

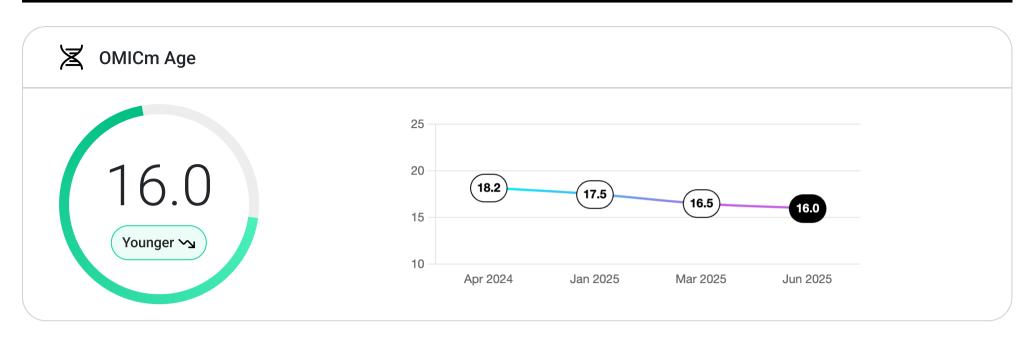
Advanced TruAge Report

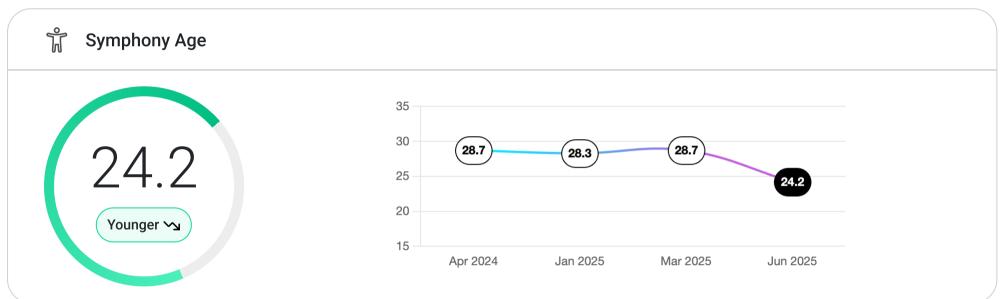
Jane Doe

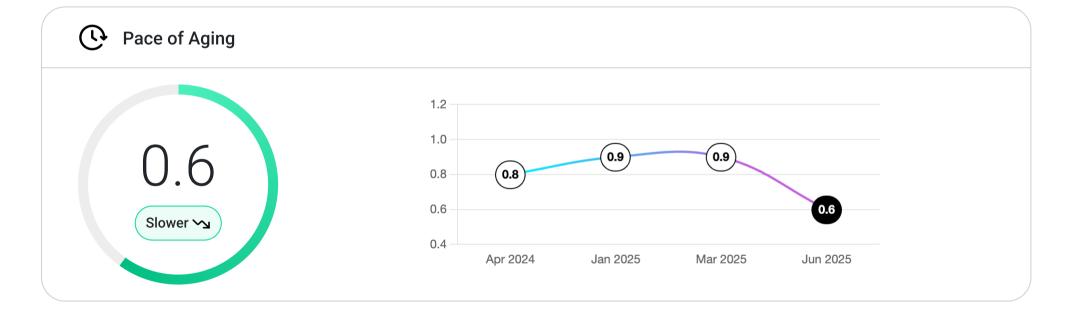
Age: 28 | Sex: Female

ID#: 2A3ALUD

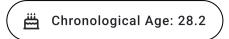
Collected: 05/05/2025 | Reported: 06/23/2025

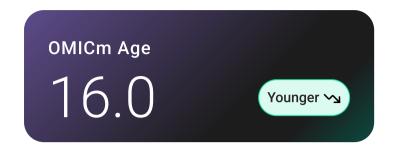






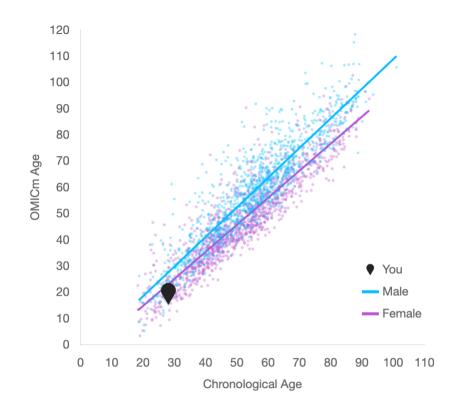
OMICm Age



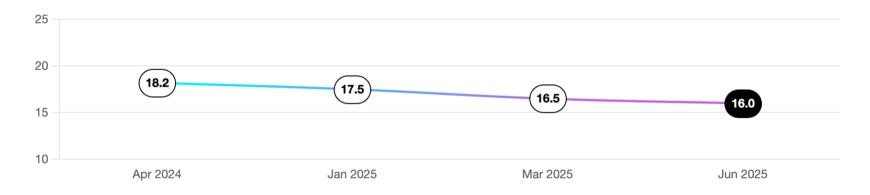


18.4%

Your OMICm Age is **lower** than 81.6% of people of the same age and sex.



Results Over Time

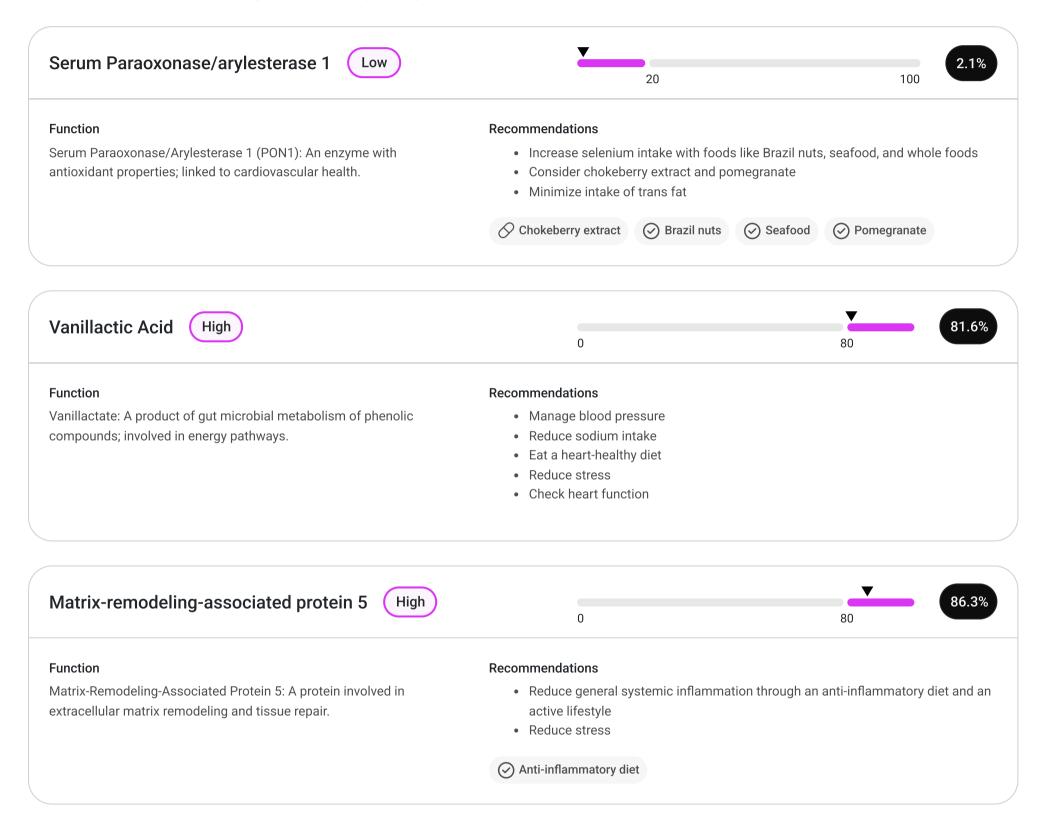


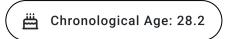
DISCLAIMER: The population graph and percentile for OMICm Age are based on observed and validated data patterns from an equal distribution of Harvard research participants and TruDiagnostic clients to emulate a population of average health.

Most Actionable Epigenetic Biomarkers

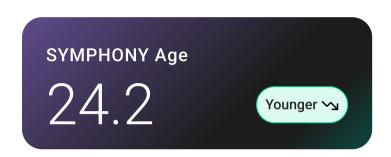
Epigenetic Biomarker (EBs) are compared against a balanced reference dataset composed of individuals from both the Harvard and TruDiagnostic cohorts. We identify individuals of the same sex and a similar age (within ±5 years) to create a personalized comparison group. Above the 80th percentile: Indicates your outcome is higher than 80% of individuals in the cohort. Below the 20th percentile: Indicates your outcome is lower than 80% of individuals in the cohort.

* Listed in order of impact on OMICm age. Find the rest of your Epigenetic Biomarkers at the end of the report



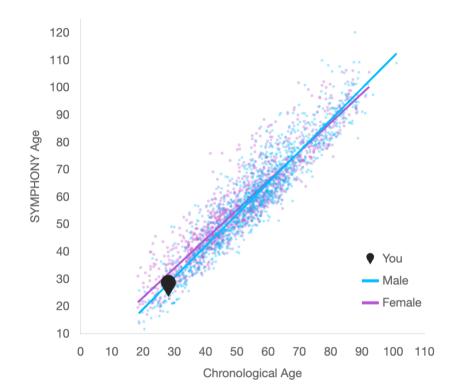


This advanced approach dives into the age of **11 distinct** organ systems.

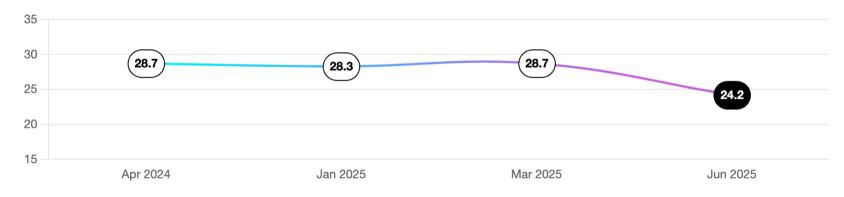


12.8%

Your SYMPHONY Age is **lower** than 87.2% of people of the same age and sex.



Results Over Time



DISCLAIMER: The population graph and percentile for SYMPHONY Age are based on observed and validated data patterns from an equal distribution of Harvard research participants and TruDiagnostic clients to emulate a population of average health.

Compare the age of **11 distinct organ systems** versus your chronological age



How was this clock created and designed?

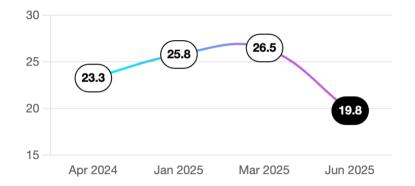
Many clocks have used blood based biomarkers and their changes as we get older to predict OMICm age. For SYMPHONY Age, the researchers did this with biomarkers which were specific for each organ system. While previous clocks (like PhenoAge) did this with 9 blood markers, SYMPHONY Age incorporates 133 biomarkers for training to develop this clock. In addition to having a large and detailed number of clinical datapoints, this study is also one of the largest for clock development with approximately 8,000 participants. Together, this gives us an incredibly robust clock associated with organ specific clinical biomarkers which is highly predictive of aging outcomes.

Systems Related Biomarkers



Blood

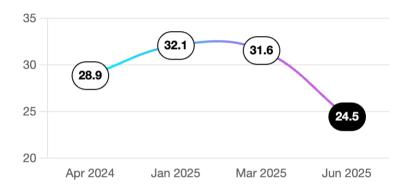
Biomarkers: Ferritin, Hematocrit, Hemoglobin, Mean Corpuscular Hemoglobin, Mean Corpuscular Hemoglobin Conc, Mean Corpuscular Volume, Mean Platelet Volume, Platelet Distribution width, Platelet Count, Red Blood Cell Count, Red Cell Distribution Width





Brain

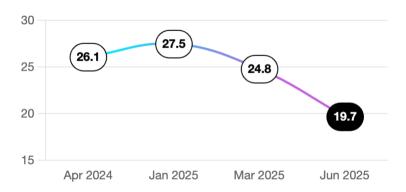
Biomarkers: Homocysteine, BDNF (serum), Clusterin, Stroke, Total mental status summary score, Total cognition summary score, Immediate word recall, Delayed word recall, Total word recall summary score, Serial 7s





Inflammation

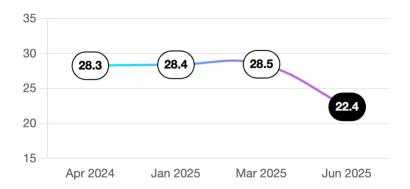
Biomarkers: Ferritin, C-Reactive Protein, Transforming Growth Factor Beta, Interleukin 10, Interleukin 1 Receptor Antagonist, Interleukin 6, Tumor Necrosis Factor Receptor 1





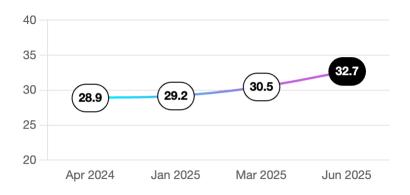
Heart

Biomarkers: Shortness of breath while awake, PCcomponents of Grimage, Previous High Blood Pressure, Previous Heart Attack, Previous Stroke, Homocysteine, BMI





Biomarkers: IGF-1, DHEAS

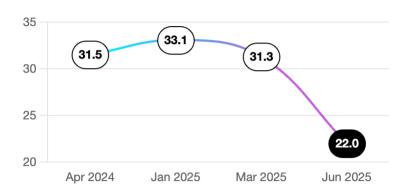




Immune

Biomarkers: Eosinophil Count, Lymphocyte Count, Monocyte Count, Neutrophil Count, Percent Basophils, Percent Eosinophils, Percent Lymphocytes, Percent Monocytes, White Blood Cell Count, Myeloid Dendritic cells (DC-M) Percentage, Plasmacytoid, Dendritic Cells (DC-P) Percentage, NK Cells: CD56HI Percentage, NK Cells: CD56LO Percentage, CD16- Monocytes Percentage, CD16+ Monocytes Percentage, B Cells Percentage, CD8+ T Cells: Central Memory (CM) Percentage, CD4+ T Cells: Central Memory (CM) Percentage, CD8+ T Cells Percentage, CD8+ T Cells: (TemRA) Percentage, CD4+ T Cells: (TemRA) Percentage, CD4+ T Cells: Percentage, CD4+ T Cells: Naïve Percentage, CD8+ T Cells: Naïve Percentage, CD4+ T Cells: Percentage, CD4+ T Cells: Effector Memory (Tem)

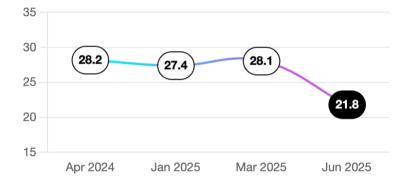
Percentage, CD4+ T Cells: Effector Memory (Tem) Percentage, Natural Killer (NK) Cells Percentage, Monocytes Percentage, Dendritic Cells Percentage



சு

អ្វីស្រ Kidney

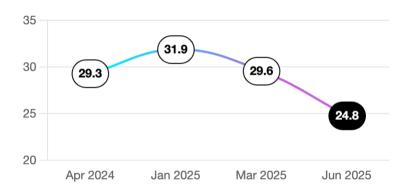
Biomarkers: Albumin, Urea Nitrogen, Chloride, Bicarbonate, Creatinine, Cystatin C, Potassium, Sodium



B

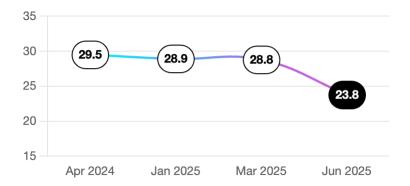
Liver

Biomarkers: Albumin, Alkaline Phosphatase, ALT, AST, Bilirubin, Total Protein





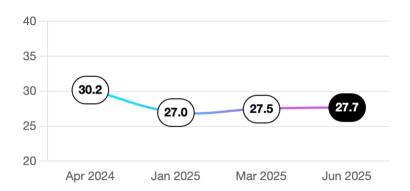
Biomarkers: PCSmoking-packyears, Previous Diabetes, C-Reactive Protein, Glucose-Fasting, HDL-Cholesterol, LDL-Cholesterol, Triglycerides, Interleukin-6, BMI, Waist circumference





Lung

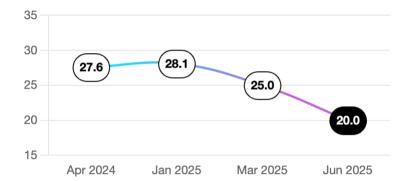
Biomarkers: Peak expiratory flow, bicarbonate, chronic lung disease, shortness of breath while awake, persistent wheezing, cough, or bringing up phlegm, PCSmoking-packyears





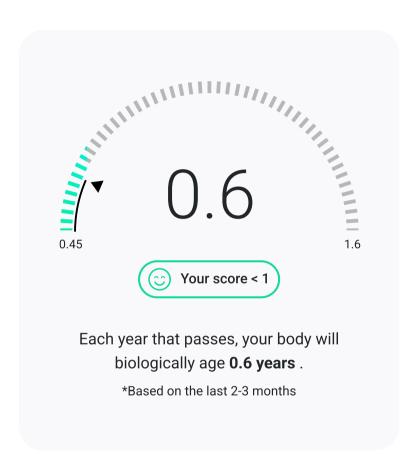
MusculoSkeletal

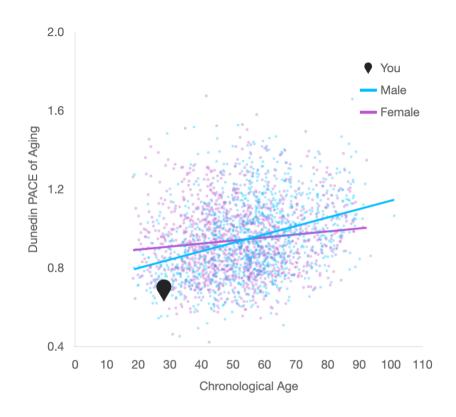
Biomarkers: Vitamin D3, Dehydroepiandrosterone sulphate, IGF-1, Arthritis, Height, Weight, BMI, some diff-mobility, hand grip strength maximum measurement, semi tandem balance test time, timed walk test time, hand grip strength-left hand hand grip strength-right hand, had back problems, some diff-stoop/kneel/crouch, diff-stoop/kneel/crouch, diff-walk one block, diff-walk sev blocks, some diff-walk one block, some diff-walk sev blocks, diff-climb sev flt stair, diff-climb one flt stair, some diff-clmb sev flt str, some diff-clmb 1 flt stair, diff-get up fr chair, some diff-get up fr chair, diff-reach/extnd arms up, some diff-rch/xtnd arms up, diff-lift/carry 10lbs, some diff-lift/carry 10lbs, side-by-side balance test time, full tandem balance test time, Sum of 7 different functional tests, Combination of all balance scores



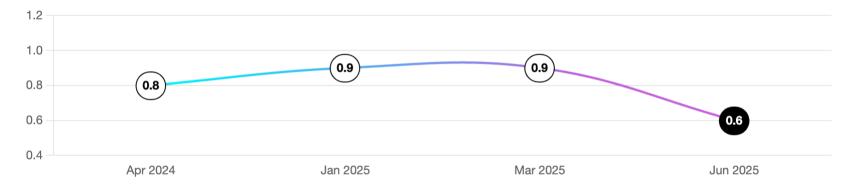
DunedinPACE of Aging

Your Rate of Aging will change based on your lifestyle interventions. Be sure to retest every 3 months to track your progress.





Results Over Time



DISCLAIMER: The population graph for DunedinPACE of Aging is based on observed and validated data patterns from an equal distribution of Harvard research participants and TruDiagnostic clients to emulate a population of average health.

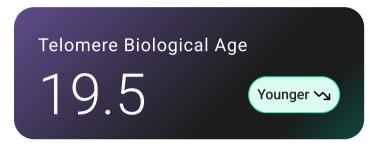
Immune Health



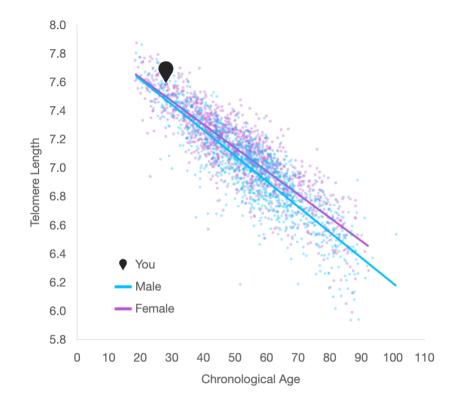
The Neutrophil-to-Lymphocyte Ratio (NLR) is obtained by dividing the number of neutrophils by the number of lymphocytes. During physiological stress, neutrophil count increases while lymphocyte count decreases. Physiological stress, driven by illness, inflammation, or psychological stress, can elevate NLR. Therefore, NLR elevation is not exclusive to infection or inflammation but can result from any form of physiological stress, including everyday stress and poor recovery or stress management.

Telomere Length

Shorter telomere length and low telomerase activity are correlated with several chronic preventable diseases.







Results Over Time



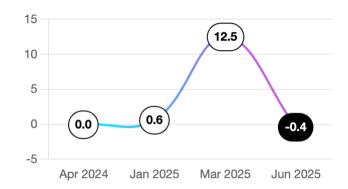
DISCLAIMER: Telomere length is mostly determined based on predetermined genetic function. The population graph is based on observed and validated data patterns from an equal distribution of Harvard research participants and TruDiagnostic clients to emulate a population of average health.

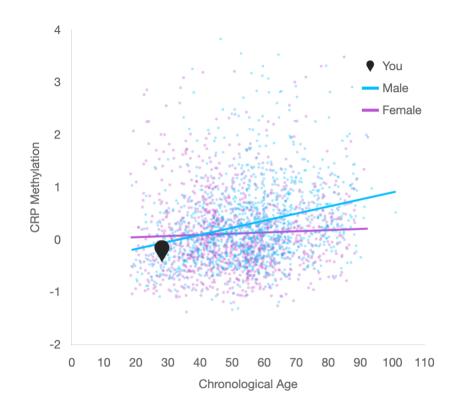
Inflammation

36.2% 😊

Your CRP methylation level is lower than 63.8% of the population at your same age and sex.

CRP is produced by the liver in response to acute inflammation. DNAm CRP has an inverse relationship with cognitive functions such as memory, speed, and visuospatial functions.



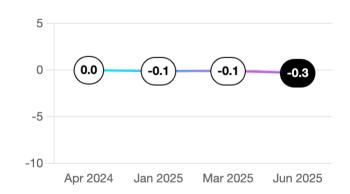


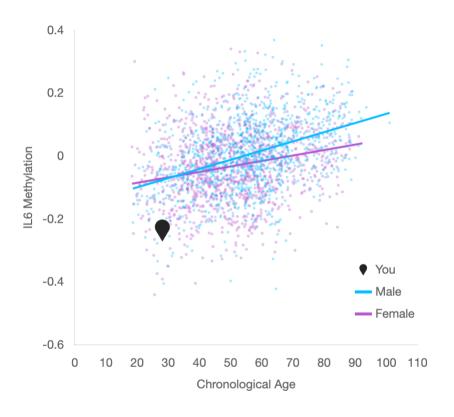
5.3% 😊



Your IL-6 methylation level is lower than 94.7% of the population at your same age and sex.

IL-6 is a widely used marker of inflammation and circulating levels of the cytokine typically rise in older age. DNAm IL-6 is positively associated with BMI, self-reported smoking status, and alcohol intake.





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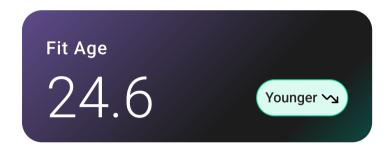
OMICm Fit Age



Tells you how old you are according to your physical fitness and functionality.

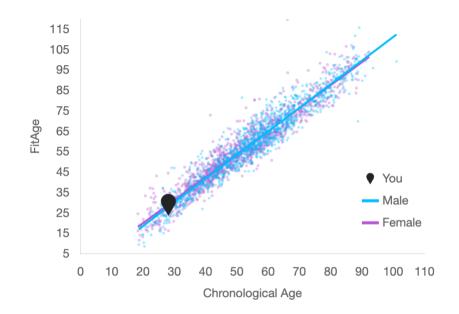
For every one year older OMICm FitAge is, there is an average 0.29 decrease in relative grip strength and 0.32 increase in BMI. OMICm FitAge has estimated that high-fit individuals (classified through VO2max) have a 1.5 to 2.0 younger OMICm age compared to low/medium fit individuals in females and males, respectively.

Younger OMICm FitAge was associated with better memory test performance, emphasizing the beneficial role of physical exercise on cognitive health.



-3.6 yr 😊

Your FitAge is lower by **3.6 years** compared to people your same age and sex.

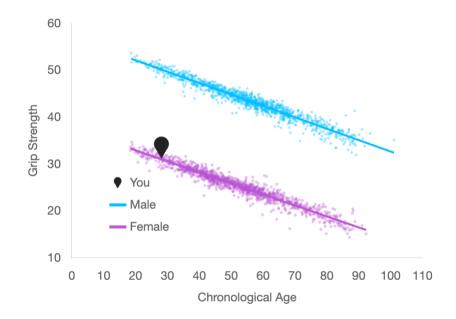


Grip Strength Percentile

74.8%



Your Grip Strength is higher than **74.8**% of people of the same age and sex.



DISCLAIMER: The population graph and percentile are based on observed and validated data patterns from an equal distribution of Harvard research participants and TruDiagnostic clients to emulate a population of average health. These are our least correlated clocks but can be used for most to gamify fitness.

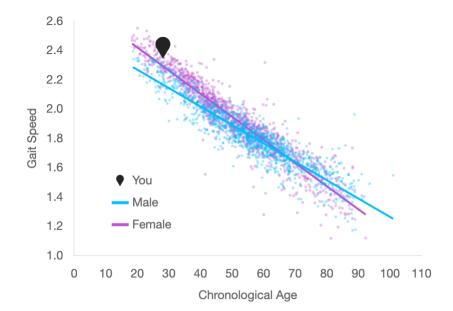
Gait Speed Percentile

76.7% 😊



Your Gait Speed is higher than 76.7% of people of the same age and sex.

Gait speed, also known as walking speed, is measured in meters per second.



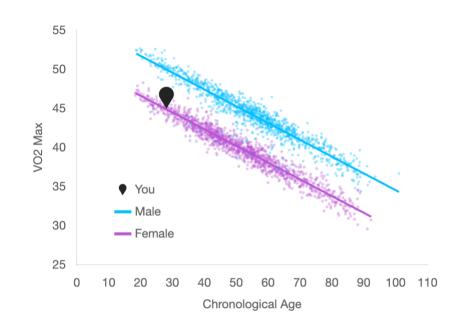
VO2 Max Percentile

67.8% 😊



Your VO2 Max is higher than 67.8% of people of the same age and sex.

Maximal oxygen uptake, or VO2max, is a measure of cardiovascular health and aerobic endurance.

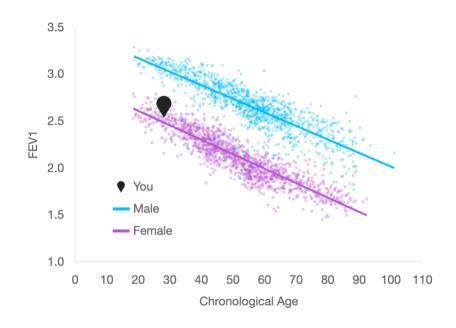


FEV1 Percentile



Your FEV1 is higher than 70.7% of people of the same age and sex.

Forced expiratory volume, also known as FEV1, measures lung function by determining the amount of air forced from the lungs in one second.

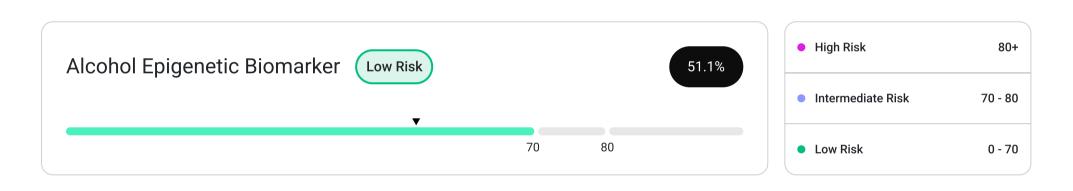


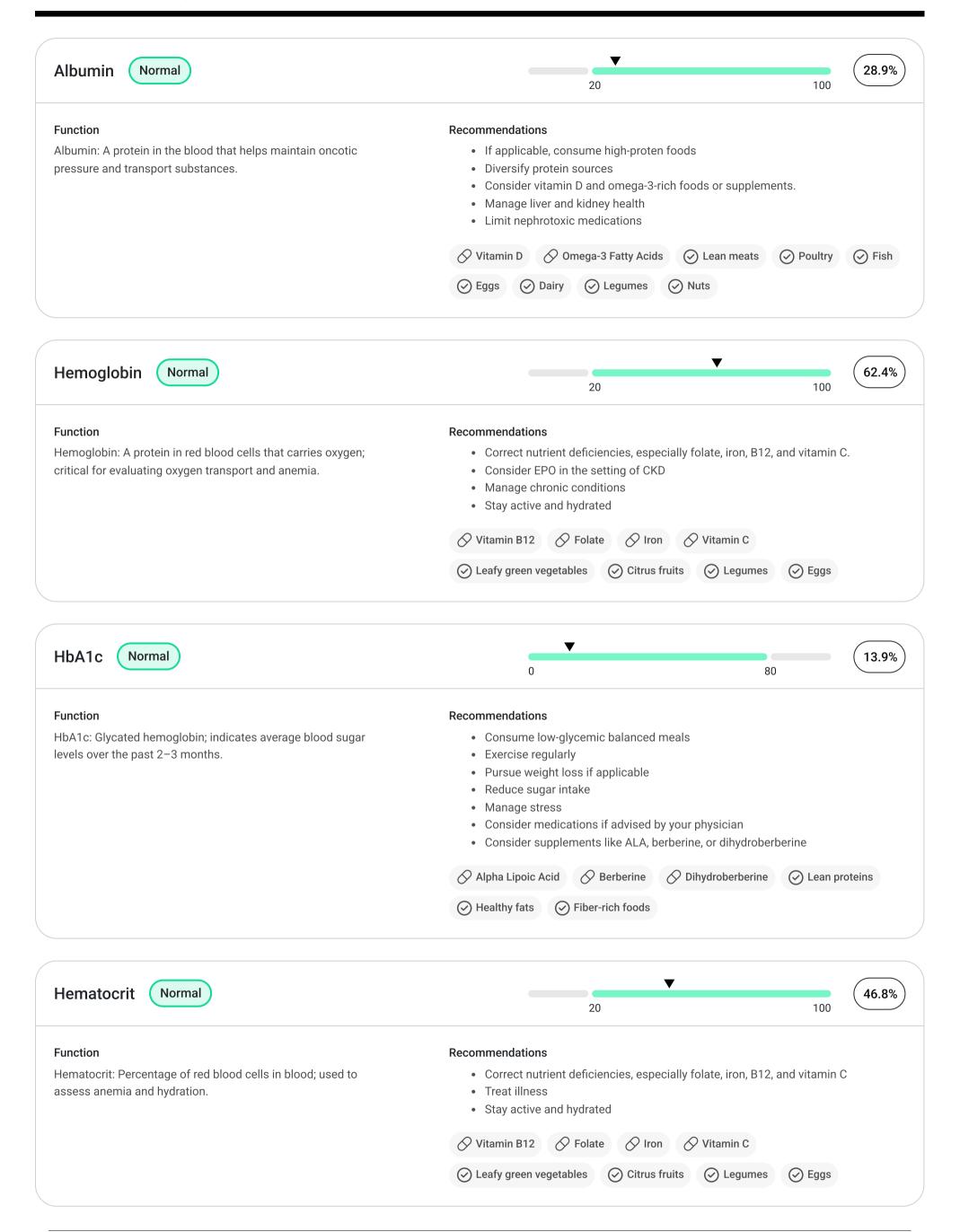
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Relative **Smoking Risk**



Relative Alcohol Risk





Blood Urea Nitrogen Normal 41.9% 0 **Function** Recommendations Hydrate regularly Blood Urea Nitrogen (BUN): Measures urea levels in the blood, indicating kidney function and protein metabolism. • If applicable, moderate protein intake · Manage any kidney or liver disease • Avoid nephrotoxic drugs **Alkaline Phosphatase** Normal 1.0% 80 **Function** Recommendations Alkaline Phosphatase: An enzyme found in the liver, bones, and · Correct Vitamin D deficiency other tissues; elevated levels indicate liver or bone issues. • Treat liver or bone disease if applicable · Eat a diet low in saturated fats Exercise regularly · Avoid alcohol and toxins Insulin-like Growth Factor-Binding Protein 2 **Normal** 46.3% 0 80 Recommendations Insulin-Like Growth Factor-Binding Protein 2 (IGFBP2): Regulates • Regularly practice calorie restriction under healthcare provider guidance insulin-like growth factor activity; linked to metabolism and • Engage in aerobic and resistance exercise to improve insulin sensitivity • Consume balanced meals aging. Manage stress • Reduce excessive protein intake • Improve sleep to support growth hormone function Carboxypeptidase B2 Normal 51.1% 20 Recommendations **Function** Carboxypeptidase B2: An enzyme involved in clot dissolution • Consume adequate protein and complement regulation. • Correct any nutrient deficiencies, especially vitamin K and omega-3 • Control inflammation through an anti-inflammatory diet and regular exercise Omega-3 Fatty Acid

