

Emerging Trends That Will Transform Eyecare

Presented by Jay Binkowitz

Co-founder GPN EDGEPro

Co-founder & EVP Professional Relations Keplr Vision

Industry Consultant - AskJayB

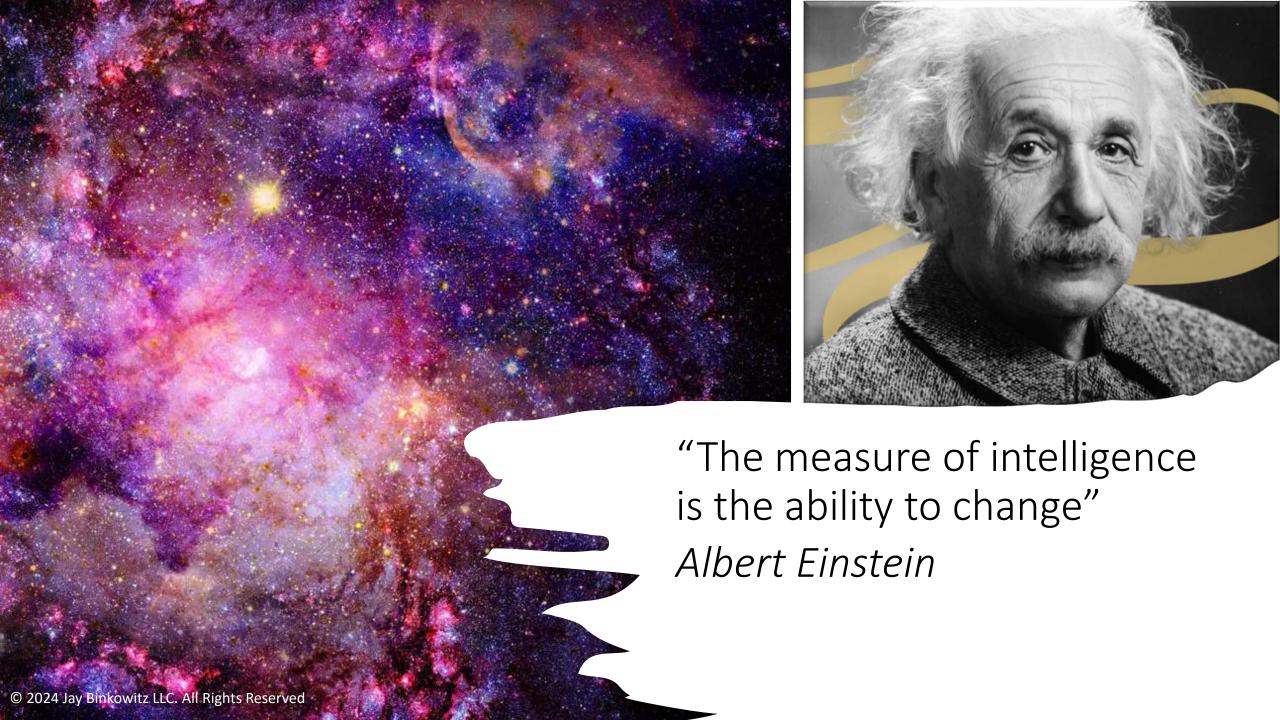


Jay Binkowitz

Over the last 40 years, Mr. Binkowitz has had extensive experience in retail operations, merchandising & marketing, manufacturing & distribution, technology development, national sales, and on-site interactive consulting.

With the development of GPN™ EDGEPro, he created a unique support company that provides infrastructure to strengthen independent practitioners with new business management tools and processes. He is the co-founder & EVP of Professional Relations Keplr Vision and works as an industry consultant.

Mr. Binkowitz served 2 years as the benedict professor at the Houston College of Optometry and as an adjunct professor. He has published articles in many eye care industry magazines and is a keynote speaker at many industry events, both domestically and internationally.



Welcome to the Golden Age of Optometry Buying?

Opening?

a practice

Growing?

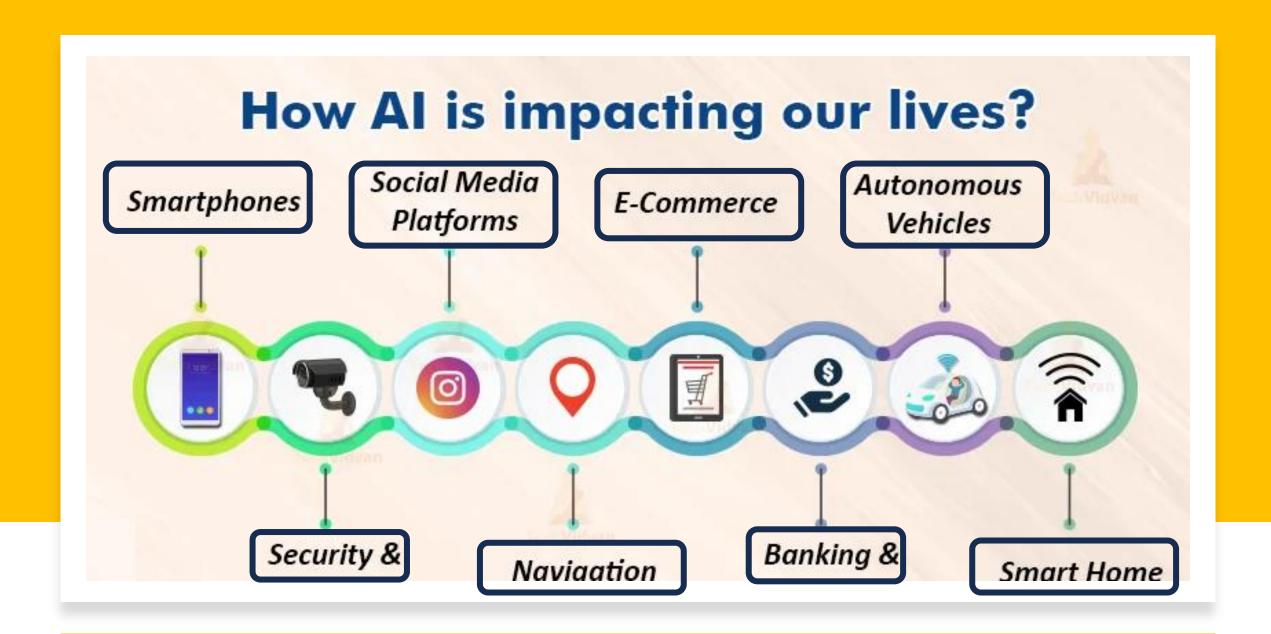
What questions should you ask?

Welcome to the Golden Age of Optometry new opportunities as we redefine patient care and our role

practices of yesteryear are drifting away

the arrival of new technologies, treatments and the possibility of **ownership in ways we never imagined.**

the population's need for "Advanced Medical Care" (AMC).





How artificial intelligence is used in "healthcare"?

Remote Doctors, Techs, Scribes and more ...



Al provides opportunities to reduce human error, assist medical professionals and staff, and provide patient services 24/7.



Reading medical images, X-rays and scans, diagnosing medical problems and creating treatment plans.

Grant Thornton

The benefits that AI offers to the "healthcare" industry include

predictive capabilities

assistance in administrative tasks

expertise in pattern recognition and learning

explanation of outcomes

for use by patients, by clinicians, by administrative staff, and by the pharmaceutical industry

For non-medical

over-the-counter wearables

Fitbit

Apple Watch

Blood pressure monitors

*These devices collect data on bodily functions such as <u>heart rate, temperature, blood sugar</u> and mobility.

They compile data to deliver health diagnoses directly to the wearer.



Discover New Avenues for Reimbursement



CPT 92081 | 92082 | 92083

Visual Field testing is billable to insurance with a national average of \$33.51 - \$63.68.*

Born out of Bascom Palmer

Heru was born out of 10 years of clinical research at the University of Miami's Bascom Palmer Eye Institute, the nation's leading eye hospital.







Dark Adaptation

CPT 92284

Measure dark adaptation
to evaluate retinal
function.



Color Vision

CPT 92283
Eliminate paper charts and plates while expanding practice capabilities.



Visual Fields

CPT 92081, CPT 92082, CPT 92083 Screen patients faster than ever before, anytime, anywhere in your practice.



Contrast Sensitivity

Life isn't black and white. Go beyond visual acuity with digital Contrast Sensitivity.



Enhance the Patient Experience. Increase Practice

Provide a more comfortable, enjoyable patient experience with our wearable AR/VR device.

Revenue.

With 9 vision exams linked to 5 CPT codes, we deliver a simple solution to reimbursement for patient care.



Virtual Vision Test by Warby Parker

Seeing well out of an expired glasses or contacts prescription? If you're eligible, renew yours from home in just 10 minutes.

\$15 only if your prescription is renewed

Download for free







www.aop.org.uk



Home monitoring

For optometrist Stephanie Campbell, a formative experience that illustrated the potential of technology occurred when she was testing the vision of a young boy with Down's Syndrome while completing her PhD at Cardiff University.

Campbell was struggling to test the vision of her patient without glasses, when he reached for her iPad and started searching for videos.

"He could find the YouTube icon but when he got into YouTube, he couldn't really see much detail," she said.

Campbell began to wonder if she could develop a video game where patients would tap on the objects that they can see. Technology that could be used from the comfort of a patient's home would also lessen the stress that some patients feel when attending a sight test.



Dr Stephanie Campbell

"If we could gamify the measurement of vision, it makes someone less nervous, and you actually get better data when the patient is relaxed," Campbell explained.

Myopia and Al

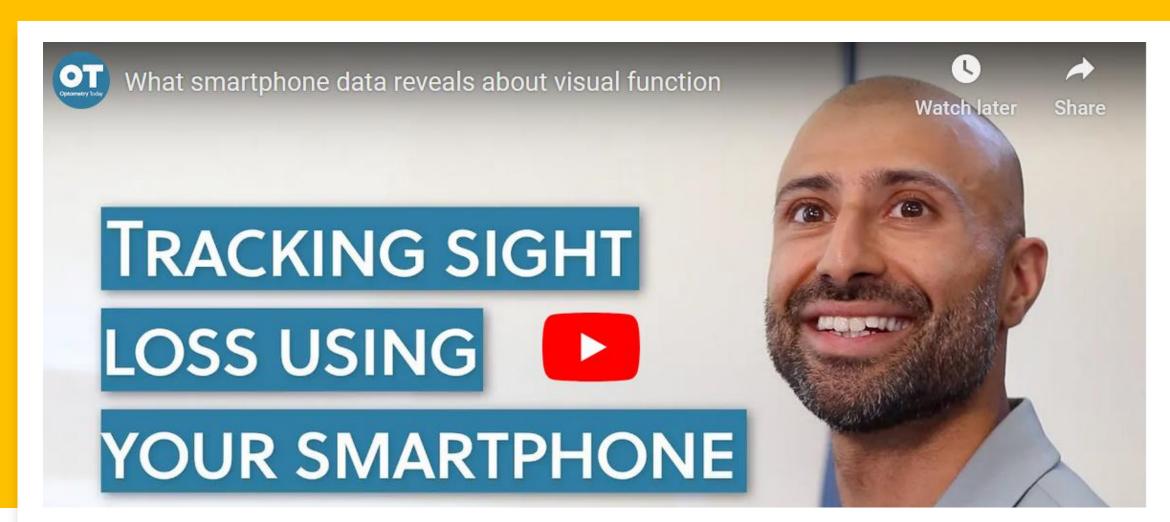
Professor Daniel Ting is head of artificial intelligence and digital innovation at the Singapore Eye Research Institute.

His team developed the Singapore Eye Lesion Analzyer Plus (SELENA+) – a CE-marked deep learning system that screens for diabetic retinopathy.

Ting and colleagues have also developed two AI algorithms with applications for myopia.

The first algorithm helps to screen for myopic macular degeneration and myopic choroidal neovascularisations among adult myopes – as well as identifying those who at risk of developing the conditions.





Optometrist, Kishan Devraj, developed a chat bot to answer the questions of patients with genetic eye disease.

You need to be the EXPERT!

What is your definition of

an Optometrist?

patient care?

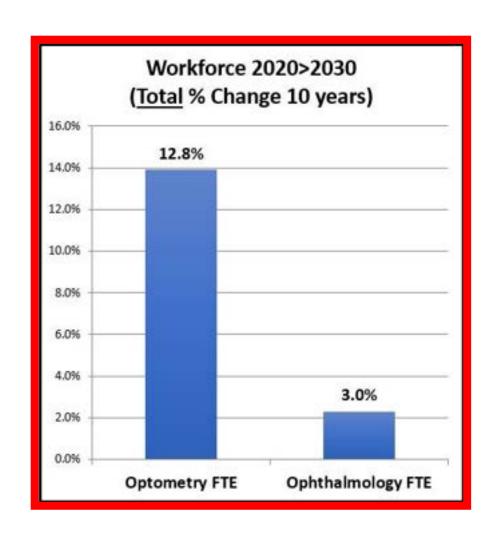
cookie cutter optometry?

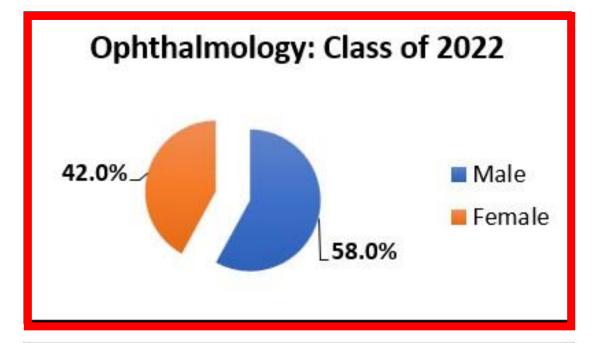
What's the definition of a practice?

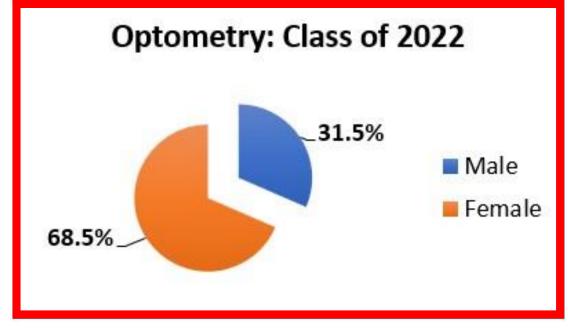
How will you leverage technology to provide care and a new experience for your patients?



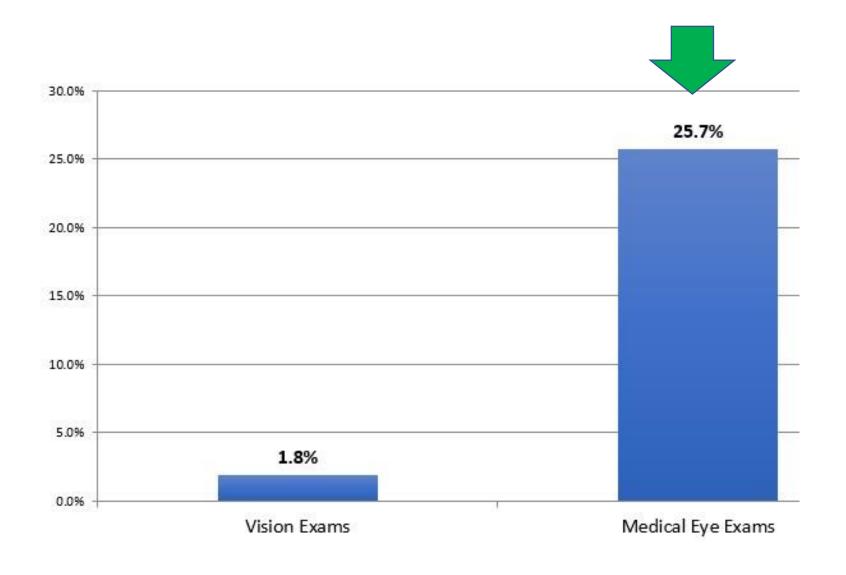
Workforce Demographic Shifts 2020 - 2030



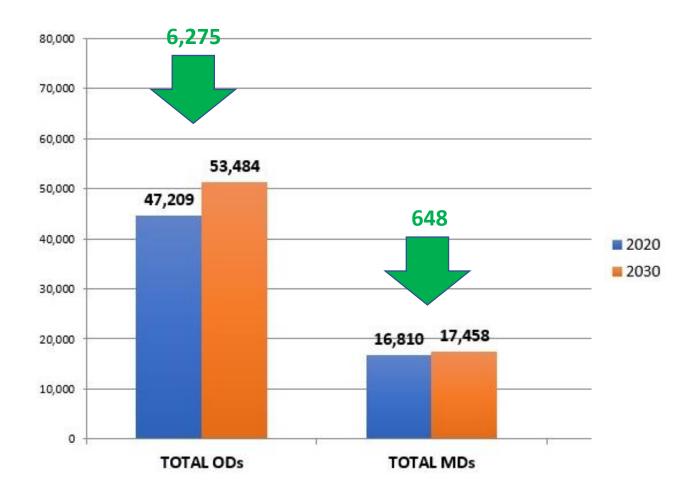




Exams Total 10 Year Growth Rate 2020-2030



TOTAL WORKFORCE 2020 - 2030



Summary

We will not have enough doctors to service the demand

New Graduates (2022)

OD's - 68.5% Female

MD's - 58% Female

FTE Growth by 2030

OD's - 12.8%

MD's - 3%

Total Work Force 2020

OD's - 47,209

MD's - 16,810

648/10=65

Total Work Force 2030

OD's - 53,484

6,275/10=628

MD's - 17,458

Exam Growth by 2030

Vision - 1.8%

Medical - 25.7%

Over 65 Population

30.5% Growth

Medical Eye Exam Demand

FTE MD's

2020 - 56,911,555

2020 – 16,042

2030 - 71,540,972

2030 – 16,518

14,629,417

476

Cataract Surgery

FTE MD's

2020 - 4,200,000

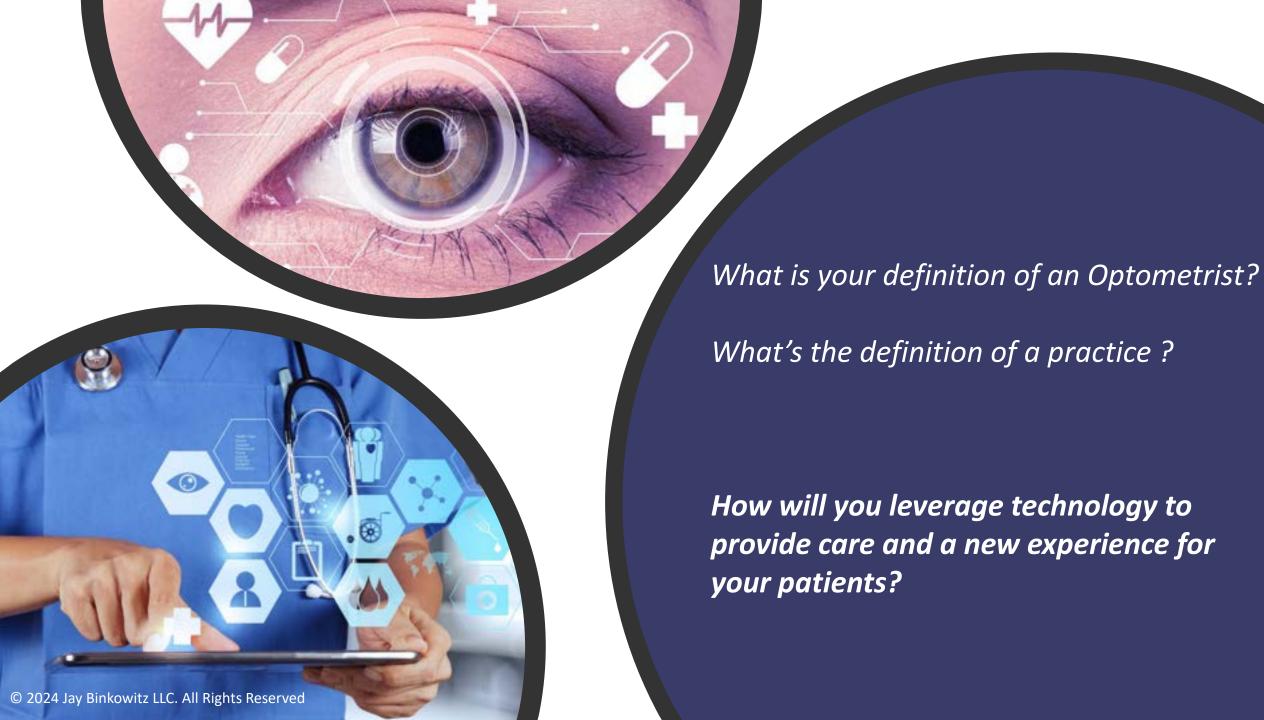
2020 – 16,042

2030 - 5,600,000

2030 – 16,518

1,400,000 476

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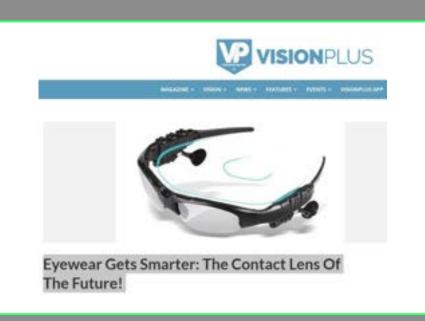


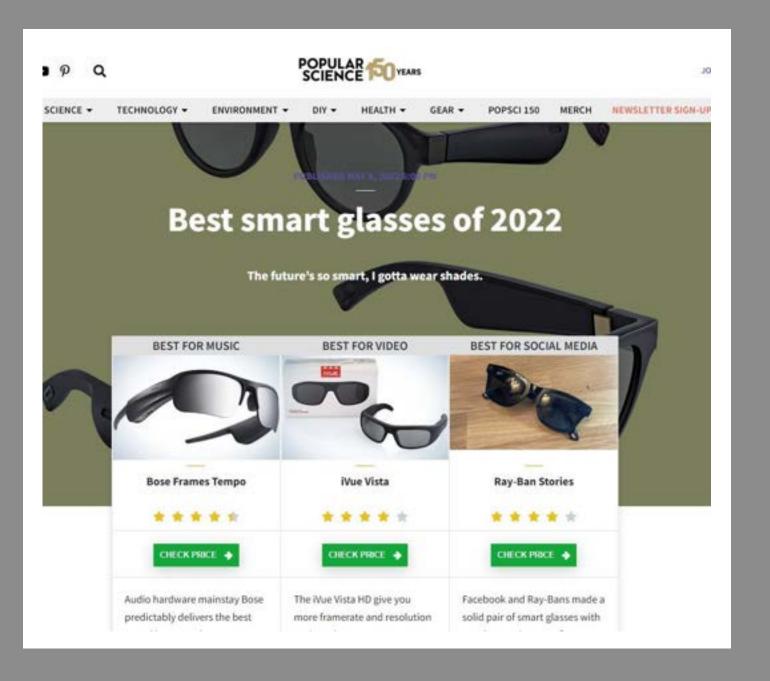
Bone conduction headphones rest directly on the listener's cheekbones.

The eardrum doesn't vibrate to pass the information along.

Instead, the vibrations from the bone conduction bee-lines for the cochlea.









Introducing the world's first smart eyewear powered with ChatGPT

Speak any query to ChatGPT handsfree and hear the response through your glasses.

Is It Time To Optimize Your Website For Smart Glasses? September 29st, 2021 - Design, Technology, Video, Web





Bose Frames Tempo





Interactive Eyewear

Google

RayBan

Computer, Android, Mac, Smart Glasses?



Macular Degeneration Electronic glasses are a recent development in low vision devices

for macular degeneration and are not available in traditional

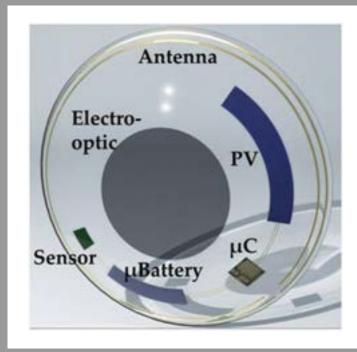


Distance Vision Correction

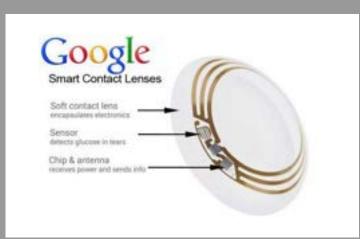


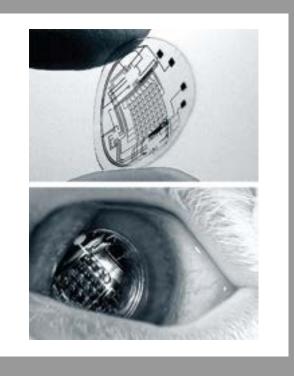


How will this change the way we design our offices?









AUGMENTED REALITY CONTACT LENSES

A new generation of contact lenses built with very small circuits and LEDs promises **bionic eyesight**

Lee Majors - The Six Million Dollar Man

THE FUTURE - JULY 4, SAL

Huge milestone as human subject wears augmente reality contact lens for first time

SMART CONTACT LENSES

Mojo Lens' revolutionary design uses a tiny microLED display the size of a grain of sand

smart sensors powered <u>by solid-state</u>

<u>batteries built into a scleral lens</u> that also corrects your vision.



Smart Contact Lenses

- Make a speech, the words scroll in front of your eyes
- You're a musician with your lyrics, or your chords, in front of your eyes.
- You're an athlete and you have your biometrics and your distance



What is Specialty Care?

What will you need to compete?

Patient demand and your passion will redefine this

Practice Differentiator Low Vision Devices







Your Techs are the Teachers



Practice Differentiator

Are You Suffering From Post-Concussion Symptoms?

Up to 90 percent of people experience post-concussion symptoms for many years... until they receive effective treatment from a neuro-optometrist.

TournalListantial_state_applications (PTVO) is a resolution that as a concussion of transfer and occurs to the state of the applications of transfer and occurs to the state of the applications of transfer and occurs of the applications of the applications of transfer and occurs when the concentral and persphered around systems and occurs when the concentral to the applications are applicated by a disconnect Determined the applications of transfer and occurs when the concentral and the brain become damaged.

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Practice Differentiator



Published June 15, 2020

Bring Concussion Care Into Your Practice

Adapt to the problems these patients present during treatment, and be an advocate for preventative measures.

By Maria Richman, OD

Millions of Americans suffer from a traumatic brain injury (TBI) each year, with nearly 75 percent of all those with TBI suffering from some form of visual dysfunction. Patients may come into the primary care optometrist's office complaining about double vision, blurred vision, closing one eye, dizziness, headaches, sensitivity to lights, bumping into things and/or poor coordination.

Specialty Lenses {\$?}



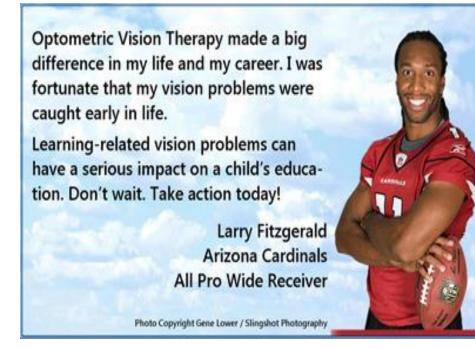
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Practice Differentiator











Nutrition







or the Years 200.

/tamin A



programmer in the standard







participations in these





preferred core in stool











TRIPLE CAROTENOID FORMULA

Macablealth is the only assistional vision supplement containing all three macular carotesoide: Luteia, Meso-Zeaxanthin and Zeaxanthin in the same 10:10:2 ratio that mokes upmocular pigment.

CLINICALLY PROVEN TO

RESTORE MACULAR PIGMENT

MacuHealth is specially formulated

and clinically proven to rebuild and

movimize movular pigment over a

lifetime, resulting in enhanced visual

performance and sid in the trustment

and prevention of age-related mocular

degeneration.



PATENTED WITH MICRO-MICELLE TECHNOLOGY

Micro-MicelleTM Technology is a new patented process that is clinically proven to increase carotemoid concentrations at the target tissue and deliver the highest level of biosynilability studied to date.



SUPPORTED BY LEVEL-1 SCIENTIFIC EVIDENCE

With over 35 peer reviewed publications that demonstrate the formula's efficacy, bioavailability and safety, Macuflushth is at the forefront of natritional vision supplements for eye health.



















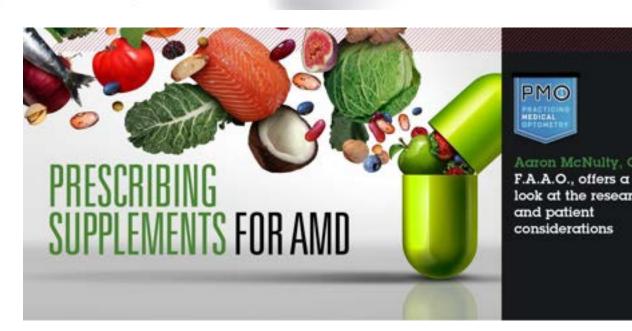






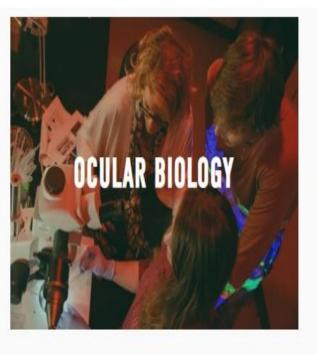


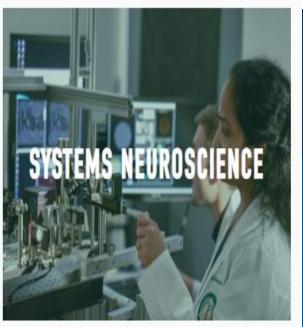


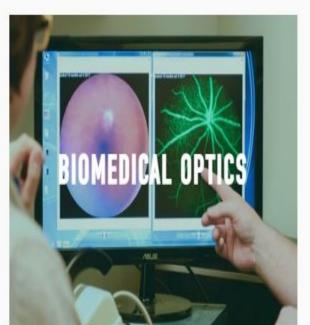












ATIENT-BASED RESEARCH





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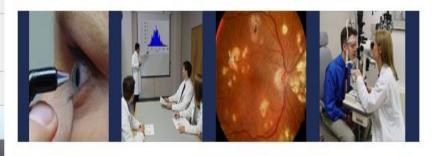
Patient Education

Research

More Health Care

Optometry Research and Development

Research is a vital component of the VHA Optometry Service. Through funded research grants that are provided by VA Research Service, the National Eye Institute of the National Institute of Health, and private sources, many VA optometrists actively participate in low vision rehabilitation as well as basic research and multi-center clinical trials. The results of these research projects have resulted in improved ocular disease prevention and low vision rehabilitation outcomes for the rapidly increasing number of significantly visually impaired and legally blind Veterans. Age-related macular degeneration, glaucoma, diabetic retinopathy and cataracts continue to be leading causes of preventable blindness in the United States.



Research can have many forms, functions and purposes within the VHA Optometry Service.

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Ophthalmology

MDs won't have enough time

Partner, Hire, Contract or Refer to OD's

Your own practice within a practice



Glaucoma + Dry Eye = Total Practice



• Glaucoma Suspect

	Billing Code	Freq of Testing		
		1x/yr	2x / yr	
Comprehensive Exam	92014	132		
Refraction	92015	20		
Fundus Images	92250	41		
Gonioscopy	92020	29		
Pachymetry	76514	12		
OCT RNFL	92133		39	
OCT GCC	92133		39	
VF	92083		66	
UBM	76513	82		
VEP	95930	71		
ERG	92273	137		
Column Total		524	144	
		x1	x2	
		\$524	\$288	\$812

Note: ERG diagnosis is only Glaucomatous Atrophy of optic nerve

Dry eye

Exam	\$140
3 level 3 visits	\$240
Meibography or Oculus exam	\$95
Products, masks, tears -	\$150
	\$622

Specialty

Lipiflow	\$600-\$1200
iLux	\$650+
TempSure	\$1200
IPL	\$1500
Slit lamp photos	\$30

Glaucoma

New Medicare exam	\$140
Med photos 1/yr	\$40
OCT 1/yr	\$40
Gonio and or ant seg	\$15
Pach 1/lifetime	\$20
3 IOP/level 3 visits	\$240
VF	\$45
VEP/ERG	\$150
	\$690

Dry eye is variable due to what services outside of insurance might be performed like Tear Care at \$600 per Tx, or IPL at \$1600 for 4 treatments... plus covered office visits of 99212 AMD would be annual 92014 and OCT 92134, and two more visits each of 99213 and 92134, plus sell them supplements maki g \$40 per bottle X 4.... so worth about \$600 per year.

Glaucoma, seeing 2-3 X per year, depending on stability of case...

Visit one: Yearly CEE <u>92014</u> with <u>92250</u> ~ \$200

Follow up in 4 months exam 99213, VF 920183 and OCT 92133 ~ \$200

Follow up on 4 Months for IOP 99213 ~ \$130

\$600 to \$1600

\$600

\$530



TECH suite







Lounge Chair + Nespresso + IPL and your all set

Glaucoma ~ Dry Eye Concierge Practice

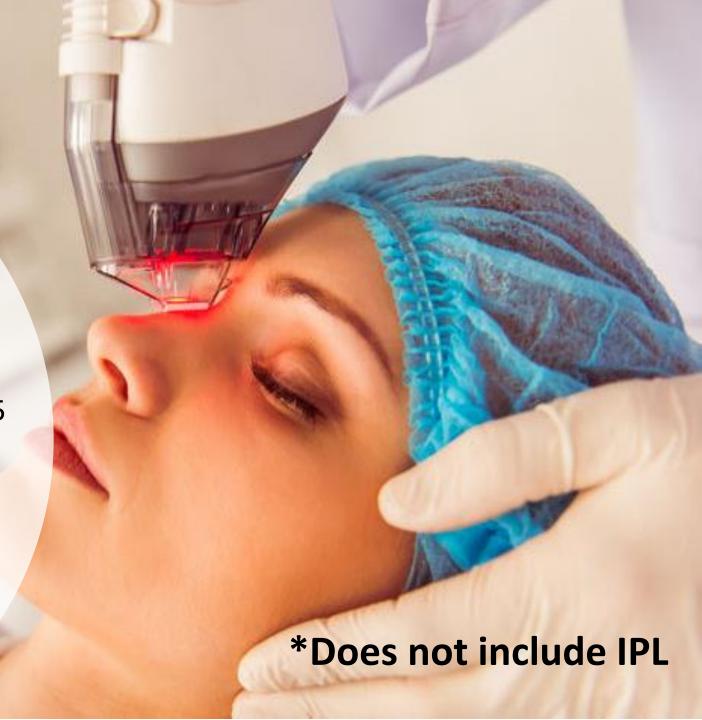
3 days p/week @ 15 patients' p/day = 45

45 x **42 weeks** = 1,890 interactions

1,890 / 3 = 630 patients

630 x \$700 = **\$441,000***

#1 referral source = Rheumatology



Where does PPP money come from?

Private Pay Patients



Concierge Patients = \$200 per year 630 patients per year = \$126,000



Glaucoma

+ Dry Eye

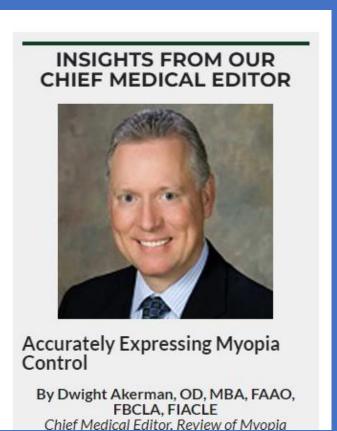
+ Scleral Lenses

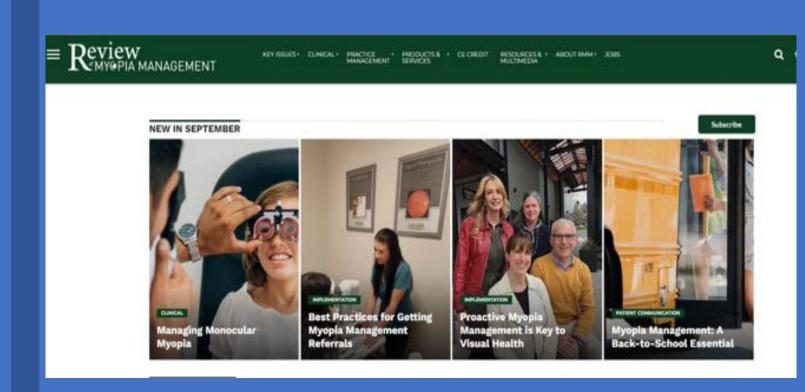
+ Nutraceuticals

+ Adult Vision Therapy















































opportunity

a set of circumstances that make it possible to do something

Your career can be anything you want it to be!



Emerging Trends
That Will
Transform Eyecare

Jay Binkowitz
Jay@AskJayB.com