

1 σ_1, σ_2 known

2 " unknown but equal

3. " " " not equal

$$\sqrt{s_p^2 \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}$$

②

$$\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

③

$$\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}$$

①

t with $df = n_1 + n_2 - 2$ ^②

Z ^①

t with $df = \min\{n_1 - 1, n_2 - 1\}$ ^③