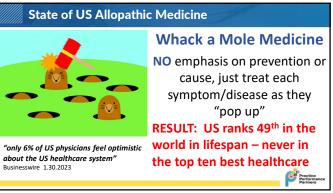


Summary of where most of us are headed without change in our diet and lifestyle

> Practice Performar Partners

> > 4



3

Practice Performan Partners

Practice Perform Partner



Allopathic Medicine Report Card on Disease Prevention



5

Is there hope at all???

Jones MD, Healio News: 11.20.23

- ✓ NEW (?) terms Complimentary, alternative, functional, lifestyle, integrative, Ayurveda, Qigong, Reiki, Asian, whole-person...call it what you want but 72% of patients surveyed felt offering this kind of care was "extremely important"
- Call to direct healthcare money to "salutogenesis" (better health through risk reduction and resultant disease prevention) not pathogenesis ("disease treatment")
- Estimated result? Redirection of health care dollars with eventual staggering reduction in health care expenditures on chronic disease and potential bankruptcy in the pharm industry (oh how sad...)

Practice Performance Partners

7



Remember this statement - "There is little money in a cure"? THAT WAS FALSE!!!

2021: Bluebird's Gene Therapy Skysona for Brain Disease Receives Accelerated Approval

- Stops fatal cerebral adrenoleukodystrophy at least for 7 years studied
- FORTY cases worldwide per year
 Cost? \$3,000,000 for a single dose (takes TWO)
- But we can't fix our most common diseases –

hypertension, diabetes, cancer, arthritis, dementia

6

Is there hope at all???

Jones MD, Healio News: 11.20.23

BUT... The current/future?

- We know pills and procedures remain the mainstays of health care and probably always will as long as money is to be made"
- ⊗ Less than 40% of physicians surveyed felt there was any evidence to support whole-person care

Practice Performs Partners

What Can Optometry Do?

Is it time we step out as a REAL primary health care specialty and start becoming knowledgeable of lifestyle implications on systemic and ocular health and discussing those with our patients?

Does a Nutrition or Lifestyle counseling subspecialty have a place in your practice?

> Practice Performance Partners

> > 10

12

What Can YOU Do?

EDUCATE YOURSELF

OK...the specifics

(literally)

✓ Stop believing everything allopathic medicine and the

"Garbage In Garbage Out" applies to what you ingest

pharmaceutical industry cram down your throat

Understand that like computer programming,

9

I Have To Exercise? MOVE IT OR LOSE IT. You don't have to do nothin....but **BUT PROVEN OVER AND** Meeting physical activity guidelines **OVER....EXERCISE WILL** NOT MAKE YOU LOSE halves mortality risk •21% lower risk for mortality with 10 to 149 minutes of weekly MVPA activity; •41% lower risk for mortality with 150 to 300 ANY SUBSTANTIAL WEIGHT. **BUT IT'S STILL GOOD FOR** minutes of weekly MVPA activity; (that's only 20 minutes a day – MVPA is "moderate to vigorous physical YOU! activity) •50% lower risk for mortality with 301 to 600 **"RUST NEVER SLEEPS"** minutes of weekly MVPA activity (that's 45 minutes a day) Neil Youn Practice Performance Partners sm.bmj.com/content/early/2023/04/18/bjsports-2022-106644

	EVERYONE can eat better
~	 NUMERO UNO - LAY OFF ALL CARBS ✓ Use unprocessed sugar, natural or maybe novel sweeteners. In a pinch, regular white sugar beats the fake ones! ✓ NO processed food
\checkmark	Go organic as much as possible
\checkmark	Grow and raise your own food
\checkmark	Eat free-range meat and chicken
	Avoid most overseas farm-raised fish (but an interesting new twist with northern US fish farms)
√ a	Avoid processed foods, avoid "fat-free", avoid food additives
-	Fractice Performance

Practice Perform Partners

Avoid Toxins!

- Avoid unnecessary medications as much as possible (many if not most are unnecessary – your body is really smart!)
- ✓ Avoid MSG (food), carrageenan (food), pesticides, herbicides, fluoride, biphenyls (plastics), formaldehyde (if possible)
- ✓ STAY AWAY FROM ANYTHING FAKE INSIDE OR OUTSIDE YOUR BODY
- ✓ Drink GOOD water...lots of it
 - ✓ Distilled best, but...
 - Whole house water filters
 - Cool it on the hot water

Practice Performance Partners

13

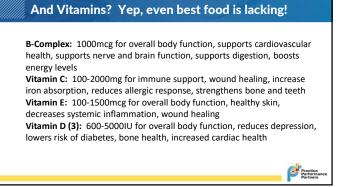
What Did They Tell My Dad?				
He's 97 – took him in for his physical and their only concern was his blood was too thin. ADVICE?	SIDE EFFECTS PLAVIX Anaphylaxis Bruising Skin rash Nosebleeds Blood in urine	SIDE EFFECTS OMEGAS Thins blood Reflux (only cheap stuff)		
"Keep up the Plavix but stop taking that fish oil!	Itching Diarrhea Muscle pain Confusion BLOOD CLOTS			

15



Omega-3: 1000mg preventative, 2000mg-4000mg for disease management Collagen: 500-2000mg for bone and joint support Ashwagandha: 1500mg for overall adaptive metabolism Mushroom complex: For overall adaptive metabolism Garlic: 2000-5000mg for overall health and heart support Astaxanthin: 10-40mg for immune support CoQ10: 100-1200mg for heart and brain support (essential if taking statins) Curcumin: 500-1000mg for heart support and regulation of blood sugar Magnesium Complex: 200-800mg for overall body and GI support

14



Managing Hypertension

Choice One: Pills

- Decreased libido
- Impotence
- Fatigue
- Muscle necrosis
- Dizziness / disorientation
- Angioedema • Esophogitis General malaise

· Memory loss

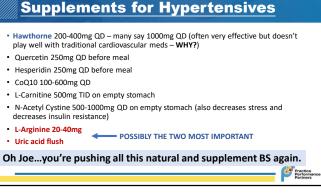
• Liver failure

- Depression
- did I mention impotence???

Choice Two: Side effects of losing weight, eating right, avoiding poisons, de-stressing, supplements? **INCONVENIENCE, MAY COST MORE THAN A PILL**

Practice Performan Partners

17





Am I?

DASH – Dietary Approach to Stop Hypertension

https://www.heart.org/en/health-topics/high-

manage-high-blood-pressure/managing-bloodpressure-with-a-heart-healthy-diet

Once again...pushing pills is

tackling the lifestyle issues

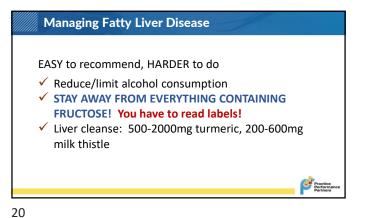
Practice Performa Partners

just way easier than

blood-pressure/changes-you-can-make-to-

- 5-10 servings vegetables a day (organic)
- · Limit diary products
- Limit sodium intake to 2100mg/day
- Take 2,000-4,000gm omega-3
- Avoid MSG
- Avoid synthetic sugars • Avoid simple (processed) carbohydrates
- Drink purified water
- Resistance exercise (better than aerobics)

This is from the AMA – not Joe the OD!



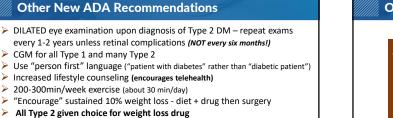
Treatment of Alzheimer's

A bit tougher...remember we know less about this disease than most

- ✓ DON'T HIT YOUR HEAD
- **Avoid ALL fructose**
- Keep your brain active \checkmark
- ✓ In general, be healthy

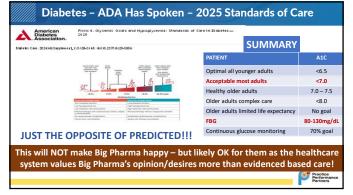






- Encourage 500cal deficit from current consumption "without > consideration of macronutrient content"





22

24



 \triangleright

 \triangleright

Practice Performs Partners

Diabetes					
Diabetes		How Much?			
✓ LOSE WEIGHT – HO	NIH massive retrospective study confirmed 7-10% weight loss can				
HAVE TO DO IT	decrease DM risks by 51-60%. NORMALIZING WEIGHT EVEN FAR				
SIGNIFICANTLY reduced	SIGNIFICANTLY reduce all sugar				
and carbohydrate intake					
✓ 100% avoidance of synthetic ^{EFFICACY} ROUTINE EXERCISE ON BLOOD SUGAR CONTROL 58%					
sugars of all types	EFFICACY	DF METFORMIN SAYS THE NIH!			
✓ Resistance exercise	bi.nlm.nih.gov/articles/PMC1120973/#:":text=The%20results%20showed song.among%20people%20who%20take%20metformin).				
🗸 Add fiber to diet					
 Ordered sleep 	IT IS NOT EASY -	BUT REMEMBER DIABETES IS			
THE SECOND MOST PREVENTABLE CAUSE OF					
HUMAN DEATH – SECOND ONLY TO SMOKING!					

Supplements for Diabetes DHA 3000mg QD (less EPA – EPA can lessen body's ability to regulate glucose) Chromium 200mg QD (Mayo clinic study showed equivalent to metformin – so is berberine. But don't abandon your metformin so quickly...why later!) Magnesium citrate 250mg QD

26

 The Tough One....OBESITY - ARE YOU???

 Discrete Area and a construction of the property of the complications of the property of the complications or >40kg/m²

 Discrete Area and a constructions of your of the property of the complications or your of the property of the complications or your of the property of the pro

Just inJanuary 2025	
Previous measurements of obesity flawed ("BMI totally discordant")	
 The NEW, RECOMMENDED assessment is based on measuring body FAT Indirect (flawed but still included) - BMI Indirect (EASY) - waist-to-hip ratio Males > 0.9 Females > 0.85 Direct (DIFFICULT but most accurate!) - DXA scan 3D body scanner, hydrostatic weighing, air displacement, bioimpedance spectroscopy, skin calipers FUNCTION - obesity-related organ dysfunction or inability to complete activities of daily living 	Must have two of the three criteria IN ADDITION TO ABNORMAL BMI to be classified as obese Rubino etal Lancet Diabetes Endocrinol 2025
28	

IS IT REALLY THAT HARD?

What's the Best Way to Decide if You're Overweight?

- Get naked look in the mirror. Like what you see?
- Do you get compliments on your appearance?
- · How's your sex life?

• Can you exercise *hard* for thirty minutes and not feel like you are very close to meeting your maker?

- Does it hurt to bend over and put your shoes on?
- · Can you just not wait to get out of those jeans and into your "stretchy pants"? Practice Performante Partners

29

Treatment of Obesity. Problem?

Traditional Allopathic Medicine Game Plan (aka Big Pharma, FDA,

for weight loss

free foods

AMA)

2.



Practice Performan Partners

Practice Perform Partner

30

So, the big one....Managing OBESITY

Let's repeat them again...

- NUMERO UNO LAY OFF ALL CARBS
- Use unprocessed sugar, natural or maybe novel sweeteners. In a pinch, regular white sugar beats the fake ones!
- NO processed food
- Go organic as much as possible
- Eat free-range meat and chicken
- Avoid processed foods, avoid "fat-free", avoid food additives

Mindfulness, yoga 'as strong as drug therapy' plus lifestyle intervention in DM2

Mind - and body-based practices, including mindfulness-based stress reduction, qigong and yoga, are associated with a reduction in HbAtc for adults with type 2 diabetes, according to findings from a systematic review and meta-analysis

Supplements for Obesity All dosages per day

- ✓ Green tea
- Chromium: 200-1000mgm
- CLA (conjugated linoleic acid): 2-6gm
- Carnitine: 500-1000mg
- DHEA derivatives: 50-100mg
- Fish oil: 100-2000mg DHA
- * All show variable efficacy in managing weight

And diets?

Practice Perform Partner

General Comments (truths)

- ✓ All calories are not equal simply eating less will not lead to sustained weight loss
- Calorie counting is somewhat meaningless
- ✓ Diet alone is not likely to result in sustained weight loss (can you diet forever?)
- REAL dieting is hard bad food is addictive. It's like quitting smoking!
- ✓ Don't focus on BMI, waist circumference, ratios and other gobblygook....focus on how you LOOK and FEEL

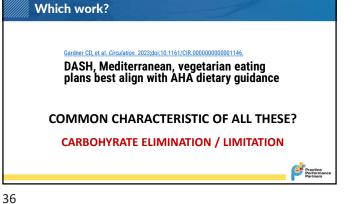
Practice Performa Partners

Practice Performan Partners

And the others – that can work.....

- DASH: Emphasizes vegetables, fruits, whole grains, legumes, nuts and seeds and low-fat dairy, and includes lean meats and poultry, fish and non-tropical oils
 Mediterranean: Limits dairy consumption, emphasizes fruits, vegetables, whole grains, legumes, nuts and seeds, plus fatty fish and extra-virgin olive oil
 Vegetatian (pescatarian): Plant-based eating that includes fish
- Vegetarian (pescatarian): Plant-based eating that includes fish
 Vegetarian (ovo or lacto): Vegetarian, or plant-based plans that include eggs, dairy or both
 Vegetarian (ovo or lacto): Plant based plans that
- Vegetarian (vegan): Plant-based plan that includes no animal products
 Paleo: Excludes whole and refined grains, legumes, oils and dairy
 Ketogenic: Limits carbohydrates to less than 10% of daily calories

NOTE: Many consider these as lifestyle options, not just diets.



Diets That DON'T Work

Ş

9

34

foods

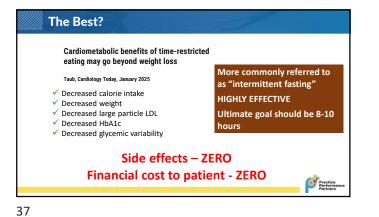
"Low fat" diets

A million other "fad" undertakings

Diets that focus on simply minimizing portions

Diets that do not SIGNIFICANTLY limit saccarides

Diets that focus on pre-prepared, mostly processed



More Extreme

As a final option

- ✓ Weight reduction drugs
- Bariatric surgery

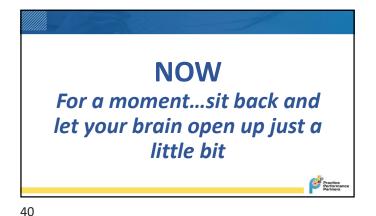
MUST REMEMBER!

These are not cures for obesity. Unless you change your dietary habits and lifestyle, these more aggressive options will ultimately fail – usually in a fairly short timeline.

38

Oh, but Joe – all that is inconvenient and expensive...

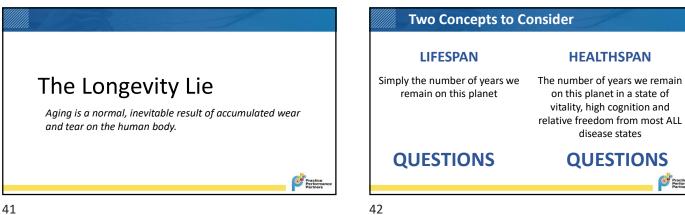
So is hypertension, diabetes, obesity, neurologic disease, cancer and a funeral.....most of us fortunately get to choose



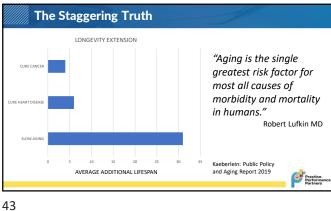
39

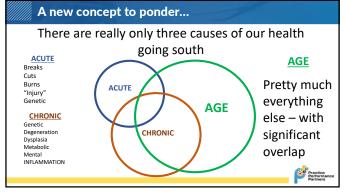
Practice Performa Partners

Practice









Practice Perform Partner

Should we all start re-thinking

Aging is a universal condition for most all people and the underlying cause of the VAST MAJORITY of our ultimate demise – whether it be from "natural causes" (*dying is natural?*) or the fact that aging is the main culprit behind most all chronic disease.

So isn't aging the MASTER DISEASE?

And, if so, why do we not research the cause of aging and develop remedies for the most common of all things that goes wrong with our body?

> Practice Performance Partners

> > 46

Rational thought?

accepted as "THE WAY IT IS"

Since aging affects essentially everyone - unless you die young

(define "young") or by "natural causes" (dying is natural?) aging is just

So, wrinkles, grey hair, arthritis, cardiovascular compromise, incontinence, hearing loss, cataracts, weakness, loss of libido,

memory loss, aches and pains, organ failure, dementia and having

to get up to pee three times a night are just normal...they are ALL "just the way it is" and we should just accept

that and go on?

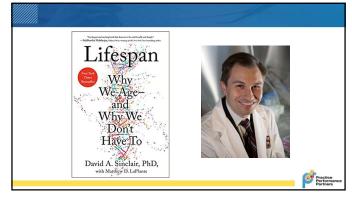
45

So aging is just normal....

Many beg to disagree!

These are not deranged, renegade, conspiracy theorist whackos trying to play God. These are world renowned scientists at MIT, Harvard Medical School, Salk Institute, Albert Einstein School of Medicine, UCLA Medical School, London College of Medicine...just to name a few...who simply believe aging is a disease, with an identifiable cause which therefore can be altered.

One of the Head Whackos is David Sinclair, PHD and Chairman of the Genetics Department at Harvard Medical School. If you want your brain blown away completely, read his book "Lifespan".



Landmark Study

Danish Twin Study (1996)

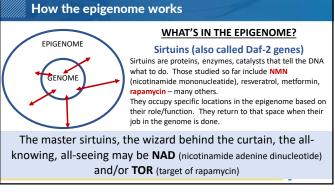
How long a person lives is 20% determined by genetics and 80% determined by lifestyle

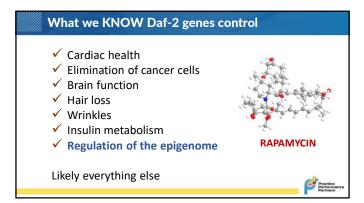
Yet almost thirty years later the world's healthcare system generally ignores lifestyle with a system focused on pathogenesis (treating disease) instead of system focused on preventing disease (salutogenesis)

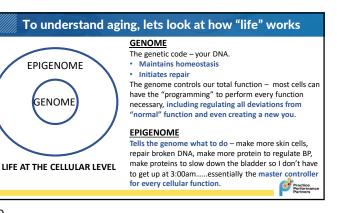
Herskind AM, McGue M, Holm NV, Sorensen TIA, Harvlad B, Vaupel JW. The heritability of human longevity: a population-based study of 2,872 Danish twin pairs born 1870-1900. Hum Genet. 1996;96:319-323. [DO] [PubMed] [Google Scholar].

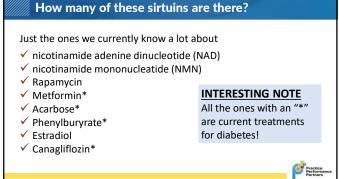
> Practice Performance Partners

49











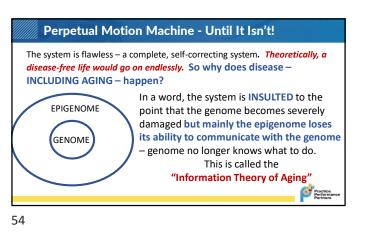
What Goes Wrong

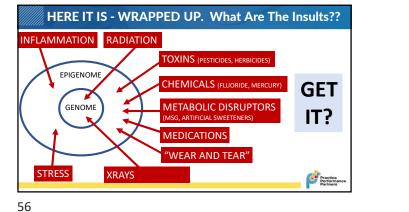
Genes function according to a theory called **ANTAGONISTIC PLEIOTROPHY**. Each gene has two functions – **one to build up and one to tear down**. With age and damage, despite the instructions from NAD or TOR, the genes turn to hyperfunctioning scavengers (focus on tear down).

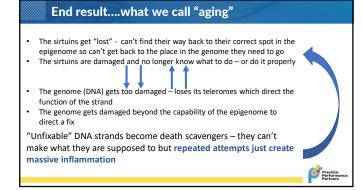
So what damages these sirtuins?











So how do stop damaging the perfect machine?

STEP ONE - Avoid the Insults Refer back to the previous presentation content

STEP TWO – Supplement the Epigenome NAD (nicatinamide dinucleotide) NMN (nicatinamide mononucleotide – natural B-vitamin) Resveratrol (Chinese lacquer tree) FYI – studies underway Metformin (French lilac) showing NMN to effectively Rapamycin (actinobacterium) **REVERSE** end-stage And MANY others - STACS, DAFs glaucoma in mice Practice Perform Partner

58

The "Blue Zones"

- Areas identified with exceptionally long lifespan AND healthspan
- Areas boast centenarian percentages 25-30% higher than other areas of the world
- Currently include Sardinia, Nuoro Province, Nicoya Peninsula, Ikaria, Okinawa, Loma Linda, and Costa Rica

NINE CHARACTERISTICS OF BLUE ZONE LIFESTYLE

- 1. Move naturally, and a lot
- 2. Know your sense of purpose
- 3. Stress-shedding routines 4. 80% full rule
- 6. Wine frequently with moderation 7. Belong – typically faith-based 8. Loved ones come first
- 5. Plant focused diet including limited focused on healthy lifestyles
- meat and almost no sugar
- 9. Right tribe / social networking all
 - Practice Performa Partners



Practice

The mice studies

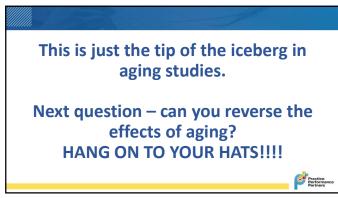
Mice have a normal lifespan of about 2 ½ years – then they succumb to almost the same things humans do. Grey hair, cataracts, wrinkles, cardiovascular decline, energy decline, loss of libido, arthritis and ultimately death

THESE MICE ARE TWINS Adjusted Human Age Treated 125 52 LIFESPAN VS HEALTHSPAN UITERATED LIFESPAN VS HEALTHSPAN LIFES

Not just one mice study.... Hundreds, if not thousands of similar studies have

been conducted or are currently underway involving earthworms, jellyfish, primates - ALL with similar results. And thousands of uncontrolled studies people are essentially conducting on themselves.

62





63