HOW TO LOSE WEIGHT WITH CUSHING'S

HOW TO LOSE WEIGHT WITH CUSHING'S IS A COMPLEX CHALLENGE THAT REQUIRES A MULTIFACETED APPROACH TAILORED TO THE SPECIFIC HORMONAL IMBALANCES AT PLAY. CUSHING'S DISEASE, CHARACTERIZED BY PROLONGED EXPOSURE TO HIGH CORTISOL LEVELS, OFTEN LEADS TO SIGNIFICANT WEIGHT GAIN, PARTICULARLY AROUND THE ABDOMEN, FACE, AND UPPER BACK, ALONG WITH OTHER DEBILITATING SYMPTOMS. UNDERSTANDING THE UNDERLYING CAUSES AND DEVELOPING A STRATEGIC PLAN IS CRUCIAL FOR INDIVIDUALS SEEKING TO MANAGE THEIR WEIGHT EFFECTIVELY AND IMPROVE THEIR OVERALL HEALTH. THIS ARTICLE WILL DELVE INTO THE INTRICACIES OF WEIGHT LOSS IN THE CONTEXT OF CUSHING'S, EXPLORING DIAGNOSTIC CONSIDERATIONS, DIETARY STRATEGIES, EXERCISE RECOMMENDATIONS, MEDICAL INTERVENTIONS, AND THE IMPORTANCE OF A SUPPORTIVE CARE

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UNDERSTANDING CUSHING'S DISEASE AND WEIGHT GAIN

CUSHING'S DISEASE, A HORMONAL DISORDER, ARISES FROM THE BODY'S OVERPRODUCTION OF CORTISOL, OFTEN DUE TO A PITUITARY TUMOR (CUSHING'S DISEASE) OR ADRENAL GLAND TUMORS, OR FROM LONG-TERM USE OF CORTICOSTEROID MEDICATIONS. CORTISOL, A STRESS HORMONE, PLAYS A VITAL ROLE IN REGULATING METABOLISM, BLOOD SUGAR, BLOOD PRESSURE, AND INFLAMMATION. WHEN ITS LEVELS ARE CHRONICALLY ELEVATED, IT DISRUPTS THESE FUNCTIONS, LEADING TO A CASCADE OF PHYSICAL CHANGES, WITH WEIGHT GAIN BEING ONE OF THE MOST PROMINENT AND DISTRESSING.

THE CHARACTERISTIC WEIGHT GAIN IN CUSHING'S IS NOT SIMPLY DUE TO OVEREATING; IT'S A DIRECT CONSEQUENCE OF CORTISOL'S METABOLIC EFFECTS. CORTISOL PROMOTES THE ACCUMULATION OF FAT, PARTICULARLY VISCERAL FAT (FAT AROUND THE ORGANS), WHICH CONTRIBUTES TO AN INCREASED WAIST CIRCUMFERENCE AND AN APPLE-SHAPED BODY. IT ALSO LEADS TO THE REDISTRIBUTION OF FAT, CAUSING A ROUNDED FACE (MOON FACE), A FATTY HUMP BETWEEN THE SHOULDERS (BUFFALO HUMP), AND THINNING OF THE ARMS AND LEGS. FURTHERMORE, ELEVATED CORTISOL CAN INCREASE APPETITE AND CRAVINGS FOR HIGH-CALORIE, CARBOHYDRATE-RICH FOODS, EXACERBATING THE WEIGHT GAIN PROBLEM.

BEYOND WEIGHT GAIN, CUSHING'S CAN MANIFEST IN A VARIETY OF OTHER SYMPTOMS, INCLUDING MUSCLE WEAKNESS, FATIGUE, THIN AND FRAGILE SKIN, EASY BRUISING, STRETCH MARKS (OFTEN PURPLISH), ELEVATED BLOOD PRESSURE, AND ELEVATED BLOOD SUGAR LEVELS, SOMETIMES LEADING TO DIABETES. FOR WOMEN, IT CAN CAUSE IRREGULAR MENSTRUAL CYCLES, INCREASED FACIAL HAIR, AND ACNE. FOR MEN, IT CAN LEAD TO DECREASED LIBIDO AND FERTILITY ISSUES. ADDRESSING THESE SYMPTOMS IN CONJUNCTION WITH WEIGHT MANAGEMENT IS PARAMOUNT FOR IMPROVING THE QUALITY OF LIFE FOR INDIVIDUALS WITH CUSHING'S.

DIAGNOSTIC APPROACHES FOR CUSHING'S

Accurate diagnosis of Cushing's disease is the critical first step before embarking on any weight loss plan. This is because weight loss strategies must be individualized based on the underlying cause and severity of the condition. Diagnostic testing aims to confirm the presence of excess cortisol and identify the source of its overproduction.

THE DIAGNOSTIC PROCESS TYPICALLY INVOLVES A SERIES OF TESTS TO MEASURE CORTISOL LEVELS. COMMON METHODS INCLUDE:

- 24-HOUR URINARY FREE CORTISOL MEASUREMENT: THIS TEST MEASURES THE AMOUNT OF CORTISOL EXCRETED IN THE URINE OVER A 24-HOUR PERIOD. ELEVATED LEVELS ARE SUGGESTIVE OF CUSHING'S.
- LATE-NIGHT SALIVARY CORTISOL MEASUREMENT: CORTISOL LEVELS NORMALLY DIP AT NIGHT. MEASURING SALIVARY CORTISOL LATE AT NIGHT CAN REVEAL IF THIS SUPPRESSION IS ABSENT, INDICATING EXCESS CORTISOL PRODUCTION.
- Low-Dose Dexamethasone Suppression Test: Dexamethasone is a synthetic corticosteroid that, in healthy individuals, suppresses cortisol production. In this test, a small dose of dexamethasone is given, and cortisol levels are measured the next morning. Failure of cortisol levels to be suppressed suggests Cushing's.

Once Cushing's is confirmed, further tests are necessary to pinpoint the cause. These might include imaging studies like MRI or CT scans of the pituitary gland and adrenal glands to detect any tumors. Blood tests can also measure levels of ACTH (adrenocorticotropic hormone), which stimulates cortisol production, helping to differentiate between pituitary-dependent Cushing's and adrenal tumors. A high-resolution CT scan of the adrenal glands or an inferior petrosal sinus sampling (IPSS) might be performed to localize the source of ACTH overproduction from the pituitary gland.

TAILORED DIETARY STRATEGIES FOR WEIGHT LOSS WITH CUSHING'S

When formulating a diet plan for weight loss with Cushing's, it's essential to consider the hormonal imbalances and their impact on metabolism, as well as any co-existing conditions like diabetes or hypertension. The focus should be on nutrient-dense foods, controlled calorie intake, and mindful eating practices.

KEY DIETARY PRINCIPLES INCLUDE:

- EMPHASIS ON WHOLE FOODS: A DIET RICH IN FRUITS, VEGETABLES, LEAN PROTEINS, AND WHOLE GRAINS PROVIDES ESSENTIAL NUTRIENTS AND FIBER, PROMOTING SATIETY AND SUPPORTING OVERALL HEALTH. THESE FOODS ARE GENERALLY LOWER IN CALORIES AND RICH IN VITAMINS AND MINERALS THAT CAN HELP MITIGATE SOME OF THE SIDE EFFECTS OF CUSHING'S.
- CONTROLLED CARBOHYDRATE INTAKE: GIVEN THE PROPENSITY FOR ELEVATED BLOOD SUGAR IN CUSHING'S, MANAGING CARBOHYDRATE INTAKE IS CRUCIAL. OPT FOR COMPLEX CARBOHYDRATES LIKE BROWN RICE, QUINOA, AND OATS OVER REFINED SUGARS AND PROCESSED GRAINS. DISTRIBUTING CARBOHYDRATE INTAKE THROUGHOUT THE DAY CAN HELP PREVENT BLOOD SUGAR SPIKES AND CRASHES.
- LEAN PROTEIN SOURCES: INCLUDING LEAN PROTEINS SUCH AS CHICKEN BREAST, TURKEY, FISH, BEANS, AND LENTILS HELPS PRESERVE MUSCLE MASS DURING WEIGHT LOSS AND PROMOTES A FEELING OF FULLNESS. PROTEIN ALSO REQUIRES MORE ENERGY TO DIGEST, CONTRIBUTING SLIGHTLY TO CALORIE EXPENDITURE.
- **HEALTHY FATS IN MODERATION:** INCORPORATE HEALTHY FATS FROM SOURCES LIKE AVOCADOS, NUTS, SEEDS, AND OLIVE OIL. THESE FATS ARE IMPORTANT FOR HORMONE PRODUCTION AND NUTRIENT ABSORPTION BUT SHOULD BE CONSUMED IN MODERATION DUE TO THEIR CALORIE DENSITY.
- PORTION CONTROL: EVEN WITH HEALTHY FOODS, OVERCONSUMPTION CAN HINDER WEIGHT LOSS. PRACTICING PORTION CONTROL IS VITAL. USING SMALLER PLATES AND BEING MINDFUL OF SERVING SIZES CAN MAKE A SIGNIFICANT DIFFERENCE.
- HYDRATION: DRINKING PLENTY OF WATER THROUGHOUT THE DAY IS ESSENTIAL FOR METABOLISM, CAN HELP MANAGE APPETITE, AND SUPPORTS OVERALL BODILY FUNCTIONS.
- LIMITING PROCESSED FOODS, SUGARY DRINKS, AND EXCESSIVE SODIUM: THESE ITEMS ARE OFTEN HIGH IN CALORIES, UNHEALTHY FATS, AND SODIUM, WHICH CAN EXACERBATE WEIGHT GAIN AND CONTRIBUTE TO OTHER HEALTH PROBLEMS ASSOCIATED WITH CUSHING'S, SUCH AS HIGH BLOOD PRESSURE.

It is highly recommended to work with a registered dietitian or nutritionist who specializes in endocrine disorders. They can help create a personalized meal plan that accounts for individual dietary needs, preferences, and any specific medical recommendations. They can also provide guidance on managing cravings, which can be amplified due to hormonal fluctuations.

THE ROLE OF EXERCISE IN MANAGING WEIGHT AND SYMPTOMS

REGULAR PHYSICAL ACTIVITY IS AN INDISPENSABLE COMPONENT OF ANY WEIGHT LOSS STRATEGY, AND FOR INDIVIDUALS WITH CUSHING'S, IT OFFERS ADDITIONAL BENEFITS BEYOND CALORIE EXPENDITURE. EXERCISE CAN HELP IMPROVE MUSCLE STRENGTH, CARDIOVASCULAR HEALTH, MOOD, AND SLEEP QUALITY, ALL OF WHICH CAN BE NEGATIVELY IMPACTED BY THE CONDITION.

A BALANCED EXERCISE REGIMEN SHOULD INCORPORATE A COMBINATION OF CARDIOVASCULAR AND STRENGTH TRAINING ACTIVITIES:

- CARDIOVASCULAR EXERCISE: ACTIVITIES LIKE BRISK WALKING, SWIMMING, CYCLING, OR DANCING HELP BURN CALORIES AND IMPROVE HEART HEALTH. AIM FOR AT LEAST 150 MINUTES OF MODERATE-INTENSITY AEROBIC ACTIVITY OR 75 MINUTES OF VIGOROUS-INTENSITY AEROBIC ACTIVITY PER WEEK, AS RECOMMENDED BY HEALTHCARE PROFESSIONALS. START SLOWLY AND GRADUALLY INCREASE INTENSITY AND DURATION AS TOLERATED.
- STRENGTH TRAINING: CUSHING'S CAN LEAD TO MUSCLE WASTING AND WEAKNESS. STRENGTH TRAINING EXERCISES USING WEIGHTS, RESISTANCE BANDS, OR BODYWEIGHT CAN HELP BUILD AND MAINTAIN MUSCLE MASS. INCREASED MUSCLE MASS BOOSTS METABOLISM, MEANING YOU BURN MORE CALORIES EVEN AT REST. FOCUS ON COMPOUND EXERCISES THAT WORK MULTIPLE MUSCLE GROUPS.
- FLEXIBILITY AND BALANCE: INCORPORATING STRETCHING AND BALANCE EXERCISES CAN IMPROVE OVERALL MOBILITY, REDUCE THE RISK OF FALLS, AND ENHANCE FUNCTIONAL FITNESS.

It is crucial to consult with a doctor or physical therapist before starting any new exercise program, especially if experiencing significant muscle weakness or fatigue. They can help design a safe and effective exercise plan tailored to your current fitness level and any physical limitations. Listen to your body, avoid overexertion, and prioritize rest and recovery to prevent injuries.

MEDICAL TREATMENTS AND THEIR IMPACT ON WEIGHT

THE PRIMARY GOAL OF MEDICAL TREATMENT FOR CUSHING'S DISEASE IS TO REDUCE CORTISOL LEVELS BACK TO NORMAL. THE CHOSEN TREATMENT DEPENDS ON THE UNDERLYING CAUSE AND CAN SIGNIFICANTLY INFLUENCE WEIGHT MANAGEMENT EFFORTS.

TREATMENT OPTIONS INCLUDE:

- SURGERY: FOR PITUITARY OR ADRENAL TUMORS, SURGICAL REMOVAL IS OFTEN THE MOST EFFECTIVE TREATMENT.

 SUCCESSFUL SURGERY CAN LEAD TO A GRADUAL DECREASE IN CORTISOL LEVELS, WHICH CAN THEN FACILITATE WEIGHT LOSS. HOWEVER, POST-OPERATIVE RECOVERY AND POTENTIAL HORMONAL IMBALANCES REQUIRE CAREFUL MONITORING.
- MEDICATIONS: IF SURGERY IS NOT AN OPTION OR IS UNSUCCESSFUL, MEDICATIONS CAN BE USED TO BLOCK CORTISOL PRODUCTION OR ITS EFFECTS. EXAMPLES INCLUDE KETOCONAZOLE, METYRAPONE, OR OSILODROSTAT. THESE MEDICATIONS CAN HELP LOWER CORTISOL LEVELS AND, CONSEQUENTLY, AID IN WEIGHT MANAGEMENT.
- RADIATION THERAPY: RADIATION THERAPY MAY BE USED FOR PITUITARY TUMORS THAT CANNOT BE SURGICALLY REMOVED. THIS IS A SLOWER PROCESS BUT CAN HELP REDUCE ACTH PRODUCTION OVER TIME, LEADING TO LOWER

It's important to note that some medical treatments themselves can have side effects that impact weight. For instance, the transition from high-dose corticosteroids to lower doses or the management of hormonal changes post-treatment might initially cause fluctuations. Close collaboration with an endocrinologist is essential to manage these side effects and optimize the treatment plan for both hormonal control and weight loss.

LIFESTYLE MODIFICATIONS FOR SUSTAINABLE WEIGHT MANAGEMENT

BEYOND DIET AND EXERCISE, SEVERAL LIFESTYLE MODIFICATIONS CAN SIGNIFICANTLY CONTRIBUTE TO SUSTAINABLE WEIGHT LOSS AND OVERALL WELL-BEING FOR INDIVIDUALS WITH CUSHING'S. THESE CHANGES FOCUS ON CREATING HEALTHY HABITS THAT CAN BE MAINTAINED LONG-TERM.

CONSIDER INCORPORATING THESE LIFESTYLE ADJUSTMENTS:

- Stress Management Techniques: Chronic stress elevates cortisol levels, which can hinder weight loss. Practicing stress-reducing activities such as mindfulness meditation, deep breathing exercises, yoga, or engaging in hobbies can help manage stress and its hormonal impact.
- **PRIORITIZING SLEEP:** ADEQUATE SLEEP IS CRUCIAL FOR HORMONAL BALANCE AND METABOLISM. AIM FOR 7-9 HOURS OF QUALITY SLEEP PER NIGHT. ESTABLISHING A REGULAR SLEEP SCHEDULE AND CREATING A RELAXING BEDTIME ROUTINE CAN IMPROVE SLEEP HYGIENE.
- MINDFUL EATING: PAY ATTENTION TO HUNGER AND FULLNESS CUES. EAT SLOWLY, SAVOR EACH BITE, AND AVOID DISTRACTIONS DURING MEALS. THIS CAN HELP PREVENT OVEREATING AND IMPROVE DIGESTION.
- REGULAR HEALTH MONITORING: CONSISTENT CHECK-UPS WITH HEALTHCARE PROVIDERS ARE VITAL TO MONITOR CORTISOL LEVELS, BLOOD PRESSURE, BLOOD SUGAR, AND OTHER HEALTH INDICATORS. EARLY DETECTION OF ANY CHANGES ALLOWS FOR TIMELY ADJUSTMENTS TO THE TREATMENT AND MANAGEMENT PLAN.
- Building a Support System: Connecting with family, friends, or support groups can provide emotional encouragement and practical advice. Sharing experiences with others facing similar challenges can be empowering.

These lifestyle modifications, when integrated into daily life, can create a supportive environment for weight loss and improve the body's ability to respond to other weight management strategies. Consistency is key, and small, sustainable changes are often more effective than drastic overhauls.

SEEKING PROFESSIONAL SUPPORT FOR CUSHING'S AND WEIGHT LOSS

EFFECTIVELY MANAGING WEIGHT WITH CUSHING'S DISEASE IS A COMPLEX JOURNEY THAT NECESSITATES A COLLABORATIVE AND MULTIDISCIPLINARY APPROACH. RELYING SOLELY ON SELF-MANAGEMENT CAN BE OVERWHELMING AND MAY NOT YIELD THE DESIRED RESULTS DUE TO THE INTRICATE HORMONAL NATURE OF THE CONDITION.

A COMPREHENSIVE CARE TEAM TYPICALLY INCLUDES:

• **ENDOCRINOLOGIST:** This specialist is crucial for diagnosing and managing Cushing's disease, overseeing medical treatments, and monitoring hormone levels.

- REGISTERED DIETITIAN/NUTRITIONIST: ESSENTIAL FOR DEVELOPING A PERSONALIZED DIETARY PLAN THAT ADDRESSES NUTRITIONAL NEEDS, CALORIE DEFICITS, AND THE SPECIFIC METABOLIC CHALLENGES POSED BY CUSHING'S.
- PHYSICAL THERAPIST OR EXERCISE PHYSIOLOGIST: CAN GUIDE THE CREATION OF A SAFE AND EFFECTIVE EXERCISE PROGRAM, CONSIDERING ANY MUSCLE WEAKNESS OR PHYSICAL LIMITATIONS.
- MENTAL HEALTH PROFESSIONAL: DEALING WITH A CHRONIC ILLNESS AND THE EMOTIONAL TOLL OF WEIGHT GAIN AND OTHER SYMPTOMS CAN BE CHALLENGING. A THERAPIST OR COUNSELOR CAN PROVIDE SUPPORT FOR MANAGING STRESS, ANXIETY, AND DEPRESSION.
- PRIMARY CARE PHYSICIAN: ACTS AS A CENTRAL POINT OF CONTACT, COORDINATING CARE AND MANAGING OTHER GENERAL HEALTH CONCERNS.

OPEN AND CONSISTENT COMMUNICATION WITHIN THIS TEAM IS VITAL. SHARING PROGRESS, CONCERNS, AND ANY NEW SYMPTOMS WITH YOUR HEALTHCARE PROVIDERS ENSURES THAT YOUR TREATMENT AND WEIGHT LOSS PLAN REMAINS ADAPTED TO YOUR EVOLVING NEEDS. REMEMBER THAT WEIGHT LOSS IN THE CONTEXT OF CUSHING'S IS A MARATHON, NOT A SPRINT, AND REQUIRES PATIENCE, PERSISTENCE, AND PROFESSIONAL GUIDANCE.

FREQUENTLY ASKED QUESTIONS

Q: How does Cushing's disease cause weight gain?

A: CUSHING'S DISEASE CAUSES WEIGHT GAIN PRIMARILY DUE TO PROLONGED EXPOSURE TO HIGH LEVELS OF CORTISOL.

CORTISOL PROMOTES FAT STORAGE, PARTICULARLY IN THE ABDOMINAL AREA, FACE, AND UPPER BACK. IT ALSO ALTERS

METABOLISM, INCREASING APPETITE AND CRAVINGS FOR HIGH-CALORIE FOODS, AND CAN LEAD TO MUSCLE BREAKDOWN, WHICH
FURTHER SLOWS METABOLISM.

Q: IS IT POSSIBLE TO LOSE WEIGHT WITH CUSHING'S DISEASE IF IT IS UNTREATED?

A: While some individuals might achieve minor weight loss through strict diet and exercise, it is extremely challenging and often unsustainable to lose significant weight with untreated Cushing's disease. The underlying hormonal imbalance actively promotes weight gain and hinders weight loss efforts. Treating the underlying cause of excess cortisol is the most effective first step.

Q: WHAT ARE THE MOST EFFECTIVE DIETARY APPROACHES FOR LOSING WEIGHT WITH CUSHING'S?

A: The most effective dietary approaches involve a balanced, nutrient-dense diet focusing on whole foods. This includes plenty of fruits, vegetables, lean proteins, and whole grains, while limiting refined sugars, processed foods, and excessive sodium. Controlled carbohydrate intake is also crucial, especially if blood sugar is elevated. Working with a registered dietitian is highly recommended.

Q: CAN EXERCISE HELP WITH WEIGHT LOSS IN CUSHING'S DISEASE?

A: YES, EXERCISE IS A CRUCIAL COMPONENT OF WEIGHT LOSS FOR INDIVIDUALS WITH CUSHING'S. IT HELPS BURN CALORIES, BUILD MUSCLE MASS (WHICH BOOSTS METABOLISM), IMPROVE CARDIOVASCULAR HEALTH, AND CAN HELP MANAGE MOOD AND STRESS. A COMBINATION OF CARDIOVASCULAR EXERCISE AND STRENGTH TRAINING, TAILORED TO INDIVIDUAL CAPACITY, IS BENEFICIAL.

Q: HOW QUICKLY CAN I EXPECT TO LOSE WEIGHT AFTER CUSHING'S DISEASE IS TREATED?

A: The rate of Weight Loss varies greatly among individuals and depends on the effectiveness of the treatment, the duration of the illness, and individual lifestyle changes. After successful treatment that normalizes cortisol levels, Weight Loss is possible, but it is usually a gradual process that can take months or even years. Patience and consistency are key.

Q: ARE THERE ANY SPECIFIC FOODS I SHOULD AVOID WHEN TRYING TO LOSE WEIGHT WITH CUSHING'S?

A: Individuals with Cushing's should generally avoid foods high in added sugars, refined carbohydrates, unhealthy fats, and excessive sodium. This includes sugary drinks, processed snacks, fast food, and heavily processed meats. It's also wise to limit foods that can contribute to fluid retention, such as those high in salt.

Q: WHAT ROLE DO MEDICATIONS PLAY IN WEIGHT LOSS FOR CUSHING'S PATIENTS?

A: Medications for Cushing's disease aim to reduce cortisol levels. By lowering cortisol, these medications can help reverse some of the metabolic effects that promote weight gain, making weight loss more achievable through diet and exercise. However, the medications themselves do not directly cause weight loss; they create a more favorable hormonal environment for it.

Q: How important is stress management for weight loss in Cushing's?

A: Stress management is extremely important. High stress levels can elevate cortisol, counteracting treatment efforts and promoting weight gain. Techniques like meditation, yoga, and mindfulness can help regulate cortisol levels and support weight loss goals.

How To Lose Weight With Cushings

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to their pets' health and well-being than ever before. And with good reason: Americans spend upward of \$10 billion annually on their canine companions. The Complete Healthy Dog Handbook is the one essential and truly readable book for these devoted dog owners. Surpassingly clear and complete, with more than 100 illustrations and diagrams, it covers everything from choosing the best dog to puppy care, nutrition, vaccines, behavior, first aid, and senior care, plus thorough discussions of more than 100 canine illnesses. Reflecting the latest advances in veterinary medicine, this edition offers up-to-the-minute advice on design dog breeds, pet food safety, homemade diets, changing vaccine protocols, new medications for allergies, car sickness, obesity, and heart disease, developments in surgery and cancer treatment, pet insurance, and more. With The Complete Healthy Dog Handbook, the vet is always in.

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The Simeons approach was defined to improve the aesthetic outcome of weight control with improvements in body contour. This book is more than mere dietary advice and it introduces important concepts concerning the impact of Metabolic Syndrome X and prepares a pathway for the increasing acceptance of laparoscopic bariatric surgery. It focuses upon new challenges that face modern recognition of recalcitrant obesity. - TV Taylor MD, Clinical Professor of Surgery, University of Texas and Baylor College of Medicine, Houston, Texas Many mature women have discovered the benefits of the HCG diet. There have been thousands of applications of this diet in the practice of integrative medicine in the past three years. This topic has emerged as controversial and is the subject of much misinformation on the world wide web. This book describes the putative benefits of HCG administration, the importance of the diagnosis and the management of Metabolic Syndrome X and it integrates approaches to the modern increasing practice of non-invasive bariatric surgical procedures. -Ester Mark MD, Anti-Aging Clinician and Women's Health Expert, Laguna Hills, California

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