What If You've Been Missing the Most Powerful Tools in Modern Medicine? Functional Medicine & Peptide Therapy: A New Approach to Patient Transformation

> nd is not intended to **diagnose, treat, or cure any disease. Regenerative** w the information is applied. Participants must be **licensed professionals**

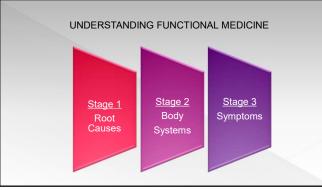
The procedures discussed. ade regarding specific injection techniques for any condition. Each provider is responsible for a**dical judgment** and ensuing procedures align with **community standards of care**.

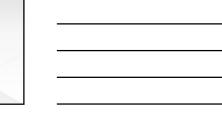
Educational Webinar

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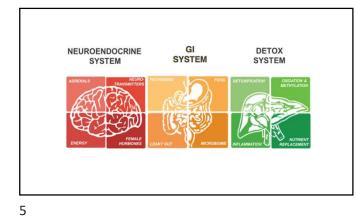
DR. JOSEPH P. GAMBARDELLA, D.C, ABAAPH, FSCT, FAAFMF
Pellowship-Trained in Functional & Regenerative Medicine through the A4M and Kalish Institute of Functional Medicine
Optimized in Peptide Therapy – Experise in hormone replacement, spinal decompression, and cutting-edge regenerative medicine.
Optimized Medicine & Rebabilitation of Miami and Jupiter Disc Center, integrating functional medicine and hormone replacement Provide and Medicine And Advanced Physical Medicine & Rebabilitation of Miami and Jupiter Disc Center, integrating functional medicine, regenerative therapies, and non-surgical spinal care.
Sports Medicine Background – Former Assistant Physician for the University of Miami football team and the FIU Women's Sand Volleyball.
Industry Contributor & Educator – Contributor to The Ultimate Spinal Decompression Book and The World's Best Kept Health Secret Revealed, and host of the Healthy Dose Podcast



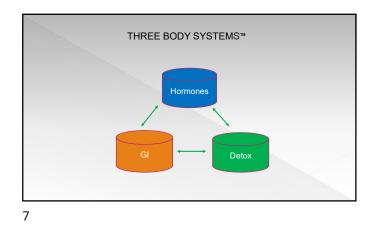




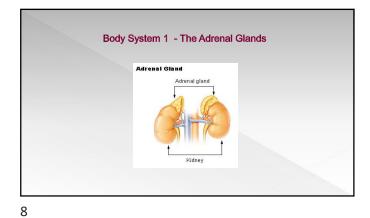




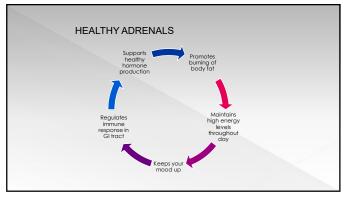


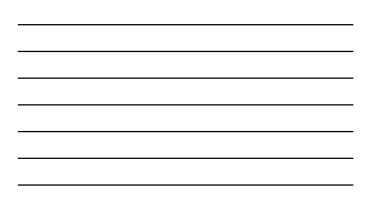


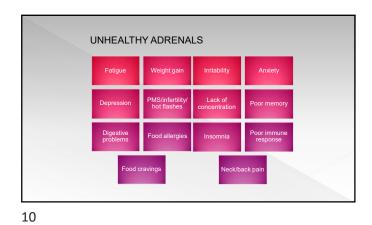




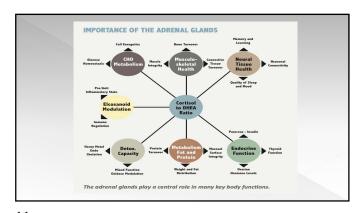






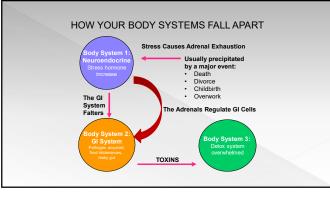




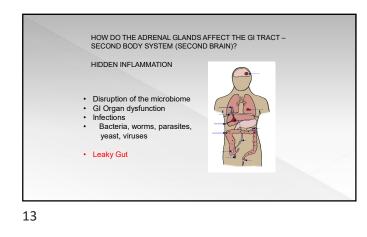


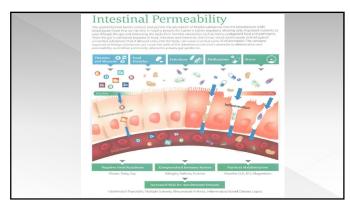


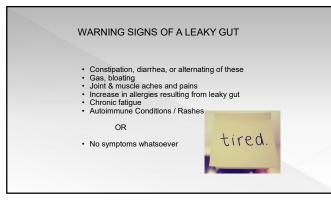




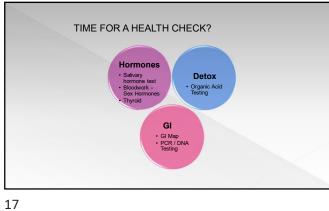






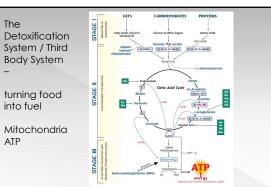


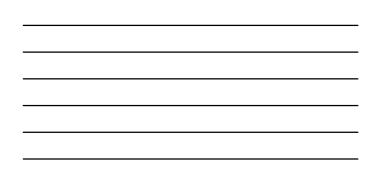
IN YOUR CLINICAL TOOLBOX FUNCTIONAL MEDICINE UNCOVERS WHY DYSFUNCTION
FUNCTIONAL MEDICINE UNCOVERS WHY DYSFUNCTION
EXISTS.
PEPTIDES HELP YOU FIX IT-AT THE CELLULAR LEVEL.
RESTORE SIGNALING PATHWAYS
ACCELERATE TISSUE REPAIR
SUPPORT SYSTEM-SPECIFIC HEALING (HPA, GI, DETOX)
DELIVER FASTER, DEEPER CLINICAL RESULTS
THIS IS WHERE ROOT-CAUSE MEETS REGENERATION









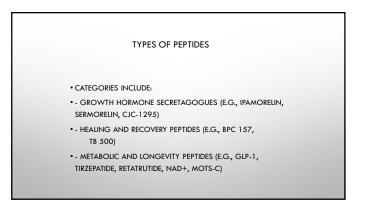


 PEPTIDES ARE SHORT CHAINS OF AMINO ACIDS THAT FUNCTION AS SIGNALING MOLECULES IN THE BODY.
 THEY REGULATE VARIOUS BIOLOGICAL FUNCTIONS, INCLUDING HEALING, METABOLISM, AND MUSCLE GROWTH.

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HOW PEPTIDES WORK

- PEPTIDES BIND TO SPECIFIC RECEPTORS ON CELLS, TRIGGERING BIOLOGICAL RESPONSES.
- THEY ARE INVOLVED IN HORMONE REGULATION, TISSUE REPAIR, AND
 IMMUNE FUNCTION.



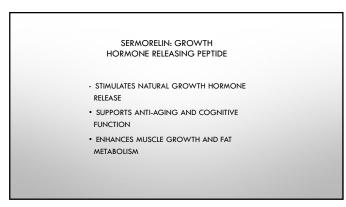
BODY SYSTEM 1 - NEUROENDOCRINE OPTIMIZATION

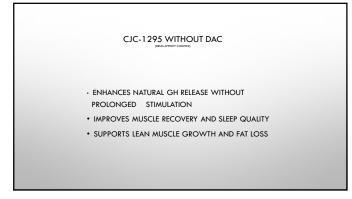
NEUROENDOCRINE RESET: OPTIMIZING THE HPA AXIS & GROWTH HORMONE SECRETION PEPTIDES:

- CJC-1295 STIMULATES GHRH TO INCREASE NATURAL GH AND IGF-1
- IPAMORELIN GHRELIN RECEPTOR AGONIST THAT AMPLIFIES GH PULSE WITH MINIMAL SIDE EFFECTS
- SERMORELIN PROMOTES NATURAL GH RELEASE; SUPPORTS PITUITARY FUNCTION KEY CLINICAL BENEFITS:
- IMPROVES SLEEP, MOOD, AND COGNITIVE CLARITY
 SUPPORTS LEAN MUSCLE GROWTH AND FAT LOSS
- ENHANCES RECOVERY AND ENERGY THROUGH GH/IGF-1 AXIS SUPPORT A FOUNDATIONAL STEP IN REVERSING ADRENAL FATIGUE AND BURNOUT

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IPAMORELIN: GROWTH HORMONE SECRETAGOGUE · INCREASES NATURAL GROWTH HORMONE PRODUCTION IMPROVES SLEEP, MUSCLE MASS, AND FAT LOSS • NO IMPACT ON CORTISOL OR PROLACTIN LEVELS

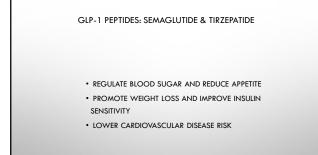




BODY SYSTEM 2 – GASTROINTESTINAL & METABOLIC FUNCTION

GUT-BRAIN-GLUCOSE AXIS: PEPTIDES FOR APPETITE, MICROBIOME, AND METABOLIC RESET PEPTIDES:

- SEMAGLUTIDE GLP-1 RECEPTOR AGONIST FOR SATIETY AND INSULIN
 SENSITIVITY
- SENSITIVITY • TIRZEPATIDE – DUAL GIP/GLP-1 AGONIST FOR GLYCEMIC AND WEIGHT
- CONTROL • RETATRUTIDE – TRIPLE AGONIST (GIP/GLP-1/GLUCAGON) FOR COMPREHENSIVE METABOLIC OPTIMIZATION
- METABOLIC OPTIMIZATION KEY CLINICAL BENEFITS:
- REDUCES APPETITE AND VISCERAL FAT
- IMPROVES GUT-BRAIN SIGNALING AND SLOWS GASTRIC EMPTYING
- SUPPORTS MICROBIOME HEALTH THROUGH NORMALIZED MOTILITY
- CORRECTS MICKOBIONE HEALTH THROUGH NORMALIZED MOTILIT
 CORRECTS METABOLIC DYSFUNCTION ROOTED IN GI IMBALANCE



TIRZEPATIDE VS. SEMAGLUTIDE

- TIRZEPATIDE IS A DUAL GIP/GLP-1 RECEPTOR AGONIST
- MORE POTENT APPETITE SUPPRESSION AND METABOLIC BENEFITS THAN
 SEMAGLUTIDE
- REDUCES BODY FAT MORE EFFECTIVELY

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RETATRUTIDE: THE NEXT-GEN PEPTIDE

- TRIPLE RECEPTOR AGONIST (GLP-1, GIP, AND GLUCAGON)
- MAXIMIZES WEIGHT LOSS AND METABOLIC REGULATION
- SHOWS PROMISE IN OBESITY TREATMENT
- MINIMIZES SARCOPENIA ASSOCIATED WITH WEIGHT
- LOSS

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BPC 1*57*: THE HEALING PEPTIDE • ACCELERATES WOUND HEALING AND TISSUE REGENERATION • REDUCES INFLAMMATION AND SUPPORTS GUT HEALTH • ENHANCES MUSCULOSKELETAL RECOVERY

TB 500: TISSUE REPAIR PEPTIDE

- PROMOTES MUSCLE AND JOINT REPAIR
- ENHANCES FLEXIBILITY AND REDUCES INFLAMMATION
- SPEEDS UP RECOVERY FROM INJURIES

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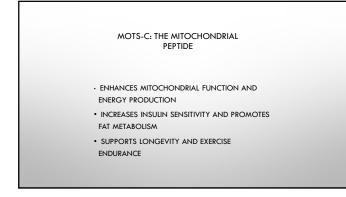
BODY SYSTEM 3 – LIVER DETOX & MITOCHONDRIAL ENERGY

- CELLULAR POWER & DETOX: PEPTIDES FOR MITOCHONDRIAL AND LIVER FUNCTION PEPTIDES:
- \bullet NAD+ (PUSH PATCH OR IV) ESSENTIAL COENZYME FOR ATP PRODUCTION, DNA REPAIR, AND DETOX ENZYME FUNCTION
- MOTS-C MITOCHONDRIAL-ENCODED PEPTIDE THAT ENHANCES ENERGY METABOLISM, INSULIN SENSITIVITY, AND STRESS ADAPTATION

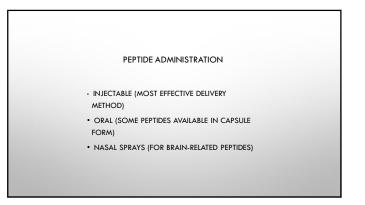
KEY CLINICAL BENEFITS:

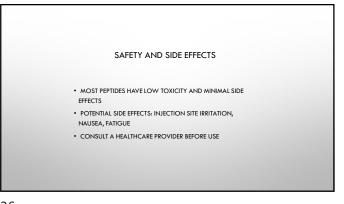
- INCREASES CELLULAR ENERGY AND REDUCES FATIGUE
- ENHANCES PHASE I & II LIVER DETOX PATHWAYS
- SUPPORTS MITOCHONDRIAL REPAIR AND RESILIENCE
- CRUCIAL FOR LONGEVITY, INFLAMMATION CONTROL, AND METABOLIC REPAIR

NAD*: Cellular Energy & Detox Support
Fuels ATP production via enhanced mitochondrial oxygen utilization •Promotes mitochondrial repair, telomere health, and anti-aging
pathways •Aids liver detoxification by reducing inflammation and oxidative
stress •Enhances cognition and immune regulation through extracellular
signaling •Optimized via Push Patch or IV delivery for intracellular and extracellular absorption
•Synergizes with BPC-157 to promote stem cell signaling, vascular regeneration, and fissue repair
Outcome: Increased energy, accelerated recovery, and improved detox capacity at the cellular level









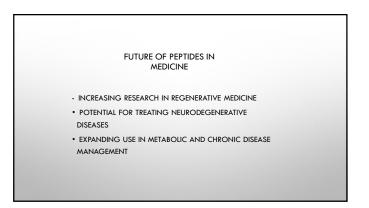
BEST PRACTICES FOR PEPTIDE USE

1. ALWAYS DO TESTING

- FUNCTIONAL LASS (E.G., DUTCH, GI-MAP, METABOLOMIX) AND GENETIC PANELS IDENTIFY THE ROOT CAUSE OF DISEASE AND DYSFUNCTION
 KEY MARKERS: CORTISOL ENYTHM, IADENALI, DYSBIOSIS/INFLAMMATION (GI), METHYLATION AND OXIDATIVE STRESS (DEFOX/GONETICS)
- 3. GUIDES TARGETED PEPTIDE SELECTION AND IMPROVES CLINICAL OUTCOMES
- 2. CYCLE PEPTIDES TO PREVENT DESENSITIZATION 1. FOLLOW STRUCTURED ON/OFF PROTOCOLS TO MAINTAIN RECEPTOR SENSITIVITY
 - 2. EXAMPLE: 5 DAYS ON / 2 OFF OR MONTHLY ROTATION PROTOCOLS
- 3. USE PROPER DOSING AND TIMING STRATEGIES 1. TIME GROWTH HORMONE PEPTIDES (E.G., CJC/IPAMORELIN) PRE-BED OR POST-FASTED WORKOUT
- 2. USE MITOCHONDRIAL/ENERGY PEPTIDES (E.G., NAD+, MOTS-C) IN THE AM 3. TITRATE BASED ON LAB RESPONSE, CLINICAL GOALS, AND PATIENT FEEDBACK
- 4. COMBINE WITH PROPER DIET AND EXERCISE FOR MAXIMUM BENEFITS
- ANTI-INFLAMMATORY DIET, RESISTANCE TRAINING, AND AEROBIC CONDITIONING ENHANCE RESULTS
 PEPTIDES AMPLIFY, BUT DO NOT REPLACE, FOUNDATIONAL LIFESTYLE INTERVENTIONS

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KEY TAKEAWAYS

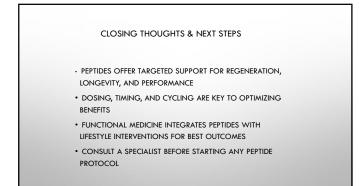
- PEPTIDES ARE POWERFUL TOOLS FOR HEALING, LONGEVITY, AND PERFORMANCE
- DIFFERENT PEPTIDES SERVE DIFFERENT PURPOSES
- PROPER ADMINISTRATION AND STACKING ENHANCE

BENEFITS

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NEXT STEPS • CONSULT A FUNCTIONAL MEDICINE PROVIDER FOR PEPTIDE THERAPY • CONSIDER LAB TESTING TO ASSESS HORMONE AND METABOLIC HEALTH • IMPLEMENT LIFESTYLE CHANGES ALONGSIDE PEPTIDE USE





TRANSFORM LIVE	NDERSTAND THE BODY, THE MORE YOU CAN
EMAIL: FUNCTIO	BARDELLA DICINE & REGENERATIVE THERAPY EDUCATOR NALMED@APMRMIAMI.COM <u>REGENERATIVEMEDICALACADEMY.COM</u>
IVE TRAINING. OI INTENSIVES.	n-demand courses. Hands-on injection
	J'VE ALWAYS WANTED START WITH THE I WERE NEVER GIVEN.