Supplementary data

High-throughput and high-sensitivity quantitative analysis of serum unsaturated fatty acids by chip-based nanoelectrospray ionization-Fourier transform ion cyclotron resonance mass spectrometry: early stage diagnostic biomarkers of pancreatic cancer

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Supplementary Table S1. Comparison of the theoretical and experimental m/z of FFAs.

FFAs	Theoretical value		Experimental value		m/z error
	m/z	Iso. Abu.(%)	*m/z*	Iso. Abu.(%)	
$C_{16:1}$	253.21730[M-H]$^-$	100	253.21742[M-H]$^-$	100	0.00012
	254.22072	17.715	254.22068	16.986	-0.00004
	255.22357	1.886	255.22372	1.893	0.00015
$C_{16:0}$	255.23295[M-H]$^-$	100	255.23297[M-H]$^-$	100	0.00002
	256.23637	17.738	256.23628	17.580	-0.00009
	257.23923	1.891	257.23948	1.026	0.00025
$C_{18:3}$	277.21730[M-H]$^-$	100	277.21721[M-H]$^-$	100	-0.00009
	278.22071	19.878	278.22080	19.410	0.00009
	279.22366	2.281	279.22374	3.731	0.00008
	280.22645	0.192	not detected	not detected	
$C_{18:2}$	279.23295[M-H]$^-$	100	279.23297[M-H]$^-$	100	0.00002
	280.23636	19.901	280.23643	18.598	0.00007
	281.23932	2.286	281.23936	2.445	0.00004
$C_{18:1}$	281.24860[M-H]$^-$	100	281.24835[M-H]$^-$	100	-0.00025
	282.25202	19.924	282.25207	18.733	0.00005
	283.25497	2.291	283.25478	3.181	-0.00019
	284.25776	0.193	284.25760	0.119	-0.00016
$C_{18:0}$	283.26425[M-H]$^-$	100	283.26417[M-H]$^-$	100	-0.00008
	284.26767	19.947	284.26746	19.134	-0.00021
	285.27063	2.295	285.27051	1.447	-0.00012
	286.27343	0.194	286.27336	0.123	-0.00007
$C_{20:4}$	303.23295[M-H]$^-$	100	303.23292[M-H]$^-$	100	-0.00003
	304.23636	22.064	304.23647	22.726	0.00011
	305.23938	2.728	305.23926	2.062	-0.00012
	306.24223	0.245	not detected	not detected	
$C_{22:6}$	327.23295[M-H]$^-$	100	327.23270[M-H]$^-$	100	-0.00025
	328.23635	24.227	328.23653	25.488	0.00018
	329.23943	3.217	not detected	not detected	
	330.24233	0.306	not detected	not detected	

Supplementary Table S2. Comparison of the FFAs levels between females and males in healthy controls using Mann-Whitney U test .

	P values
$C_{16:1}$	0.486
$C_{18:3}$	0.114
$C_{18:2}$	0.363
$C_{18:1}$	0.931
$C_{20:4}$	0.156
$C_{22:6}$	0.610
$C_{18:2}/C_{18:1}$	0.551
$C_{18:3}/C_{18:2}$	0.066
$C_{18:3}/C_{18:1}$	0.102

$P < 0.05$ was considered to be statistically significant.

Females: n=84, age: 58.6±11.9

Males: n=96, age:59.3±10.2

Supplementary Table S3. Comparison of the levels of the FFAs of healthy controls between different age groups.

Dependent Variable	group		Mean Difference	Std. Error	*P* values	95% Confidence Interval	
						Lower Bound	Upper Bound
$C_{16:1}$	1	2	-.2818220	.2255341	0.213	-.726538	.162894
		3	-.6831790*	.2042937	9.847E-4	-1.086013	-.280345
		4	-.5980622*	.2042937	0.004	-1.000896	-.195228
	2	1	.2818220	.2255341	0.213	-.162894	.726538
		3	-.4013571*	.1958184	0.042	-.787479	-.015235
		4	-.3162403	.1958184	0.108	-.702362	.069882
	3	1	.6831790*	.2042937	9.847E-4	.280345	1.086013
		2	.4013571*	.1958184	0.042	.015235	.787479
		4	.0851168	.1709244	0.619	-.251918	.422152
	4	1	.5980622*	.2042937	0.004	.195228	1.000896
		2	.3162403	.1958184	0.108	-.069882	.702362
		3	-.0851168	.1709244	0.619	-.422152	.251918
$C_{18:3}$	1	2	.4584856*	.2245114	0.042	.015786	.901185
		3	-.1814259	.2033673	0.373	-.582433	.219581
		4	.3699779	.2033673	0.070	-.031029	.770985
	2	1	-.4584856*	.2245114	0.042	-.901185	-.015786
		3	-.6399115*	.1949305	0.001	-1.024283	-.255541
		4	-.0885077	.1949305	0.650	-.472879	.295863
	3	1	.1814259	.2033673	0.373	-.219581	.582433
		2	.6399115*	.1949305	0.001	.255541	1.024283
		4	.5514038*	.1701493	0.001	.215897	.886910
	4	1	-.3699779	.2033673	0.070	-.770985	.031029
		2	.0885077	.1949305	0.650	-.295863	.472879
		3	-.5514038*	.1701493	0.001	-.886910	-.215897
$C_{18:2}$	1	2	.4021956	.2211950	0.071	-.033965	.838356
		3	-.4919586*	.2003632	0.015	-.887042	-.096875
		4	-.1379190	.2003632	0.492	-.533002	.257165
	2	1	-.4021956	.2211950	0.071	-.838356	.033965
		3	-.8941543*	.1920510	5.856E-6	-1.272848	-.515461

		4	-.5401146*	.1920510	0.005	-.918808	-.161421
	3	1	.4919586*	.2003632	0.015	.096875	.887042
		2	.8941543*	.1920510	5.856E-6	.515461	1.272848
		4	.3540397*	.1676359	0.036	.023489	.684590
	4	1	.1379190	.2003632	0.492	-.257165	.533002
		2	.5401146*	.1920510	0.005	.161421	.918808
		3	-.3540397*	.1676359	0.036	-.684590	-.023489
	1	2	.4751948*	.2248666	0.036	.031795	.918595
		3	-.2562805	.2036890	0.210	-.657922	.145361
		4	-.1346549	.2036890	0.509	-.536296	.266987
	2	1	-.4751948*	.2248666	0.036	-.918595	-.031795
		3	-.7314753*	.1952389	2.342E-4	-1.116454	-.346496
		4	-.6098497*	.1952389	0.002	-.994829	-.224871
$C_{18:1}$	3	1	.2562805	.2036890	0.210	-.145361	.657922
		2	.7314753*	.1952389	2.342E-4	.346496	1.116454
		4	.1216256	.1704185	0.476	-.214412	.457663
	4	1	.1346549	.2036890	0.509	-.266987	.536296
		2	.6098497*	.1952389	0.002	.224871	.994829
		3	-.1216256	.1704185	0.476	-.457663	.214412
	1	2	-.1271535	.2166923	0.558	-.554435	.300128
		3	-.9447908*	.1962845	2.912E-6	-1.331832	-.557750
		4	-.3458388	.1962845	0.080	-.732880	.041202
	2	1	.1271535	.2166923	0.558	-.300128	.554435
		3	-.8176373*	.1881416	2.201E-5	-1.188622	-.446653
		4	-.2186853	.1881416	0.246	-.589670	.152299
$C_{20:4}$	3	1	.9447908*	.1962845	2.912E-6	.557750	1.331832
		2	.8176373*	.1881416	2.201E-5	.446653	1.188622
		4	.5989520*	.1642234	3.378E-4	.275130	.922774
	4	1	.3458388	.1962845	0.080	-.041202	.732880
		2	.2186853	.1881416	0.246	-.152299	.589670
		3	-.5989520*	.1642234	3.378E-4	-.922774	-.275130
	1	2	.3548368	.2207710	0.110	-.080487	.790161
$C_{22:6}$		3	-.5093858*	.1999791	0.012	-.903712	-.115060
		4	.0652412	.1999791	0.745	-.329085	.459567

	2	1	-.3548368	.2207710	0.110	-.790161	.080487
		3	-.8642226*	.1916829	1.108E-5	-1.242190	-.486255
		4	-.2895956	.1916829	0.132	-.667563	.088372
	3	1	.5093858*	.1999791	0.012	.115060	.903712
		2	.8642226*	.1916829	1.108E-5	.486255	1.242190
		4	.5746269*	.1673145	7.212E-4	.244710	.904544
	4	1	-.0652412	.1999791	0.745	-.459567	.329085
		2	.2895956	.1916829	0.132	-.088372	.667563
		3	-.5746269*	.1673145	7.212E-4	-.904544	-.244710
$C_{18:2}/C_{18:1}$	1	2	-.3218852	.2299270	0.163	-.775264	.131493
		3	-.3320060	.2082729	0.112	-.742686	.078674
		4	.0057516	.2082729	0.978	-.404928	.416432
	2	1	.3218852	.2299270	0.163	-.131493	.775264
		3	-.0101208	.1996326	0.960	-.403764	.383522
		4	.3276368	.1996326	0.102	-.066006	.721280
	3	1	.3320060	.2082729	0.112	-.078674	.742686
		2	.0101208	.1996326	0.960	-.383522	.403764
		4	.3377576	.1742536	0.054	-.005842	.681357
	4	1	-.0057516	.2082729	0.978	-.416432	.404928
		2	-.3276368	.1996326	0.102	-.721280	.066006
		3	-.3377576	.1742536	0.054	-.681357	.005842
$C_{18:3}/C_{18:2}$	1	2	.1748566	.2221493	0.432	-.263186	.612899
		3	.3143676	.2012276	0.120	-.082420	.711156
		4	.8067801*	.2012276	8.581E-5	.409992	1.203568
	2	1	-.1748566	.2221493	0.432	-.612899	.263186
		3	.1395111	.1928796	0.470	-.240816	.519838
		4	.6319235*	.1928796	0.001	.251596	1.012251
	3	1	-.3143676	.2012276	0.120	-.711156	.082420
		2	-.1395111	.1928796	0.470	-.519838	.240816
		4	.4924125*	.1683591	0.004	.160436	.824389
	4	1	-.8067801*	.2012276	8.581E-5	-1.203568	-.409992
		2	-.6319235*	.1928796	0.001	-1.012251	-.251596
		3	-.4924125*	.1683591	0.004	-.824389	-.160436
$C_{18:3}/C_{18:1}$	1	2	-.1871448	.2248542	0.406	-.630521	.256231

		3	-.0518953	.2036778	0.799	-.453515	.349724
		4	.4752822*	.2036778	0.021	.073663	.876902
	2	1	.1871448	.2248542	0.406	-.256231	.630521
		3	.1352495	.1952281	0.489	-.249708	.520207
		4	.6624270*	.1952281	8.323E-4	.277469	1.047385
	3	1	.0518953	.2036778	0.799	-.349724	.453515
		2	-.1352495	.1952281	0.489	-.520207	.249708
		4	.5271775*	.1704091	0.002	.191159	.863196
	4	1	-.4752822*	.2036778	0.021	-.876902	-.073663
		2	-.6624270*	.1952281	8.323E-4	-1.047385	-.277469
		3	-.5271775*	.1704091	0.002	-.863196	-.191159

Healthy controls are divided into 4 groups: group 1, 34 - 45 years (n = 35); group 2, 46 - 55 years (n = 40); groups 3, 56 - 65 years (n = 65) and group 4, 66 - 81 years (n = 65). *P* values less than 0.05 were considered to be statistically significant.

Supplementary Table S4. Comparison of the FFAs levels of the PC patients between females and males using Mann-Whitney U test .

	P values
$C_{16:1}$	0.194
$C_{18:3}$	0.089
$C_{18:2}$	0.070
$C_{18:1}$	0.073
$C_{20:4}$	0.135
$C_{22:6}$	0.754
$C_{18:2}/C_{18:1}$	0.751
$C_{18:3}/C_{18:2}$	0.616
$C_{18:3}/C_{18:1}$	0.851

$P < 0.05$ was considered to be statistically significant.

Females: n=40, age: 60.4±11.0

Males: n=45, age:58.8±10.5

Supplementary Table S5. Comparison of the FFAs levels of the PC patients between four different age groups.

LSD

Variable	Age groups		Mean Difference (I-J)	Std. Error	p value	95% Confidence Interval	
						Lower Bound	Upper Bound
$C_{16:1}$	1	2	.1816538	3.6403921	.960	-7.062957	7.426265
		3	-.1570225	3.1847363	.961	-6.494850	6.180805
		4	-3.8537309	3.1994341	.232	-10.220808	2.513346
	2	1	-.1816538	3.6403921	.960	-7.426265	7.062957
		3	-.3386763	2.9244231	.908	-6.158464	5.481111
		4	-4.0353847	2.9404225	.174	-9.887012	1.816242
	3	1	.1570225	3.1847363	.961	-6.180805	6.494850
		2	.3386763	2.9244231	.908	-5.481111	6.158464
		4	-3.6967084	2.3529077	.120	-8.379144	.985727
	4	1	3.8537309	3.1994341	.232	-2.513346	10.220808
		2	4.0353847	2.9404225	.174	-1.816242	9.887012
		3	3.6967084	2.3529077	.120	-.985727	8.379144
$C_{18:3}$	1	2	-.6513619	1.0061852	.519	-2.653734	1.351011
		3	-.3473885	.8802444	.694	-2.099131	1.404354
		4	-1.5176110	.8843068	.090	-3.277438	.242216
	2	1	.6513619	1.0061852	.519	-1.351011	2.653734
		3	.3039734	.8082952	.708	-1.304585	1.912532
		4	-.8662491	.8127173	.290	-2.483608	.751110
	3	1	.3473885	.8802444	.694	-1.404354	2.099131
		2	-.3039734	.8082952	.708	-1.912532	1.304585
		4	-1.1702225	.6503313	.076	-2.464423	.123978
	4	1	1.5176110	.8843068	.090	-.242216	3.277438
		2	.8662491	.8127173	.290	-.751110	2.483608
		3	1.1702225	.6503313	.076	-.123978	2.464423
$C_{18:2}$	1	2	-.5342303	.1202870	.965	-24.472098	23.403637
		3	-.4488907	.1052310	.966	-21.390535	20.492753
		4	-13.9055455	.1057167	.192	-34.943837	7.132746

	2	1	.5342303	.1202870	.965	-23.403637	24.472098
		3	.0853397	9.6629690	.993	-19.144582	19.315261
		4	-13.3713151	9.7158344	.173	-32.706442	5.963812
	3	1	.4488907	.1052310	.966	-20.492753	21.390535
		2	-.0853397	9.6629690	.993	-19.315261	19.144582
		4	-13.4566548	7.7745502	.087	-28.928503	2.015193
	4	1	13.9055455	.1057167	.192	-7.132746	34.943837
		2	13.3713151	9.7158344	.173	-5.963812	32.706442
		3	13.4566548	7.7745502	.087	-2.015193	28.928503
$C_{18:1}$	1	2	-.4100824	.2551082	.987	-51.178240	50.358075
		3	-.3996226	.2231772	.986	-44.813298	44.014053
		4	-27.3724334	.2242072	.226	-71.991082	17.246215
	2	1	.4100824	.2551082	.987	-50.358075	51.178240
		3	.0104598	.2049352	1.000	-40.772942	40.793862
		4	-26.9623510	.2060564	.194	-67.968876	14.044174
	3	1	.3996226	.2231772	.986	-44.014053	44.813298
		2	-.0104598	.2049352	1.000	-40.793862	40.772942
		4	-26.9728108	.1648850	.106	-59.785977	5.840355
	4	1	27.3724334	.2242072	.226	-17.246215	71.991082
		2	26.9623510	.2060564	.194	-14.044174	67.968876
		3	26.9728108	.1648850	.106	-5.840355	59.785977
$C_{20:4}$	1	2	-.1102717	5.6834551	.985	-11.420708	11.200164
		3	-.0585812	4.9720759	.991	-9.953328	9.836165
		4	-6.1182557	4.9950224	.224	-16.058667	3.822156
	2	1	.1102717	5.6834551	.985	-11.200164	11.420708
		3	.0516904	4.5656696	.991	-9.034282	9.137662
		4	-6.0079840	4.5906481	.194	-15.143665	3.127697
	3	1	.0585812	4.9720759	.991	-9.836165	9.953328
		2	-.0516904	4.5656696	.991	-9.137662	9.034282
		4	-6.0596744	3.6734080	.103	-13.369989	1.250640
	4	1	6.1182557	4.9950224	.224	-3.822156	16.058667
		2	6.0079840	4.5906481	.194	-3.127697	15.143665
		3	6.0596744	3.6734080	.103	-1.250640	13.369989
$C_{22:6}$	1	2	-.4858754	1.0577697	.647	-2.590904	1.619153

		3	-.3662512	.9253721	.693	-2.207800	1.475298
		4	-1.0779172	.9296428	.250	-2.927965	.772131
	2	1	.4858754	1.0577697	.647	-1.619153	2.590904
		3	.1196243	.8497343	.888	-1.571401	1.810649
		4	-.5920418	.8543831	.490	-2.292318	1.108235
	3	1	.3662512	.9253721	.693	-1.475298	2.207800
		2	-.1196243	.8497343	.888	-1.810649	1.571401
		4	-.7116660	.6836721	.301	-2.072217	.648885
	4	1	1.0779172	.9296428	.250	-.772131	2.927965
		2	.5920418	.8543831	.490	-1.108235	2.292318
		3	.7116660	.6836721	.301	-.648885	2.072217
$C_{18:2}/C_{18:1}$	1	2	.0567245	.4013974	.888	-.742082	.855531
		3	-.1594683	.3511558	.651	-.858291	.539354
		4	.2271155	.3527764	.522	-.474932	.929163
	2	1	-.0567245	.4013974	.888	-.855531	.742082
		3	-.2161927	.3224531	.504	-.857895	.425509
		4	.1703910	.3242173	.601	-.474822	.815604
	3	1	.1594683	.3511558	.651	-.539354	.858291
		2	.2161927	.3224531	.504	-.425509	.857895
		4	.3865837	.2594366	.140	-.129712	.902879
	4	1	-.2271155	.3527764	.522	-.929163	.474932
		2	-.1703910	.3242173	.601	-.815604	.474822
		3	-.3865837	.2594366	.140	-.902879	.129712
$C_{18:3}/C_{18:2}$	1	2	-.0976096	.4043767	.810	-.902345	.707126
		3	.1051417	.3537622	.767	-.598868	.809151
		4	.0671591	.3553949	.851	-.640099	.774417
	2	1	.0976096	.4043767	.810	-.707126	.902345
		3	.2027513	.3248465	.534	-.443714	.849216
		4	.1647687	.3266237	.615	-.485233	.814771
	3	1	-.1051417	.3537622	.767	-.809151	.598868
		2	-.2027513	.3248465	.534	-.849216	.443714
		4	-.0379826	.2613623	.885	-.558110	.482145
	4	1	-.0671591	.3553949	.851	-.774417	.640099
		2	-.1647687	.3266237	.615	-.814771	.485233

		3	.0379826	.2613623	.885	-.482145	.558110
$C_{18:3}/C_{18:1}$	1	2	.0996963	.4014998	.805	-.699314	.898706
		3	.0407788	.3512454	.908	-.658222	.739779
		4	.3286829	.3528664	.354	-.373544	1.030910
	2	1	-.0996963	.4014998	.805	-.898706	.699314
		3	-.0589175	.3225354	.856	-.700783	.582948
		4	.2289866	.3243000	.482	-.416391	.874364
	3	1	-.0407788	.3512454	.908	-.739779	.658222
		2	.0589175	.3225354	.856	-.582948	.700783
		4	.2879041	.2595028	.271	-.228523	.804331
	4	1	-.3286829	.3528664	.354	-1.030910	.373544
		2	-.2289866	.3243000	.482	-.874364	.416391
		3	-.2879041	.2595028	.271	-.804331	.228523

Note: 1 represents PC patients with age ranged from 35 to 45 (n = 17), 2 ranged from 46 to 55(n = 19), 3 ranged from 56 to 65 (n = 30), and 4 ranged from 66 to 78 (n = 29). $P < 0.05$ was considered statistically significant.

Supplementary Table S6. Comparison of the FFAs levels of pancreatitis patients between females and males using Mann-Whitney U test .

	P values
$C_{16:1}$	0.795
$C_{18:3}$	0.535
$C_{18:2}$	0.828
$C_{18:1}$	0.965
$C_{20:4}$	0.544
$C_{22:6}$	0.665
$C_{18:2}/C_{18:1}$	0.333
$C_{18:3}/C_{18:2}$	0.461
$C_{18:3}/C_{18:1}$	0.319

$P < 0.05$ was considered to be statistically significant.

Females: n=29, age: 55.5±11.7

Males: n=32, age:55.8±10.6

Supplementary Table S7. Comparison of the levels of the FFAs of pancreatitis patients between different age groups s.

Dependent Variable	group		Mean Difference	Std. Error	*P* values	95% Confidence Interval	
						Lower Bound	Upper Bound
$C_{16:1}$	1	2	-.0742264	.3698052	.842	-.814748	.666296
		3	-.0945622	.4393940	.830	-.974434	.785309
		4	-.6956144	.3915584	.081	-1.479697	.088468
	2	1	.0742264	.3698052	.842	-.666296	.814748
		3	-.0203359	.3698052	.956	-.760858	.720186
		4	-.6213880	.3114591	.051	-1.245074	.002298
	3	1	.0945622	.4393940	.830	-.785309	.974434
		2	.0203359	.3698052	.956	-.720186	.760858
		4	-.6010521	.3915584	.130	-1.385134	.183030
	4	1	.6956144	.3915584	.081	-.088468	1.479697
		2	.6213880	.3114591	.051	-.002298	1.245074
		3	.6010521	.3915584	.130	-.183030	1.385134
$C_{18:3}$	1	2	-.4191375	.3785618	.273	-1.177195	.338920
		3	.0203992	.4497985	.964	-.880307	.921105
		4	-.0608791	.4008302	.880	-.863528	.741769
	2	1	.4191375	.3785618	.273	-.338920	1.177195
		3	.4395367	.3785618	.250	-.318520	1.197594
		4	.3582583	.3188342	.266	-.280196	.996713
	3	1	-.0203992	.4497985	.964	-.921105	.880307
		2	-.4395367	.3785618	.250	-1.197594	.318520
		4	-.0812783	.4008302	.840	-.883927	.721370
	4	1	.0608791	.4008302	.880	-.741769	.863528
		2	-.3582583	.3188342	.266	-.996713	.280196
		3	.0812783	.4008302	.840	-.721370	.883927
$C_{18:2}$	1	2	-.3509972	.3820720	.362	-1.116083	.414089
		3	-.0740855	.4539692	.871	-.983143	.834972
		4	-.0932848	.4045468	.818	-.903376	.716806
	2	1	.3509972	.3820720	.362	-.414089	1.116083
		3	.2769118	.3820720	.472	-.488174	1.041998

		4	.2577124	.3217905	.427	-.386662	.902087
	3	1	.0740855	.4539692	.871	-.834972	.983143
		2	-.2769118	.3820720	.472	-1.041998	.488174
		4	-.0191993	.4045468	.962	-.829290	.790892
	4	1	.0932848	.4045468	.818	-.716806	.903376
		2	-.2577124	.3217905	.427	-.902087	.386662
		3	.0191993	.4045468	.962	-.790892	.829290
$C_{18:1}$	1	2	.1984599	.3835860	.607	-.569658	.966578
		3	.3150184	.4557681	.492	-.597641	1.227678
		4	.3320411	.4061499	.417	-.481260	1.145342
	2	1	-.1984599	.3835860	.607	-.966578	.569658
		3	.1165584	.3835860	.762	-.651559	.884676
		4	.1335811	.3230656	.681	-.513347	.780509
	3	1	-.3150184	.4557681	.492	-1.227678	.597641
		2	-.1165584	.3835860	.762	-.884676	.651559
		4	.0170227	.4061499	.967	-.796278	.830324
	4	1	-.3320411	.4061499	.417	-1.145342	.481260
		2	-.1335811	.3230656	.681	-.780509	.513347
		3	-.0170227	.4061499	.967	-.830324	.796278
$C_{20:4}$	1	2	.2723859	.3816571	.478	-.491869	1.036641
		3	.5195723	.4534762	.257	-.388498	1.427643
		4	.2089108	.4041075	.607	-.600301	1.018122
	2	1	-.2723859	.3816571	.478	-1.036641	.491869
		3	.2471864	.3816571	.520	-.517069	1.011442
		4	-.0634751	.3214411	.844	-.707150	.580200
	3	1	-.5195723	.4534762	.257	-1.427643	.388498
		2	-.2471864	.3816571	.520	-1.011442	.517069
		4	-.3106615	.4041075	.445	-1.119873	.498550
	4	1	-.2089108	.4041075	.607	-1.018122	.600301
		2	.0634751	.3214411	.844	-.580200	.707150
		3	.3106615	.4041075	.445	-.498550	1.119873
$C_{22:6}$	1	2	-.2001455	.3795640	.600	-.960209	.559918
		3	.3191425	.4509893	.482	-.583948	1.222233
		4	.0591981	.4018913	.883	-.745575	.863972

	2	1	.2001455	.3795640	.600	-.559918	.960209
		3	.5192879	.3795640	.177	-.240776	1.279352
		4	.2593436	.3196782	.421	-.380801	.899488
	3	1	-.3191425	.4509893	.482	-1.222233	.583948
		2	-.5192879	.3795640	.177	-1.279352	.240776
		4	-.2599444	.4018913	.520	-1.064718	.544829
	4	1	-.0591981	.4018913	.883	-.863972	.745575
		2	-.2593436	.3196782	.421	-.899488	.380801
		3	.2599444	.4018913	.520	-.544829	1.064718
$C_{18:2}/C_{18:1}$	1	2	-1.2927443	.3459436	.093	-1.985484	-.600004
		3	-.8361517	.4110422	.057	-1.659250	-.013054
		4	-.8731786	.3662932	.070	-1.606668	-.139689
	2	1	1.2927443	.3459436	.093	.600004	1.985484
		3	.4565925	.3459436	.192	-.236148	1.149333
		4	.4195656	.2913623	.155	-.163877	1.003008
	3	1	.8361517	.4110422	.057	.013054	1.659250
		2	-.4565925	.3459436	.192	-1.149333	.236148
		4	-.0370269	.3662932	.920	-.770516	.696463
	4	1	.8731786	.3662932	.070	.139689	1.606668
		2	-.4195656	.2913623	.155	-1.003008	.163877
		3	.0370269	.3662932	.920	-.696463	.770516
$C_{18:3}/C_{18:2}$	1	2	-.0567029	.3846373	.883	-.826926	.713520
		3	.1940041	.4570172	.673	-.721157	1.109165
		4	.0606462	.4072630	.882	-.754884	.876176
	2	1	.0567029	.3846373	.883	-.713520	.826926
		3	.2507070	.3846373	.517	-.519516	1.020930
		4	.1173491	.3239510	.719	-.531352	.766050
	3	1	-.1940041	.4570172	.673	-1.109165	.721157
		2	-.2507070	.3846373	.517	-1.020930	.519516
		4	-.1333578	.4072630	.745	-.948888	.682172
	4	1	-.0606462	.4072630	.882	-.876176	.754884
		2	-.1173491	.3239510	.719	-.766050	.531352
		3	.1333578	.4072630	.745	-.682172	.948888
$C_{18:3}/C_{18:1}$	1	2	-.6819660	.3738750	.073	-1.430638	.066706

		3	-.2391059	.4442297	.593	-1.128661	.650449
		4	-.3843633	.3958677	.336	-1.177075	.408348
	2	1	.6819660	.3738750	.073	-.066706	1.430638
		3	.4428601	.3738750	.241	-.305812	1.191532
		4	.2976027	.3148868	.349	-.332947	.928153
	3	1	.2391059	.4442297	.593	-.650449	1.128661
		2	-.4428601	.3738750	.241	-1.191532	.305812
		4	-.1452574	.3958677	.715	-.937969	.647454
	4	1	.3843633	.3958677	.336	-.408348	1.177075
		2	-.2976027	.3148868	.349	-.928153	.332947
		3	.1452574	.3958677	.715	-.647454	.937969

Pancreatitis patients were divided into 4 groups: group 1, 35 - 45 years (n = 10); group 2, 46 - 55 years (n = 24); groups 3, 56 - 65 years (n = 10) and group 4, 66 – 79 years (n = 17). *P* values less than 0.05 were considered to be statistically significant.