

OEHA 2020

(4B) $n=30$ Y : $\mu\mu\mu\mu$ $X_1=1$: $\mu\mu\mu\mu$ A X_2 : $\mu\mu\mu\mu$ $\mu\mu\mu\mu$
 X_3 : $\mu\mu\mu\mu$ $\mu\mu\mu\mu$ $\mu\mu\mu\mu$

$$(i) AIC_2 = -2\hat{\ell}_2 + 2 \cdot 3 \Rightarrow \hat{\ell}_2 = -\frac{86.92-6}{2} \Rightarrow \hat{\ell}_2 = -40.46$$

$$D_1 - D_2 = -2(\hat{\ell}_1 - \hat{\ell}_2) \Rightarrow -\frac{29.21 - 26.22}{2} = \hat{\ell}_1 + 40.46 \Rightarrow$$

$$\Rightarrow \hat{\ell}_1 = 41.455, \text{ \acute{o}\mu\alpha } AIC_1 = -2\hat{\ell}_1 + 2 \cdot 2 \Rightarrow AIC_1 = 86.91$$

$$AIC_0 = -2\hat{\ell}_0 + 2 \cdot 1 \Rightarrow AIC_0 = 109.58$$

$$D_2 - D_3 = 27.22 - 25.95 = 1.27, \text{ p-value} = 0.259$$

$\mu\mu\mu\mu$ $\mu\mu\mu\mu$, $\mu\mu\mu\mu$ $\mu\mu\mu\mu$ D , $\mu\mu\mu\mu$ AIC , $\mu\mu\mu\mu$ X_1
 $\mu\mu\mu$ $\mu\mu\mu\mu\mu$ M_3

$$D_1 - D_2 = 1.99, \text{ p-value} = 0.158$$

$\mu\mu\mu$ $\mu\mu$ $\mu\mu\mu$ ($\mu\mu\mu\mu\mu$ M_2)

$$D_0 - D_1 = 24.67, \text{ p-value} < 0.001$$

$\mu\mu\mu\mu\mu$ M_0 , $\mu\mu\mu$ $\mu\mu\mu\mu$ $\mu\mu\mu\mu\mu\mu$ $\mu\mu$ M_1

$$\chi^2_{0.259} = 1.259 \rightarrow 25.9\% \text{ \acute{o}\mu\mu\mu\mu } \mu\mu\mu\mu\mu\mu\mu \text{ \acute{o}\mu } \mu\mu\mu \mu\mu\mu\mu \text{ \acute{o}\mu\mu}$$