

Supplementary Table 1: Raw Data of the diabetes group

Demographics					Diabetes data					Nerve conduction velocity [m/s]			
ID	age [y]	sex	height [cm]	weight [kg]	duration [y]	AB	Hb A1c [%]	mean Hb A1c* [%]	VPT	peroneal nerve	tibial nerve	median motor nerve	median sensory nerve
1	16.9	m	183.0	73.8	9.5	pos	10.8	9.5	8/8	42.0	42.0	n.t.	n.t.
2	22.1	f	161.5	41.8	18.4	neg	9.0	8.6	<8/8	45.6	45.9	59.0	50.0
3	16.3	f	169.3	76.9	4.9	pos	7.5	7.0	n.t.	46.0	46.0	56.0	52.0
4	20.0	m	184.6	82.5	7.9	pos	7.1	7.3	<8/8	47.0	n.t.	56.0	65.0
5	8.6	f	135.5	36.0	1.1	pos	6.6	-	<8/8	52.0	n.t.	61.0	43.0
6	14.7	m	170.9	25.5	13.1	pos	7.9	9.0	<8/8	41.0	41.7	54.7	48.0
7	20.5	m	175.8	59.4	6.1	pos	6.5	14.2	<8/8	40.0	49.0	49.0	48.0
8	14.0	m	164.8	76.4	8.7	pos	10.2	7.9	<8/8	48.0	48.0	54.0	46.0
10	9.3	m	138.2	28.4	1.4	pos	8.2	7.3	8/8	47.0	48.4	60.9	47.5
11	14.9	f	164.3	60.8	1.5	pos	7.0	7.3	8/8	48.0	58.0	51.0	50.0
12	16.0	m	186.5	84.4	8.0	pos	8.5	8.3	<8/8	42.0	40.0	54.0	46.0
13	18.2	m	174.1	75.6	10.8	pos	7.1	7.9	8/8	50.0	49.0	58.0	49.0
14	12.8	m	186.4	76.4	1.0	pos	6.3	-	n.t.	41.7	39.4	58.2	58.3
15	13.4	m	172.3	65.5	10.0	pos	8.4	8.4	n.t.	47.7	39.4	57.1	52.1
16	17.2	m	169.8	93.7	11.4	pos	8.7	8.3	<8/8	49.2	47.0	56.8	52.2
17	21.9	m	183.2	94.3	17.9	pos	8.4	8.6	<8/8	44.2	n.t.	56.1	59.1
18	18.3	f	165.4	58.8	6.3	pos	7.8	8.2	<8/8	43.0	40.0	59.0	46.0
19	17.0	m	173.0	60.5	1.9	pos	12.7	8.4	n.t.	47.6	45.6	52.6	50.0
21	15.0	f	171.5	79.7	7.8	pos	9.2	8.2	8/8	40.0	40.0	50.0	57.0
22	12.6	m	159.5	65.4	1.9	pos	6.8	7.3	n.t.	48.0	n.t.	57.0	57.0
24	7.5	m	123.2	22.0	5.3	pos	7.4	8.5	8/8	49.0	47.0	58.0	50.0
25	13.3	f	156.7	50.4	2.5	pos	6.9	7.1	8/8	48.0	41.0	55.0	42.0
26	10.4	f	148.2	39.8	1.1	pos	7.6	-	n.t.	54.0	52.0	63.0	56.0
27	16.1	m	180.8	66.8	5.5	pos	7.9	7.6	<8/8	47.0	49.0	57.0	52.0
28	5.9	f	120.4	20.7	1.8	pos	6.2	6.6	8/8	54.0	45.0	53.0	54.0
29	15.3	f	176.8	66.2	3.5	pos	6.6	6.8	<8/8	46.0	46.0	68.0	n.t.
30	19.0	f	160.0	62.0	10.5	pos	7.4	7.0	<8/8	53.1	52.9	62.2	57.5
31	23.8	m	178.6	72.0	15.7	pos	7.6	8.1	<8/8	44.0	45.0	58.0	55.0
32	12.7	m	165.7	53.9	8.6	pos	7.6	7.6	<8/8	43.6	45.2	51.1	54.2
33	13.5	f	162.0	49.1	2.6	pos	9.2	7.0	8/8	n.t.	n.t.	51.3	n.t.
34	9.7	m	154.2	53.1	1.8	pos	7.6	7.3	<8/8	44.9	44.3	52.5	50.0
35	16.8	f	176.4	64.1	2.3	pos	8.1	7.7	<8/8	40.9	43.0	54.3	n.t.
36	16.4	f	165.0	75.2	4.3	pos	10.1	7.4	<8/8	41.8	43.8	53.0	n.t.
37	17.8	f	163.4	57.1	6.7	pos	7.9	9.3	8/8	49.3	48.0	53.7	n.t.

Demographics					Diabetes data					Nerve conduction velocity [m/s]			
ID	age [y]	sex	height [cm]	weight [kg]	duration [y]	AB	Hb A1c [%]	mean Hb A1c* [%]	VPT	peroneal nerve	tibial nerve	median motor nerve	median sensory nerve
38	19.1	f	159.0	70.2	11.7	pos	8.7	8.7	n.t.	50.8	n.t.	53.7	56.5
39	15.6	m	175.7	81.6	5.8	pos	9.1	8.7	<8/8	43.8	54.8	53.4	50.0
40	17.8	f	166.5	66.1	6.1	pos	8.1	8.5	8/8	47.4	47.4	51.1	n.t.
41	12.7	m	166.0	56.2	5.0	pos	8.1	7.7	8/8	44.0	43.0	55.0	48.0
42	9.8	f	146.5	37.2	2.5	pos	7.5	8.3	n.t.	50.0	47.0	55.0	56.0
43	14.5	f	155.2	59.9	4.9	pos	8.8	8.5	<8/8	35.9	39.6	52.6	n.t.
44	10.4	f	137.0	37.1	1.3	pos	7.5	7.0	8/8	54.7	53.3	58.1	52.3
45	13.7	f	154.3	48.3	7.4	pos	6.4	6.8	<8/8	47.0	47.0	57.0	62.0
46	8.9	m	136.0	33.0	0.6	pos	7.8	-	n.t.	55.0	53.0	62.0	56.0
48	12.4	m	161.3	52.8	2.7	pos	6.3	6.2	8/8	45.0	48.0	55.0	50.0
49	13.0	m	148.6	47.7	2.0	pos	7.3	6.1	<8/8	52.0	48.0	57.0	54.0
50	11.5	f	143.8	37.5	3.4	neg	7.1	7.2	8/8	50.0	52.0	56.0	51.0
51	10.6	m	137.8	35.5	4.6	pos	8.6	8.3	8/8	49.2	48.4	55.6	49.1
52	9.9	m	138.2	31.4	6.9	pos	7.4	8.0	8/8	54.5	52.6	59.4	47.0
54	19.7	f	160.0	58.7	16.3	pos	8.4	7.8	8/8	44.0	45.0	65.0	41.0
55	14.4	m	164.5	60.8	0.7	pos	5.6	-	n.t.	50.0	51.0	55.0	50.0
56	15.4	f	174.2	58.2	10.2	neg	8.6	8.70	<8/8	44.0	41.0	59.0	57.0
57	9.3	f	143.7	50.0	4.4	pos	7.7	9.00	<8/8	48.0	47.0	55.0	61.0
58	18.1	f	165.3	61.1	5.5	pos	12.9	12.20	n.t.	43.0	38.0	51.0	59.0

AB – diabetes-specific antibody positive (pos)/ negative (neg), VPT – vibration perception threshold 8/8 = normal/ < 8/8 = reduced/ not tested (n.t.), f – female, m – male, * = mean HbA1c of the last 5 annual check-ups