Konfidenialervell for
$$\sigma^2$$
 by σ :

$$X_{N_1,\dots,N_n} \stackrel{\text{wif}}{\sim} N(\mu_1\sigma^2) - V_i \text{ set at } \frac{(n-1)S^2}{\sigma^2} \sim X_{n-1}^2$$

$$V_i \text{ Lat:}$$

$$P\left(\frac{\chi^i_{n-4/2,n-1}}{(n-1)S^2} \leq \frac{(n-1)S^2}{\sigma^2} \leq \chi^i_{\text{ed}_{Z_i,n-n}}\right) = \lambda - \alpha$$

$$P\left(\frac{\chi^i_{n-4/2,n-1}}{(n-1)S^2} \leq \frac{\lambda}{\sigma^2} \leq \frac{\chi^i_{\text{ed}_{Z_i,n-n}}}{(n-1)S^2}\right) = \lambda - \alpha$$

$$P\left(\frac{(n-1)S^2}{\chi^i_{n-4/2,n-n}} \geq \sigma^2 > \frac{(n-1)S^2}{\chi^i_{\text{ed}_{Z_i,n-n}}}\right) = \lambda - \alpha$$

$$P\left(\frac{(n-1)S^2}{\chi^i_{n-4/2,n-n}} \geq \sigma^2 > \frac{(n-1)S^2}{\chi^i_{\text{ed}_{Z_i,n-n}}}\right) = \lambda - \alpha$$

$$P\left(\frac{(n-1)S^2}{\chi^i_{n-4/2,n-n}} \geq \sigma^2 > \frac{(n-1)S^2}{\chi^i_{\text{ed}_{Z_i,n-n}}}\right) = \lambda - \alpha$$

Hypotextering

• Through med selve: $H_0: P < 0.50$ $H_a: P > 0.50$ X = antell parienter son fills best resulted med my selve.

Vi anter X ~ Bin(a, p).

P(Type I-fail) = P(Forkerke Ho)Ho et sens) $= P(X > L | P \leq 0,50)$ $\leq P(X > L | P = 0,50) \leq 2$

Viece er P(X ≥ h| p=0,50) = 1-P(X ≤h-1|p=0,50)