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Improving Diabetic Retinopathy Screening Rate in a Rural Primary Care Setting Using Point of Care AI Technology

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Point of Care AI Technology Poised to Improve Diabetic Retinopathy Screening Rate in Rural Primary Care Setting

Title: Improving Diabetic Retinopathy Screening Rate in a Rural Primary Care Setting Using Point of Care AI Technology

Author: Shane Kirkegaard DO

Background

- Diabetic retinopathy can cause vision loss without prior symptoms
- Barriers exist to manual eye exams with an eye doctor
- Point of care AI technology has been proven to screen for diabetic retinopathy as well as an eye doctor
- Western Maine Health's diabetic retinopathy screening rate is only ~60%

Discussion

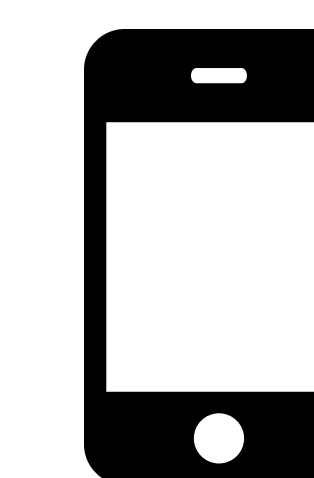
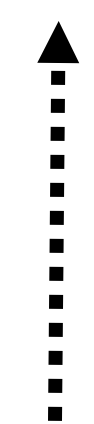
- Positive early feedback from patient's and staff
- Training staff to acquire images of the eyes has been a barrier to implementing AI point of care diabetic retinopathy screening

Methods

- Western Maine Health Primary Care Clinic purchased a camera for point of care diabetic retinopathy screening
- The clinic started using AI technology to screen patients
- Patients with diabetes over age 18 who are eligible for diabetic retinopathy screening and without other significant eye disease are being offered AI point of care screening
- The screening rate will be assessed before and after AI technology implementation

Results

- Data still being collected



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