

Conversion of Plasma or Serum Alcohol to Whole Blood Alcohol (When hospital results are reported as milligrams)

Date _____

Defendant _____

Case # _____

Hospital value = _____ milligrams per deciliter of plasma

Average Conversion Factor (Plasma to Whole Blood) = 1.18

Plasma divided by Conversion Factor = Whole Blood value

Converted value = _____ milligrams per deciliter Whole Blood

OR

_____ grams per 100 milliliters Whole Blood

Truncated value = _____ grams per 100 milliliters Whole Blood

Example:

213 mg/dl (plasma) divided by 1.18 = 180 mg/dl (whole blood)
180 mg/dl whole blood = 0.180 gm/dl or .0180 gm/100 ml

Note:

100cc's = 1 deciliter = 100 milliliters

100 milligrams = 0.10 grams

Plasma value divided by Whole blood value = Conversion Factor. For these purposes Serum and Plasma are considered to be the same.

North Carolina citations: State v. Drdak, 330 N.C. 587 (1992), State v. Cardwell 133 N.C. App 496 (1999)