BMDS Wizard Output Report

Male Rat Bodyweight BMD Modelling - BMDRelDev

**Filename:** C:\Users\rapturous\Desktop\BMDS Wizard v1.10-continuousRelDev.xlsm

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## BMDS Summary of Bodyweight ()

Table 1. Summary of BMD Modeling Results for Male Rat Body Weight; BMR = 10% rel. dev. from control mean

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Modela | Goodness of fit | | BMD10RD  () | BMDL10RD  () | Basis for model selection |
| *p*-value | AIC |
| Exponential (M2)  Exponential (M3)b | 0.307 | 417.11 | 68.3 | 49.6 |  |
| Exponential (M4) | 0.694 | 415.75 | 49.6 | 22.2 |
| Exponential (M5) | 0.694 | 415.75 | 49.6 | 20.2 |
| Hill | 0.524 | 417.59 | 53.5 | 22.3 |
| Powerc  Polynomial 4°d  Polynomial 3°e | 0.282 | 417.35 | 70.2 | 52.2 |
| Polynomial 2°f  Linearg | 0.282 | 417.35 | 70.2 | 52.2 |
| a Modeled variance case presented (BMDS Test 2 *p*-value = 0.0609, BMDS Test 3 *p*-value = 0.175), no model was selected as a best-fitting model.  b For the Exponential (M3) model, the estimate of d was 1 (boundary). The models in this row reduced to the Exponential (M2) model.  c The Power model may appear equivalent to the Polynomial 2° model, however differences exist in digits not displayed in the table. This also applies to the Linear model.  d For the Polynomial 4° model, the b4 coefficient estimate was 0 (boundary of parameters space). The models in this row reduced to the Polynomial 3° model.  e The Polynomial 3° model may appear equivalent to the Polynomial 2° model, however differences exist in digits not displayed in the table. This also applies to the Linear model.  f For the Polynomial 2° model, the b2 coefficient estimate was 0 (boundary of parameters space). The models in this row reduced to the Linear model.  g The Linear model may appear equivalent to the Power model, however differences exist in digits not displayed in the table. This also applies to the Polynomial 4° model. This also applies to the Polynomial 3° model. | | | | | |

Plot of mean response by dose with fitted curve for Exponential (M2) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 1. Plot of mean response by dose with fitted curve for Exponential (M2) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Exponential (M3) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 2. Plot of mean response by dose with fitted curve for Exponential (M3) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Exponential (M4) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 3. Plot of mean response by dose with fitted curve for Exponential (M4) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Exponential (M5) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 4. Plot of mean response by dose with fitted curve for Exponential (M5) model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Hill model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 5. Plot of mean response by dose with fitted curve for Hill model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Power model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 6. Plot of mean response by dose with fitted curve for Power model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Polynomial 4° model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 7. Plot of mean response by dose with fitted curve for Polynomial 4° model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Polynomial 3° model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 8. Plot of mean response by dose with fitted curve for Polynomial 3° model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Polynomial 2° model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 9. Plot of mean response by dose with fitted curve for Polynomial 2° model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Plot of mean response by dose with fitted curve for Linear model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .

Figure 10. Plot of mean response by dose with fitted curve for Linear model with modeled variance for Male Rat Body Weight; BMR = 10% rel. dev. from control mean; dose shown in .