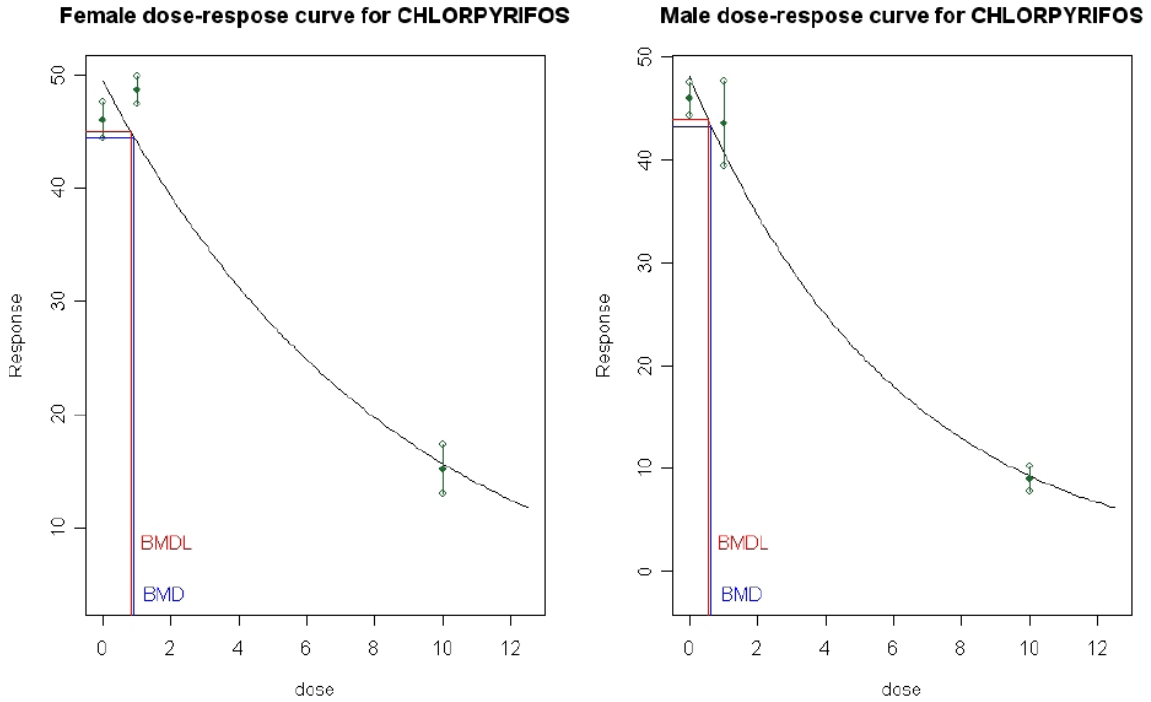


**Che pnd 12 brain 10%**  
**NO Power Model**  
**10% bmr**  
**Brain PND12**  
**Chlorpyrifos timchalk data**



**FEMALE = 3 HR**  
**MALE = 6 HR**

Redundancy Analysis

|                | 1     | 2     | 3     | 4     | 5     |
|----------------|-------|-------|-------|-------|-------|
| CondIndex      | 9.899 | 2.872 | 1.763 | 1.575 | 1.000 |
| mu             | 0.166 | 0.572 | 0.931 | 1.042 | 1.641 |
| IA.sexF        | 0.228 | 0.111 | 0.283 | 0.372 | 0.006 |
| IA.sexM        | 0.228 | 0.138 | 0.425 | 0.195 | 0.015 |
| ID.(Intercept) | 0.973 | 0.018 | 0.001 | 0.001 | 0.007 |

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|         |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|
| ID.sexM | 0.003 | 0.917 | 0.004 | 0.032 | 0.044 |
| lg      | 0.968 | 0.019 | 0.006 | 0.001 | 0.007 |

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Parameter Values and Relative Standard Errors (sigma == 1)

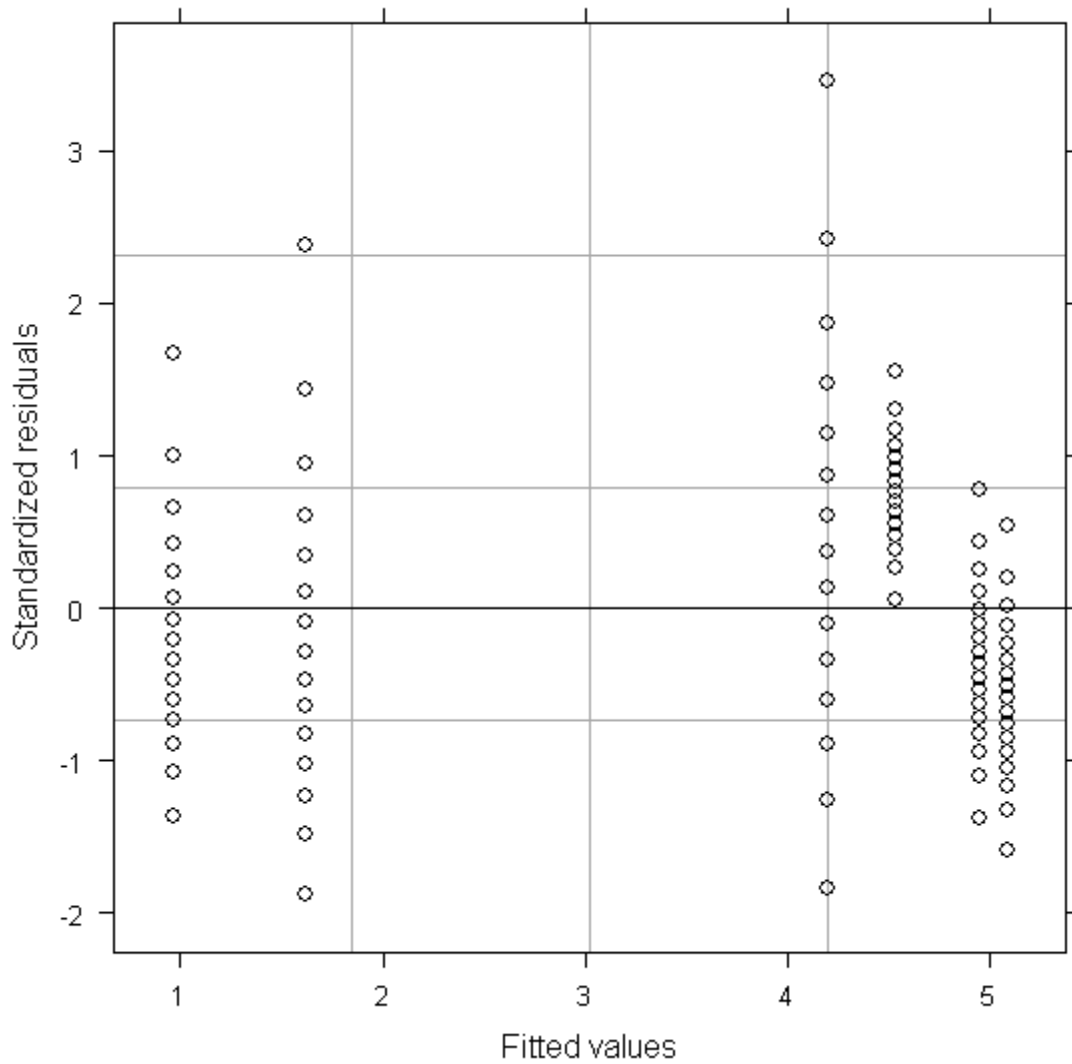
|                | Parms  | Relative SE |
|----------------|--------|-------------|
| lA.sexF        | 1.620  | 0.042       |
| lA.sexM        | 1.590  | 0.047       |
| ID.(Intercept) | -0.041 | 0.437       |
| ID.sexM        | -0.349 | 0.220       |
| lg             | -3.310 | 0.177       |

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Mean Absolute Value of Gradient

|                | Val       |
|----------------|-----------|
| lA.sexF        | 1.9055465 |
| lA.sexM        | 1.7218670 |
| ID.(Intercept) | 0.7353390 |
| ID.sexM        | 0.3608876 |
| lg             | 1.4270233 |

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\*\*\*\*\* USING WEIGHTED \*\*\*\*\*

KEEP FIRST MODEL WITH BMD DIFFERENT FOR MALES AND FEMALES.

AIC: 146.7739

Female intercept estimate (standard error): 5.088069(0.1219081)

Male intercept estimate (standard error): 4.944623(0.1222775)

Female BMD10 estimate (standard error): 0.918628(0.05729998)

Male BMD10 estimate (standard error): 0.6429778(0.06737973)

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The confidence intervals for the variables are given by

|                  | lower     | est.      | upper    |
|------------------|-----------|-----------|----------|
| Female Intercept | 4.8554016 | 5.0880686 | 5.331885 |
| Male Intercept   | 4.7115932 | 4.9446228 | 5.189178 |

|              |           |           |          |
|--------------|-----------|-----------|----------|
| Female BMD10 | 0.8167388 | 0.9186279 | 1.033228 |
| Male BMD10   | 0.5288898 | 0.6429778 | 0.781676 |

attr("label")  
[1] "Coefficients:"

The one-sided confidence intervals (the lower bound) is given by

| Female Intercept | Male Intercept | Female BMDL10 | Male BMDL10 |
|------------------|----------------|---------------|-------------|
| 4.8926894        | 4.7489160      | 0.8325841     | 0.5460283   |