(HDL).and the American Heart Association and American College of Cardiology.[52] There are several limitations of the Friedewalk equation as follows o The estimated LDL–C level is not accurate in patients with hypertriglyceridemia(up to 4.5mmol/l or 400 mg/dL) – such a setting warrants ultracentrifugal single spin analysis or immunoprecipitation technique o There is an underestimation of LDL–C level in patients with lower LDL–C (less than 25 mg/dL or 0.6 mmol/L) o There is an underestimation of intermediate–density lipoprotein(IDL), and some VLDL remnants which are considered atherogenicFirst developed in the 1960s, Friedewald equation has been used widely to estimate LDL–C which is (total cholesterol) – (high–density lipoprotein cholesterol [HDL–C]) – (triglycerides/5) in mg/dL for research as well as clinical purpose. Generally, a lipid profile or lipid panel consists of the following o Total cholesterol o High–density lipoprotein (HDL) cholesterol o Low–density lipoprotein (LDL) cholesterol o Triglycerides Cholesterol level measurement is from serum.