## **Accepted Manuscript**

DHA-enriched fish oil upregulates cyclin-dependent kinase inhibitor 2A (P16<sup>INK</sup>) expression and downregulates telomerase activity without modulating effects of PPARγ Pro12Ala polymorphism in type 2 diabetic patients: A randomized, double-blind, placebo-controlled clinical trial

Omid Toupchian, PhD, Gity Sotoudeh, PhD, Anahita Mansoori, PhD, Shima Abdollahi, MSc, Seyyed Ali Keshavarz, PhD, Mahmoud Djalali, PhD, Ensieh Nasli-Esfahani, MD, Ehsan Alvandi, MSc, Reza Chahardoli, MSc, Fariba Koohdani, PhD



PII: S0261-5614(16)31348-6

DOI: 10.1016/j.clnu.2016.12.007

Reference: YCLNU 2997

To appear in: Clinical Nutrition

Received Date: 30 May 2016

Revised Date: 8 December 2016 Accepted Date: 8 December 2016

Please cite this article as: Toupchian O, Sotoudeh G, Mansoori A, Abdollahi S, Keshavarz SA, Djalali M, Nasli-Esfahani E, Alvandi E, Chahardoli R, Koohdani F, DHA-enriched fish oil upregulates cyclin-dependent kinase inhibitor 2A (P16 INK) expression and downregulates telomerase activity without modulating effects of PPARγ Pro12Ala polymorphism in type 2 diabetic patients: A randomized, double-blind, placebo-controlled clinical trial, *Clinical Nutrition* (2017), doi: 10.1016/j.clnu.2016.12.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## ACCEPTED MANUSCRIPT

1	DHA-enriched fish oil upregulates cyclin-dependent kinase inhibitor 2A
2	(P16 <sup>INK</sup> ) expression and downregulates telomerase activity without
3	modulating effects of PPARγ Pro12Ala polymorphism in type 2 diabetic
4	patients: A randomized, double-blind, placebo-controlled clinical trial
5	
6	
7	Authors: Omid Toupchian <sup>1</sup> (PhD), Gity Sotoudeh <sup>2*</sup> (PhD), Anahita Mansoori <sup>3,1</sup> (PhD),
8	Shima Abdollahi <sup>4</sup> (MSc), Seyyed Ali Keshavarz <sup>5</sup> (PhD), Mahmoud Djalali <sup>1</sup> (PhD), Ensieh
9	Nasli-Esfahani <sup>6</sup> (MD), Ehsan Alvandi <sup>1</sup> (MSc), Reza Chahardoli <sup>1</sup> (MSc), Fariba
10	Koohdani <sup>6,1*</sup> (PhD)
11	
12	
13	1: Department of Cellular and Molecular Nutrition, School of Nutritional Sciences and
14	Dietetics, Tehran University of Medical Sciences, Tehran, Iran
15	2: Department of Community Nutrition, School of Nutritional Sciences and Dietetics,
16	Tehran University of Medical Sciences, Tehran, Iran
17	3: Nutrition and Metabolic Diseases Research Center, Ahvaz Jundishapur University of
18	Medical Sciences, Ahvaz, Iran
19	4: Department of Nutrition, Faculty of Health, Shahid Sadoughi University of Medical
20	Sciences, Yazd, Iran
21	5: Clinical Nutrition Department, School of Nutritional Science and Dietetics, Tehran
22	University of Medical Sciences, Tehran, Iran
23	6: Diabetes Research Center, Endocrinology and Metabolism Clinical Sciences
24	Institute, Tehran University of Medical Sciences, Tehran, Iran Clinical Nutrition
25	
26	
27	* These two authors contributed equally to work
28 29	
30	Address all correspondence and requests for reprints to: Fariba Koohdani, Diabetes
31	Research Center, Endocrinology and Metabolism Clinical Sciences Institute, Tehran
32	University of Medical Sciences, Tehran, Iran

## Download English Version:

## https://daneshyari.com/en/article/8586880

Download Persian Version:

https://daneshyari.com/article/8586880

<u>Daneshyari.com</u>