

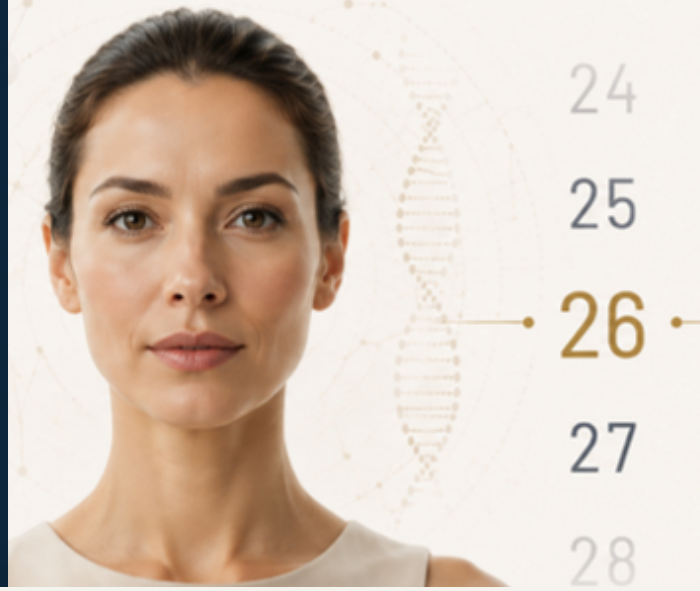


Biological Age Test

SystemAge™ is a blood-based epigenetic test that quantifies age-associated dysregulation in DNA methylation patterns. Rather than treating ageing as a uniform linear process, it evaluates biologically selected CpG sites and resolves the signal into organ- and system-specific ageing profiles.

AT A GLANCE

460+ selected CpG biomarkers
19 - 21 organ & physiological systems
Personalised action plan
Clinician dashboard



Biological ageing insights for healthcare professionals

Biological Noise

Quantifies dysregulation around homeostatically important methylation sites - a signal described as epigenetic or biological noise.

System-level ageing profiles

Separates ageing biology across 21 systems instead of collapsing the result into one whole-body number.

Rate of ageing

Contextualise biological age relative to chronological age at overall and system level.

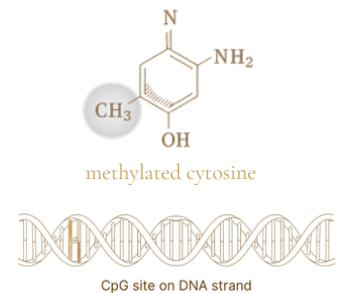
Non-linear ageing patterns

Uses system-specific ageing entropy curves to characterise non-linear patterns associated with biological ageing.

What SystemAge™ measures

SystemAge™ analyses DNA methylation at selected CpG sites associated with age-related epigenetic regulation and dysregulation.

Research led by Prof. Irina Conboy and colleagues has characterised age-associated increases in epigenetic variability, including the progressive loss of regulated methylation patterns described as epigenetic noise. SystemAge™ incorporates this signal through BioNoise™, a proprietary measure of age-associated epigenetic dysregulation.



SCIENTIFIC REFERENCES

Mei X, Blanchard J, Luellen C, Conboy MJ, Conboy IM. Fail-tests of DNA methylation clocks, and development of a noise barometer for measuring epigenetic pressure of aging and disease. *Aging*. 2023;15(17).
Skinner CM, Conboy MJ, Conboy IM. DNA methylation clocks struggle to distinguish inflammaging from healthy aging, but feature rectification improves coherence and enhances detection of inflammaging. *GeroScience*. 2025.

21 organ and physiological systems

• Brain Health & Cognition	• Digestive System	• Skeletal System
• Nervous System	• Hepatic System (Liver)	• Immune System
• Auditory System	• Blood Sugar & Insulin Control	• Mitochondria Health
• Cardiac System	• Urinary System	• Inflammatory Regulation
• Blood & Vascular System	• Metabolism	• Tissue Regeneration
• Respiratory System	• Skin Health	• Fibrosis / Scar Tissue Formation
• Male/Female Reproductive System	• Muscular System	• Oncogenesis / Cell Mutation

What your patients see

CLINICAL QUESTION

"Which biological systems show relatively higher or lower ageing-associated signals – and how does the profile change across repeat measurements over time?"

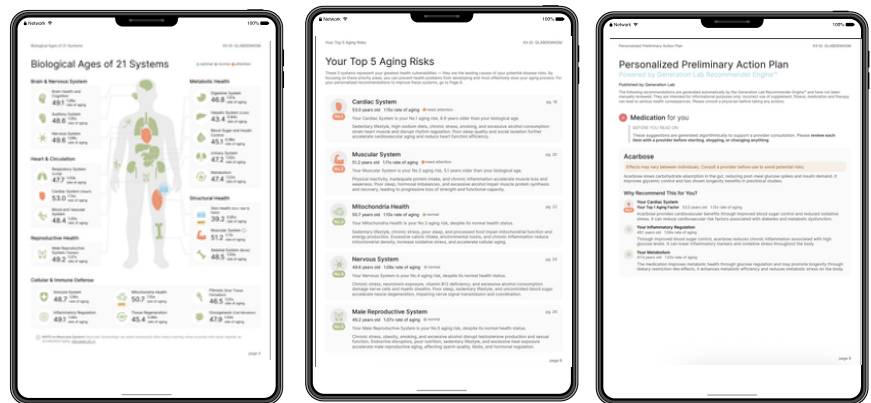


Patient report

The SystemAge™ report translates epigenetic ageing signals into a system-level profile, helping patients and healthcare professionals understand relative differences in ageing-associated patterns across biological systems and track changes across repeat assessments.

What the patient report includes

- Whole-body biological age and rate of ageing
- Biological age and ageing rate across 21 body systems
- System-specific ageing trajectories and entropy curves
- Identification of systems showing the highest relative ageing signals
- Longitudinal comparison to monitor biological change over time
- Preliminary personalised action plan for clinician review



The clinician dashboard

The provider environment connects patient management, sample tracking, report review and system-specific action planning in one clinical workflow.

- Manage: Register patients, kits and testing histories.
- Track: Follow samples from registration to report readiness.
- Review: Access SystemAge results and repeat assessments.
- Personalise: Review and customise system-specific action plans.



The dashboard supports a structured workflow for reviewing SystemAge™ results, comparing system-level profiles and tracking changes across repeat assessments. Clinicians may use these insights alongside other relevant clinical information when developing personalised health strategies.

Clinical note

SystemAge™ results are intended to provide information about biological ageing-associated epigenetic patterns and should be interpreted within the broader clinical context. Biological age, ageing-rate and system-level outputs are not diagnoses and should not be used independently to diagnose, prevent or treat disease, or to determine treatment efficacy. Results should be considered alongside relevant clinical assessments, established biomarkers and professional judgement. Product configuration, intended use, laboratory workflow and regulatory status may vary by market.

How it works

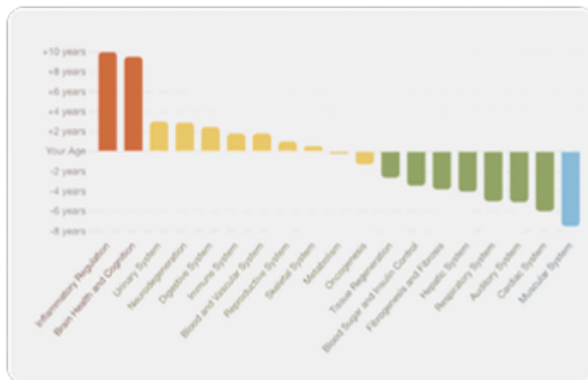
The clinical workflow

SystemAge™ can be completed using either an at-home collection kit or an in-clinic blood draw using standard lavender-top EDTA blood collection tubes.

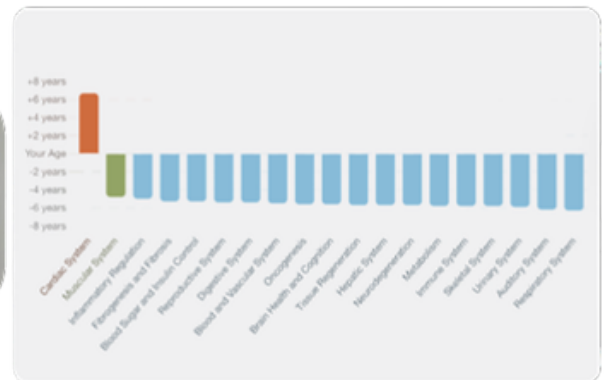


Monitoring biological change over time

Baseline

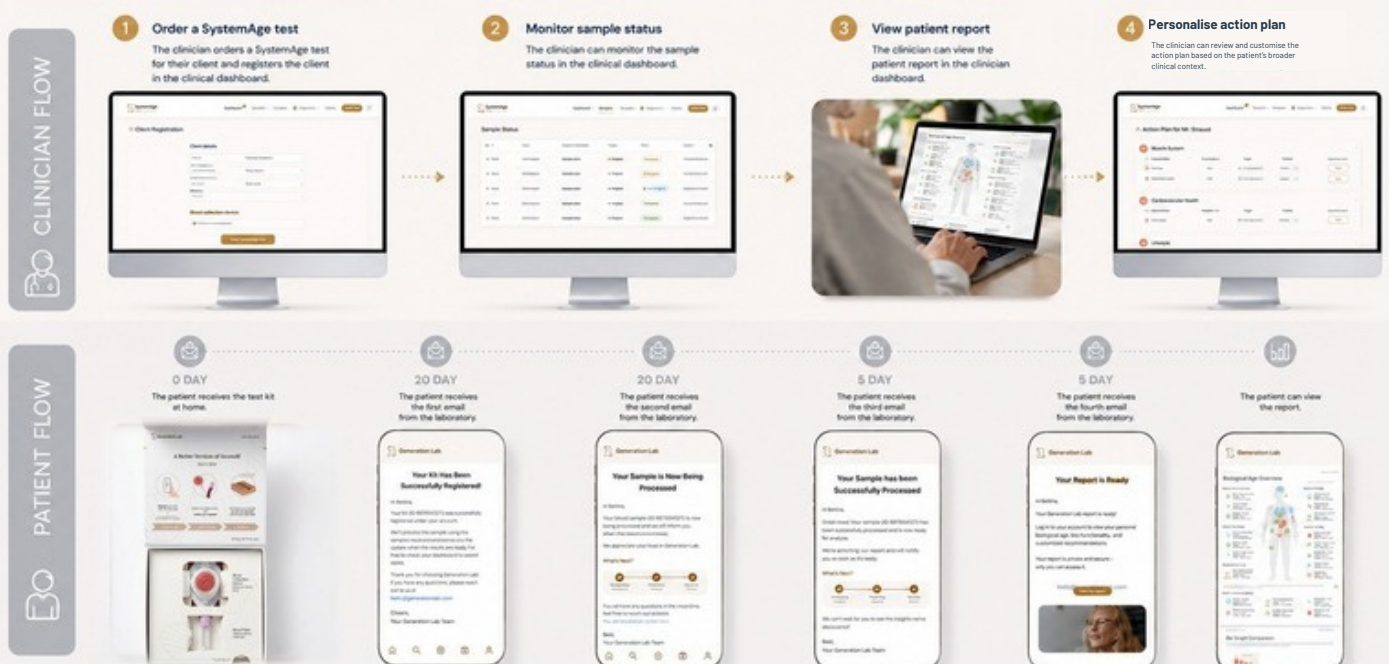


Follow-up



Repeat testing enables longitudinal comparison of epigenetic ageing profiles and may help characterise biological changes over time. Observed changes should not be interpreted independently as evidence of treatment efficacy.

The clinical flow



International & EU availability

SystemAge™ is the Generation Lab biological ageing test for international markets. For the European Union, Generation Lab plans to launch BioAge™ in August 2026, configured for the EU market with 19 body systems.

INTERNATIONAL MARKETS

SystemAge™

21 organ and physiological systems
System-level epigenetic ageing profiles
BioNoise™ and longitudinal comparison

EUROPEAN UNION

BioAge™

Planned Generation Lab EU launch: August 2026 19
body systems and physiological systems
System-level epigenetic ageing profiles BioNoise™
and longitudinal comparison
EU-specific product configuration and intended use

Laboratory analysis & quality framework

Samples are analysed within the Eurofins laboratory network using Generation Lab's custom DNA-methylation array design on an Illumina microarray platform. The applicable laboratory site, analytical scope and accreditation depend on the market and testing workflow.

QUALITY & ISO CERTIFICATIONS

- **ISO/IEC 17025** - accredited analytical and molecular testing methods within Eurofins Genomics.
- **ISO 13485** - quality-system requirements relevant to medical-device frameworks within Eurofins Genomics.
- **ISO 15189** - selected Eurofins Clinical Diagnostics laboratories are ISO 15189 and/or CAP accredited.
- **GLP / GCP / GMP** - relevant Eurofins businesses operate under these quality and good-practice frameworks depending on service, site and scope.

Accreditations apply to specific Eurofins entities, sites and accredited scopes; they should not be interpreted as meaning that every SystemAge™/BioAge™ analytical step is covered by every certification listed above.

Planning for EU access?

Contact the BioAgeDiagnostics team for launch timing, market availability, clinical workflow, sample logistics and the appropriate Generation Lab test configuration for your region.