Summer Project 2025

1 List of Variables

1.1 Li et al.

Name of Variable	Level/Unit
Age	Year
Gender	Male, Female
BMI	kg/m^2
Poverty-income Ratio	
Race	Mexican-American, other Hispanic,
	non-Hispanic white and black, other race
Diabetes	Y/N
Smoking	Y/N
Protein	gm
Vitamin-C	mg
Mercury, Total	$\mathrm{umol/L}$
Blood Cadmium	$\mathrm{nmol/L}$
Hypertension	n (%)
Activity	Light, Moderate, Vigorous
Overweight/Obesity	Y/N
Drinking Alcohol	Never, Moderate, Excessive
MAFLD (Metabolic-dysfunction Associated Fatty Liver Disease)	Y/N

Special Variables	Full Abbreviation	Unit/Formula/Criteria
MAFLD	Metabolic-dysfunction Associated Fatty Liver Disease	Histologic Imaging or blood
		biomarker evidence of hepatic steatosis
		(must) and one of these three criteria:
		Overweight/Obesity,
		Presence of Type-2 Diabetes ,
		Evidence of metabolic derangement .
AGTR	Albumin to glutamyl transpeptidase ratio	albumin (g/L)/ GGT(U/L)
AIP	Plasma Atherogenicity Index	$\log(TG/HDL - c)$
UHR	Serum Uric Acid to High Density Lipoprotein Cholesterol Ratio	Serum Uric Acid (mg/dL)/ HDL-c (mg/dL)
ALP	Alkaline Photophase	U/L
WC	Waist Circumference	cm
ALB	Albumin	m g/L
ALT	Alanine Aminotransferase	U/L

1.2 Shen et al.

Name of Variables (different from Li et al.)	Level/Unit
Height	_
Systolic Blood Pressure	mmHg
Diastolic Blood Pressure	mmHg
Duration of hypertension	< 5 years and > 5 years
AST/ALT	_
GGT	U/L
TBIL	umol/L
DBIL	umol/L
IBIL	umol/L
Serum Creatinin	umol/L
Uric Acid	umol/L
Total Cholesterol	mmol/L
TG	$\operatorname{mmol}'/\operatorname{L}$
HDL-c	$\mathrm{mmol}'/\mathrm{L}$
LDL-c	$^{ m mmol/L}$
Fasting blood glucose	mmol/L
HbA1c	%
hs-CRP	mg/DL
TYG index	
AISI	_
SIRI	_
SII	_
NLR	_
PLR	_
MLR	_
Dyslipidimia	_
Coronary Artery Disease	_
ACEI/ARB	_
β -blockers	_
Calcium Channel Blockers	_
Diuretic	_
Antidiabetic Agents	_
Lipid Lowering Drugs	
MAFLD (Metabolic-dysfunction Associated Fatty Liver Disease)	Y/N

^{**} AST: Aspertate Aminotranferase

1.3 Moon et al.

Name of Variables (different from 1.1 and 1.2)	Level/Unit
AST	U/L
Platelet	$10^{9}/{\rm L}$
eGFR	$mL/min/1.73m^2$
Homa-IR	_
Chronic Kidney Disease	_
Excess Alcohol Consumption	_
History of Viral Hepatitis	_
MAFLD (Metabolic-dysfunction Associated Fatty Liver Disease)	Y/N

1.4 Kim et al.

Name of Variables (different from 1.1-1.3)	Level/Unit
Alcohol Consumption	drinks/week
Lipid-lowering medication	%
Glucose	mg/DL
Insulin	uU/mL
MAFLD (Metabolic-dysfunction Associated Fatty Liver Disease)	Y/N

1.5 Tanaka et al.

Name of Variables (different from 1.1-1.4)	Level/Unit
Alcohol Consumption	drinks/week
Lipid-lowering medication	%
Glucose	mg/DL
Insulin	uU/mL
MAFLD (Metabolic-dysfunction Associated Fatty Liver Disease)	Y/N

1.6 Musso et al.

Name of Variables (different from 1.1-1.5)	Level/Unit
Metabolic Syndrome	-
Cirrhosis	-

1.7 Huang et al.

Name of Variables (different from 1.1-1.6)	Level/Unit
ALP	U/L
NFS Score	_ `
APRI Score	_
FIB-4 Score	_
Severity of Hepatic Steatosis	None, Mild, Moderate, Severe
History of Miocardial Infraction	Y/N
History of Congestive Heart Failure	Y/N
History of Stroke	Y/N
Elevated Liver Enzymes	Y/N
Iron Overload	Y/N