FREQUENTLY ASKED QUESTIONS

Here is a listing of the top questions from our clients. If you have additional questions, please feel free to contact our client services representatives at 844.838.3322.

Q1: WHAT IS HUMAN LONGEVITY, INC.
A: Human Longevity, Inc. (HLI), co-founded by J. Craig Venter, Ph.D., one of the scientists responsible for sequencing the first draft human genome, is the genomic-based, health intelligence company empowering proactive, personalized, predictive and preventative healthcare. HLI combines the largest database of genomic and phenotypic data with machine learning to drive discoveries and revolutionize the practice of medicine. HLI’s business focus includes the HLI Health Nucleus, a genomic powered clinical research center which uses whole genome sequence analysis, advanced medical imaging and innovative machine learning, along with curated personal health information, to deliver the most complete picture of individual health. For more information, please visit http://www.humanlongevity.com.

Q2: WHAT IS HEALTH NUCLEUS?
A: The Health Nucleus, our clinical research and discovery center, is the premier health intelligence platform integrating genomics and advanced clinical imaging, in a spa-like setting. Using our proprietary technology to identify actionable opportunities, we empower you and your physician to take control of your health by providing data that can guide your care allowing you to proactively plan for a long, healthy life.

Health Nucleus combines whole genome sequencing with non-contrast full-body magnetic resonance imaging (MRI) and other selected tests to provide a unique view of your health. Your cardiac health will be evaluated by way of CT calcium scoring (to predict risk of coronary disease), wireless rhythm monitoring (to check for arrhythmias) as well as structural examination (valves and pump function). In the standard clinical world, cardiac testing is often reserved for those with symptoms or risk factors. Our philosophy is to empower our clients with knowledge to proactively explore their health.

The Health Nucleus evaluation provides an unprecedented quantitative health assessment—resulting in 150 GB of personal data—designed to explore individual risks for cardiovascular disease, cancer, neurological disease and metabolic health status. We offer two membership products in the Health Nucleus—HNX which is our core assessment, and HNX Platinum which is our premium experience.
Q3: What’s included in the HNX membership offering?

A: Clients should expect their visit to take approximately 3-4 hours at our La Jolla facility, and will include the tests listed below. For brief breaks in your day, meals and snacks are provided in the comfort of your personal and private spa-like accommodations.

Here are the tests included in HNX Membership:

**Whole Genome Sequencing:** The Health Nucleus offers whole genome sequencing which leverages cutting-edge technology and analysis to examine all 3.2 billion base pairs of your genetic code. The type of information that you will receive from your whole genome report will include a list of medically significant findings, information about how your genetics can affect the metabolism of certain medications (pharmacogenomics), your genomic risk of common diseases as well as ancestry. A blood draw is required for WGS and you will receive your results within 4-6 weeks of your visit delivered by one of our clinicians.

**Whole Body MRI:** Our whole body MRI is a significant component of your Health Nucleus experience as it generates comprehensive images of your body and we have the most advanced MRI machines available today with unique software and tools to interpret those MRI images. The imaging data are both qualitative and quantitative and can be integrated with clinical and genetic biomarkers.

To enhance the power of our MRI technology, our team analyzes the imaging data with proprietary and specialized algorithms to provide valuable insights optimized to provide:

- Quantitative brain analysis which measures the volume of functional and anatomical regions of the brain including those associated with memory
- Detailed cardiac scan including heart structure and quantitative functional analysis
- Cardiac structure and function is either evaluated by cardiac MRI or ECHO
- A whole body scan that can detect some solid organ tumors
- Metabolic analysis, including body and liver fat measures

**Our MRI accomplishes three key examinations:**

1: **Cancer Detection:** Our whole body MRI exam scans for tumors of the head, neck, chest, abdomen and pelvis. We have capabilities to detect most solid organ tumors, including kidney, prostate, pancreas, uterine, ovarian, lung, brain just to name a few. Other tumors, such as colon as well as breast and skin cancer are not currently screened for in our exam. Our post-processing technology leverages diffusion weighted imaging which can help differentiate high-grade cancerous tumors from benign or low-grade lesions.

2: **Body Composition:** Precisely quantifies fat and muscle composition in order to better understand risk factors for metabolic syndrome, cardiovascular disease and diabetes. Liver fat and iron measurements are included in the whole-body MRI.

3: **Brain Structure and Vasculature:** Scans for tumors of the brain as well as imaging signs of vascular and Alzheimer’s dementia. Our non-contrast brain angiogram also examines the blood vessels of the brain to detect evidence of vessel narrowing and aneurysms and other vascular malformations.

**Duration:** 60-90 minutes.

**Core Labs:** Measures key risk markers for cardiovascular and metabolic diseases along with other important tests of organ function.

**Coronary Calcium Scoring (for those over 35 years old):** Non-Contrast Cardiac CT assesses coronary artery health through detecting the location and extent of calcified plaque in the walls of your coronary arteries. This can provide information about current cardiovascular risk.

**Duration:** 15-20 minutes.

**Electrocardiogram (EKG):** Measures the electrical activity of your heart and a point in time look at heart rate and rhythm.

**Duration:** 5-10 minutes.

**Wireless Heart Rhythm Monitoring:** Two-week mobile wireless recording of your heart rhythm that provides a continuous view across the range of your normal activities including sleep, exercise and daily routines. This can help detect rhythm disturbances.

**Duration:** 2-week monitor, worn and mailed back to us.
**Insulin Sensitivity Test:** Assesses insulin resistance to help identify the early stages of Type 2 diabetes.

**Balance Tracker:** This balance assessment quantitatively measures your postural sway based on center of pressure and quantifies your balance, including estimation of your risk of falls.

**Optional additional assessments:**

**Microbiome Analysis ($500):** Uses whole genome sequencing to identify the microorganisms in a stool sample. The microbiome plays a vital role in the development of the immune system and the digestion of specific foods, and it has been found to assist in the production of certain nutrients. While this is still a research tool, we believe in the potential for microbiome sequencing to provide a wealth of information about these bacteria and how they may impact health.

**Multi-Targeted Stool DNA Test ($550):** A colorectal cancer screening alternative.

**Q4: WHAT IS THE COST FOR THE HNX MEMBERSHIP?**
A: The HNX Membership is $4,950, with an optional $500 for microbiome testing and $550 for multi-targeted stool DNA testing. The yearly follow-up membership and testing fee is $2,950 and includes an Updated Genomics Report, Whole Body MRI, Insulin Sensitivity Test and Core Labs.

**Q5: WHAT IS INCLUDED IN THE HNX PLATINUM MEMBERSHIP?**
A: Clients should expect their visit to take approximately 6 hours at our La Jolla facility, and will include the tests listed below. For brief breaks in your day, meals and snacks are provided in the comfort of your personal and private spa-like accommodations.

**Here are the tests included in HNX Platinum Membership:**

**Whole Genome Sequencing:** The Health Nucleus offers whole genome sequencing which leverages cutting-edge technology and analysis to examine all 3.2 billion base pairs of your genetic code. The type of information that you will receive from your whole genome report will include a list of medically significant findings, information about how your genetics can affect the metabolism of certain medications (pharmacogenomics), your genomic risk of common diseases as well as ancestry. A blood draw is required for WGS and you will receive your results within 4-6 weeks of your visit delivered by one of our clinicians.

**Core Labs:** Measures key risk markers for cardiovascular and metabolic diseases along with other important tests of organ function.

**Comprehensive Labs:** Includes blood count, kidney and liver function tests, vitamin and hormone levels, a lipid panel, cancer tumor marker screening, heavy metal screening and blood sugar in addition to our Core Lab panel.

**Whole Body MRI:** Our whole body MRI is a significant component of your Health Nucleus experience as it generates comprehensive images of your body and we have the most advanced MRI machines available today with unique software and tools to interpret those MRI images. The imaging data are both qualitative and quantitative and can be integrated with clinical and genetic biomarkers.

To enhance the power of our MRI technology, our team analyzes the imaging data with proprietary and specialized algorithms to provide valuable insights optimized to provide:

- Quantitative brain analysis which measures the volume of functional and anatomical regions of the brain including those associated with memory
- Detailed cardiac scan including heart structure and quantitative functional analysis
  - Cardiac structure and function is either evaluated by cardiac MRI or ECHO
- A whole body scan that can detect some solid organ tumors
- Metabolic analysis, including body and liver fat measures
**Our MRI accomplishes three key examinations:**

**Cancer Detection:** Our whole-body MRI exam scans for tumors of the head, neck, chest, abdomen and pelvis. We have capabilities to detect most solid organ tumors, including kidney, prostate, pancreas, uterine, ovarian, lung, brain just to name a few. Other tumors, such as colon as well as breast and skin cancer are not currently screened for in our exam. Our post-processing technology leverages diffusion weighted imaging which can help differentiate high-grade cancerous tumors from benign or low-grade lesions.

**Body Composition:** Precisely quantifies fat and muscle composition in order to better understand risk factors for metabolic syndrome, cardiovascular disease and diabetes. Liver fat and iron measurements are included in the whole-body MRI.

**Brain Structure and Vasculature:** Scans for tumors of the brain as well as imaging signs of vascular and Alzheimer’s dementia. Our non-contrast brain angiogram also examines the blood vessels of the brain to detect evidence of vessel narrowing and aneurysms and other vascular malformations.

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**Wireless Heart Rhythm Monitoring:** Two-week mobile wireless recording of your heart rhythm that provides a continuous view across the range of your normal activities including sleep, exercise, and daily routines. This can identify abnormal cardiac rhythm (arrhythmia).

**Duration:** 2-week monitor, worn and mailed back to us

**Echocardiogram:** Evaluates the structure and pump function of your heart.

**Insulin Sensitivity Test:** Assesses insulin resistance to help identify the early stages of Type 2 diabetes.

**Global Health Assessment (Full Metabolomics):** This material measures 961 small chemical end products of biochemical reactions to better understand your chemical composition. A blood draw is required for this analysis.

**Balance Tracker:** This balance assessment quantitatively measures your postural sway based on center of pressure and quantifies your balance, including estimation of your risk of falls.

**Gait and Balance:** Quantitative analysis of gait and balance are performed as a component of physical and neurological function.

**DEXA:** Evaluates bone mineral density to understand fracture risk.

**Neurocognitive Testing:** Provides assessment of simple motor performance, attention, memory and executive function.

**Sleep Apnea Testing:** This mobile overnight test measures oxygen levels during sleep and can detect periods of low oxygen, providing a quantitative measure for your risk of sleep apnea.

**Microbiome Analysis:** Uses whole genome sequencing to identify the microorganisms in a stool sample. The microbiome plays a vital role in the development of the immune system and the digestion of specific foods, and it has been found to assist in the production of certain nutrients. While this is still a research tool, we believe in the potential for microbiome sequencing to provide a wealth of information about these bacteria and how they may impact health.

**Multi-Targeted Stool DNA Test:** A colorectal cancer screening alternative.
Q6: WHAT IS THE COST OF THE HNX PLATINUM EXPERIENCE?
A: It is $25,000 which includes initial membership fee, two years of follow up testing and a one-time onboarding fee. Membership fee for subsequent years is $6,000. Follow up testing includes:

- Updated Genomics Report
- Whole body MRI
- Comprehensive Labs
- Insulin Sensitivity Test
- Global Health Assessment (Full Metabolomics)
- Electrocardiogram (EKG)
- Balance Tracker
- Gait and Balance
- Neurocognitive Testing
- Microbiome Analysis

Q7: IS THERE A TIMEFRAME FOR CLIENTS TO COME BACK FOR THEIR REASSESSMENT?
A: Everyone must do their return visit no later than 12 months after their initial visit. Clients that visited prior to July 2017 will need to return by July 2018.

Q8: WHAT SHOULD I EXPECT WHEN GOING THROUGH THE MRI AS PART OF A HEALTH NUCLEUS EXPERIENCE?
A: The MRI is a multisensory experience and takes approximately 60-90 minutes, including breaks. You will be asked to lie flat with a series of “coils” placed around your head and body that help in generating high quality images. Headphones will be provided along with your choice of music, if this is your preference, as well as a series of soothing visuals from which to choose. Clients experience loud noises of varying pitch and duration, along with normal movement and vibration of the table. Due to the unique nature of this test, we ask clients who are or could be claustrophobic to bring oral sedation with them. This can be prescribed in advance of your visit by your primary care physician.

On site, our techs offer a series of calming techniques including aromatherapy and audio and video entertainment, designed to make you as comfortable as possible.

Q9: WHAT IMAGING ADVANCES ARE USED FOR THE WHOLE-BODY, BRAIN AND CARDIAC MRI SCAN AT THE HEALTH NUCLEUS?
A: The MRI scanners at the Health Nucleus are 3 Tesla (or 3T) with the latest hardware and software upgrades to enhance detection capabilities and reduce scan time. These MRI procedures are non-invasive, radiation free and do not use any contrast dye. This scan provides both qualitative and quantitative measures to establish your own personal baseline.

Our full-body, cardiac and brain MRI takes about 60—90 minutes in total. This would take two to three times that long with other MRI scanners using conventional protocols, coils and software and the images would not contain as much signal and have less spatial resolution.

In addition to using advanced MRI technology, our team analyzes the imaging data with proprietary and specialized algorithms to provide valuable insights optimized to provide:

- Quantitative brain analysis for signs of dementia and other brain disorders
- Detailed cardiac scan including heart structure and quantitative functional analysis
- A whole-body scan that can detect some solid organ tumors. This protocol uses advanced diffusion imaging based methods to differentiate high-grade cancerous tumors from benign or low-grade lesions.
- Metabolic analysis, including body and liver fat measures

Q10: HOW DOES A HEALTH NUCLEUS ASSESSMENT COMPARE TO AN ANNUAL OR EXECUTIVE PHYSICAL?
A: Health Nucleus focuses on early detection and prevention of diseases like cancer and cardiac disease, as well as metabolic and neurodegenerative diseases.

Testing as recommended by your primary care physician and the US Preventative Task Force including mammography, pap smears and colonoscopy are important components of prevention. Health Nucleus is not designed to replace your annual physical—but rather supplement your medical
Health Nucleus is the first health platform to integrate whole genome analysis with advanced, non-invasive MRI methods and other clinical testing to provide you with an expanded view of your current health. By integrating the findings from the Health Nucleus into your health planning, you and your physician may gain insights to better inform future physicals, tests and treatments informed by your specific areas of risks.

**Q11: WHAT ARE THE BENEFITS OF PARTICIPATION IN EITHER HNX MEMBERSHIP EXPERIENCE?**

**A:** By participating in a Health Nucleus assessment, you may benefit from the following:

- Early identification of disease risk or onset that may not have otherwise been discovered until development of symptoms. (Examples include identifying insulin resistance which can precede diabetes).
- Detection of some cancers, cardiovascular disease, neurodegeneration and neurovascular disease via our imaging and clinical tests
- Should a genetic variant associated with a preventable disease be identified in your genome, you may gain insight about lifestyle modifications or methods for early screening that could assist in prevention or identifying onset of the disease in the early, more treatable stage.
- Results of genetic data and information may be useful for other family members.
- A comprehensive cardiac assessment including Coronary Calcium Scoring (for clients over 35 years of age) which measures calcified plaque which can predict risk of coronary artery disease. HN X testing also includes a two-week wireless cardiac rhythm monitor and a core panel of laboratory tests to provide insight on early signals of disease risk factors.

**Q12: WHAT ARE THE STEPS FOR A HEALTH NUCLEUS ASSESSMENT?**

**A:** A Health Nucleus assessment includes the following steps:

- **Pre-Visit Consent Call:** We want you to be prepared for your visit, which includes understanding the clinical and research aspects of our program. You will be scheduled for a 30-minute consent call with one of our clinicians prior to your visit. The purpose of this call is to ensure that you understand your participation in the research study, as well as to inform you of what is included in the testing and results delivery. During this call, a member of our clinical team will explain what is included in your Whole Genome Sequencing report and you will have the opportunity to opt in or out of certain genomic results. You will also be asked questions that allow us to ensure that you are safe for the MRI portion of the testing. Following the call, you will receive an electronic copy of the consent form to review and sign via our secure portal.

- **Personal health and family survey:** To make your Health Nucleus experience the most relevant and provide you with personalized insights, we will ask you to complete a few health surveys. This allows us to best tailor the results of your assessment.

- **Health Nucleus Visit:** A week before your appointment, we will send you information so you can best prepare for your Health Nucleus assessment. Your Health Nucleus visit will take place at our clinic in La Jolla, California. On arrival at the Health Nucleus, one of our concierge team members will escort you to your private client suite. In your suite, we will review your schedule and escort you through the different assessments.

- **Review of Initial Results:** The initial review of your results will be scheduled 2-3 weeks of your appointment. In this meeting, we review the data from the imaging analysis, and any lab tests that were conducted for your assessment.

- **Integrated Health Report:** In approximately 4-6 weeks of your Health Nucleus visit, your complete Health Nucleus report session will be scheduled. At this time, our team of multidisciplinary specialists will have reviewed and assembled the data into a summary report where we consolidate your genomic

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findings with your phenotype data.

**Q13: WHAT INFORMATION WILL BE INCLUDED IN THE HEALTH NUCLEUS WHOLE GENOME SEQUENCING REPORT?**

A: The Health Nucleus Whole Genome report may include medically significant results, as well as other non-clinical information such as traits and ancestry. The Whole Genome report provides insights on your genetic risk for certain illnesses or diseases. Your genes are not the only deciding factor for whether or not you will develop certain diseases and their influence varies depending on the disease.

**Clinical Insights:**
The Health Nucleus Whole Genome Reports looks at known disease-associated genes, including:

- **ACMG 59:** This consists of a list of 59 important genes as defined by the American College of Medical Genetics and Genomics (ACMG). If mutations are found in these genes, they should be reported to individuals because of their potential high medical importance and actionability.
- **Disease Risks:** Identifies medically actionable genetic variants associated with significant current or future health risks across 70 complex diseases:
  - Cancer
  - Neurological
  - Cardiovascular and Metabolic
  - Immunologic, Renal, Respiratory, Hematologic and Rheumatologic
- **Pharmacogenomics:** Helps to predict your responses to 40+ medications, including differences in drug effectiveness and side effects.
- **Carrier Screening:** If you are planning a family, understand if you are a carrier of 242+ inherited conditions.

Health Traits/Risks—Provide you with your genetic risk assessment to understand if your DNA has variants that can increase or decrease your risk for different health conditions including the following:

- Human Leukocyte Antigen (HLA) Type: association with disease risk.
- Bone health (e.g. Bone mineral density, osteoarthritis)
- Cancer: inherited gene risk of known cancer-related genes (e.g. bladder, colorectal, esophageal, lung, melanoma, pancreatic, thyroid).
- Cardiovascular health (e.g. Hypertension, Coronary artery disease [CAD], stroke, atrial fibrillation)
- Connective tissue (Achilles tendinopathy)
- Food intolerance and allergy (e.g. Lactose intolerance, celiac, allergies [peanut, shellfish, eggs, milk, etc.])
- Infectious disease (e.g. Viral resistance)
- Inflammatory and autoimmunity disorders (e.g. Eczema, Rheumatoid arthritis, Systemic sclerosis, Inflammatory bowel disease [IBD])
- Men’s health (e.g. Prostate cancer)
- Mental health (e.g. Bipolar disorder, Major depressive disorder, Schizophrenia, Opioid addiction, risk seeking behavior, smoking behavior)
- Metabolic health (e.g. Thyroid-stimulating hormone level, Type 2 diabetes, lipid levels, Alcohol flush, caffeine, gout, insulin insensitivity, caffeine metabolism, vitamin deficiencies)
- Neurological (e.g. Alzheimer’s, Parkinson, Multiple sclerosis)
- Respiratory (e.g. Asthma, COPD)
- Sensory health (e.g. Exfoliation glaucoma, bitter taste perception, myopia, age-related macular degeneration)*
- Personal Insights
- Variant list: Provides overview of all genetic variants that make you unique and any associated public information.
- Ancestry: Learn about your family history and composition (Ancestral composition, maternal and paternal and Neanderthal)
- Lifestyle traits: learn about some of the genes thought to be associated with addictive behavior, taste perception, endurance potential, laser eye surgery risk etc.
- Traits and physical predictions: Predictions of personal traits including height, weight, eye color and skin color.

**Q14: WHAT’S THE DIFFERENCE BETWEEN HEALTH NUCLEUS WHOLE GENOME**
SEQUENCING AND OTHER DNA OR GENETIC TESTING?
A: Many DNA and genetic tests examine only small segments of DNA associated with ancestry, traits (e.g., eye color, earwax type, bitter taste perception) and disease risk. With these tests, you get information on a small targeted set of DNA changes, or variants.

Health Nucleus performs whole genome sequencing—over 6 billion letters of DNA with high accuracy, and then integrates these data with other clinical information. With the Health Nucleus Whole Genome report, you will receive information on a broad set of variants, including the common, rare and individually unique variations, and their associations with known traits and disease risks. This report will provide you with an analysis across a broad spectrum of health areas and may help identify risks and provide opportunities to take action to protect and improve your health.

Q15: WHAT IF I DON’T WANT TO KNOW IF I HAVE AN INHERITABLE DISEASE?
A: You can elect to waive the findings of inheritable diseases during the intake portion of your assessment. This includes Alzheimer’s as well as cancer risk.

Q16: HOW DOES HLI USE MY DATA?
A: Data that has been de-identified, meaning all identifying information such as name or date of birth are removed, may be used by HLI for research and may be shared with third parties for research purposes in an attempt to understand health and disease. HLI will NOT share your individual medical records with any third party without your express permission.

Q17: ARE THERE ANY RESTRICTIONS ON WHO CAN HAVE A HEALTH NUCLEUS ASSESSMENT?
• Our Health Nucleus research protocol is designed to provide whole genome and clinical results to adults 18 years and older. If you have a child that you would like to undergo genetic testing, please discuss this with their pediatrician, or a genetic counselor.
• To assure the safety of our clients, there are a few individuals you may not be suitable for a Health Nucleus assessment. Our clinical team is available to review and discuss any questions to ensure client safety and candidacy for participation.
  • Magnetic Resonance Imaging (MRI): employs a powerful magnetic field to create images. For that reason, clients with certain implanted devices, foreign bodies, pacemakers, cochlear or ocular implants are advised to avoid MRI scanning. If you have an implanted device, our clinical team would be happy to investigate if it is safe for MRI scanning.
  • Coronary Calcium Scoring: Due to the low likelihood of coronary artery disease in clients younger than age 35, we do not recommend Calcium Scoring in this population. While the dose of radiation from the CT scan is small, we feel that there is insufficient clinical justification in our clients <35.
  • Women who are pregnant are advised to delay Health Nucleus testing until after childbirth.
  • Clients with an acute medical illness are not considered ideal candidates for this testing. The Health Nucleus platform is for screening and assessing one’s risk for different diseases, as well as early signals of disease risk. This is not a diagnostic disease testing platform.

Q18: WHAT IF I HAVE A FAMILY HISTORY OF DISEASE, SUCH AS CANCER OR HEART DISEASE?
A: The Health Nucleus experience is designed for risk factor identification and early detection of disease. Health Nucleus focuses on early detection of cancer, metabolic diseases like diabetes, cardiovascular disease, and neurodegenerative disorders including Alzheimer’s. Health Nucleus can be an invaluable resource for staying a step ahead of diseases with a strong genetic component. With whole genome analysis, we can identify genetic variants that may increase or decrease your risk for different conditions and diseases. Combining these findings with the whole-body MRI scan can provide insights on your current health and uncover early signals of these diseases.

Q19: HOW DO MY RESULTS AFFECT MY FAMILY MEMBERS?
A: As is the case with any genetic testing, if you are at
risk for a disease, your family members may also have this same genetic risk. This could impact parents, siblings, children and other more distant family members.

Q20: HOW IS MY DOCTOR INCLUDED?
A: Our aim is to empower you and your physician to integrate your findings into your ongoing health plan. With your consent, we can include your personal physician in the results sessions, or our clinicians can review your results directly with your doctor.

Q21: WHAT IF MY DOCTOR DOESN'T HAVE THE TIME OR EXPERTISE TO PARTICIPATE?
A: The participation of your primary care physician, or other health specialist is helpful but not required. Our team will walk you through your results and your whole genome report and help you to understand them. We can also review your results with your physician to help him or her understand our findings.

Q22: WILL MY INSURANCE BE ACCEPTED?
A: Health Nucleus services are not covered by health insurance plans.

Q23: CAN I USE MY HEALTHCARE SAVINGS ACCOUNT (HSA) TO PAY FOR A HEALTH NUCLEUS ASSESSMENT?
A: Please consult your tax professional to understand if your HSA can be used to pay for your Health Nucleus assessment.

Here are a few links on covered expenses for HSAs:

Q24: HOW IS MY PRIVACY AND DATA PROTECTED?
A: We take our clients’ privacy and security very seriously. To protect the privacy of our clients, we implement strict security controls to safeguard your data, and to help ensure that your information will not be available to a third-party without your authorization. We have adopted a Privacy [Int. Contextual URL: 0.8—Linked Copy: Privacy] and Compliance Program to assure our compliance with Federal regulations and state laws governing patient privacy and health information security.

We will only provide the results of your Health Nucleus assessment to you and your physician (if authorized by you), unless you request us to provide it to another healthcare provider. We will not provide the information to your employer, any insurance providers nor to any other healthcare provider without your explicit authorization.

Q25: Q: MY DOCTOR SAYS THAT I'M HEALTHY AND THAT I DON'T NEED TO BE DOING UNNECESSARY SCREENING, THAT COULD THEN RESULT IN FURTHER UNNECESSARY TESTING CAUSING FINANCIAL AND PHYSICAL GRIEF. HOW IS THE HEALTH NUCLEUS APPROACH DIFFERENT?
A: This is a valid concern.

The Health Nucleus’ integrated approach is different to ensure a more accurate, personal assessment.

First, our team implements a series of proprietary post-process analyses that uncover cancer, neurological, metabolic and cardiovascular diseases at their earliest stages pre-symptomatically when they are most treatable. To date, our team has had no false positives with this approach.

Second, the integration of our technology with genomics both qualitatively and quantitatively informs a more informed and detailed look at health risk, guiding the clinicians and scientists to better understand your health and make your results actionable for you.

Third, our MRI is a high resolution, radiation-free test that provides detailed images of your body without the use of IV contrast, which can cause nausea, to benefit your experience.
Q26: WHAT MAY I LEARN FROM MY HEALTH NUCLEUS VISIT? WHAT HAVE BEEN SOME COMMON FINDINGS?

40% of our clients to date have left with medically significant findings or immediate actionable results. Other clients leave with guidance to optimize their current health. And almost all of our clients leave with a more complete sense of their health risk and current health status not available anywhere else. In terms of common findings to date:

- 1% with a new brain aneurysm identified. No false positives to date. Based on 600 clients.
- 2.5% with a new cancer identified, many high grade and early stage. No false positives to date. Based on 600 clients.
- 12% with CT calcium cores greater than 90%, indicating a high risk of a major adverse cardiac in the next 10 years. Half under the age of 60. Based on 103 clients.
- 23% with liver fat above 4%, mostly non-alcoholic fatty liver disease and associated with increased visceral abdominal fat. Based on initial evaluation of 209 clients.
- 24% have genetic evidence of an increased lifetime risk of Alzheimer’s Disease (positive for APOE e4). Of these 82% showed no imaging evidence of disease (NeuroQuant normal, HOC $\geq 0.8$). Based on initial evaluation of 209 clients.