MIKAJAKI

Case Study

Hospital De La Paz improves both quality and speed of care using the MIKAJAKI platform.

The First Full Auto Diagnostic Platform

CHATBOT - A.I. - ROBOTIC

THE PROBLEM

Patient wait times up to a year and an inefficient patient referral system were two of the main challenges facing Hospital La Paz.

Hospital Universitario La Paz in Madrid, Spain was experiencing a severe patient backlog with eye exam wait times reaching nine to twelve months. The hospital was sending 100% of patients were sent to the outpatient clinic, inundating the hospitals staff and eye care professionals. The estimated waitlist in Spain for eyecare was estimated at as 448.226. in 2022.

Other challenges facing the hospital included:

- Overcrowded waiting rooms at the outpatient unit
- Rushed care from specialists due to patient overflow
- High levels of anxiety for patients unable to receive care

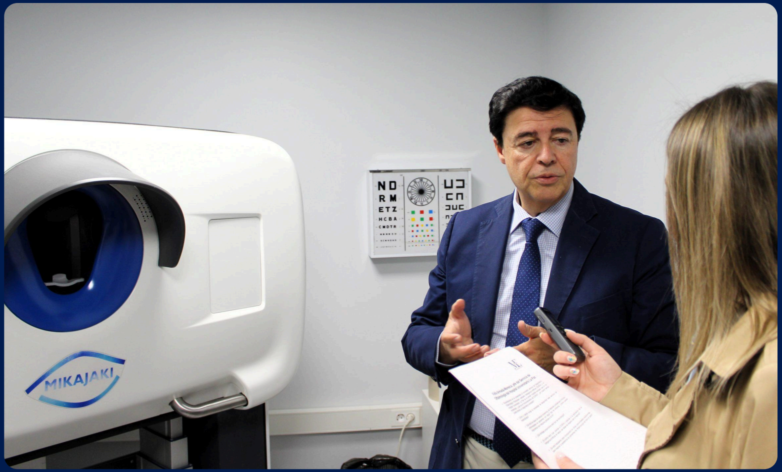
THE SOLUTION

Hospital de La Paz implemented DARION, a new ophthalmic diagnostic process utilizing MIKAJAKI’s EyeLib, to screen, diagnose, and refer eyecare patients.

How DARION Works

Upon arrival at the hospital’s outpatient clinics, each patient receives a customized questionnaire and visual acuity test via the mobile app. Next, in about six to seven minutes, EyeLib’s robotic system, powered by AI, screens the patients for hundreds of eye health parameters and diagnoses any ocular pathologies. The results are then reviewed by an eye doctor, who decides the next steps for the patient

Using DORIA, Hospital La Paz efficiency screened and diagnosed all eyecare patients prior to sending them for manual eye exam. After just 2,000 patients, the hospital had already significantly improved patient flow and operating efficiency in the hospitals’ ophthalmology department

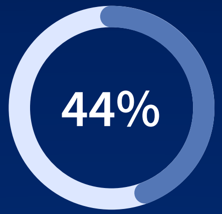


- Significantly shorter patient waiting time
- Earlier detection of potential eye health pathologies
- Eye specialists were able to focus on patients with diagnosed pathologies

THE PROBLEM

EyeLib's effectiveness proven after 2,000 patients diagnosed with EyeLib.

By identifying which patients were healthy and which were in need of followup by a specialiast or surgery, EyeLib improved patient quality of care patients and improved preventative health, while providing the hospital cost savings and greater efficiency.



44% of patients were sent home with a specialist reviewing that no pathologies are present. EyeLib allowed patients without pathologies to avoid a manual eye exam at the outpatient unit, resulted in a significant decrease in patient wait times and uncecesarilly testing "healthy" patients.

About 33% of patients were sent to the outpatient clinic for a follow-up exam. Patients who were diagnosed by EyeLib with potential eye conditions that required follow-up by a qualified medical professional according to their pathology. For example, referred patients were sent directly for a retina consultation and no longer to the outpatient unit.

The remaining patients were sent directly to specialized treatment areas in the hospital for follow-up, including **13% of patients diagnosed with cataracts referred for surgery and 3% with glaucoma.** Patients arrived at the specialized area of service with a complete diagnosis and were fully informed about their symptoms and next steps.

A new way to solve **large patient backlogs** in eye healthcare

"This will make us manage consultations and redirect patients more efficiently, drastically reducing the jam on the diagnostic waiting list, resulting in better service for patients, because they will be attended to much sooner. It is a very good system to be able to manage a large population like the one we have in our hospital better and in a more efficient and modern way."

THE IMPACT

This is the impact sentence that explains the impact. It can go before the body

MIKAJAKI's platform not only resulted in **more efficient patient diagnosis and speed of care, but also improved the quality of eye care and streamlined referral process.** Patients who received a clean bill of health no longer had an extended wait time, including patients with symptoms or pathologies.

Reducing the delay in care and the resulting distress is a critical part of preventative healthcare, a priority for both Hospital la Paz and Spain's Minister of Health.

In addition, EyeLib's ability to refer only patients with pathologies to specialists enables the doctor to spend more time the patients who actually need care. That's a huge benefit for both the doctor and patient.

According to Dr. Armada, the use of EyeLib's robotics and artificial intelligence also significantly boosts accuracy of diagnosis.

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