Adapting Programming in the New Landscape of Anti-Obesity Medications: Biological, Behavioral, and Business Considerations



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Professional Disclosure: Consultant, Wondr Health, Inc. IDEAL Strategy and Consulting

Personal Disclosure:
Obesity Treatment Advocate





BIOLOGICAL

BEHAVIORAL

HUMAN

LIVING WITH OBESITY

EXERCISE INTERVENTION



BEHAVIOR
CHANGE STRATEGY

FIDELITY

ADAPTATION

Living with obesity isn't easy

Treating obesity isn't easy



Person-Centered

Not

Method-Centered

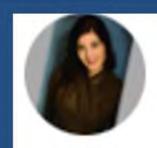
Objectives

To understand contemporary approaches for inclusion of and the effectiveness of, physical activity within the context of obesity medications.

To understand how lifestyle interventions, specifically physical activity, may need to be adapted and tailored, from the provider and the patient.

Highlight the need for building inclusive and collaborative spaces for patients/clients taking obesity medications and key considerations: method-centered >> client-centered frameworks

But First... Highlights from Part #1



Renee J. Rogers, PhD · You

Bio-behavioral healthy lifestyle strategist | Engagement + adher...

1mo • Edited • 🕲

PSA for #fitnessprofessionals regarding #antiobesity medications...



STOP: Calling anti-obesity medications, "weight loss" drugs.

STOP: Calling all anti-obesity medications, "Ozempic"

STOP: Making claims that resistance training and exercise programs will "stop lean mass and muscle mass loss"



DO: Read more (evidence) about what we do and do not know about the role of physical activity...



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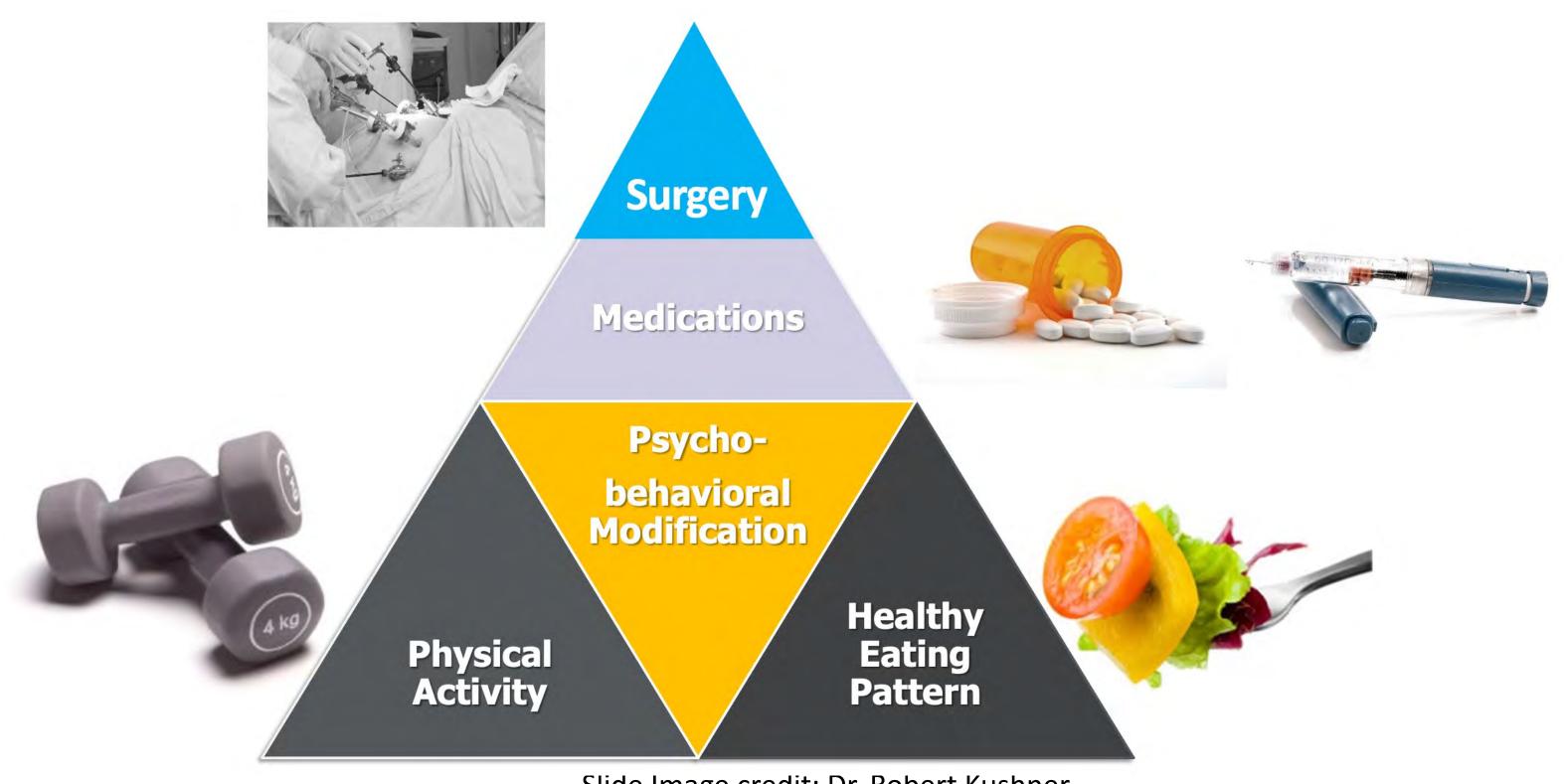
These medications are FDA approved for the treatment of obesity*

Obesity is a chronic disease

American Medical Association, 2013

These medications are not for modest weight loss

Components of an Effective Obesity Management Program



Slide Image credit: Dr. Robert Kushner

Wadden TA, et al. Med Clin North Am. 2000;84(2):441-461; Stumbo P, et al. Surg Clin North Am. 2005;85(4):703-723.



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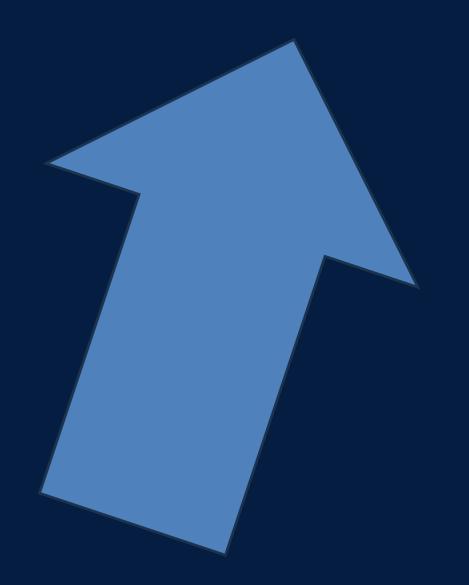
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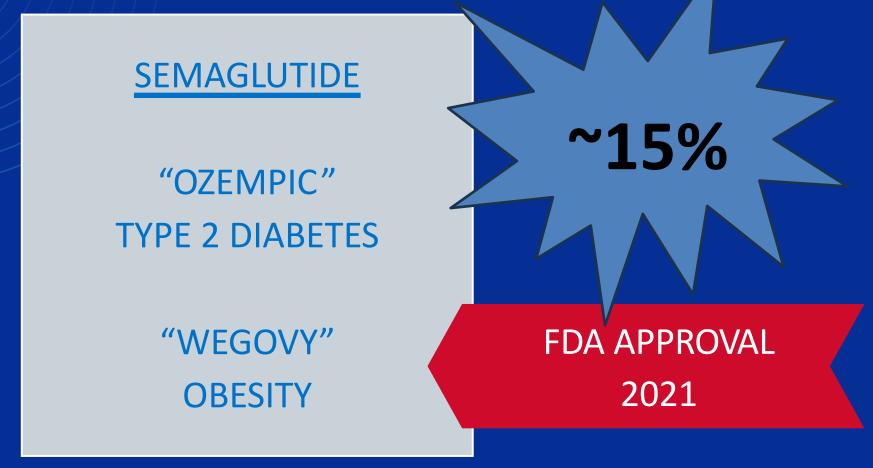


STOP: Calling all anti-obesity medications, "Ozempic"



WHAT'S IN A NAME?

- Not all "Ozempic"
 - 2nd or 3rd Generation Medications
 - Incretin-based Hormone Agonists
 - Nutrient Stimulated Hormone (NuSH) Therapies
- GLP-1 agonist receptor therapies have been around
 - Lirglutide ("Victoza/Saxenda")
 - Dulaglutide ("Trulicity")









Blundell *et al. Obes Rev* 2010;11:251–270; van Can *et al. Int J Obes* 2014;38:784–93

HungerDrive to consume

† Satiety

End state of satisfaction (between-meal inhibition)

† Fullness

Physical feeling experienced in the gut

↓ Wanting

Motivation to consume a specific food (craving)

† Satiation

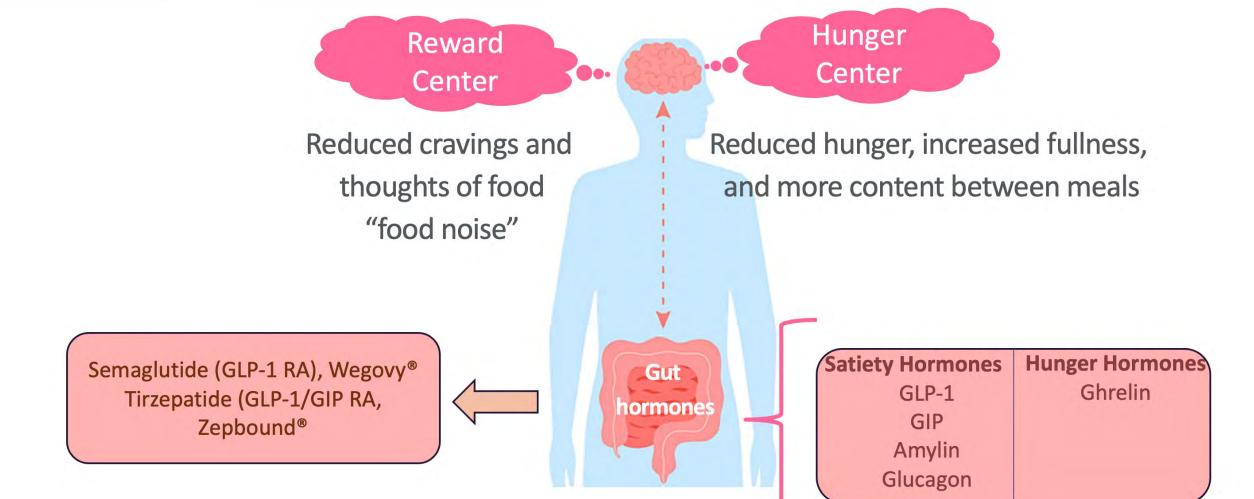
Negative feedback, leading to meal termination (within-meal inhibition)

↓Liking (hedonic)

Sensory pleasure elicited by contact with food

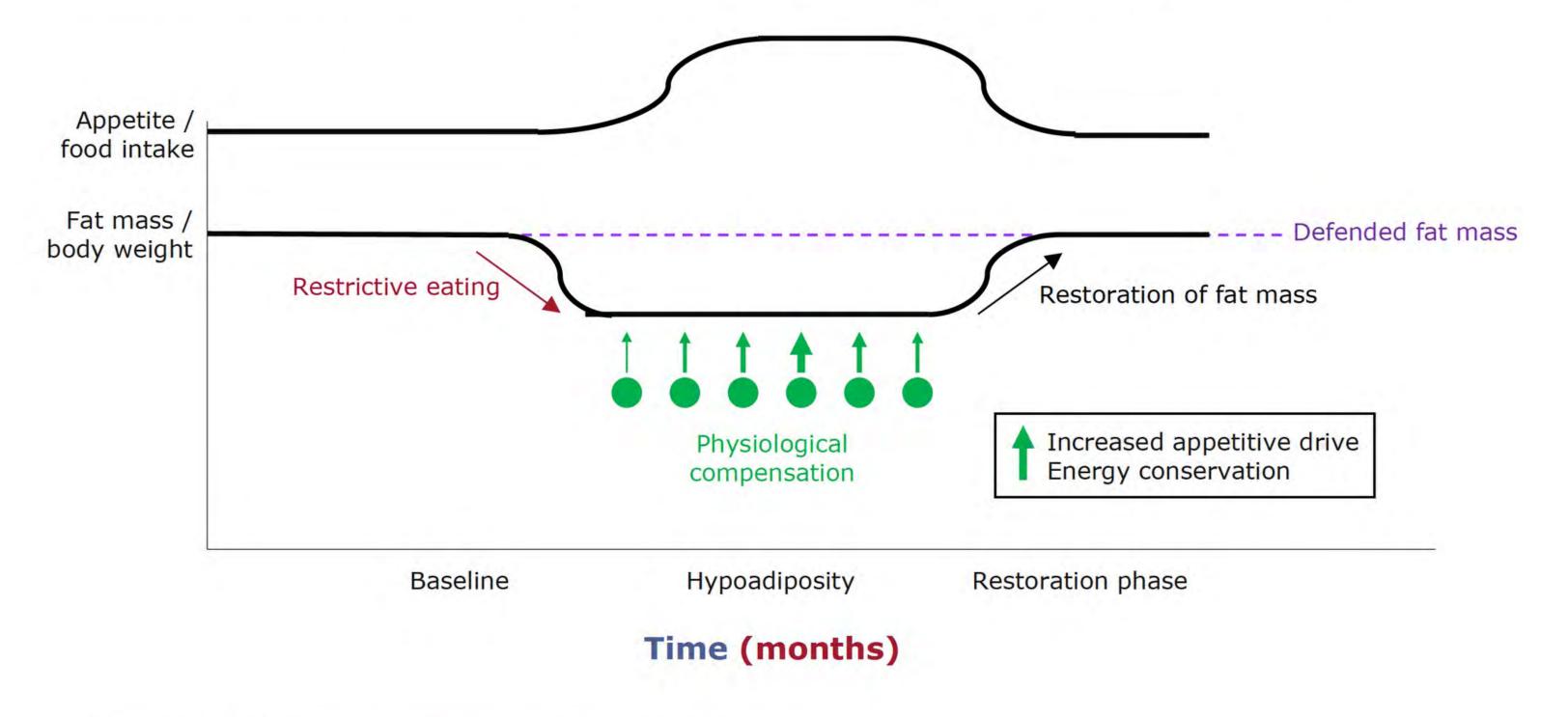
↓Prospective food consumption

How much an individual feels they would like to eat



Slide Image credit: Dr. Robert Kushner

Metabolic compensatory mechanisms - calorie reduction



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Medical Management



- Indications
- Evaluation
- Administration
- Dosing Escalation/De-Escalation
- Side Effects
- Dietary changes + increased Physical Activity

The Challenges:

On these agents, patients:

- Will lose significant weight without engaging in activity,
- Will improve many health parameters without engaging in activity, and
- May not see the value of activity specifically for weight loss.

Despite these challenges, this may open the door for new physical activity opportunities.



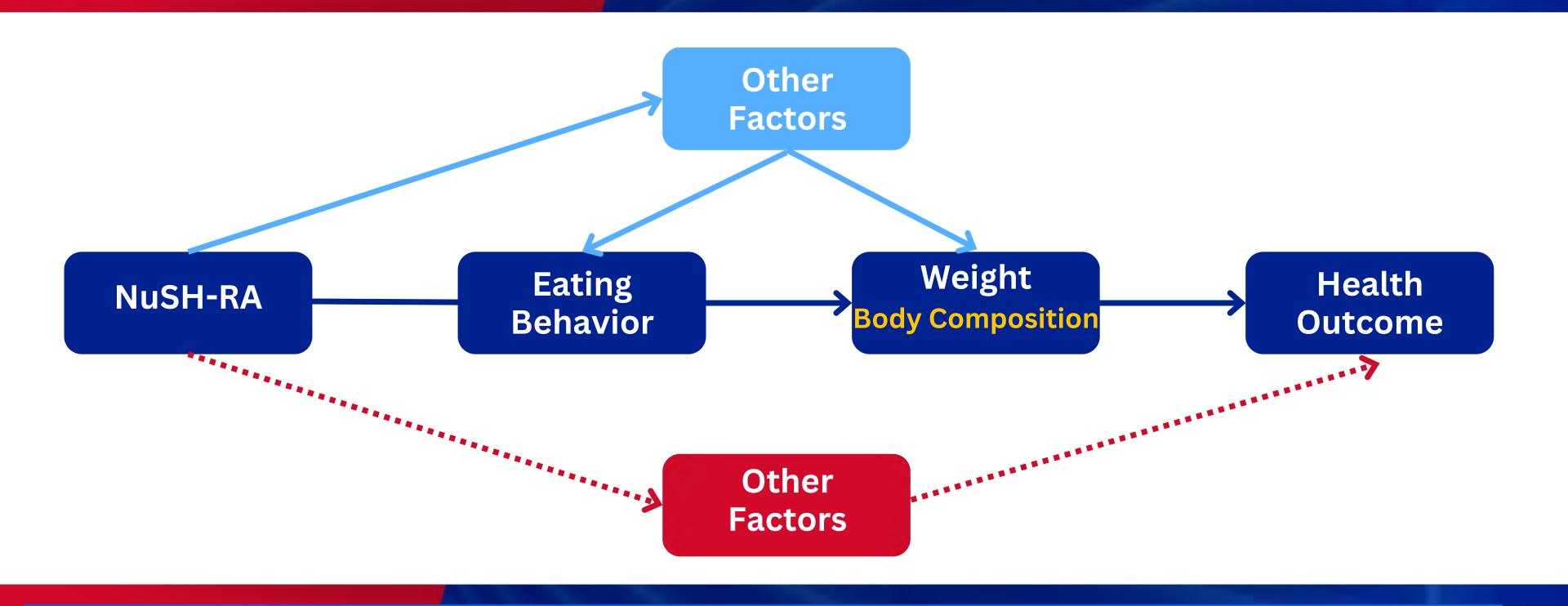


HOWEVER...



MORE RESEARCH IS NEEDED

STOP: Making claims that resistance training and exercise programs will "stop lean mass and muscle mass loss"



WHAT IS THE ROLE OF EXERCISE / PHYSICAL ACTIVITY?





PERSPECTIVE

Physical activity in the new era of antiobesity medications

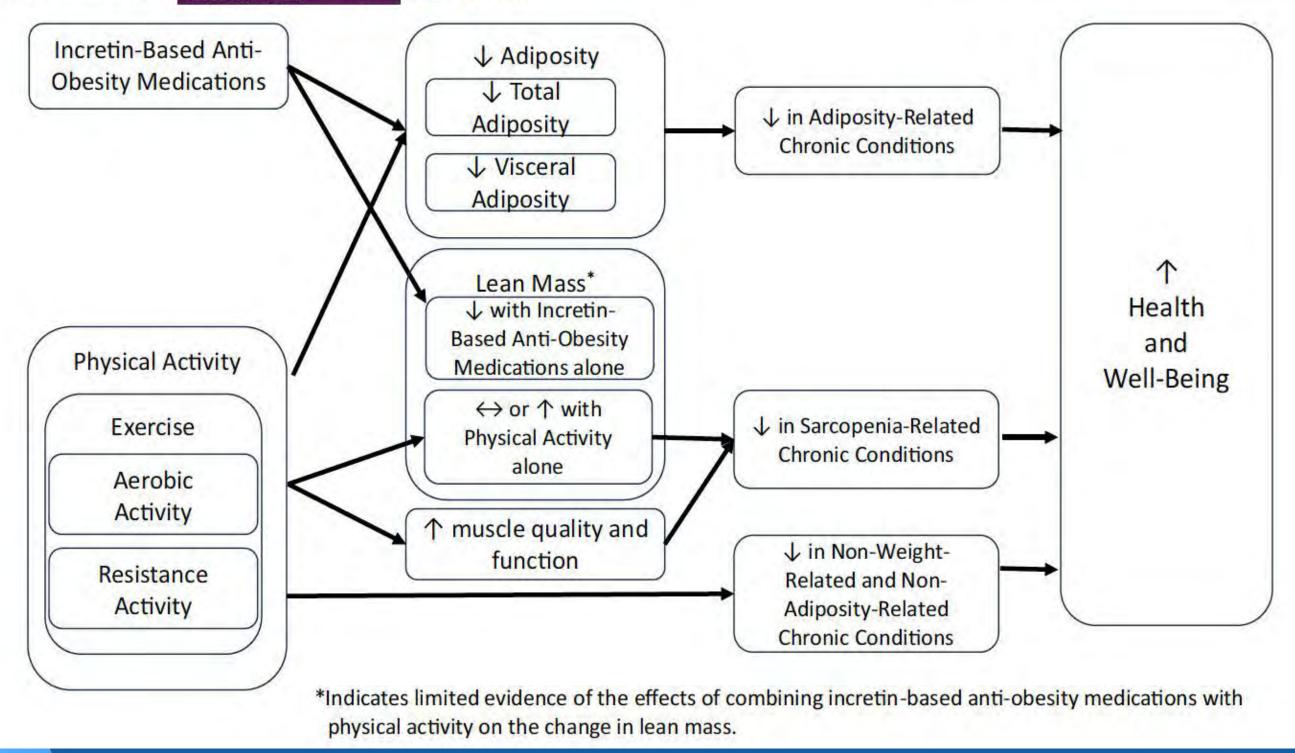
John M. Jakicic Renee J. Rogers, Timothy S. Church

First published: 17 October 2023 https://doi.org/10.1002/oby.23930









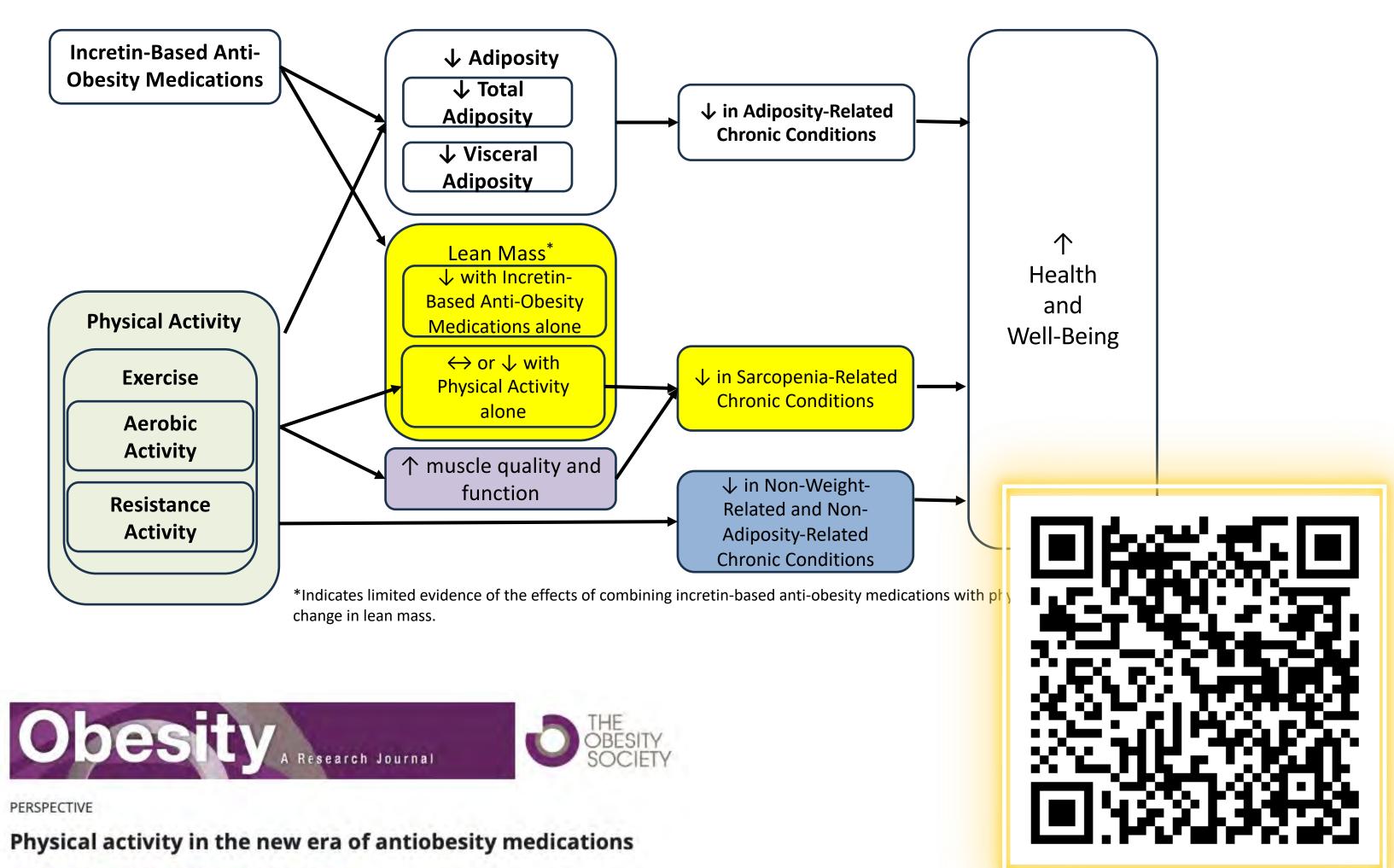
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What do we know about Contemporary AOMs?

Weight Loss	0
Better Control of Type 2 Diabetes	0
Reductions in Cardiometabolic Risk	0
Reductions in Adiposity	0
Reductions in Lean Mass ~25-40%	×
Reductions in Muscle Mass	0



Move to: Exercise for...

"Muscle Health"

"Quality of Life"

"Physical Function"

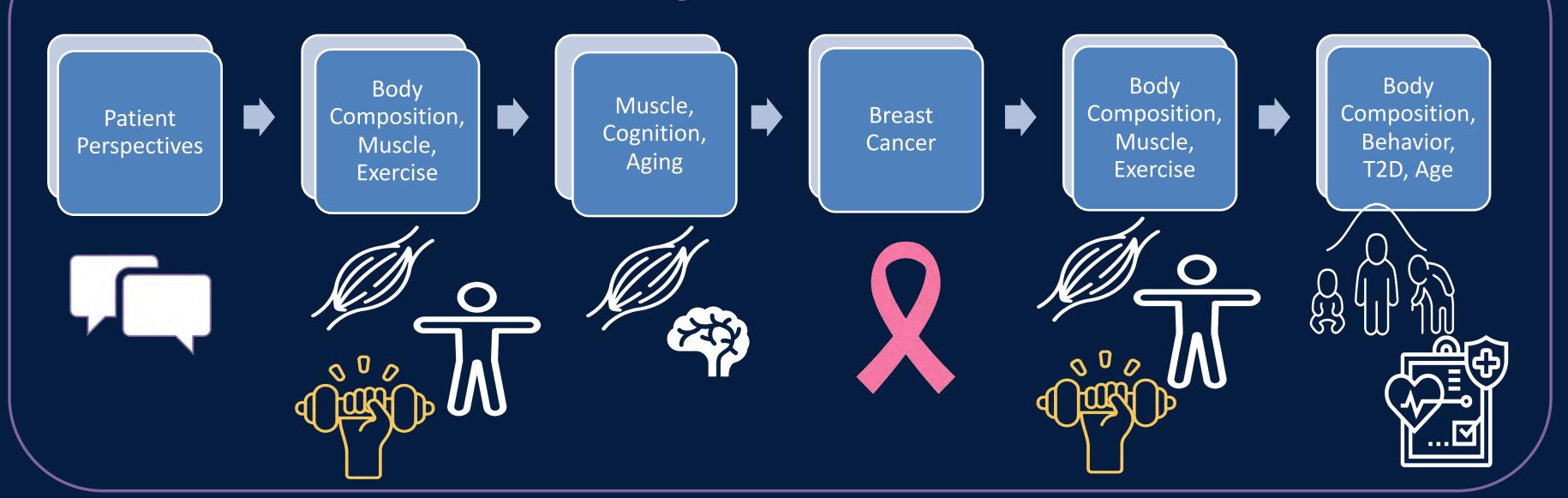






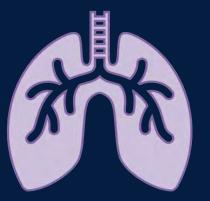


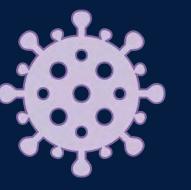
Obesity Medications

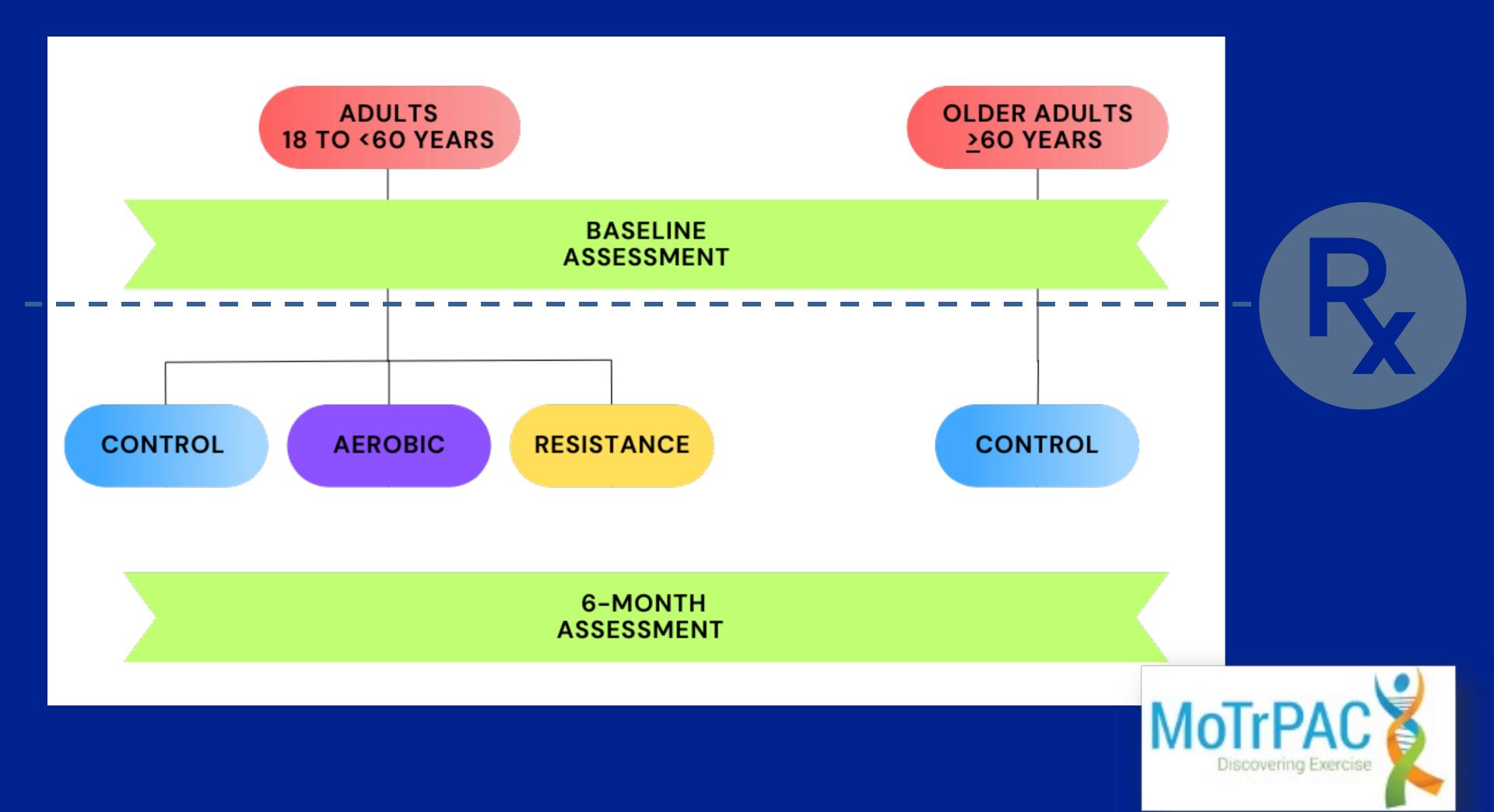












- · Body Composition
- Fitness
- Strength
- Function
- Quality of Life
- · Qualitative Interviews

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Despite these challenges, this may open the door for new physical activity opportunities.

The Opportunities:

We can now:

- Fivot from doses and intensities of physical activity for weight loss and prescribe based on improving health in patients using AOMs.
- Target physical activity for the independent health benefits not realized with weight loss alone; and
- Support patients on their holistic weight loss journey as a part of an integrated team of healthcare professionals.

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BIOLOGICAL

Approach

BEHAVIORAL

BUSINESS

Approach BIOLOGICAL

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DOSE

KNOWN:

- Pivot from **Energy Expenditure**Intensities
- Focus on the individual needs of the client/patient

LEARNING:

- Exercise Tolerance
- Relationship between escalation/de-escalation medication with exercise

UNKNOWN:

- Is it all about **Resistance Training**?
- Can you attenuate muscle mass loss?
- <u>IF</u> you can, is the dose, intensity, frequency different? Do patients achieve the same benefits?
 - Consider:
 - Hypocaloric state
 - Intake
 - Independent mechanisms of agent
 - Magnitude of Loss
- Is it really about muscle quantity or muscle quality?
- What about new agents?

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KNOWN:

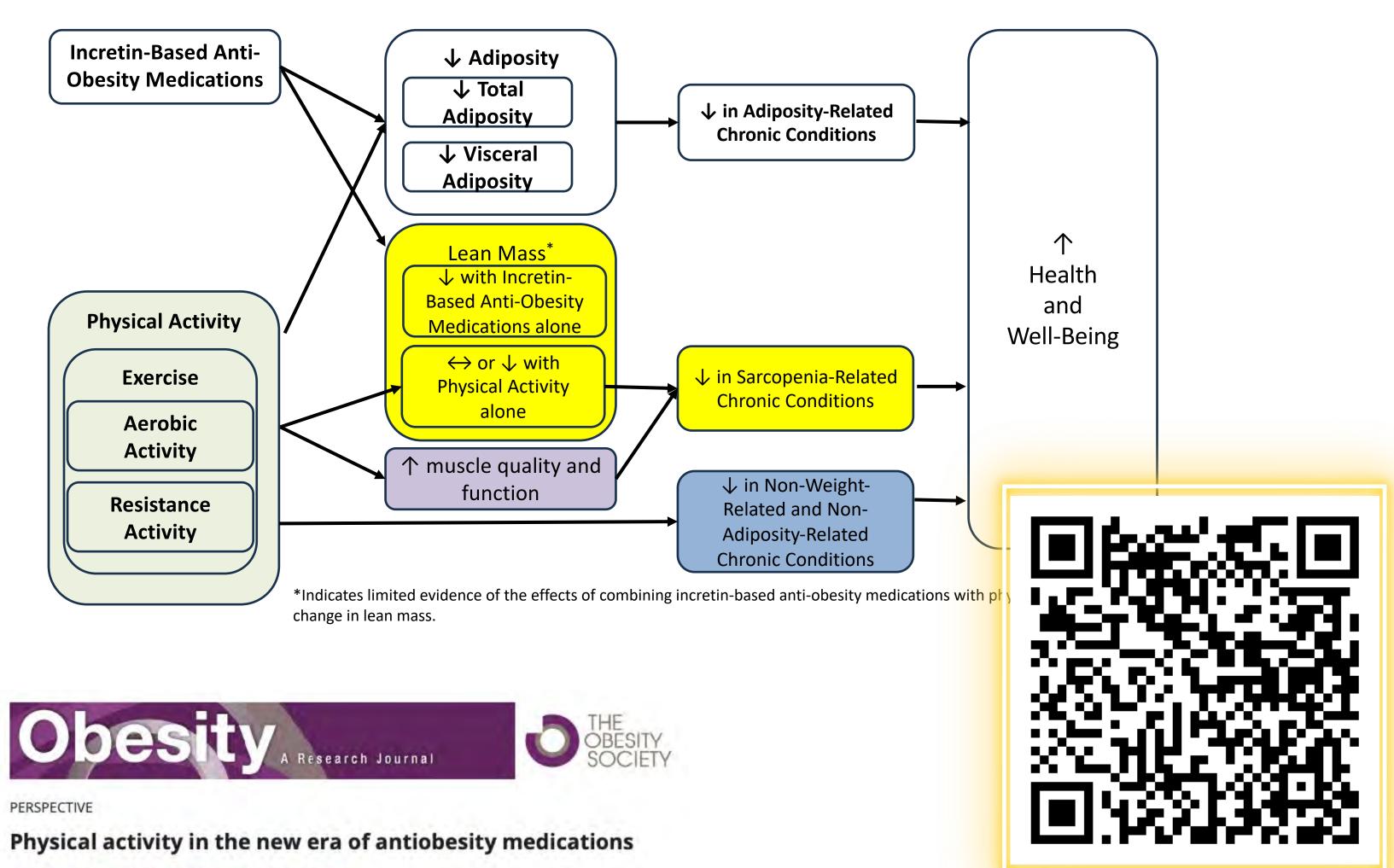
- Focus on the individual needs of the client/patient
- Holistic Health opportunity
- Beware of outcome only framing (i.e. muscle mass, metabolic changes)
- Target the independent effects of exercise on health beyond weight loss
- Side Effects are variable along with how patients feel

UNKNOWN:

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- Is the dose, intensity, frequency different? Do patients achieve the same benefits?
 - Consider:
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- What about new agents?

LEARNING:

- Exercise Tolerance
- How patients/clients think and feel about exercise



The Opportunities:

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KNOWN:

- Exercise professionals are a critical part of the obesity care team
- **Collaboration** is critical
- Scope of Practice
 - Medical Management vs.
 Certificate Knowledge
- Concerns over collaboration
- Method-centered vs. Personcentered

UNKNOWN:

- Are we currently building bridges with our approaches or creating a wider divide?
- What is the appropriate level of training?
- Are we positioning the industry to be appropriately responsive to the fast-changing landscape AND complete medical management of obesity?

LEARNING:

- Reimbursement structures
- How to build meaningful connections with providers and fitness professionals
- Building trust with patients/clients



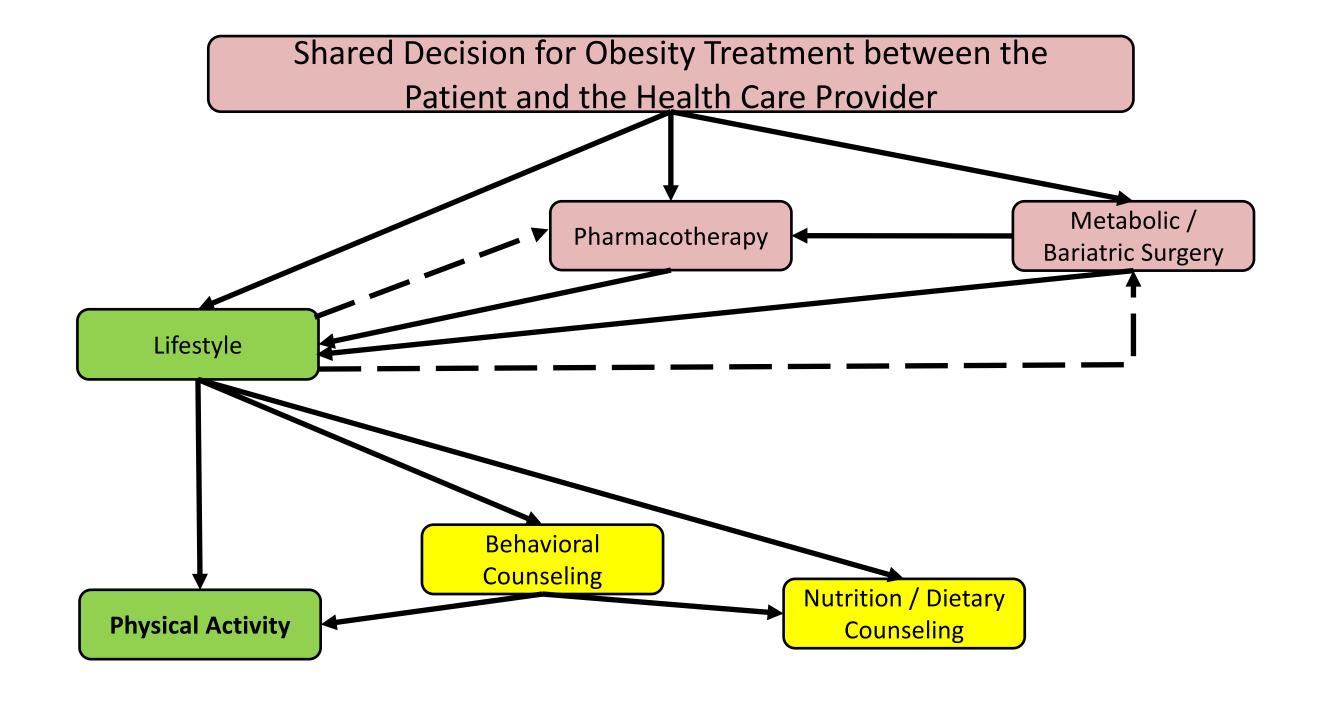
Contemporary Treatments for Obesity: Physical Activity in the Context of Antiobesity Medications

Jakicic, John M.¹; Rogers, Renee J.¹; Apovian, Caroline M.²

Author Information

Translational Journal of the ACSM 9(2):e000253, Spring 2024. | DOI: 10.1249/TJX.0000000000000253







CRITICAL REFERALNETWORK

Medical Providers Dietitians Behavioral Health

Shared Decision for Obesity Treatment between the Patient and the Health Care Provider Metabolic / Pharmacotherapy **Bariatric Surgery** Lifestyle **Behavioral** Counseling Nutrition / Dietary **Physical Activity** Counseling

Annals of Behavioral Medicine



JOURNAL ARTICLE

Relevance of Behavioral Research in the Evolving State of Antiobesity Medications: Is the Glass Half Empty or Half Full? Get access >

Michelle Y Martin, PhD, FACSM, FSBM ☒, Renee J Rogers, PhD, FACSM

Annals of Behavioral Medicine, kaae022, https://doi.org/10.1093/abm/kaae022

Published: 15 May 2024

BIOLOGICAL

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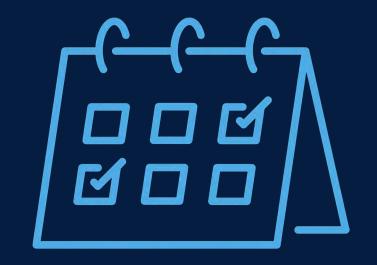
Variable	Total	Males	Females
N (%)	190	41 (21.6%)	149 (78.4%)
Age (years)	55.7±12.3	57.2±12.0	55.2±12.4
Weight (kg)	97.8±22.8	121.6±33.0	92.5±22.5
Weight Loss (kg)	18.7±14.0	22.6±16.8	17.6±13.0

Mid-50s



-19 kg

Days / Week		
Sample Average	2.8 ± 1.7	
Report ≥1	84.3%	
Minutes / Week		
Report ≥ 150 (34%)	238 <u>+</u> 104	
Report ≤ 150 (66%)	63 <u>+</u> 46	
Mode of Activity		
Aerobic	42.2%	
Resistance	2.4%	
Mind Body	2.4%	
Other	1.2%	
Aerobic + Resistance	15.7%	
Aerobic + Resistance + Mind Body	12%	
Resistance + Mind Body	1.2%	



2.8



66%

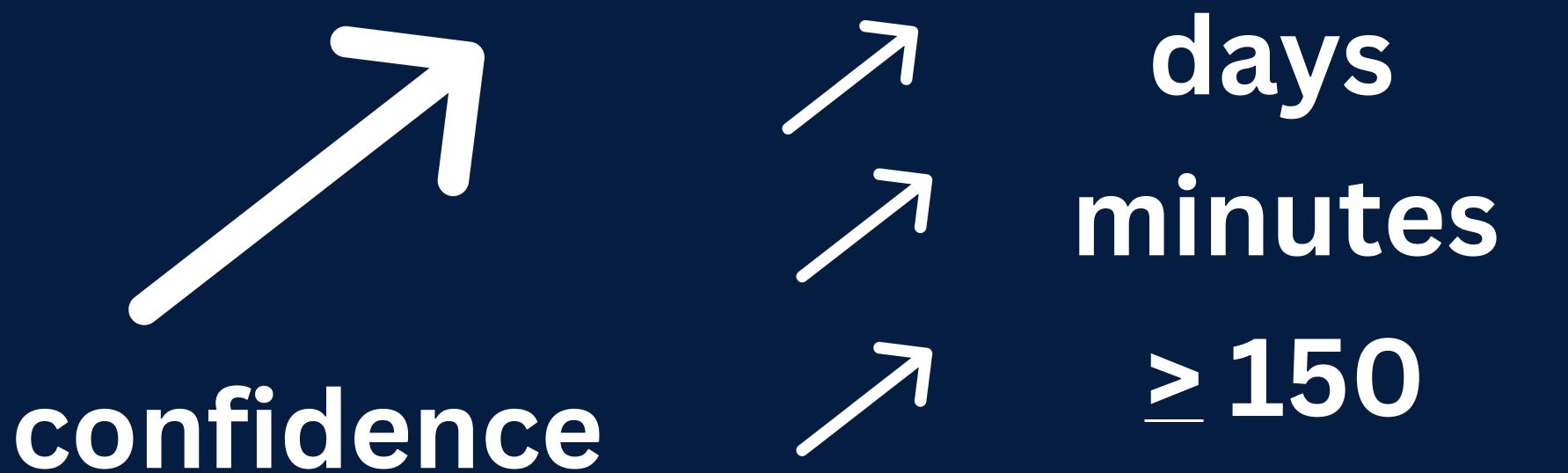


aerobic

Variable	Category of Current importance			n walue
Variable	Low	Moderate	High	p-value
N (% of total sample)	21 (11.1%)	50 (26.3%)	119 (62.6%)	
Physical Activity (min/wk)	45.7±82.9	95.5±148.1	156.0±131.1	0.002
Physical Activity (days/wk)	1.1±1.6	1.9±1.7	3.3±1.7	< 0.001
% (within category) meeting >150 min/wk	4.8%	18.0%	47.1%	<0.001*



Westelde	Category of Confidence			A CONTRACT
Variable	Low	Moderate	High	p-value
N (% of total sample)	42 (11.9%)	60 (31.6%)	88 (46.3%)	
Physical Activity (min/wk)	67.4±82.3	125.7±152.3	158.3±137.5	0.002
Physical Activity (days/wk)	1.6±1.5	2.6±1.9	3.3±1.8	< 0.001
% (within category) meeting >150 min/wk	11.9%	23.3%	53.4%	<0.001*





SEMI-STRUCTURED INTERVIEWS



DISCOMFORT

With way look and feel during exercise

ENERGY

Primary reason for exercising

SELF-EFFICACY

Lack of knowledge and skills to exercise

Never been an "Exercise Person"

Negative Past Experience

Safety concerns

STIGMA SUPPORT

Feels judged for "Taking Easy Way Out"

Feels size / comorbidities influence activity counseling

LOSS OF STRENGTH / MUSCLE

Primary concern related to AOM therapy that exercise may impact





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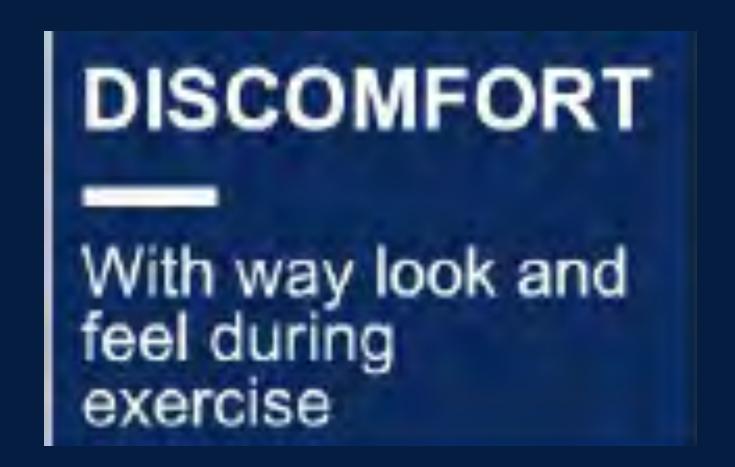
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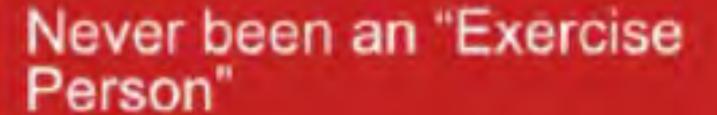






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INTELLECTUAL BIAS

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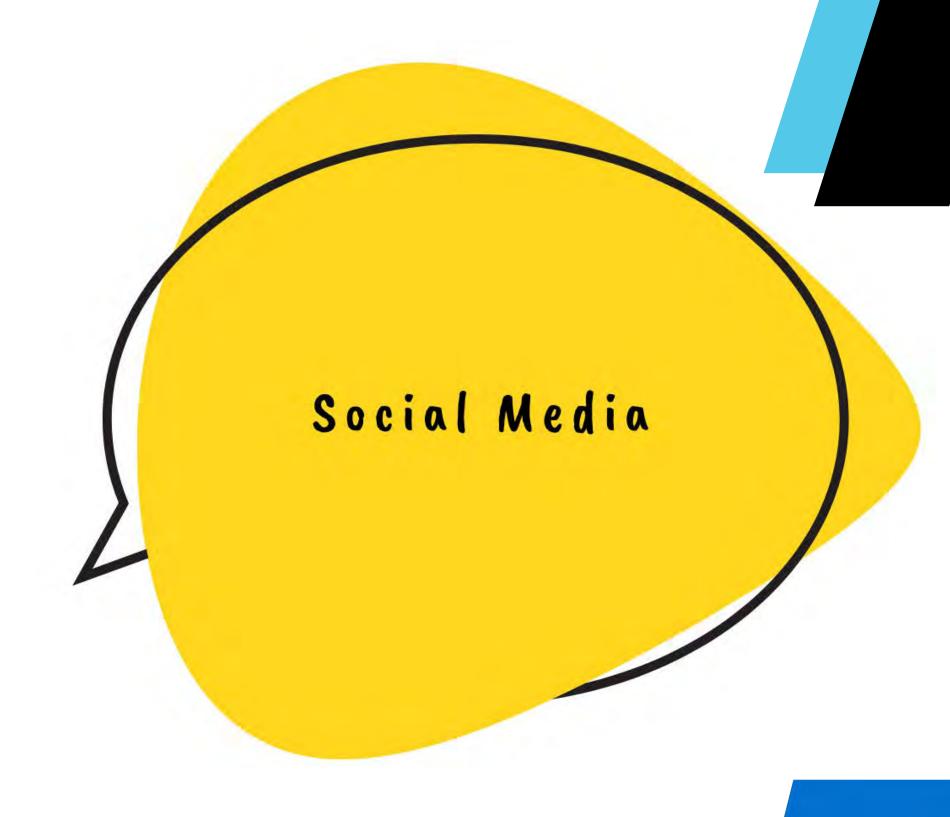


If I knew you were an "Exercise Person"
I wouldn't have talked to you.

WHY?

People that act like everyone can do it alone don't understand life long obesity well.

HELP ME UNDERSTAND WHY YOU FEEL THIS WAY?



Can you help me get access to an exercise person that knows weight loss and is empathetic?

3 trainers
told me...

You don't need those
drugs - my method works
better.

I never went back.



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LOSS OF STRENGTH / MUSCLE

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Lack of knowledge and

SUPPORT

RELEVANT

TARGETS

ENERGY

concerns

SS OF STRENGTH / MUSCLE

Primary reason for exercising

ry concern related to AOM therapy that se may impact



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weakness loss strength



35%

fatigue low energy

HEALTH & FITNESS JOURNAL



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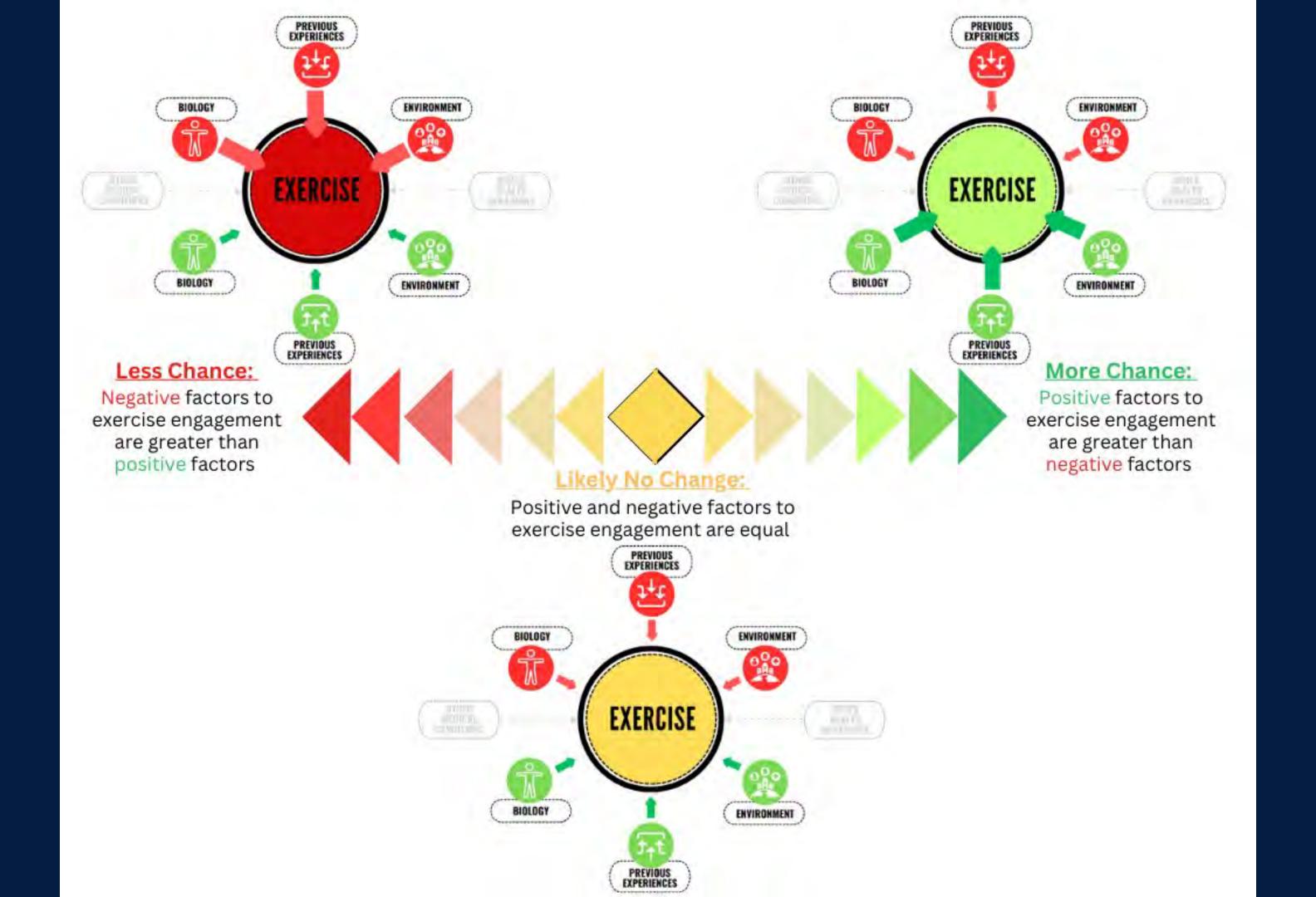
Anti-Obesity Medications

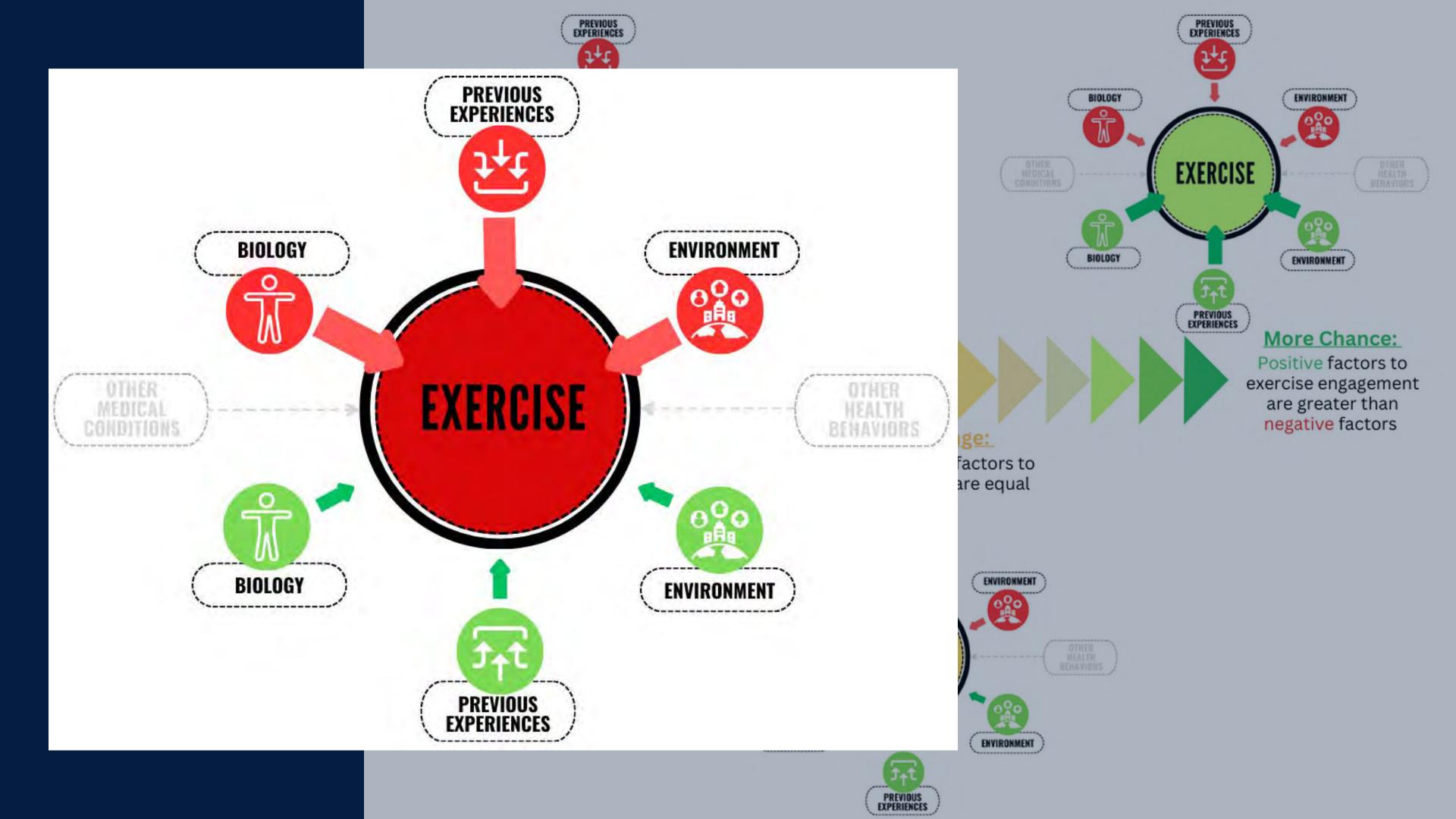
Targeting Exercise Engagement

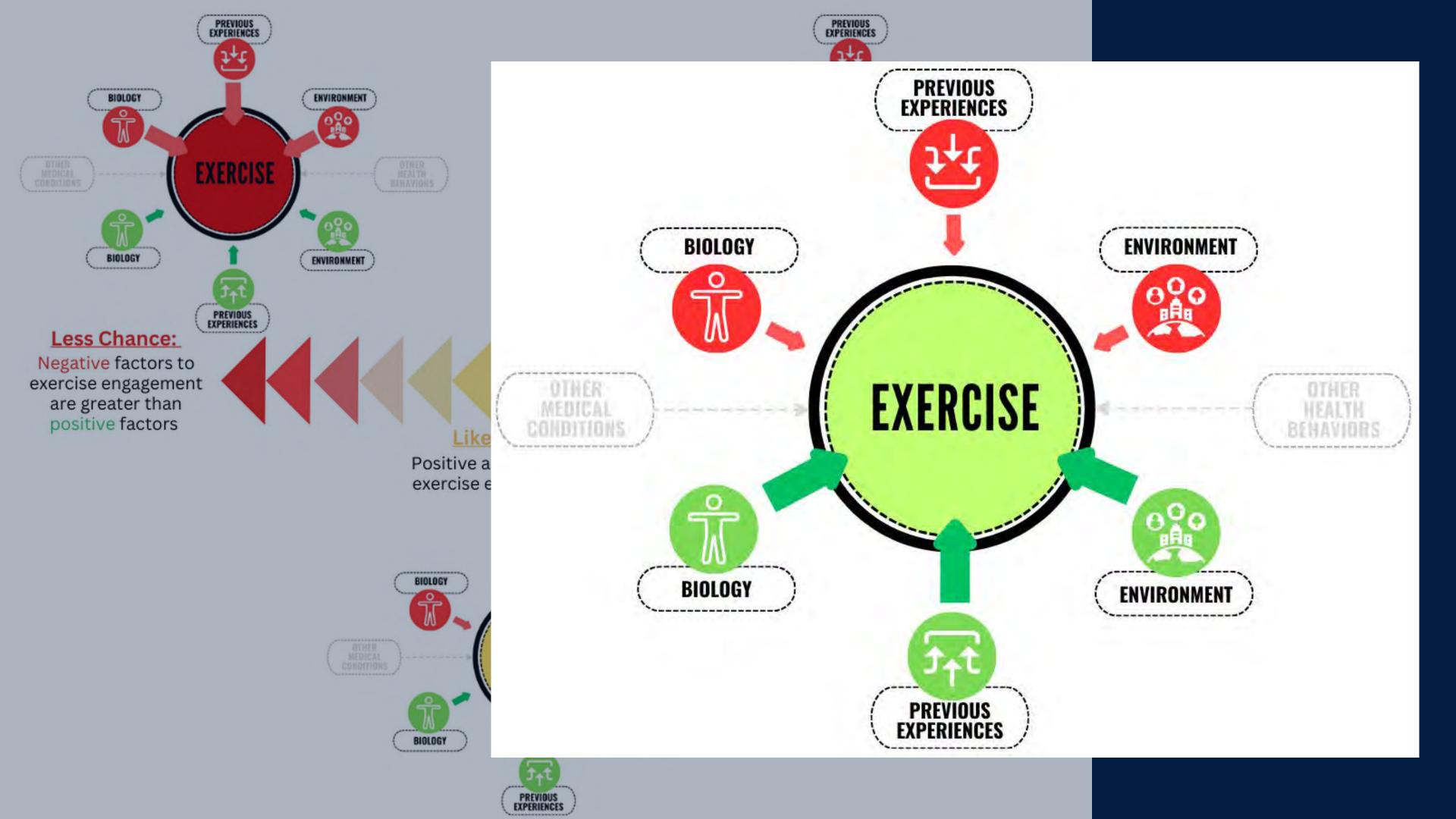
by Renee J. Rogers, Ph.D., FACSM

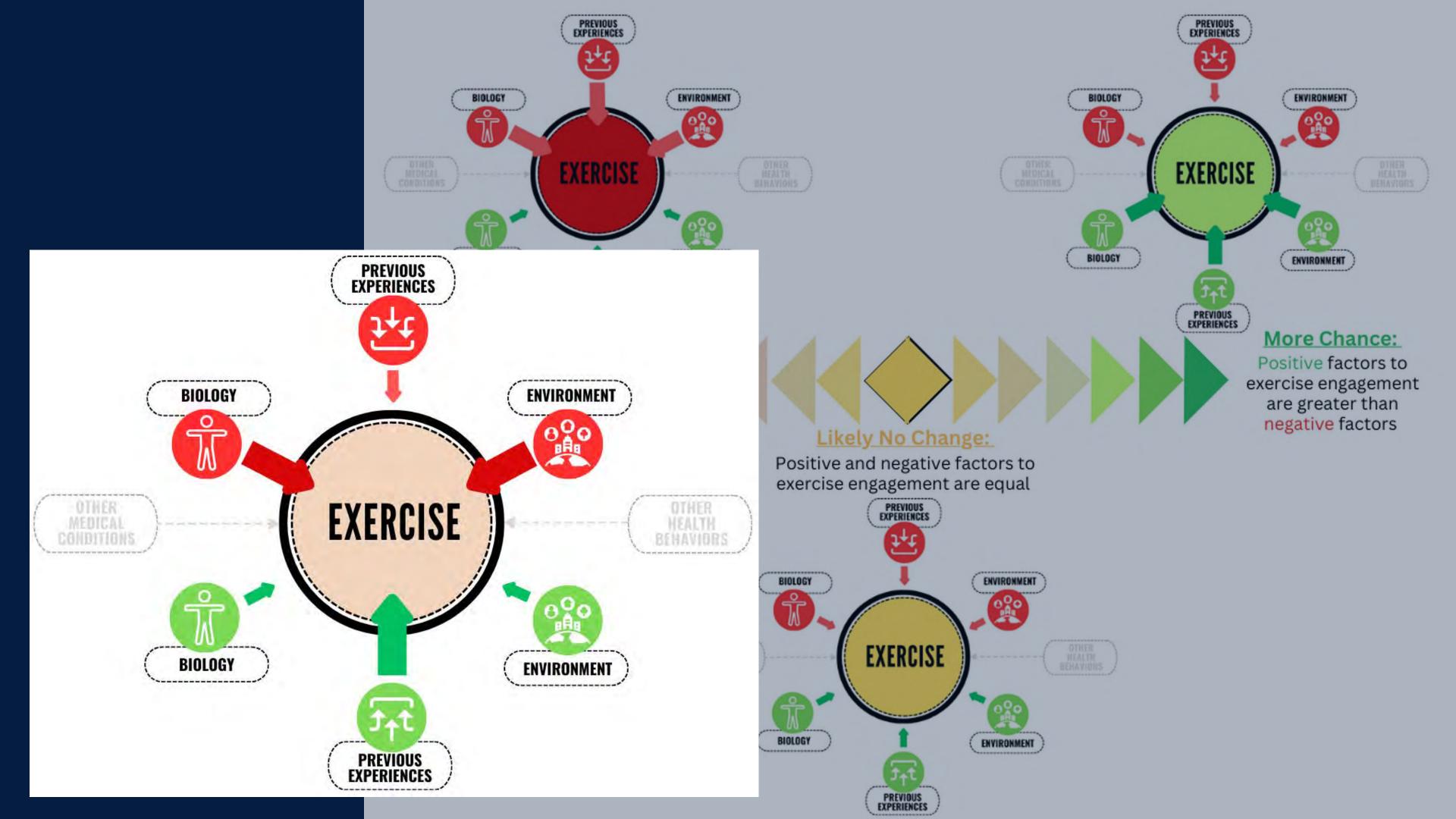












BIOLOGICAL

Approach

BEHAVIORAL

BUSINESS

Approach BUSINESS



Person-Centered

Not

Method-Centered



Francis Neric, MS, MBA - 1st

AVP of Certification and Credentialing, American College of Sports Medi...

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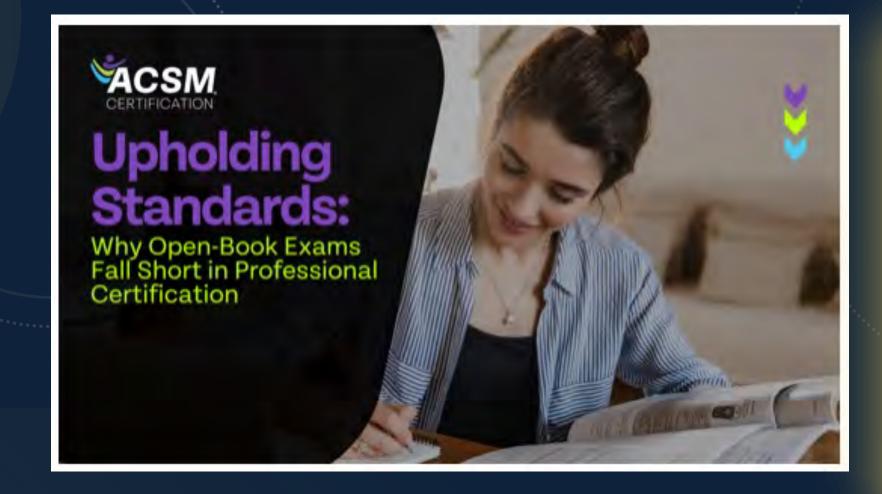
Conflating open-book certificate programs with professional certification raises substantial concerns about the credibility of the health fitness profession. It is critical we maintain a clear distinction between training (educational programs) and competency assessment (certification).

I provide additional thoughts/insights in my latest American College of Sports

Medicine blog –

"Upholding Standards: Why Open-Book Exams Fall Short in Professional Certification"

https://lnkd.in/eWK2Zpce







BUSINESS

- How are medications being obtained?
- Is appropriate medical management in place?
- Is the approach method-centered or person-centered?
- Scope of Practice
- Business is Business but... is it more about PROFIT over PERSON?
- Is the method based on true clinical trial evidence?
 - Consider what we have covered
- LIABILITY

Thank You!



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