











Original article:

**ULTRASTRUCTURAL ALTERATIONS AND MITOCHONDRIAL
DYSFUNCTION IN SKELETAL MUSCLE OF PERIPHERAL
ARTERY DISEASE PATIENTS: IMPLICATIONS FOR EARLY
THERAPEUTIC INTERVENTIONS**

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Raw data concerning **Table 1**: Patient demographics

ID	AGE	Sex, M=male, F=fe- male	RACE, W=white, B=black, WH=white hispanic	Dias- tolic (mmHg)	Sys- tolic (mmHg)	Coro- nary ar- tery dis- ease, 0=no, 1=yes	Hyperten- sion, 0=no, 1=yes	Obe- sity, 0=no, 1=yes	Dyslipidemia, 0=no, 1=yes	Smok- ing sta- tus, 0=never smoked, 1=cur- rent smoker, 2=for- mer smoker	Diabe- tes, 0=no, 1=yes
1001	52.00	F	WH	141	60.00	0.00	1.00	0.00	1.00	1.00	1.00
1002	60.00	F	W	129	80.00	0.00	1.00	1.00	0.00	1.00	0.00
1003	52.00	F	W	123	85.00	0.00	0.00	0.00	0.00	0.00	0.00
1004	68.00	M	WH	149	66.00	1.00	1.00	0.00	0.00	1.00	1.00
1005	66.00	M	WH	169	84.00	0.00	1.00	0.00	0.00	1.00	1.00
1006	60.00	M	WH	126	86.00	1.00	0.00	0.00	1.00	0.00	0.00
1007	60.00	M	W	106	67.00	1.00	1.00	0.00	1.00	1.00	0.00
1008	64.00	F	WH	143	54.00	0.00	0.00	0.00	0.00	0.00	1.00
1009	58.00	F	WH	115	76.00	0.00	0.00	0.00	1.00	0.00	1.00
1010	71.00	F	B	123	75.00	0.00	0.00	0.00	0.00	0.00	0.00
1011	74.00	M	W	149	53.00	1.00	1.00	0.00	1.00	2.00	1.00
1012	68.00	M	WH	95	50.00	1.00	1.00	0.00	1.00	0.00	1.00
1013	71.00	F	B	103	59.00	0.00	0.00	0.00	0.00	0.00	0.00
1014	65.00	F	B	140	42.00	0.00	1.00	1.00	1.00	0.00	1.00
1015	66.00	M	W	142	80.00	1.00	1.00	0.00	0.00	1.00	1.00
1016	58.00	F	W	126	89.00	0.00	0.00	0.00	0.00	0.00	0.00
1017	60.00	F	WH	119	54.00	0.00	1.00	0.00	1.00	2.00	1.00
1018	59.00	F	W	146	83.00	0.00	0.00	0.00	0.00	0.00	0.00
1019	67.00	F	W	131	41.00	1.00	1.00	1.00	0.00	0.00	1.00
1020	66.00	F	W	121	79.00	0.00	1.00	0.00	0.00	2.00	0.00

1021	54.00	M	W	139	89.00	0.00	0.00	0.00	0.00	0.00	0.00
1022	63.00	M	W	120	71.00	0.00	0.00	0.00	1.00	1.00	1.00
1023	65.00	M	W	129	92.00	0.00	1.00	0.00	0.00	2.00	1.00
1024	70.00	F	WH	176	75.00	1.00	1.00	0.00	1.00	0.00	1.00
1025	71.00	M	WH	144	56.00	1.00	0.00	1.00	0.00	2.00	0.00
1026	67.00	F	B	139	55.00	0.00	1.00	1.00	0.00	1.00	0.00
1027	63.00	F	WH	116	80.00	1.00	1.00	0.00	1.00	2.00	0.00
1028	47.00	M	WH	115	68.00	1.00	1.00	1.00	1.00	0.00	1.00
1029	51.00	M	W	124	88.00	1.00	1.00	0.00	1.00	1.00	0.00
1030	59.00	M	WH	148	68.00	0.00	0.00	1.00	0.00	0.00	1.00
1031	67.00	F	WH	154	54.00	0.00	1.00	1.00	1.00	0.00	1.00
1032	53.00	M	B	128	86.00	0.00	0.00	1.00	0.00	0.00	0.00
1033	72.00	M	W	119	62.00	1.00	1.00	0.00	1.00	2.00	0.00
1034	56.00	F	W	169	98.00	0.00	1.00	0.00	0.00	2.00	0.00
1035	53.00	M	W	119	88.00	0.00	0.00	0.00	0.00	1.00	0.00
1036	60.00	M	WH	164	48.00	1.00	1.00	0.00	1.00	2.00	1.00
1037	60.00	M	WH	161	70.00	0.00	1.00	0.00	1.00	0.00	1.00
1038	58.00	M	B	140	82.00	1.00	1.00	0.00	0.00	0.00	1.00
1039	54.00	M	W	142	83.00	0.00	1.00	1.00	0.00	0.00	0.00
1040	71.00	M	B	149	75.00	0.00	1.00	0.00	1.00	1.00	0.00
1041	72.00	F	B	144	99.00	0.00	0.00	0.00	0.00	0.00	0.00
1042	65.00	M	W	144	44.00	1.00	1.00	1.00	1.00	1.00	1.00
1043	57.00	F	W	116	79.00	0.00	0.00	0.00	0.00	0.00	0.00
1044	65.00	M	W	144	90.00	0.00	1.00	0.00	0.00	0.00	1.00
1045	67.00	M	B	96	67.00	1.00	0.00	0.00	0.00	0.00	0.00
1046	64.00	M	WH	109	97.00	1.00	1.00	0.00	1.00	0.00	1.00
1047	61.00	F	W	124	73.00	0.00	1.00	0.00	0.00	2.00	1.00
1048	62.00	M	W	161	77.00	0.00	0.00	0.00	0.00	1.00	0.00
1049	53.00	M	WH	124	83.00	0.00	0.00	0.00	0.00	0.00	0.00
1050	71.00	F	WH	111	74.00	0.00	1.00	0.00	0.00	0.00	0.00

1051	60.00	M	B	168	90.00	0.00	0.00	0.00	0.00	2.00	0.00
1052	56.00	M	W	194	101.00	0.00	0.00	0.00	1.00	1.00	0.00

Figure 1 associated data. Raw data for relative mitochondrial area (%), number of mitochondria per 250 μm^2 , mitochondria cross sectional area (CSA), and mitochondria per Z disc.

ID	Relative Mitochondria Area (%)	Average Mitochondria CSA	Number of Mitochondria / 250 μm^2	Mitochondria / Zdisc
1001	7.327	0.285	64.220	1.088
1002	1.283	0.066	48.360	0.332
1003	2.783	0.115	60.400	0.654
1004	2.954	0.046	161.550	1.563
1005	4.995	0.081	153.555	1.230
1006	4.411	0.207	53.266	0.447
1007	3.725	0.194	47.895	0.482
1008	4.328	0.093	116.757	1.067
1009	5.141	0.171	75.112	0.597
1010	5.189	0.094	137.644	1.256
1011	3.846	0.188	51.137	0.404
1012	2.099	0.041	128.609	0.961
1013	5.572	0.113	123.353	1.139
1014	3.680	0.101	90.647	0.838
1015	4.862	0.099	123.003	1.696
1016	1.523	0.196	19.401	0.137
1017	6.529	0.101	162.399	1.259
1018	1.927	0.065	74.292	0.815
1019	3.848	0.089	107.945	0.938
1020	5.293	0.113	117.396	1.345
1021	2.480	0.103	60.207	0.500
1022	3.736	0.053	176.969	1.340
1023	1.332	0.106	31.539	0.290
1024	3.866	0.144	66.933	0.389
1025	1.178	0.088	33.291	0.217
1026	4.346	0.070	155.943	1.353
1027	2.017	0.136	37.146	0.279
1028	2.870	0.053	136.669	0.929
1029	2.605	0.074	87.434	0.734
1030	2.026	0.186	27.269	0.277
1031	2.356	0.204	28.847	0.248
1032	7.274	0.102	178.571	1.422
1033	3.714	0.078	119.683	0.947
1034	0.052	0.005	25.582	0.215
1035	1.412	0.174	20.300	0.163
1036	3.993	0.151	66.232	0.566
1037	3.926	0.067	146.131	1.279

1038	3.691	0.108	85.467	0.658
1039	0.940	0.042	56.144	0.404
1040	0.665	0.148	11.214	0.080
1041	0.007	0.000	97.421	0.820
1042	0.018	0.001	35.043	0.337
1043	5.669	0.119	119.148	0.960
1044	2.538	0.057	110.693	1.432
1045	4.291	0.080	134.585	1.005
1046	1.825	0.056	81.904	1.137
1047	2.983	0.058	127.909	0.966
1048	5.203	0.066	198.346	1.497
1049	3.948	0.077	128.259	0.961
1050	4.241	0.061	174.166	1.702
1051	2.762	0.104	66.232	0.507
1052	3.458	0.078	110.387	0.799

Figure 2 associated data. Individual data for mitochondrial respiration (JO_2) and hydrogen peroxide production (H_2O_2).

Data of JO_2 for all the patients

ID	Complex CI.2	Complex I.3	Complex I+II	Complex II	Complex III	Complex IV
1001	4.73	23.59	22.91	7.26	73.87	84.10
1002	0.92	4.13	5.08	2.56	32.55	20.56
1003	4.98	8.40	4.46	4.54	65.98	25.73
1004	5.74	25.54	12.66	6.91	120.14	113.97
1005	3.69	11.20	8.45	6.85	15.91	108.81
1006	1.01	1.99	6.36	2.11	17.77	77.88
1007	2.66	4.88	1.88	3.55	41.05	41.29
1008	2.96	11.55	5.38	8.21	15.53	14.04
1009	2.85	6.70	6.34	4.28	14.93	51.56
1010	0.85	7.69	9.57	8.18	119.37	68.47
1011	1.97	5.14	0.82	3.26	20.30	74.26
1012	4.16	10.07	14.56	10.52	91.04	163.40
1013	4.98	20.47	21.56	4.55	60.55	85.56
1014	6.31	15.11	15.52	5.82	186.06	54.78
1015	6.12	10.74	10.91	5.12	152.63	141.29
1016	1.11	3.10	6.35	3.25	9.72	28.46
1017	2.12	6.00	7.56	8.47	70.16	56.85
1018	2.66	4.85	10.55	3.13	55.55	48.55
1019	2.96	11.55	8.57	8.21	25.46	14.04
1020	3.55	16.55	18.56	10.56	90.56	80.56
1021	2.24	6.17	12.96	5.57	8.89	85.57
1022	4.14	12.68	14.43	10.55	100.47	125.00
1023	1.53	2.57	4.57	1.81	12.80	73.99
1024	5.75	1.17	2.69	4.74	38.11	24.51
1025	1.45	1.87	1.99	1.83	5.86	43.53
1026	4.85	6.61	6.56	5.07	64.09	92.96
1027	1.70	6.20	4.78	3.58	20.32	41.06
1028	3.46	10.95	1.68	5.91	58.00	220.00
1029	0.88	0.95	6.45	1.60	18.46	74.75
1030	2.84	5.09	4.78	2.90	9.66	13.87
1031	3.39	6.33	3.73	4.26	42.05	76.43
1032	2.55	9.54	12.55	8.55	125.55	135.55
1033	3.14	10.17	14.60	11.55	45.56	210.00
1034	1.71	7.06	5.77	3.52	46.38	75.79
1035	2.74	6.95	5.77	4.56	14.18	33.27
1036	5.24	12.28	12.04	4.37	157.29	47.45
1037	2.29	8.71	9.97	12.56	78.95	82.45
1038	0.79	1.31	12.96	2.26	38.89	124.63

1039	2.44	5.94	4.77	3.82	22.53	77.30
1040	4.05	8.62	7.56	3.59	4.89	33.28
1041	1.88	10.89	6.52	4.81	15.85	72.55
1042	3.24	7.17	9.82	6.09	21.94	63.45
1043	2.93	7.76	9.07	4.85	29.04	173.81
1044	4.55	15.14	17.55	8.57	110.55	95.47
1045	3.94	13.07	7.91	7.03	14.57	66.60
1046	3.21	8.14	15.20	5.44	25.41	70.31
1047	3.46	14.99	6.92	3.94	85.55	100.66
1048	2.01	5.14	12.05	3.16	67.61	88.99
1049	6.55	22.20	22.64	8.34	190.22	139.64
1050	5.69	10.16	10.34	9.19	92.58	99.21
1051	2.22	6.65	9.14	12.22	31.48	45.65
1052	2.26	8.53	23.16	3.62	78.60	107.80

Individual data of H_2O_2 for all the patients

ID	Complex CI.2	Complex I.3	Complex I+II	Complex II	Complex III	Complex IV
1001	0.067	0.106	0.012	0.301	0.376	0.686
1002	0.156	0.165	0.201	0.062	1.061	1.285
1003	0.031	0.263	0.157	0.900	0.852	1.400
1004	0.049	0.006	0.004	0.060	0.261	0.463
1005	0.035	0.156	0.102	0.209	1.012	1.200
1006	0.265	0.743	0.030	0.111	0.860	2.800
1007	0.125	0.101	0.046	0.133	0.914	1.676
1008	0.052	0.014	0.102	0.309	1.138	0.925
1009	0.113	0.608	0.049	0.354	1.460	2.465
1010	0.055	0.150	0.069	0.425	0.598	0.210
1011	0.078	0.084	0.115	1.403	1.788	3.406
1012	0.005	0.343	0.048	1.052	0.036	0.491
1013	0.047	0.100	0.029	0.641	0.387	0.533
1014	0.053	0.173	0.025	0.485	0.472	0.409
1015	0.019	0.022	0.013	0.074	0.427	0.707
1016	0.151	0.457	0.089	0.431	1.256	4.671
1017	0.120	0.137	0.091	0.803	0.360	0.370
1018	0.172	0.570	0.215	0.800	1.976	1.856
1019	0.217	0.740	0.267	0.650	0.868	1.259
1020	0.100	0.155	0.133	0.144	0.100	0.500
1021	0.134	1.970	0.285	0.750	0.769	1.766
1022	0.012	0.008	0.005	0.075	0.118	0.237
1023	0.095	0.112	0.196	0.060	1.256	1.316
1024	0.114	0.146	0.106	0.644	2.725	3.667
1025	0.162	0.130	0.096	0.274	2.276	1.258
1026	0.045	0.023	0.027	0.113	0.279	0.401
1027	0.243	0.124	0.106	0.625	6.014	4.845
1028	0.051	0.116	0.393	0.501	0.917	0.928
1029	0.154	0.836	0.280	1.273	5.094	1.657
1030	0.108	0.101	0.078	0.419	1.324	3.532
1031	0.206	0.207	0.146	1.008	3.630	5.481
1032	0.059	0.511	0.035	0.253	0.512	0.239
1033	0.036	0.399	0.055	0.083	0.980	2.183
1034	0.357	0.234	0.312	1.133	6.453	6.265
1035	0.072	0.108	0.110	0.707	1.638	1.788
1036	0.071	0.272	0.041	0.817	0.568	0.368
1037	0.014	0.132	0.076	0.154	1.544	1.333
1038	0.076	0.104	0.102	0.330	1.777	0.928
1039	0.153	0.646	0.208	0.799	3.718	1.583
1040	0.159	0.415	0.305	0.550	1.584	2.356

1041	0.107	0.163	0.103	0.128	1.536	1.035
1042	0.085	0.171	0.101	0.308	3.160	1.289
1043	0.069	0.062	0.063	0.135	0.108	0.200
1044	0.083	0.122	0.027	0.147	0.476	0.267
1045	0.018	0.018	0.101	0.053	1.184	0.516
1046	0.050	0.250	0.100	0.203	1.900	1.100
1047	0.001	0.002	0.003	0.046	0.047	0.181
1048	0.052	0.100	0.100	0.304	0.952	0.925
1049	0.043	0.059	0.015	0.153	0.399	0.186
1050	0.039	0.079	0.037	0.348	0.520	0.397
1051	0.186	0.169	0.103	0.483	1.983	1.638
1052	0.025	0.094	0.104	0.239	0.390	0.457

Figure 3 associated data. Individual data for relative myofibril area (%), relative lipid droplet area (%), average lipid droplet cross sectional area (μm), number of Z Discs/ $250\mu\text{m}^2$, number of lipid droplets per $250\mu\text{m}^2$, relative sarcoplasmic area (%), sarcomere M-line length (μm), IMCL-mitochondria contact length (μm).

ID	Relative Myofibril Area (%)	Relative lipid droplet area (%)	Average lipid droplet cross sectional area (μm)	Number of Z Discs/ $250\mu\text{m}^2$	Number of Lipid Droplets/ $250\mu\text{m}^2$	Relative Sarcoplasmic Area (%)	Sarcomere M-line length (μm)	MCL-mitochondria contact length (μm)
1001	67.5	0.606	0.244	59.0	6.21	24.58	1.361	0.705
1002	83.0	0.149	0.118	145.8	3.15	15.56	0.821	0.186
1003	71.6	1.975	0.381	124.8	12.97	21.40	0.718	0.452
1004	81.4	0.332	0.263	103.4	3.15	15.27	0.962	0.275
1005	65.2	3.057	0.287	54.6	26.60	22.95	0.882	0.446
1006	61.7	1.126	0.237	125.8	11.88	32.03	0.726	0.389
1007	58.3	1.395	0.499	99.3	6.99	36.56	0.814	0.335
1008	74.7	0.131	0.235	109.4	1.40	20.87	0.774	0.307
1009	78.0	0.086	0.617	124.2	0.35	20.51	0.848	0.279
1010	69.7	0.045	0.159	109.6	0.70	25.07	0.804	0.156
1011	64.7	0.786	0.491	119.1	4.01	31.91	0.397	0.360
1012	85.4	0.161	0.144	133.9	2.80	12.31	1.002	0.209
1013	68.3	0.274	0.280	108.3	2.45	25.82	0.876	0.225
1014	79.0	0.367	0.262	108.2	3.50	16.98	0.969	0.379
1015	70.9	3.709	0.456	72.5	20.33	20.55	0.915	0.380
1016	73.8	0.867	0.773	139.8	2.80	24.69	0.662	0.542
1017	70.1	1.224	0.220	128.9	13.91	22.16	0.851	0.317
1018	66.2	1.371	0.232	92.4	14.74	29.64	0.919	0.212
1019	75.2	0.146	0.131	120.4	2.80	22.17	0.906	0.195
1020	73.3	0.195	0.198	87.3	2.45	21.17	1.172	0.280
1021	71.2	0.292	0.298	91.1	2.45	26.57	0.989	0.226
1022	73.8	0.088	0.158	132.1	1.40	22.39	0.733	0.090
1023	71.3	0.515	0.459	108.6	2.80	26.86	0.732	0.405
1024	71.6	2.169	0.737	172.1	7.36	22.39	0.598	0.377
1025	51.1	2.414	0.718	119.1	8.41	42.10	0.647	0.414

1026	76.0	0.023	0.017	115.3	0.26	19.67	0.934	0.148
1027	74.3	1.730	1.234	133.2	3.50	21.97	0.599	0.236
1028	73.9	0.548	0.261	147.2	5.26	22.65	0.847	0.226
1029	78.1	0.094	0.167	116.1	1.41	19.49	1.205	0.382
1030	77.3	1.294	1.028	98.6	3.15	19.33	0.813	0.354
1031	76.3	0.445	1.071	141.7	1.04	21.76	0.703	0.040
1032	73.9	0.116	0.050	125.5	5.80	18.72	0.845	0.171
1033	76.9	0.594	0.157	126.4	9.48	18.75	1.175	0.353
1034	65.3	0.133	0.068	118.8	4.91	34.55	0.661	0.572
1035	75.0	0.121	0.286	139.1	1.06	23.93	0.696	0.479
1036	72.6	0.168	0.300	117.0	1.40	23.24	1.051	0.681
1037	75.0	0.519	0.154	114.2	8.41	20.52	1.130	0.297
1038	66.7	0.196	0.228	129.8	2.15	29.45	0.734	0.247
1039	64.5	0.067	0.155	126.6	1.07	31.55	0.764	0.456
1040	66.1	0.041	0.030	115.1	3.38	29.97	0.906	0.273
1041	78.3	0.033	0.059	118.8	1.40	21.63	0.905	0.123
1042	73.4	0.041	0.015	104.1	7.01	26.52	0.887	0.873
1043	65.8	0.157	0.187	124.1	2.10	28.32	0.772	0.228
1044	75.4	0.107	0.096	77.3	2.78	21.91	0.987	0.023
1045	73.1	0.573	0.158	133.9	9.09	22.03	0.777	0.141
1046	69.3	0.219	0.312	72.1	1.76	28.64	0.705	0.495
1047	80.2	0.454	0.202	132.5	5.61	16.37	0.941	0.299
1048	69.2	1.601	0.190	132.5	21.03	24.00	0.602	0.259
1049	69.3	0.246	0.195	133.5	3.15	26.53	0.820	0.216
1050	79.0	0.216	0.128	102.3	4.21	16.54	1.025	0.252
1051	68.8	0.362	0.645	130.7	1.40	28.03	0.667	0.152
1052	75.5	0.409	0.224	138.1	4.56	20.64	0.705	0.353
