

Milky-white flesh syndrome in Australasian snapper (*Chrysophrys auratus*) in New Zealand: Characteristics, causes, and consequences

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Diagnostic checks for ANOVA on Fulton's K

Residual normality (Shapiro-Wilk): $p = 0.355$
Homogeneity (Levene, mean-centered): $p = 0.549$

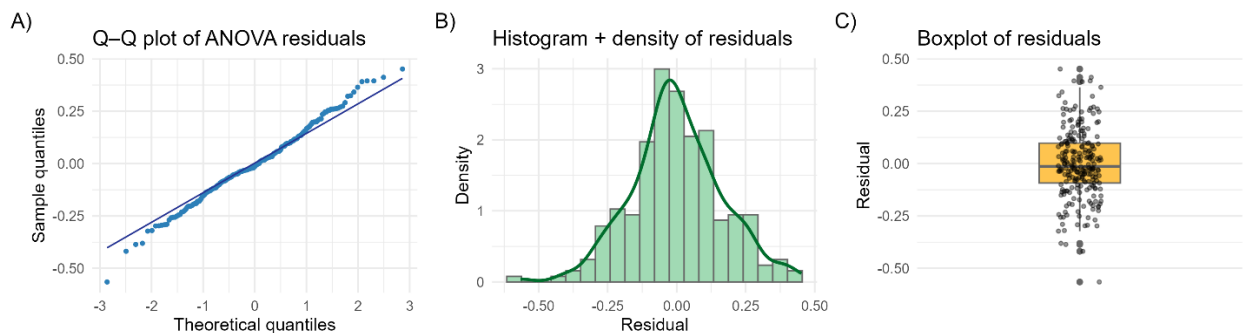


Fig. 1 Diagnostic checks for the ANOVA conducted for raw Fulton's condition index (K) data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.

GSI (raw) — ANOVA residual diagnostics

Residual normality (Shapiro-Wilk): $p = 0.003$ | Homogeneity (Levene): $p < 0.001$ | ANOVA: $p < 0.001$

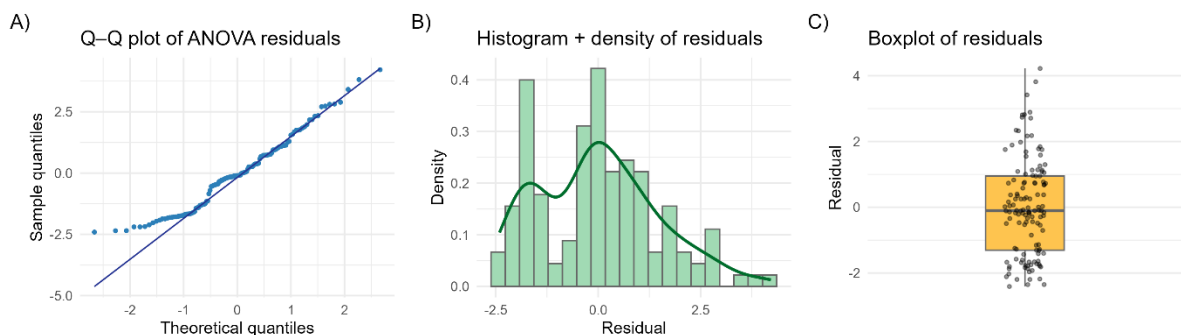


Fig. 2 Diagnostic checks for the ANOVA conducted for raw gonadosomatic index (GSI) data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.

GSI (log10 transform) — ANOVA residual diagnostics

Residual normality (Shapiro–Wilk): $p < 0.001$ | Homogeneity (Levene): $p = 0.210$ | ANOVA: $p < 0.001$

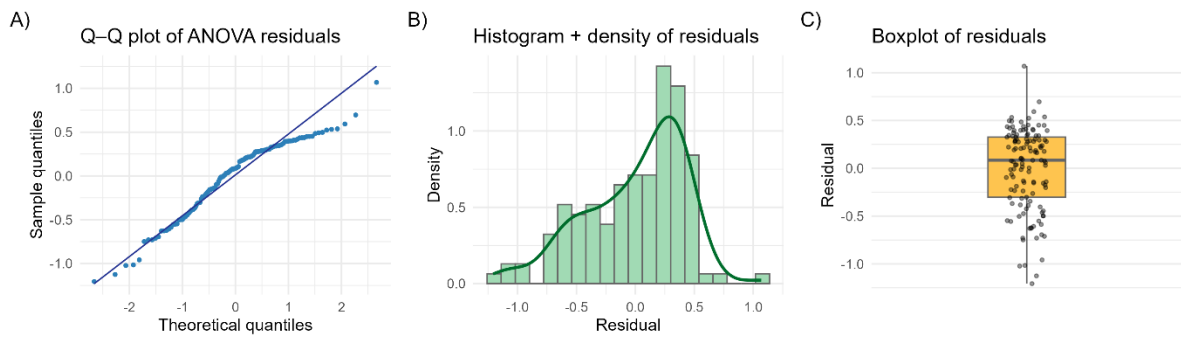


Fig. 3 Diagnostic checks for the ANOVA conducted for Log₁₀ transformation of GSI data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.

GSI (sqrt transform) — ANOVA residual diagnostics

Residual normality (Shapiro–Wilk): $p = 0.148$ | Homogeneity (Levene): $p < 0.001$ | ANOVA: $p < 0.001$

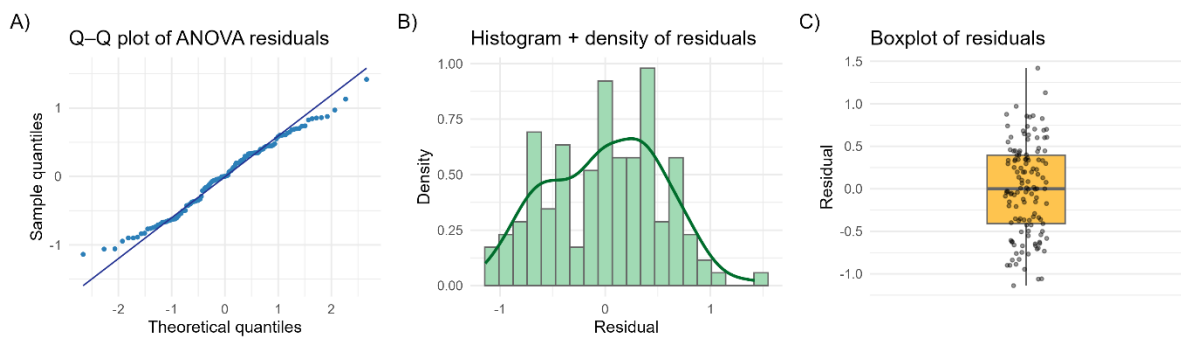


Fig. 4 Diagnostic checks for the ANOVA conducted for square-root transformation of GSI data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.

HSI (raw) — ANOVA residual diagnostics

Residual normality (Shapiro–Wilk): $p = 0.190$ | Homogeneity (Levene): $p = 0.004$ | ANOVA: $p < 0.001$

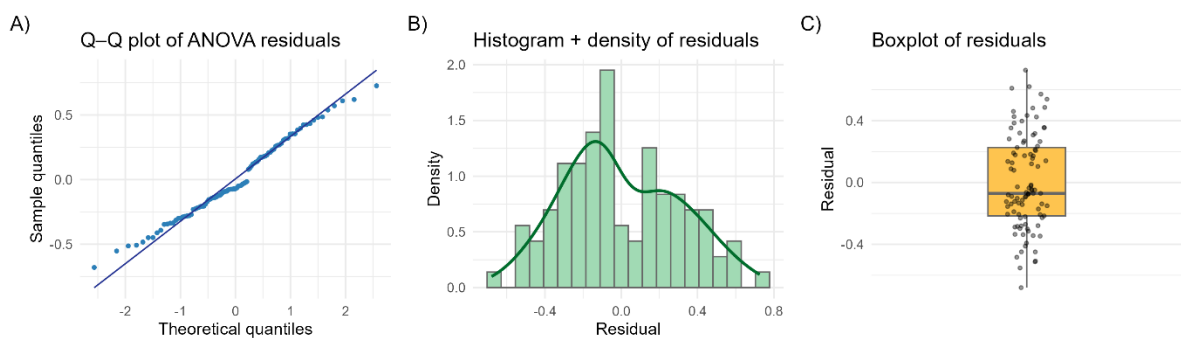


Fig. 5 Diagnostic checks for the ANOVA conducted for raw hepatosomatic index (HSI) data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.

HSI (log10 transform) — ANOVA residual diagnostics

Residual normality (Shapiro–Wilk): $p < 0.001$ | Homogeneity (Levene): $p = 0.443$ | ANOVA: $p < 0.001$

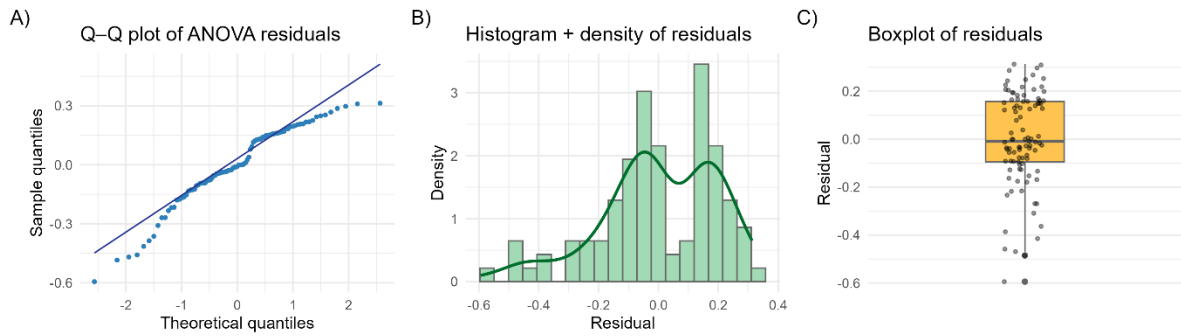


Fig. 6 Diagnostic checks for the ANOVA conducted for $\log_{10}$ transformation of HSI data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.

HSI (sqrt transform) — ANOVA residual diagnostics

Residual normality (Shapiro–Wilk): $p = 0.173$ | Homogeneity (Levene): $p = 0.056$ | ANOVA: $p < 0.001$

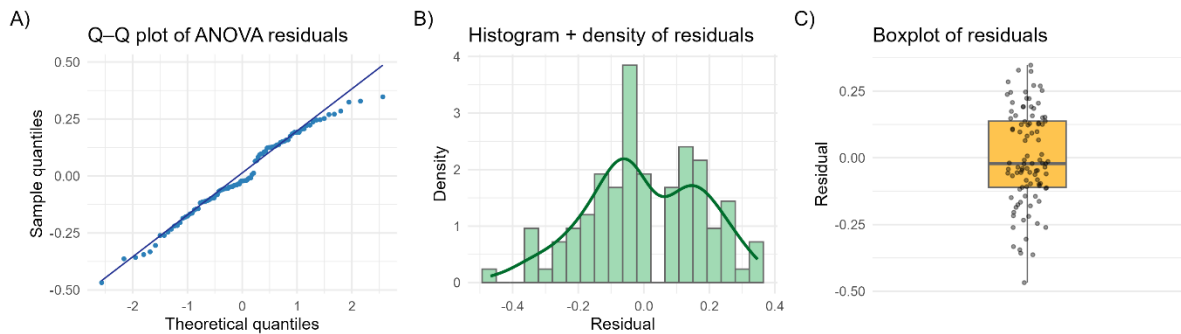


Fig. 7 Diagnostic checks for the ANOVA conducted for square-root transformation of HSI data. A) QQ plot of ANOVA residuals. B) Histogram plot of ANOVA residuals. C) Boxplot of ANOVA residuals.