Supplemental Material 5: Fatty liver index and triglyceride glucose index calculation

Calculation of Fatty Liver Index:

Some of the blood parameters will be used to calculate a Fatty Liver index (FL) using the formula of Bedogni et al.\(^1\), with measured values for BMI, fasting TG (mg/dL), fasting GGT (U/L) and waist circumference (cm), as follows:

\[
FLI = \frac{(e^{0.953\times\text{loge}}(\text{triglycerides}) + 0.139\times\text{BMI} + 0.718\times\text{loge}(\text{gg}) + 0.053\times\text{waist circumference - 15.745})}{(1 + e^{0.953\times\text{loge}}(\text{triglycerides}) + 0.139\times\text{BMI} + 0.718\times\text{loge}(\text{gg}) + 0.053\times\text{waist circumference - 15.745})^100}
\]

Calculation of Triglyceride Glucose Index:

The formula of Simental-Mendía et al.\(^2\) will be measured with measured fasting TG (mg/dL) and fasting glucose (mg/dL), by dividing the Ln of the TG *glucose product by 2:

\[
\text{TyG index} = \text{Ln} [(\text{fasting triglycerides} \text{ (mg/dL)} \times \text{fasting glucose (mg/dL)})] / 2
\]
