Pacific Northwest Wellness Center, PLLC 230 Grant Road Suite B-2, East Wenatchee, WA 98802 Office: 509-888-6334; Fax: 509.436.0046

Office Visit Note

ElationHealth

67 yrs, 6 mo at the time of visit Seen by Karl Lambert, ARNP

Date of Encounter: 07/26/2024

Subjective

1. MCG report and interpretation

Objective

- Data: 07/17/2024 MCG Report 07/26/2024
 - Interpreter: Karl Lambert, ARNP
 - Category E (High Dysfunction)
 - Strong evidence for metabolic related acute and chronic small and large coronary artery vessel disease. There severe evidence for left-sided, both small and large vessel disease (LAD). There is no evidence for right-sided. There is mild evidence for congenital heart disease. There is no evidence for stiffening through the ventricular pathway or the metabolic pathway. There severe evidence for increased elasticity or softening noted through the metabolic pathway. Myocardial damage due to ischemia, 5/5.
 - There is no evidence for mitochondrial dysfunction.
 - There is early, developing rhythm disturbance potential showing up with with ventricular arrhythmias and incipient arrhythmia. This did not mean the actual presence of arrhythmias, but the potential for these developing or worsening.

Assessment

1. Myocarditis I51.4

- MCG is not diagnostic for myocarditis but certainly strongly suggestive for an inflammatory process to the heart. Micro clotting disease may be contributing to this. In comparing results, this is remain consistent.
- 2. Cardiomyopathy I42.9
 - Strong evidence for this certainly weighs more heavily on metabolic related, although need to consider other etiologies. Those differentials would include long covid and micro clotting disease. In comparing previous results, he certainly had worsening since the initial and no change since March, 24.

Plan

- Proc: Multifunction Cardiogram testing
 - Unlisted Cardiovascular Service or Procedure

Care Plan:

1. 1. Alcohol intake: limit alcohol intake to no more than 2 alcoholic drinks per week, with red dry wine being the preferred drink.

2. Metabolic factors: Labs - Reviewed and optimal

3. Gut microbiome improvement: Consider the following probiotic online and take 1 capsule daily:

https://www.silverfernbrand.com/products/ultimate-probiotic-supplement. Add this to what you are taking

4. Autoimmune markers: Labs - Consider CRP, Sed. Rate, RA Factor, ANA; CMV; EBV and western blot to rule out autoimmune disease and Lyme disease

5. Hyperlipidemia: Labs - Reviewed and noted

6. Hypertension: BP evaluation daily. Report if BP above 135/85.

7. Sleep: Consider sleep apnea testing in the future if indicated. This was not picked up on this MCG report or previous ones.

8. Genetic disorders - Certainly not picked up on this MCG, but noted on the 4/25/23 MCG

7/29/24, 9:49 AM

Arterosil and Vascanox or Berkely Nitric Oxide. take 1 capsule twice daily of each of these for the following benefits

- Support a healthy cardiovascular system*
- Support and maintain blood pressure in the normal range*
- Support healthy circulation*
- Nitric oxide production for vasodilation*
- ***Endothelial repair***

10. Consider optimization of hormones and see a bioidentical hormone specialist to look at testosterone. Thyroid is sub optimal and would look at optimizing your Free T3 and Free T4. Your TSH needs to be less than 1.0. Your Vitamin D needs to be 90++. Need to know your Estradiol levels as well along with your DHEA-S levels.

11. Consider Spiked protein ab levels and micro clot score.

12. Exercise: High-intensity exercise 6-7 days per week with a heart rate between 115 - 120 BPM. Please start at 15 minutes daily and gradually increase to 50 minutes. If you feel worsening of SOB, please stop and rest. Excessive fatigue and SOB might be due to myocarditis.

Those who get less than 20 minutes per day of physical activity have the highest risk of death. 60 continuous minutes per day equals a decreased risk of death by 57%; 100 continuous minutes per day equals a death risk decrease of 76%. To lose weight, 45 continuous minutes per day is necessary.

After age 30, exercise is mandatory.

13. Mediterranean Diet is recommended -

The key components of the Mediterranean diet include: • Eating whole grains, fruits, vegetables and plant-based fats every day. • Eating fish, poultry, eggs, beans and legumes weekly. • Eating only moderate portions of dairy. • Eating a limited amount of red meat. • Drinking a sensible amount of red wine. • Taking part in regular physical activity. • Drinking water or unsweetened tea every day. • Using fresh herbs and spices for flavoring. • Making mealtime a social gathering with family and friends.

You will find more information on Mediterranean Diet here: https://mcforms.mayo.edu/mc6800-mc6899/mc6815.pdf *** Additionally, a goal is to eat 25 grams of carbohydrates, or less every 4 hours. No not consume more than 25 grams in any given 4 hour period.

Intermittent fasting: Intermittent fasting protocol is EXTREMELY important. Minimal fast should be at least 16 hours in every 24-hour period. This fasting period should include sleep.

When you fast, you may drink black coffee and tea without added sugar, milk, creamer. Monkfruit and Stevia sweeteners are ok.

Best fasting protocol:

- Daily: 16-20 hour fast with a 4-6 hour window of food-consumption.
- Once weekly: 23 hour fast with a 1 hour window of food-consumption.

Consider purchasing a book by Dr. Jason Fung: "The Complete Guide to Fasting" for further insight and ideas.

Detoxification mutations: NAC, glutathione IV infusions 4-8 times per year or oral supplementation.

- 2. Repeat MCG in 3 months.
- 3. The benefits of Thyroid:
 - Benefits of thyroid, specifically T 3 at 4.4 or higher
 - a. Helps with reducing visceral fat and lowers cholesterol
 - b. Protects against cardiovascular disease.
 - c. Improves cognitive ability and reduces memory loss
 - d. Fatigue and weight gain
 - e. Improves bowel function

Internal Med News, 2004 December 15, Subclinical hypothyroidism is an independent risk factor for coronary heart disease. SCH as it is known is associated with increased total cholesterol and triglyceride levels. JAMA 2004 Dec 1: 292(21); 2600-2613; decreasing levels of Free T3 were associated with increased mortality and overall decline in global cognitive function.

Another article supported that low T3 levels are independently predictive of vertebral fractures in women older than 50 years.

The Thyroid-Cholesterol Connection. Prev Cardiol. 2001 Autumn; 4(4): 179-182 shows a relationship between decreased T3 and increased serum cholesterol. Even mild thyroid disease can affect the metabolism of cholesterol.

Ojamaa K. Thyroid Hormone Therapy of Cardiovascular Disease. CVR & R. 2002; 23:20-26 shows replacement doses of T3 sufficient to return serum levels to normal enhanced left ventricular function. Teitelbaum J. More Than Meets the Eye. Healthy Aging 2(5); 75-78. Accessed on FEb 20 2013. Thyroid treatment is more likely to decreased one's risk of heart disease by lowering cholesterol.

treatment is more likely to decreased one's risk of heart disease by lowering cholesterol. Asvold, Bjorn O., et al. "Thyrotropin levels and risk of fatal coronary heart disease: the HUNT study" Archives of Internal Medicine 18.8 (2008): 855-860

Rodondi, N., et al. Subclinical Hypothyroidism and the risk of coronary heart disease and mortality; JAMA 2010 Sept 22; 304 (12); 1365-74 THe Risk of CHD event and CHD mortality increased with higher TSH concentrations.

Obuobie, K., et al. Increased Central arterial stiffness in hypothyroidism; J. Clinical Endocrinology Metab; 2002 Oct 87*(10); 4662-6. Hypothyroidism is associated with increased cardiovascular risk by increasing augmentation of central aortic pressures and central arterial stiffness.

Yoong Joo Park, MD., et al. Subclinical Hypothyroidism Might Increase the risk of Transient Atrial Fibrillation After Coronary Artery Bypass Grafting. https://doi.org/10..1016/althovascular.2009.03.032 Liu, F. H., Hwang, J.S., et al,, 2018 Sublinical Hypothyroidism and metabolic risk factors association: A health examination based study in Northern Taiwan. Biomedical Journal, 41(1), 52-58. doi:20:2016/j.bj.2018.02.002

4. Multiple testosterone Grade II outcome based studies have shown only benefit of optimize testosterone.

Unfortunately, most of my peers have relied on observational or low grade studies on the benefits of testosterone. For example, the absolute risk reduction of a heart attack or stroke with the use of bio identical testosterone is 50% compared to the use of statins, only 2-3%.

- Testosterone offers numerous advantages:
 - It enhances overall well-being.
 - It contributes to an increase in lean muscle mass.
 - It aids in reducing cholesterol levels.
 - It promotes better skin tone and increases collagen production.
 - It accelerates healing processes.

 - It extends the quality of life by mitigating age-related diseases.
 It offers protection against cardiovascular diseases, diabetes, hypertension, and degenerative joint disease.
 - It bolsters cognitive functions, thereby reducing the risk of dementia.
 - It serves as a preventive measure and treatment for depression.
 - It reduces pro-inflammatory cytokines.
 - It curtails plaque formation.
 It enhances sexual function.
- 5. Benefits of DHEA-S
 - The Benefits of DHEA-S:
 - a. Reduces cardiovascular risk by reducing visceral fat
 - b. Stimulates the immune system, improves mood, decreases cholesterol
 - c. Improves memory, increases energy
 - d. Natural antidepressant
 - e. Anti-cancer properties by enhancing the immune system
 - f. It is an endocrine precursor to other hormones, prevents immuno-sensescence, loss of sleep,
 - osteoporosis, atherosclerosis
 - g. Reduces insulin requirement
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Signed electronically by Karl Lambert, ARNP on 07/26/2024 4:20 pm in ElectionHealth



