FORMULARIO OFICIAL DE
INTERVALOS DE CONFIANZA

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1. $IC(\mu) = \overline{X} \pm \dfrac{\sigma}{\sqrt{n}} z_{1-\alpha/2}$

2. $IC(\mu) = \overline{X} \pm \dfrac{S}{\sqrt{n}} t_{n-1,1-\alpha/2}$

3. $IC(\mu_1 - \mu_2) = (\overline{X} - \overline{Y}) \pm \sqrt{\dfrac{\sigma_1^2}{n_1} + \dfrac{\sigma_2^2}{n_2}} \times z_{1-\alpha/2}$

4. $IC(\mu_1 - \mu_2) = (\overline{X} - \overline{Y}) \pm S_p \sqrt{\dfrac{1}{n_1} + \dfrac{1}{n_2}} \times t_{n_1+n_2-2,1-\alpha/2}$

5. $IC(\mu_1 - \mu_2) = (\overline{X} - \overline{Y}) \pm \sqrt{\dfrac{S_1^2}{n_1} + \dfrac{S_2^2}{n_2}} \times t_{v,1-\alpha/2}$, $\qquad v = \dfrac{\left(S_1^2/n_1 + S_2^2/n_2\right)^2}{\dfrac{\left(S_1^2/n_1\right)^2}{n_1-1} + \dfrac{\left(S_2^2/n_2\right)^2}{n_2-1}}$.

6. $IC(\mu_1 - \mu_2) = \overline{d} \pm \dfrac{S_D}{\sqrt{n}} t_{n-1,1-\alpha/2}$

7. $IC(\sigma^2) = \left[\dfrac{(n-1)S^2}{\chi_{n-1,1-\alpha/2}^2} ; \dfrac{(n-1)S^2}{\chi_{n-1,\alpha/2}^2} \right]$

8. $IC(\sigma^2) = \left[\dfrac{\sum_{i=1}^{n}(X_i - \mu)^2}{\chi_{n,1-\alpha/2}^2} ; \dfrac{\sum_{i=1}^{n}(X_i - \mu)^2}{\chi_{n,\alpha/2}^2} \right]$

9. $IC(\sigma_2^2 / \sigma_1^2) = \left[\dfrac{S_2^2}{S_1^2} F_{n_1-1,n_2-1,\alpha/2} ; \dfrac{S_2^2}{S_1^2} F_{n_1-1,n_2-1,1-\alpha/2} \right]$

10. $IC(p) = \hat{p} \pm \sqrt{\dfrac{\hat{p}(1-\hat{p})}{n}} z_{1-\alpha/2}$

11. $IC(p_1 - p_2) = (\hat{p}_1 - \hat{p}_2) \pm \sqrt{\dfrac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \dfrac{\hat{p}_2(1-\hat{p}_2)}{n_2}} \cdot z_{1-\alpha/2}$

12. $IC(\theta) = \hat{\theta}_{MV} \pm \dfrac{1}{\sqrt{n I_1(\hat{\theta}_{MV})}} \cdot z_{1-\alpha/2}$, donde $I_1(\theta) = -E\left[\dfrac{\partial^2 \ln f(x,\theta)}{\partial \theta^2} \right]$