps.

Conclusion: Our system has shown its effectiveness in the organization of care in a territory by using the skills of different professionals.

We have been able to efficiently set up telemedicine protocols that allow for a delayed and secure reading of patients' eyes.

The establishment of an international network dedicated to the visual health would allow an improvement of the collaboration between professionals, the efficiency of the care and the epidemiological analysis of the different ophthalmic pathologies.

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