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# Arithmetic progression way in calibration STD curve

**Hisham Hassan Ahmed Mohammedkhair**
University of Khartoum, Africa

At present, most of the clinical chemistry laboratory and analytical chemistry of the pharmacy worldwide use the equation of dilution in the preparation of calibration STD curve constructed from several numbers of points run in arithmetic progression manner. The equation of dilution "v1=m1.v2 /m1 " has problems concerning shortage of stock STD and increasing error possibilities because from its own idea of explanation depends on dilution one step number of mole before and after the step of dilution is constant; so I introduce an alternative method (Arithmetic progression way in the calibration STD curve) which from its own idea depends on the available volume (Av) {Av=Σstdv IAP=n÷2(n-1)d} the equation ; which solve the problems of equation of dilution; furthermore can be used to modify sensitive device automatic pipette to suck solution in arithmetic progression manner depending on difference and available volume; (A.P.W automatic pipette).

**Keywords:** Calibration STD graphs, Equation of dilution, Equation of prime arithmetic, Dilution equation, APW automatic pipette.

## Biography

Hisham Hassan Ahmed Mohammedkhairhas completed his Bachelor degree at University of Khartoum in Sudan and graduate study of qualifying year at the Institute of the Endemic Disease, University of Khartoum at age of 25 years. He is a laboratory manager of Almujlad Hospital attending several workshops in medical laboratory; with experience of seven years.

hishamhassan150@hotmail.com