

SUPPLEMENTARY MATERIAL TO
**Laboratory data clustering in defining population cohorts:
 Case study on metabolic indicators**

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TABLE S-I. Review of cluster parameters by gender, season and age group with median values (above the parentheses), ranges (in the parentheses) and number of cases (below the parentheses)

Parameter/ Demographic data			Concentration, mM								
Gender	Season	Age (years)	Glucose			Cholesterol			Triglycerides		
			Cluster 1	Cluster 2	Cluster 3	Cluster 1	Cluster 2	Cluster 3	Cluster 1	Cluster 2	Cluster 3
Male	Autumn- Winter	20-40	5.3	5.1	7.6	6.3	4.7	5.9	2.0	1.1	1.9
			(2.3-7.0)	(3.9-6.9)	(6.1-20.6)	(4.9-10.0)	(2.8-5.9)	(3.1-19.6)	(0.4-13.8)	(0.3-4.3)	(0.4-58.8)
		515	694	42							
		41-60	5.6	5.4	8.1	6.5	4.8	5.7	2.1	1.2	2.3
			(2.5-7.9)	(3.0-7.5)	(5.9-24.0)	(4.6-12.3)	(2.5-5.7)	(2.6-10.1)	(0.5-15.2)	(0.3-5.0)	(0.7-31.6)
		1363	898	435							
	> 60	5.8	5.6	8.2	6.4	4.6	5.4	1.7	1.1	1.9	
		(3.6-8.2)	(2.7-7.5)	(5.0-22.6)	(5.0-11.1)	(2.3-5.8)	(2.8-10.2)	(0.5-8.6)	(0.3-5.6)	(0.3-26.8)	
	1181	1447	624								
	Spring- Summer	20-40	5.3	5.1	7.9	6.3	4.7	5.5	2.0	2.1	2.4
			(2.6-6.9)	(3.4-7.1)	(5.1-21.3)	(4.8-10.4)	(3.0-5.8)	(3.4-9.4)	(0.4-12.9)	(0.3-5.4)	(0.4-21.7)
		532	707	37							
41-60		5.5	5.4	8.3	6.5	4.8	5.8	1.9	1.2	2.5	
		(3.8-7.4)	(3.6-7.4)	(5.1-24.5)	(4.7-17.9)	(2.6-5.8)	(2.4-13.5)	(0.3-14.6)	(0.3-5.0)	(0.6-35.2)	
1410		922	411								
> 60	5.7	5.6	8.1	6.4	4.6	5.4	1.7	1.1	1.8		
	(4.0-7.5)	(3.6-7.6)	(5.3-28.0)	(4.9-11.0)	(1.6-5.8)	(2.3-17.9)	(0.5-9.9)	(0.3-4.5)	(0.5-50.4)		
1241	1564	649									
Female	Autumn- Winter	20-40	5.0	4.9	8.7	6.3	4.6	5.2	1.3	0.8	1.5
			(3.7-7.1)	(3.3-7.1)	(6.2-19.0)	(4.9-10.6)	(2.5-5.9)	(2.8-10.7)	(0.4-8.7)	(0.2-4.3)	(0.6-26.1)
	473	1310	13								
	41-60	5.4	5.2	8.1	6.6	5.0	5.9	1.5	1.0	2.1	
		(3.8-7.6)	(3.3-7.4)	(5.8-20.6)	(5.0-12.7)	(3.0-5.9)	(2.5-10.5)	(0.4-13.1)	(0.4-5.2)	(0.7-18.2)	
	1803	1104	210								
> 60	5.6	5.4	8.3	6.6	4.9	5.6	1.6	1.2	2.1		
	(3.0-7.8)	(2.6-7.5)	(6.3-26.7)	(5.1-12.4)	(2.1-5.8)	(1.6-10.6)	(0.5-10.3)	(0.3-4.9)	(0.6-16.4)		
2035	1293	637									

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Parameter/ Demographic data			Concentration, mM								
Gender	Season	Age (years)	Glucose			Cholesterol			Triglycerides		
			Cluster 1	Cluster 2	Cluster 3	Cluster 1	Cluster 2	Cluster 3	Cluster 1	Cluster 2	Cluster 3
Female	Spring- Summer	20-40	5.0 (3.7-7.2) 490	4.9 (3.0-7.3) 1292	8.2 (6.3-19.8) 28	6.2 (5.2-11.1)	4.7 (2.3-5.9)	5.75 (3.8-10.9)	1.3 (0.4-6.9)	0.8 (0.3-4.0)	1.1 (0.4-9.3)
		41-60	5.4 (3.9-8.8) 2036	5.1 (3.4-7.2) 1256	8.3 (6.1-27.6) 190	6.6 (4.4-13.6)	5.0 (2.8-5.9)	5.8 (3.4-17.5)	1.4 (0.4-10.4)	1.0 (0.4-5.1)	2.1 (0.6-23.2)
		> 60	5.6 (3.9-8.3) 2135	5.4 (2.8-7.4) 1386	8.4 (6.3-21.9) 686	6.6 (5.0-15.6)	4.9 (2.0-5.9)	5.6 (2.4-10.8)	1.5 (0.4-8.7)	1.2 (0.4-5.2)	2.0 (0.5-13.2)