



						Ris by parametric method												LAVE effect on LL						LAVE effect on UL						btw-sex diff		btw-age diff		btw-age diff		Decision									
Item	Units	RU	SDR sex	SDR age	LAVE criteria	LAVE	Age	M + F				M				F				M+F	M	F	M+F	M	F	BR <sub>LL</sub>	BR <sub>UL</sub>	BR <sub>LL</sub>	BR <sub>UL</sub>	BR <sub>LL</sub>	BR <sub>UL</sub>	BR <sub>LL</sub>	BR <sub>UL</sub>												
								n	LL	Me	UL	n	LL	Me	UL	n	LL	Me	UL																										
HDL-C	mmol/L	0.1	0.31	0.00	0.00	1	(+)	All	395	0.8	1.2	1.8	198	0.7	1.1	1.7	218	0.8	1.2	1.8	HDL-C	-0.39	0.00	0.00	-0.39	0.00	0.00	-0.39	-0.39									LAVE- with its effect of ≤2RU							
HDLrat		0.1	0.34	0.38	0.45	1	(-)	All	530	2.5	4.0	7.0	259	2.6	4.3	7.6	271	2.5	3.8	6.1	HDLrat	-0.11	-0.18	0.00	0.74	0.36	0.36	0.09	1.31									Partition by age (female). LAVE-							
								1	(+)	396	2.6	3.9	6.3	198	2.8	4.3	7.2	219	2.5	3.8		5.8	0.32	1.48																					
								1	(-)	348	2.5	3.9	6.6	175	2.7	4.2	7.2	174	2.4	3.6		5.9	0.29	1.24	0.16	-0.47	-0.33	-0.87																	
								1	(+)	285	2.6	3.8	6.1	144	2.8	4.1	6.7	145	2.4	3.6		5.7	0.45	1.12	0.27	-0.53	-0.36	-0.83																	
								1	(-)	182	2.7	4.3	7.5	83	2.5	4.7	7.8	98	2.7	4.0		6.7	-0.16	0.90																					
nonHDL	mmol/L	0.1	0.00	0.32	0.35	1	(+)	All	532	2.0	3.4	5.6	260	2.1	3.5	5.9	273	2.0	3.3	5.3	nonHDL	0.00	0.00	0.00	0.08	0.41	0.32	-0.17	0.75											No partition by sex or age. LAVE-					
								1	(-)	409	2.0	3.4	5.3	203	2.1	3.5	5.6	223	2.0	3.3		5.2	0.11	0.65																					
								1	(+)	533	1.5	2.8	4.7	260	1.6	2.9	4.8	273	1.6	2.8		4.6	0.12	0.48																					
								1	(-)	396	1.7	2.8	4.5	198	1.7	2.9	4.8	219	1.6	2.8		4.5	0.00	0.25																					
								1	(+)	350	1.5	2.7	4.5	176	1.6	2.8	4.7	174	1.5	2.6		4.2	0.13	0.65	-0.12	-0.37	-0.26	-0.91																	
LDL-C	mmol/L	0.1	0.00	0.35	0.43	1	(-)	All	533	1.5	2.8	4.7	260	1.6	2.9	4.8	273	1.6	2.8	4.6	LDL-C	-0.28	-0.13	0.00	0.28	0.00	0.14	0.14	0.42													Partition by age for female. LAVE-			
								1	(+)	396	1.7	2.8	4.5	198	1.7	2.9	4.8	219	1.6	2.8		4.5	0.13	0.65	-0.12	-0.37	-0.26	-0.91																	
								1	(-)	350	1.5	2.7	4.5	176	1.6	2.8	4.7	174	1.5	2.6		4.2	0.29	0.73	-0.25	-0.76	-0.54	-1.08																	
								1	(+)	285	1.6	2.7	4.3	145	1.7	2.8	4.6	145	1.5	2.6		4.1	0.00	0.12																					
								1	(-)	183	1.7	3.1	5.0	84	1.7	3.2	5.0	99	1.7	3.0		4.9	0.00	0.38																					
Lip	U/L	1	0.06	0.16	0.14	1	(-)	All	527	9	27	68	257	8	29	75	272	10	25	63	Lip	0.00	0.00	0.08	0.29	0.25	0.23	-0.13	0.80													No partition by sex or age. LAVE-			
								1	(+)	392	9	26	64	194	8	29	71	218	9	24		60	-0.07	0.78																					
								1	(-)	528	8	18	55	259	10	22	64	269	7	15		35	0.25	2.42																					
								1	(+)	412	8	16	39	202	10	22	55	229	7	14		30	0.18	2.49	-0.22	-0.65	0.00	-0.42																	
								1	(-)	347	7	16	51	176	9	21	61	173	7	13		33	-0.13	0.00	0.00	1.70	1.44	0.71	0.26	2.35	-0.35	-1.31	-0.17	0.00											
ALT	IU/L	1	0.59	0.20	0.51	1	(+)	All	283	8	15	38	144	9	20	47	144	7	13	29	ALT	0.00	-0.08	-0.19	1.24	0.64	1.31	0.52	3.40													Partition by sex, LAVE+. No partition by age			
								1	(-)	181	10	20	60	84	12	25	70	96	7	18		36	0.39	2.67																					
								1	(+)	148	10	19	48	66	13	25	62	81	8	17		29	0.00	0.34	2.22																				
								1	(-)	525	16	23	39	258	17	25	45	266	15	21		32	0.00	0.00	0.00	1.38	0.85	0.84	0.46	2.54															
								1	(+)	409	16	22	33	206	17	25	40	227	15	21		29	0.15	-0.11																					
ALP	IU/L	1	0.00	0.17	0.69	1	(-)	All	531	50	85	153	260	53	88	153	270	49	83	156	ALP	0.00	-0.04	0.04	0.08	0.00	0.31	0.26	0.98	0.04	0.08	-0.29	-1.61									Partition by age for females. LAVE-			
								1	(+)	394	50	84	151	198	54	87	153	218	48	81		148	0.23	0.19																					
								1	(-)	347	50	81	142	176	53	86	153	172	47	77		130	0.26	0.98	0.04	0.08	-0.29	-1.61																	
								1	(+)	282	50	80	142	145	54	87	156	144	47	75		129	0.30	1.15	0.16	0.00	-0.24	-1.41																	
								1	(-)	183	54	95	163	84	52	92	151	99	55	100		174	-0.11	-0.83																					
AMY	IU/L	1	0.02	0.00	0.00	1	(+)	All	530	47	87	164	258	48	87	163	272	45	85	160	AMY	0.00	-0.04	0.04	0.37	0.07	0.21	0.18	0.26														No partition by sex or age. LAVE-		
								1	(-)	394	47	87	154	197	49	90	161	218	44	85		154	-0.10	-0.13																					
								1	(+)	530	138	189	257	259	136	187	255	271	139	190		259	0.00	0.00	0.00	1.14	0.42	1.82	-0.01	-0.24															
								1	(-)	409	136	187	249	207	139	186	250	225	138	189		250	0.00	0.00	0.00	1.14	0.42	1.82	-0.01	-0.24															
								1	(+)	529	61	139	380	259	72	167	460	268	53	119		260	0.23	2.46																					
LDH	IU/L	1	0.00	0.00	0.28	1	(-)	All	406	58	135	332	203	76	172	440	219	54	119	277	LDH	0.04	-0.04	-0.02	0.69	0.22	-0.30	0.31	2.33														No partition by sex or age. LAVE-		
								1	(+)	524	12	25	88	257	12	31	105	269	10	21		50	0.10	2.84																					
								1	(-)	405	11	24	65	199	13	31	90	224	10	21		47	0.07	-0.05	0.00	1.67	0.76	0.32	0.22	3.12															
								1	(+)	528	0.22	1.22	18.86	255	0.20	1.01	14.35	273	0.23	1.54		20.2	0.00	0.00	0.00	1.14	0.42	1.82	-0.01	-0.24															
								1	(-)	425	0.21	1.10	14.67	200	0.20	0.97	12.97	216	0.23	1.41		13.9	0.00	0.00	0.00	1.14	0.42	1.82	-0.01	-0.24															
Fe	μmol/L	0.1	0.39	0.10	0.04	3	(-)	All	526	4.3	15.8	29.0	253	7.7	17.5	29.9	273	3.9	13.7	29.3	Iron	-0.88	-0.44	-0.65	0.02	0.25	0.00	0.45	-0.12												No partition by sex or age. LAVE+				
								3	(+)	412	8.8	16.1	28.9	207	9.8	17.4	28.7	20																											

										Ris by parametric method															LAVE effect on LL			LAVE effect on UL			btw-sex diff		btw-age diff		btw-age diff		Decision
				M	F																					M		F									
				M + F			M				F																										
Item	Units	RU	SDR sex	SDR age	LAVE criteria	LAVE	Age	n	LL	Me	UL	n	LL	Me	UL	n	LL	Me	UL	Item	BR <sub>LL</sub>			BR <sub>UL</sub>			BR <sub>LL</sub>	BR <sub>UL</sub>	BR <sub>LL</sub>	BR <sub>UL</sub>	BR <sub>LL</sub>	BR <sub>UL</sub>					

\*Reference tests used for LAVE

1. Alb, Glb, UA, Glu, TG, nonHDL, AST, ALT, LDH, GGT, CK, CRP
2. TP, Alb, Glb, IgG, IgA, IgM, CRP, WBC, PLT
3. Ferr, Fe, Tf, TFSat, Hb, Hct, MCV
4. Individuals positive with anti-thyroid antibodies were excluded.

Note:

1. SDRsex and SDRage: Bold interface represents value >0.4
2. Reporting unit (RU) represents a unit of value rounded up for reporting test results. If number of digit below decimal point is 2, 1, or 0, RU is 0.01, 0.1, or 1, respectively.  
If the width of RI (UL-LL) is comprised of more than 50 RU, we compute (UL-LL)×0.02 and round it up for use as RU.  
For example, if RI = 20~180, we first compute (180-20) × 0.02 = 3.3 and round it up to 5 for use as RU. Similarly, if RU=0.1 and RI=1.8~13.4, (13.4-1.8) × 0.02 =0.232 was rounded up as 0.2 for RU.  
RU was referred to when between subgroup difference at LL or UL expressed as BiasLL or BiasUL do not match with actual differences, which should be ≥3RU for partitioning.
3. Red bold font represents proposed RIs
4. BRLL and BRUL : Bold interface represents values < -0.375 or > 0.375