



THE TELOTEST FORMULA™

Patient report



Name — **Robert SmartChoices**
Date of birth — **10-15-1966**

Customer code — **TELO4106AA**
Doctor's name — **Doctor GX**
Reception date — **02-16-2022**
Date of the results — **02-16-2022**



PATIENT DATA

Demographic data on the patient

Gender —●— Male

Age —●— 55 years

Height —●— 5 ft 10 ins

Weight —●— 175 lbs

STRESS —●— Nothing

Throughout the day you have a physical activity —●— 60 min, high intensity, almost every day



Below you will find the laboratory results of the TeloTest™.



Average telomer length	2,70 kb
Real age	55 years
Estimated Biological age*	48 ± 1 years
Aging	-7



INTERPRETATION

Its biological age indicates that your body is very well at the cellular level. Maintain your lifestyle. Continue like this!
 You will find your ideal treatment in the following sections.

(*) The results should be taken as an approximation of the patient's aging status. This test should not be considered a pathological diagnosis and should be interpreted by a healthcare professional. The statistical models used to perform this test may be modified, over time, incorporating new scientific knowledge. It is for this reason that, although making every effort to incorporate all available knowledge, there may be publications that have not been reviewed or incorporated.

03 THERAPEUTIC RESULTS

Here is a list of the active ingredients and/or compounds that are the most beneficial for reducing the aging rate, depending on the length detected in the telomeres.

In addition, we also provide recommended formulas in order to provide an estimate of the best customized treatment.

API	Phytochemical	Antioxidant
· Metformin	· Oral Pomage	· Oral Coenzyme Q10
	· Silimarin	· Oral Astaxanthin
	· Pomage	· Astaxanthin
	· Oral Green Tea (GreenSelect)	
	· Pycnogenol (Pinus pinaster)	Aminoacid
	· Miodesin	· Acetilcystein (N-Acetyl L-Cystein)
	· Oral Ginkgo Biloba	
	· Pinetoinin	
Vitamine	Mineral	
· Colecalciferol (Vit. D3)	· SiliciuMax TM	
· Vitamin E		
· Vitamin C		
· Oral Vitamin C		
· Cianocobalamin (Vitamin B12)		
· Folic Acid (Vitamin B9)		

04

GENERAL RECOMMENDATIONS

ABOUT

Below you will find some general recommendations that can support the therapy to stop the reduction of telomeres.



Nutrition

- Eat more fruits (apples, pears ...), oatmeal, whole wheat and rice
- Incorporate anti-inflammatory foods (such as turmeric or dark chocolate) and nourishing antioxidants (such as garlic, broccoli or green tea) into your daily eating pattern.
- Increase the consumption of foods rich in omega-3s such as salmon, sole, cauliflower, etc.
- Reduce the amount of sodium (particularly present in cooking salt) because it inhibits the levels of adiponectin, a natural inflammation inhibitor.
- Reduce the amount of protein and excessive calorie intake to prevent premature aging.
- Take the recommended daily amount of vitamins B6, B12, folate, C and E. Low levels of B vitamins are closely associated with premature shortening of telomeres and an increased risk of developing age-related diseases; vitamins C and E are powerful antioxidants that preserve telomere length.



Lifestyle

- Get enough rest to prevent inflammatory processes.
- If you smoke or are a former smoker, it is important that you take supplements with resveratrol to protect against oxidative damage caused by tobacco smoke.
- Do moderate exercises every day to improve your respiratory capacity and increase your metabolism. This will have a positive effect on your health and a protective effect on the shortening of telomeres.

1. Ventura Marra M, Drazba MA, Holásková I, Belden WJ. Nutrition Risk is Associated with Leukocyte Telomere Length in Middle-Aged Men and Women with at Least One Risk Factor for Cardiovascular Disease. *Nutrients*. 2019 Feb 27;11(3). pii: E508. doi: 10.3390/nu11030508. PubMed PMID: 30818839; PubMed Central PMCID: PMC6471290.
2. Reichert S, Stier A. Does oxidative stress shorten telomeres in vivo? A review. *Biol Lett*. 2017 Dec;13(12). pii: 20170463. doi: 10.1098/rsbl.2017.0463. Review. PubMed PMID: 29212750; PubMed Central PMCID: PMC5746531.
3. Peng H, Mete M, Desale S, Fretts AM, Cole SA, Best LG, Lin J, Blackburn E, Lee ET, Howard BV, Zhao J. Leukocyte telomere length and ideal cardiovascular health in American Indians: the Strong Heart Family Study. *Eur J Epidemiol*. 2017 Jan;32(1):67-75. doi: 10.1007/s10654-016-0199-6. Epub 2016 Sep 22. PubMed PMID: 27660162; PubMed Central PMCID: PMC5618104.
4. Crous-Bou M, Fung TT, Prescott J, Julin B, Du M, Sun Q, Rexrode KM, Hu FB, De Vivo I. Mediterranean diet and telomere length in Nurses' Health Study: population based cohort study. *BMJ*. 2014 Dec 2;349:g6674. doi: 10.1136/bmj.g6674. PubMed PMID: 25467028; PubMed Central PMCID: PMC4252824.
5. Belsky DW, Caspi A, Houts R, Cohen HJ, Corcoran DL, Danese A, Harrington H, Israel S, Levine ME, Schaefer JD, Sugden K, Williams B, Yashin AI, Poulton R, Moffitt TE. Quantification of biological aging in young adults. *Proc Natl Acad Sci U S A*. 2015 Jul 28;112(30):E4104-10. doi: 10.1073/pnas.1506264112. Epub 2015 Jul 6. PubMed PMID: 26150497; PubMed Central PMCID: PMC4522793.
6. Sen A, Marsche G, Freudenberger P, Schallert M, Toeglhofer AM, Nagl C, Schmidt R, Launer LJ, Schmidt H. Association between higher plasma lutein, zeaxanthin, and vitamin C concentrations and longer telomere length: results of the Austrian Stroke Prevention Study. *J Am Geriatr Soc*. 2014 Feb;62(2):222-9. doi:10.1111/jgs.12644. Epub 2014 Jan 15. PubMed PMID: 24428184; PubMed Central PMCID: PMC4234001.
7. Valdes AM, Andrew T, Gardner JP, Kimura M, Oelsner E, Cherkas LF, Aviv A, Spector TD. Obesity, cigarette smoking, and telomere length in women. *Lancet*. 2005 Aug 20-26;366(9486):662-4. PubMed PMID: 16112303.
8. Bernardes de Jesus B, Schneeberger K, Vera E, Tejera A, Harley CB, Blasco MA. The telomerase activator TA-65 elongates short telomeres and increases health span of adult/old mice without increasing cancer incidence. *Aging Cell*. 2011 Aug;10(4):604-21. doi: 10.1111/j.1474-9726.2011.00700.x. Epub 2011 Apr 14. PubMed PMID: 21426483; PubMed Central PMCID: PMC3627294.
9. Richards JB, Valdes AM, Gardner JP, Paximadas D, Kimura M, Nessa A, Lu X, Surdulescu GL, Swaminathan R, Spector TD, Aviv A. Higher serum vitamin D concentrations are associated with longer leukocyte telomere length in women. *Am J Clin Nutr*. 2007 Nov;86(5):1420-5. PubMed PMID: 17991655; PubMed Central PMCID: PMC2196219.
10. Farzaneh-Far R, Lin J, Epel ES, Harris WS, Blackburn EH, Whooley MA. Association of marine omega-3 fatty acid levels with telomeric aging in patients with coronary heart disease. *JAMA*. 2010 Jan 20;303(3):250-7. Doi 10.1001/jama.2009.2008. PubMed PMID: 20085953; PubMed Central PMCID: PMC2819264.
11. Why are there associations between telomere length and behavior? M Bateson, D Nettle - *Phil. Trans. R. Soc. B*, 2018. Leucocyte telomere length and risk of cardiovascular disease: systematic review and meta-analysis PC Haycock, EE Heydon, S Kaptoge, AS Butterworth - *BMJ*, 2014.
12. Analysis of Telomere Length in Aging and Age-Related Illness. SM Connon, GP Einstein, OL Tulp - *The FASEB Journal*, 2017 Association of age, BMI and smoking habits with leukocyte telomere length dynamics. A.Müezzini 2015.
13. Diagnostic utility of telomere length testing in a hospital-based setting JK Alder, VS Hanumanthu, MA Strong. 2018 *National Acad Sciences*.

Together

we create the future of personalized medicine.

