Mp = Blood pownune Belone

Spo = Blood pownune After

n = total Observations = 100 => [n = 100]

in each Nibyi

100 0000000000000 00

- @ Measuro Dispersion in each and interprete the
- -> measure of Bispesion -> Measure of Bispesion (41) for Blood poners After (41)

property of the second of the

9999

(ni) max = 148, (ni) min = 120

Range = maxical - minimaline

$$D^2 = \sum_{i=1}^{N} (x_i - u_i)^2$$

Draviance

Using Excel

$$\sigma_{\lambda}^{2} = 43.53$$

3 std. deviation

3 Std deviation

- . There are other Measures of Dispersions also, there are many but there are the common mearous of Dispesion
- . As both data have similar unity that why Absolute Heavure of Dispersion & 10 Consideral. Relative measure ay Dispession will not provide any additional info in this care.

"After Blood remove" can be cause of anything like After Some Activity, Medication, Meal of etc. In our interpretation we will defen it as an "Event" because we have not clue about it.

- 1 Before the Evert the max'm value is min value observed among individuals are 148 & 120 and After the Every the maxim a min values are 141 and 118. we can clearly sec the Decrie max m & min value After the event.
- coores ponding to the suspective Data Before and After the Range before the Evertwar 28 and After the Event (it become morre nomower 123 (our len sprad out) 881 = 15.0 1

cost aniso _

- 3 the inc in values of state activation surviving creaty indicate increase increase in voriability of Blood ponous After the Event. In has done
- @ calcolate mean and 5% CI and plot It In a graph.

DETOD Before

· we will use I-D istoibution in calculation of lower O reignor CI. Beaude as sample size incremen appracher 2-Dist. So std.dw. will be considered as std. dew. of population. Iowa = Point - Ecolor Ecolor Estimate Estimate Estimate

= 133.91 - Zo.95 Th

 $= 133.91 - 0.06 \times \frac{6.6}{10}$ = 133.87

rughe CI = 133.91 + 0.06 × 6.6

righ CI = 133.94

,57.CI 133.87133.9/132.57

10ma = Estipate - maginal $= 128.36 - 20.05 \times \frac{6.6}{10}$ = 128.32righ CI = 128.36+20.95 × 6.8

right = 128.40

128.32 128.30 188.40

ortanico ab. bta @ calculate the Mean absolute deviation and standard deviation and interpret the own ofthe

Mean absolute Deviation Before

- calwhated using Excel

standard deviation = 6.6

standard duriation = 6.8

calculate the Education Coefficit and check the significance of it at 17. Well of significance.

or = sample correlation ted)

n = Sample 512e = 100

3 = Population conselation coefficit (unknown)

Pearson correlation = F 0.0

Thornwy (Apparach) - Tes-ting significance of connectation coefficient. · typothesia test of the significance of the cocretation Ine line an to decide wether Relationship in the sample data in strong Enough coefficial" in done to use for the population data. · we have no population data go we cannot calculate repulation connectation coefficient. But we have only Sample data, The Sample Goomalation Coefficient or 10 out estimate (point Estimate) of the unknown population connectation conficered (aux parameter) significantly different from Zeno maans: consolation coefficent io "significant" conclusion There is significant Everdones conclude that there to significant linear Relication -ship b/w nard of becabe donesation applicat ia siduiticated aither flower sow. - linear crequion line canbe used to model Hypotheria -me linear O Relation b/w XBY in the population HEDT -05 -means: coardation coefficient 10 1 not significant clode to zero in significant crelation the man some consideration of significant crelation the man some secure the consideration the many some consideration the many some consideration the significant crelation the significant crelation the significant crelation the significant crelation the significant crelations are significant creations. - ion Whot significantly different from zono. - me course not not cuedantion rue to made a Linear orelation by by noy in the population

T. C.O = TU Pop. coordation vono coeffint CI = 991/. NUIL Hypothesia Hois=0 (there is no significant or blue broy inpop) Atternate Hypothuig Hi: 9 =0 (autotion blue may inpop) p-value ro calculated) t = 55.44 coitical t-value for 2 tailed test at 17.

Library 0 with h-2 Dof which in 100-2=98