$$y_{i} = \begin{cases} 6 + \begin{cases} k_{1} \cdot x_{i}^{(1)} + \dots + \begin{cases} k_{p} \\ k_{i}^{(1)} + \dots + k_{p} \\ k_{i}^{(1)} + \dots$$

test for TSLS

Wu-Haus man test

Ho: exogencity of regressors (B+3Ls - BOLS) (V(B+5LS) - V (B 025)) - (B+3LS - BOLS) ~ X2 Ho is rejected ptsls consistent consistent Ho: s not rejected 3025 cons, efficient inconsistent
exog end Sangar's Test for exogenity (Y-test) Ho: instruments are crogenous m>p $y_{i} / x_{i}^{(i)} , ..., x_{i}^{(p)} , w_{i}^{(i)} , ..., w_{i}^{(r)} => \hat{\mathcal{E}}_{i}$ Ê; \ Z; , ..., Z; , w; , ..., w; $J = m \cdot F \sim \chi^2 = m - H : histoments$

F-test for weak instruments
F-test for weak instruments (for relevance)
$X_i \setminus Z_i^{(i)}, \ldots, Z_i^{(m)}, \omega_i^{(i)}, \ldots, \omega_i^{(i)}$
$X_i \setminus Z_i, \ldots, Z_i, W_i, \ldots, W_i$
F stats for Ho: Ti= = Tm
7 > 10 => relarance
F<10 => weak instruments