

## Article

# The Impact of Kidney Transplantation on the Serum Fatty Acid Profile in Patients with End-Stage Kidney Disease

Maciej Śledziński <sup>1</sup>, Aleksandra Hliwa <sup>2</sup>, Justyna Gołębowska <sup>3</sup>, and Adriana Mika <sup>2,\*</sup>
<sup>1</sup> Department of General, Endocrine and Transplant Surgery, Faculty of Medicine, Medical University of Gdansk, 80-214 Gdansk, Poland; msledz@gumed.edu.pl

<sup>2</sup> Department of Pharmaceutical Biochemistry, Faculty of Pharmacy, Medical University of Gdansk, 80-211 Gdansk, Poland; aleksandra.hliwa@gumed.edu.pl, adriana.mika@gumed.edu.pl

<sup>3</sup> Department of Nephrology, Transplantology and Internal Medicine, Medical University of Gdansk, 80-211 Gdansk, Poland; jgolebowska@gumed.edu.pl

\* Correspondence: adriana.mika@gumed.edu.pl

**Supplementary Table S1.** Individual fatty acid content (%) in patient's serum before and 3 months after kidney transplantation. Values are mean  $\pm$  SEM.

	PreKTx	3m post KTx	p
10:0	0.010 $\pm$ 0.000	0.013 $\pm$ 0.001	0.333
12:0	0.21 $\pm$ 0.02	0.16 $\pm$ 0.01	0.048
14:0	1.27 $\pm$ 0.08	1.33 $\pm$ 0.09	0.591
16:0	22.5 $\pm$ 0.27	23.3 $\pm$ 0.29	0.025
18:0	7.28 $\pm$ 0.20	6.77 $\pm$ 0.20	0.041
20:0	0.11 $\pm$ 0.01	0.12 $\pm$ 0.01	0.077
22:0	0.20 $\pm$ 0.01	0.19 $\pm$ 0.01	0.456
24:0	0.22 $\pm$ 0.01	0.20 $\pm$ 0.01	0.159
26:0	0.030 $\pm$ 0.002	0.022 $\pm$ 0.002	0.006
28:0	0.027 $\pm$ 0.003	0.021 $\pm$ 0.002	0.207
30:0	0.025 $\pm$ 0.003	0.021 $\pm$ 0.001	0.337
32:0	0.012 $\pm$ 0.001	0.012 $\pm$ 0.001	1.000
11:0	0.009 $\pm$ 0.001	0.003 $\pm$ 0.001	0.058
13:0	0.013 $\pm$ 0.001	0.013 $\pm$ 0.001	0.676
15:0	0.34 $\pm$ 0.02	0.32 $\pm$ 0.01	0.348
17:0	0.31 $\pm$ 0.01	0.29 $\pm$ 0.01	0.086
19:0	0.020 $\pm$ 0.001	0.020 $\pm$ 0.001	1.000
21:0	0.018 $\pm$ 0.002	0.016 $\pm$ 0.001	0.303
23:0	0.068 $\pm$ 0.005	0.067 $\pm$ 0.004	0.906
25:0	0.051 $\pm$ 0.005	0.050 $\pm$ 0.010	0.890
14:1	0.061 $\pm$ 0.007	0.073 $\pm$ 0.009	0.273
16:1	3.31 $\pm$ 0.15	3.16 $\pm$ 0.15	0.136

18:1	28.0 ± 0.49	28.5 ± 0.54	0.342
19:1	0.014 ± 0.001	0.015 ± 0.001	0.689
20:1	0.14 ± 0.009	0.16 ± 0.008	0.016
22:1	0.019 ± 0.002	0.020 ± 0.002	0.594
24:1	0.27 ± 0.02	0.29 ± 0.02	0.262
16:2n-6	0.011 ± 0.004	0.012 ± 0.004	0.423
18:2n-6 (LA)	24.1 ± 3.89	25.4 ± 3.46	0.020
20:2n-6	0.12 ± 0.04	0.14 ± 0.04	0.123
20:3n-6 (DGLA)	1.20 ± 0.40	0.87 ± 0.32	<0.001
20:4n-6 (ARA)	6.33 ± 1.39	5.15 ± 1.07	<0.001
22:4n-6 (AdA)	0.16 ± 0.04	0.13 ± 0.04	<0.001
18:3n-3 (ALA)	0.29 ± 0.13	0.24 ± 0.16	0.094
20:4n-3 (ETA)	0.078 ± 0.023	0.061 ± 0.030	<0.001
20:5n-3 (EPA)	0.74 ± 0.25	0.73 ± 0.43	0.916
22:5n-3 (DPA)	0.44 ± 0.10	0.38 ± 0.079	0.007
22:6n-3 (DHA)	1.51 ± 0.51	1.24 ± 0.45	0.001

Pre KTx - just before kidney transplant surgery, 3m post KTx - 3 months after kidney transplantation. AdA-adrenic acid, ARA-arachidonic acid, BCFA-branched chain fatty acids, DGLA-dihomo-linolenic acid, DHA-docosahexaenoic acid, DI-desaturation index (18:1/18:0), DPA-docosapentaenoic acid, ECFA-even chain fatty acids, EPA-eicosapentaenoic acid, ETA-eicosatetraenoic acid, MUFA-monounsaturated fatty acids, OCFA-odd chain fatty acids, PUFA-polyunsaturated fatty acids, SFA-saturated fatty acids.