**Supplementary Materials:**

**Supplementary Table S1.** Multiple linear regression model of independent predictors for serum catestatin levels in total investigated population (enter algorithm).

| **Variable** | **β*** | **SE†** | **P** |
|---|---|---|---|
| Age (years) | 0.054 | 0.040 | 0.483 |
| Hashimoto thyroiditis | 1.819 | 0.830 | 0.030 |
| Body mass index (kg/m$^2$) | 0.009 | 0.090 | 0.928 |
| Systolic blood pressure (mmHg) | -0.026 | 0.032 | 0.410 |
| TSH (mIU/L) | 0.007 | 0.05 | 0.888 |
| anti-TPO (IU/mL) | 0.182 | 0.001 | 0.011 |
| hsCRP (mg/L) | 0.809 | 0.261 | 0.002 |
| AGEs | 5.400 | 1.745 | 0.002 |

**Abbreviations: AGEs**- Advanced Glycation End products; hsCRP- high sensitive C-reactive protein
***** standardized coefficient β
**†** standard error

**Supplementary Table S2.** Multiple linear regression model of independent predictors for serum catestatin levels in total investigated population (forward algorithm).

| **Variable** | **β*** | **SE†** | **P** |
|---|---|---|---|
| Age (years) | ns | ns | ns |
| Hashimoto thyroiditis | 1.802 | 0.758 | 0.018 |
| Body mass index (kg/m$^2$) | ns‡ | ns‡ | ns‡ |
| Systolic blood pressure (mmHg) | ns‡ | ns‡ | ns‡ |
| TSH (mIU/L) | ns‡ | ns‡ | ns‡ |
| anti-TPO (IU/mL) | 0.003 | 0.001 | 0.023 |
| hsCRP (mg/L) | 0.782 | 0.242 | 0.001 |
| AGEs | 3.949 | 0.628 | <0.001 |

**Abbreviations: AGEs**- Advanced Glycation End products; hsCRP- high sensitive C-reactive protein
***** standardized coefficient β
**†** standard error
‡ non-significant

**Supplementary Table S3.** Multiple linear regression model of independent predictors for AGE levels in total investigated population (enter algorithm).

| **Variable** | **β*** | **SE†** | **P** |
|---|---|---|---|
| Age (years) | 0.147 | 0.004 | 0.036 |
| Hashimoto thyroiditis | 1.419 | 0.597 | 0.019 |
| Body mass index (kg/m$^2$) | 0.062 | 0.009 | 0.387 |
| Systolic blood pressure (mmHg) | -0.031 | 0.003 | 0.650 |
| TSH (mIU/L) | 0.017 | 0.040 | 0.791 |
| anti-TPO (IU/mL) | 0.128 | 0.001 | 0.021 |
| hsCRP (mg/L) | 1.090 | 0.240 | <0.001 |
| Catestatin (ng/mL) | 0.038 | 0.006 | <0.001 |

**Abbreviations: AGEs**- Advanced Glycation End products; hsCRP- high sensitive C-reactive protein
***** standardized coefficient β
**†** standard error

**Supplementary Table S4.** Multiple linear regression model of independent predictors for AGE levels in total investigated population (forward algorithm).

| **Variable** | **β*** | **SE†** | **P** |
|---|---|---|---|
| Age (years) | 0.007 | 0.003 | 0.027 |
| Hashimoto thyroiditis | 0.226 | 0.07 | 0.003 |
| Body mass index (kg/m$^2$) | ns‡ | ns‡ | ns‡ |
| Systolic blood pressure (mmHg) | ns‡ | ns‡ | ns‡ |
| TSH (mIU/L) | ns‡ | ns‡ | ns‡ |
| anti-TPO (IU/mL) | 0.0002 | 0.001 | 0.046 |
| hsCRP (mg/L) | 0.078 | 0.026 | 0.003 |
| Catestatin (ng/mL) | 0.039 | 0.006 | <0.001 |

**Abbreviations: AGEs**- Advanced Glycation End products; hsCRP- high sensitive C-reactive protein
***** standardized coefficient β
**†** standard error
‡ non-significant