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The Problem • 1 in 3 develop DR • 50% receiving screening exams • OPPORTUNITY • PCP on front lines • TRS improves access, detection and outcomes.

Goals of Collaboration Enhance patient outcomes. Increase screening rates. Reduce referral barriers. Increase quality of care. MACRA MIPS (providers) HEDIS STAR Ratings (ins)

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AAO supported

Meta Analyses Establishing Efficacy with good S&S

- Telemedicine for detecting diabetic retinopathy: a systematic review and meta-analysis. Lili Shi1,2, Huiqun Wu1, Jiancheng Dong1, Kui Jiang1, Xiting Lu3, Jian Shi. BJO June 2015 volume 99-6.
- Screening for Presence or Absence of Diabetic Retinopathy: A Meta-analysis. Peter Bragge, PhD; Russell L. Gruen, PhD, MBBS, FRACS; Marisa Chau, BBNSc(Hons). Andrew Forbes, PhD; Hugh R. Taylor, M. Arch Ophthalmol. 2011;129(4):435-444.
- Cost-effectiveness and diagnostic accuracy of telemedicine in macular disease and diabetic retinopathy: A systematic review and meta-analysis. Waqas Ullah, Sana Khan Pathan, Ankur Panchal, Swapna Anandan 2019 JDC Jefferson.edu.
- According to Research GPT, 118 original articles were published from 2015-2020 on the subject.

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Why Teleretinal Screening? (TRS)

- ACCESSIBILITY: retinal imaging at PCP office.
- EFFICIENCY: captured and promptly reviewed remotely by MD.
- ACCURACY: high sensitivity and specificity.
- BROADER IMPACT: detects other diseases



HEDIS Scores The HOOK Healthcare Effectiveness Data and Information Set Hgb A1C RETINAL SCREENING!! Nephropathy screening BP control What are HEDES Measures: Overlaw and Guida

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Easy access. Fewer appointments. Less cost to screen. Earlier detection. Reduces vision loss.

Why Retinologist Benefit

- Builds relationship with PCPs.
- Fewer screening exams in office.
- Managing sight-threatening disease.
- Earlier detection and intervention.
- Preventing vision loss.



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Why Insurers Benefit

- Improve quality measures.
- Improve patient-doctor relationship.
- Reduce cost
- Reduce # appointments
- Earlier intervention
- Cost savings to screen pts



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Why PCPs Benefit

- HEDIS Scores determine care quality thus impact reimbursement.
- Better control of pt compliance with inoffice cameras.
- Better coordination of care through third party web based infrastructure and outsourced appointment scheduling.
- Patient Doctor satisfaction.
- Proven benefits. (2 cam to 24 cameras in 8 years)



CMO Own Words

- 15,000 DM pts
 Offering retinal screening builds patient connection to PCP.
- Reduces frustration of chasing outside records.
- PCP showing fundus image improves focus on Hgb A1C.
- MC ACO (and other risk-based contracts) increase pay for DM pts from 12K to 18K if any DR detected.
- Screening rates jumped from 25% to 70%.
- MC Advantage STAR ratings up.
- MC ACO in top quartile.



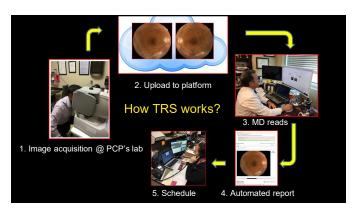
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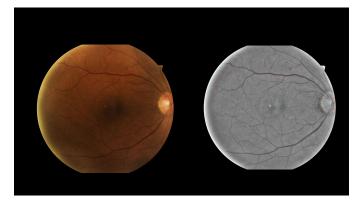
The Details

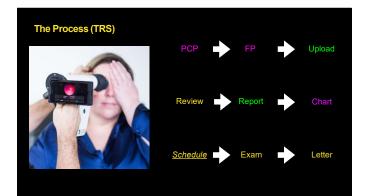
- Fee for service ...break even at best
- Code 92250... MC \$74. Commercial Ins... \$125
- Third party infrastructure gets around \$33/ patient
- Table top camera: \$15K; stability and longevity. Locations >10 PCPs
- Hand held camera: \$7K; 3% less readability. Locations 5-10 PCPs
- As readers paid \$5/pt.
- Speak to CMO, PCP lead physician, Population Health Department, NOT CFO.



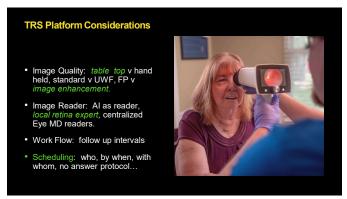
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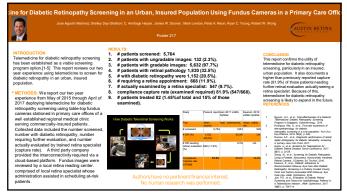


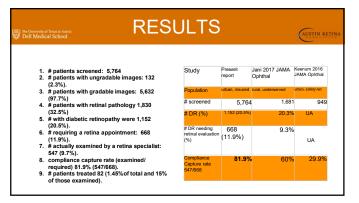


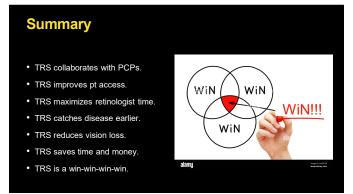


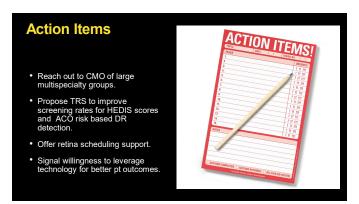




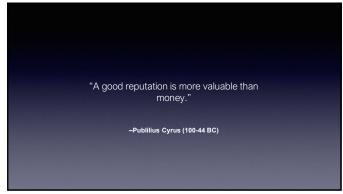












The Details 2 • 150 PCPs using 24 cameras • Currently at 5.681 screens/y • Profit of \$80.000/y in central location of 15+ PCPs • Negative income at lower PCP sites. • Some make money most break even. • MC ACO now in top quartile. • MC advantage STAR ratings up • 700K total lives with 15K DM • 450 screens/camera to break even. • PCP typically has 50-100 DM patients