

## 10 LIST OF ABBREVIATIONS

|           |                                        |
|-----------|----------------------------------------|
| DNA       | Deoxyribunucleic acid                  |
| bp        | Base pairs                             |
| kb        | Kilo base pairs                        |
| T-loop    | Telomere loop                          |
| D-loop    | Displacement loop                      |
| TL        | Telomere length                        |
| RTL       | Relative telomere length               |
| PCR       | Polymerase chain reaction              |
| qPCR      | Quantitative polymerase chain reaction |
| T/S-ratio | Telomere/single copy gene ratio        |
| TRF       | Terminal restriction fragment          |
| TRF1      | Telomeric repeat binding factor 1      |
| TRF2      | Telomeric repeat binding factor 2      |
| TIN2      | TRF1-interacting nuclear factor 2      |
| POT1      | Protection of telomeres 1 protein      |
| TPP1      | POT1-binding partner                   |
| Rap1      | Repressor activator protein 1          |
| NHEJ      | Non-homologous end-joining             |
| HRR       | Homologous recombination repair        |
| RNA       | Ribunucleic acid                       |
| pRb       | Retinoblastoma protein                 |
| p16       | Cyclin-dependent kinase inhibitor 2A   |
| p21       | Cyclin-dependent kinase inhibitor 1    |
| p53       | Tumor suppressor protein 53            |
| TERC      | Telomerase RNA component               |

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|-----------|-------------------------------------------------------------------------|
| TERT      | Telomerase reverse transcriptase                                        |
| ALT       | Alternative lengthening of telomeres                                    |
| Q-FISH    | Quantitative fluorescence in situ hybridization                         |
| STELA     | Single telomere elongation length analysis                              |
| T/S-Ratio | Telomere/Single-copy-gene-Ratio                                         |
| Ct-value  | Cycle threshold value                                                   |
| r         | Correlation coefficient                                                 |
| p         | p-value                                                                 |
| N         | Number of samples                                                       |
| CV        | Coefficient of variation                                                |
| CI        | Confidence interval                                                     |
| CKD       | Chronic kidney disease                                                  |
| CVD       | Cardiovascular disease                                                  |
| CAD       | Coronary artery disease                                                 |
| PAD       | Peripheral arterial disease                                             |
| NT-proBNP | N-terminal pro-B-type natriuretic peptide                               |
| GFR       | Glomerular filtration rate                                              |
| HDL       | High-density lipoprotein                                                |
| CAVASIC   | CARDioVAScular disease in patients with Intermittent Claudication Study |
| CRISIS    | Chronic Renal Insufficiency Standards Implementation Study              |
| MMKD      | Mild to Moderate Kidney Disease Study                                   |
| GCKD      | German Chronic Kidney Disease Study                                     |