

OrganAge-v4 AI Report

Subject: GTEx-1NV8Z

Model-Derived Aging Profile

Chronological age: 64.5 years

Composite biological age (weighted): 54.3 years

Composite delta (bio - chrono): -10.2 years

Composite z-score: -0.86

Organs included: 10

Organs with $|z| \geq 2$: 0

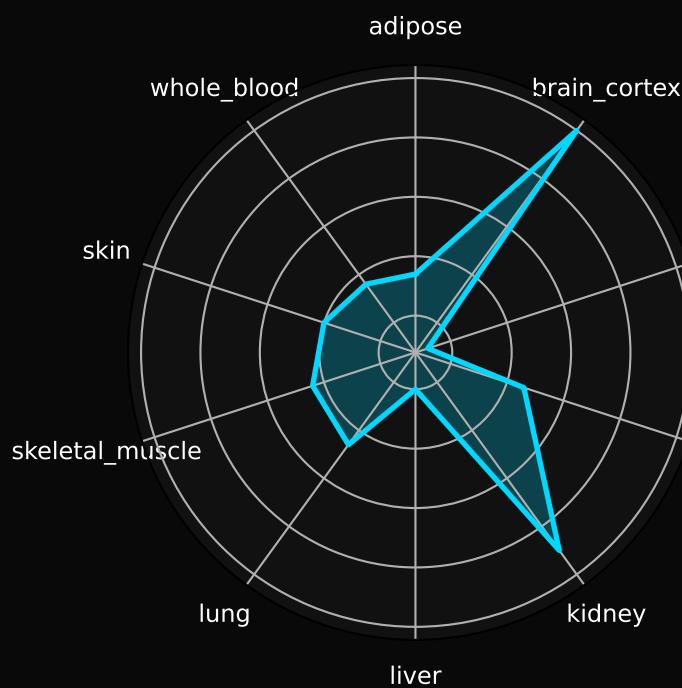
Mean $|\text{organ } z|$ (burden): 0.87

This composite biological age is computed from organ-specific cross-modal embeddings using a reliability-weighted fusion of transcriptomic (GTEx) and imaging-derived (IXI, CheXpert) models. Negative deltas indicate organs younger than expected for age.

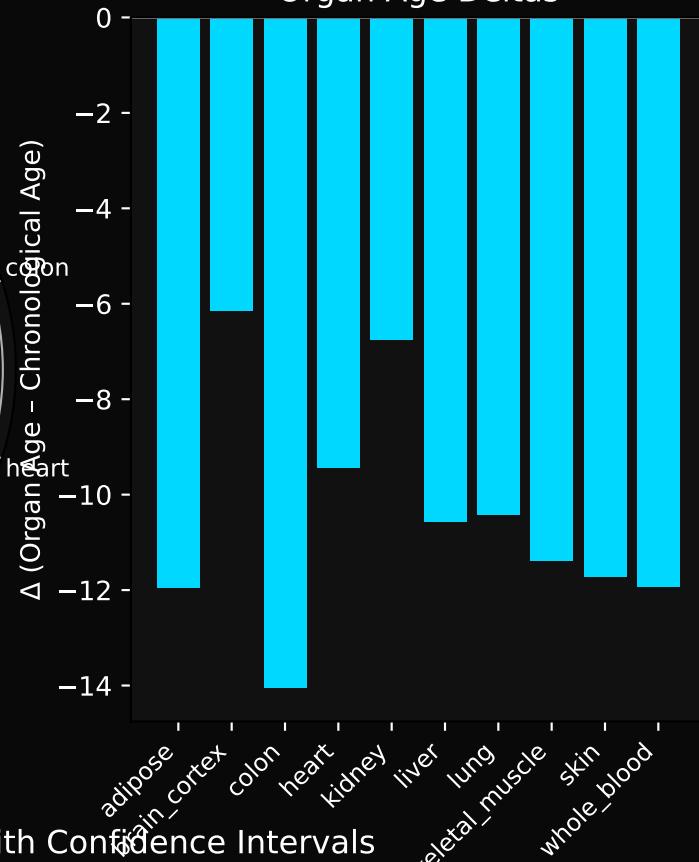
| organ | n_samples | age_chrono | age_pred_cal | age_delta_cal | zscore_cal | ci_lower | ci_upper |
|-----------------|-----------|------------|--------------|---------------|------------|----------|----------|
| adipose | 1 | 64.5 | 52.54 | -11.96 | -0.93 | 24.5 | 64.99 |
| brain_cortex | 1 | 64.5 | 58.36 | -6.14 | -0.6 | 36.58 | 74.04 |
| colon | 1 | 64.5 | 50.45 | -14.05 | -1.04 | 24.11 | 64.5 |
| heart | 2 | 64.5 | 55.07 | -9.43 | -0.87 | 33.6 | 65.35 |
| kidney | 1 | 64.5 | 57.74 | -6.76 | -0.65 | 36.02 | 73.23 |
| liver | 1 | 64.5 | 53.93 | -10.57 | -1.0 | 34.19 | 64.5 |
| lung | 1 | 64.5 | 54.07 | -10.43 | -0.87 | 26.47 | 66.48 |
| skeletal_muscle | 1 | 64.5 | 53.11 | -11.39 | -0.88 | 24.5 | 67.21 |
| skin | 2 | 64.5 | 52.78 | -11.72 | -0.9 | 24.5 | 64.5 |
| whole_blood | 1 | 64.5 | 52.56 | -11.94 | -0.92 | 24.04 | 66.3 |

OrganAge-v4 – Model Visualization for GTEx-1NV8Z

Organ Z-Scores (Calibrated)



Organ Age Deltas



Organ Ages with Confidence Intervals

