

Supplementary Table SI. Upper reference limit values of AST/ALT ratio using 4 different percentiles according to gender

Index	Gender							
	Men				Women			
	Mean	SD	CV	Ratio*	Mean	SD	CV	Ratio*
95 th percentile	1.953	0.206	10.6%	1.00	2.091	0.163	7.8%	1.00
97.5 th percentile	2.200	0.229	10.4%	1.13	2.365	0.188	8.0%	1.13
99 th percentile	2.665	0.314	11.8%	1.36	2.868	0.267	9.3%	1.37
99.5 th percentile	3.044	0.395	13.0%	1.56	3.343	0.371	11.1%	1.60

*Ratio is defined as ratio of mean values relative to the corresponding 95th percentile values. SD – standard deviation, CV – coefficient of variance.

Supplementary Table SII. Chronological changes of ALT, AST, GGT, and AST/ALT ratio according to age groups and percentile values by gender

Parameter	Parameter															
	ALT				AST				GGT				AST/ALT ratio			
	95 ^t h	97.5 ^t h	99 ^t h	99.5 ^t h	95 ^t h	97.5 ^t h	99 ^t h	99.5 ^t h	95 ^t h	97.5 ^t h	99 ^t h	99.5 ^t h	95 ^t h	97.5 ^t h	99 ^t h	99.5 ^t th
Men																
Age group*																
Group 1	D	D	D	D	V	V	I	V	I	I	I	I	V	V	V	V
Group 2	D	D	D	D	V	V	V	V	D	I	V	I	V	V	I	V
Group 3	D	D	D	A	V	V	D	V	D	I	I	I	V	V	V	V
Group 4	D	A	A	A	I	I	A	D	D	D	A	V	I	V	I	V
Group 5	D	A	A	A	D	A	D	D	I	A	A	D	I	V	D	D
Group 6	D	D	D	D	D	V	D	D	D	D	D	A	I	V	V	A
Group 7	D	V	V	V	V	V	V	D	A	I	A	I	V	V	V	V
Women																
Age group*																
Group 1	I	I	I	A	I	I	I	I	I	I	I	I	D	D	V	V
Group 2	I	I	A	A	I	I	I	I	I	I	I	A	D	D	D	D
Group 3	A	A	A	A	I	I	I	D	A	A	A	A	V	V	V	D
Group 4	A	A	A	D	V	D	I	I	A	D	V	I	V	V	V	D
Group 5	D	D	D	A	D	D	D	V	I	I	I	V	V	V	V	V
Group 6	D	D	A	I	A	V	I	I	I	A	A	I	V	V	D	A
Group 7	D	D	V	V	D	V	I	A	I	I	I	I	I	I	V	D

*Group 1: 40–44; Group 2: 45–49; Group 3: 50–54; Group 4: 55–59; Group 5: 60–64; Group 6: 65–69; Group 7: 70–74 years old at year 2002 or 2003. D – decremental change; I – incremental change; A – A-shaped change which is incremental during the first period followed by decremental change during the second period; V – V-shaped change which is decremental during the first period followed by incremental change during the second period.