DIGITAL DIAGNOSTICS
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BLESSING Health System

Blessing Health System Case Study

How Blessing Health System is Using Artificial Intelligence to Test Patients for Diabetic Retinopathy

Blessing Health System's Struggle

Blessing Health System is an integrated health system based in Quincy, Illinois with more than 200 providers serving patients in west central Illinois, northeast Missouri, and southeast Iowa.

The health system is dedicated to providing comprehensive diabetes care to its patients but has struggled with compliance for the eye exam for people with diabetic retinopathy (DR).

To combat this, Blessing Health System has worked to build better partnerships and referral networks with ophthalmologists in its community. Still, many patients do not follow through on their referrals to eye care.

"Patients that have diabetes need to see an eye doctor every year to [test] for diabetic retinopathy," said Dr. Irshad Siddiqui, Chief Health Information Officer at Blessing Health System. "Of our patient population, less than 25% were able to make that visit."

The Solution: LumineticsCore

Recognizing the need for an easy-to-use and convenient solution for diabetic retinopathy testing

Blessing Health System adopted the LumineticsCore™ (formerly ID-DR) artificial intelligence (AI) system. LumineticsCore is an FDA-cleared autonomous AI diagnostic system that does not require a physician to interpret the images or results.

Blessing Used LumineticsCore

Blessing used LumineticsCore to establish a screening program without in-house eye care

The LumineticsCore exam typically takes minutes to complete and produces a diagnostic assessment at the point-of-care in less than a minute.

With the addition of LumineticsCore, Blessing Health System was able to begin a diabetic retinopathy testing program, essentially overnight. Once installed, an existing member of the clinic staff went through a short training and Blessing was ready to administer exams.

Quick Facts

<25%

Compliance for eye care referrals before LumineticsCore

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How Blessing is Using LumineticsCore

"After I see the patient, if they qualify for it or if they don't have an eye doctor, we do the exam and get immediate results," Dr. Tim Beth, OD, family medicine doctor at Blessing Health System explained.

"If there is any evidence of retinopathy, we refer them to an eye doctor. If there is no evidence of retinopathy, we'll do it again next year."

"Digital Diagnostics has done well in developing an algorithm that can detect the possibility of early disease," said Dr. Beth. "We would be missing patients if we did not use it."

Kristy Shepherd, a medical office assistant who is trained to conduct LumineticsCore exams at Blessing says results can be life-changing for patients that get tested with the AI system.

Early Success Metrics

Since installing LumineticsCore, Blessing has performed DR exams on over 150 patients and found referable levels of diabetic retinopathy in 7% of those patients.

Conclusion

Using LumineticsCore, Blessing Health System is providing more comprehensive diabetes care and improving patient compliance for the diabetic retinopathy exam.

Patients receive their results immediately and are referred to the care of a specialist if needed, all without scheduling a separate appointment, or waiting days or weeks for their exam results. This provides an opportunity for vision loss intervention.

Results since Installation

150+

patients tested with LumineticsCore

7%

of patients tested positive for DR

"I know we've found something that the patient probably was not going to find for some time if we were not offering the exam."

Kristy Shepherd - Medical Office Assistant Blessing Health System

Results from case studies are not predictive of results in other cases. Results in other cases may vary. Indications for Use: LumineticsCore™ (formerly IDx-DR) is intended for use to automatically detect more than mild diabetic retinopathy (mtmDR) in adults ages 22 years of age or older diagnosed with diabetes who have not been previously diagnosed with diabetic retinopathy.

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