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| xi n = SD = http://standard-deviation.appspot.com/images/standard-deviation-2.pngCV% = (SD / ) \* 100%Mean – Target SDz-scoreBias = -True ValueAbsolute Bias =| -True Value|% bias = ( bias/target value) \* 100%TE = | -True Value| + (z factor \* SD) = | bias| + (z factor\*SD)| -True Value| + 2 SD ease for computation| -True Value| + 1.96 SD 97.5% of the population of data points included in the estimation of total error| -True Value| + 1.65 SD 95% of the population of data points included in the estimation of total error% TE = % bias +( z factor \* CV%) ≅ (TE in units / Target Value in units) \* 100% % bias + 2CV% ease for computation% bias + 1.96 CV% 97.5% of the population of data points included in the estimation of total error% bias + 1.65 CV% 95% of the population of data points included in the estimation of total errorTE < TEASigma = [(TEa - |biasobs|)/SDobs] ΔSEc = [(TEa - |biasobs|)/SDobs] - z factor = Sigma – z factor Sigma – 1.65 = ΔSEc value used by Dr. Westgard where 5% of the population of data points exceed TEA limitsSigma= ΔSEc + 1.65SDI= (lab – group)/ SDgroup CVI (CVR) = within lab CV/peer group CV |