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 |
| PowercPolynomial 4°dPolynomial 3°e | 0.282 | 417.35 | 70.2 | 52.2 |
| Polynomial 2°fLinearg | 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. |



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 .



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 .



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 .



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 .



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 .



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 .



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 .



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 .



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 .



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 .