

US EPA ARCHIVE DOCUMENT

DRAFT

Betancourtcar 2004

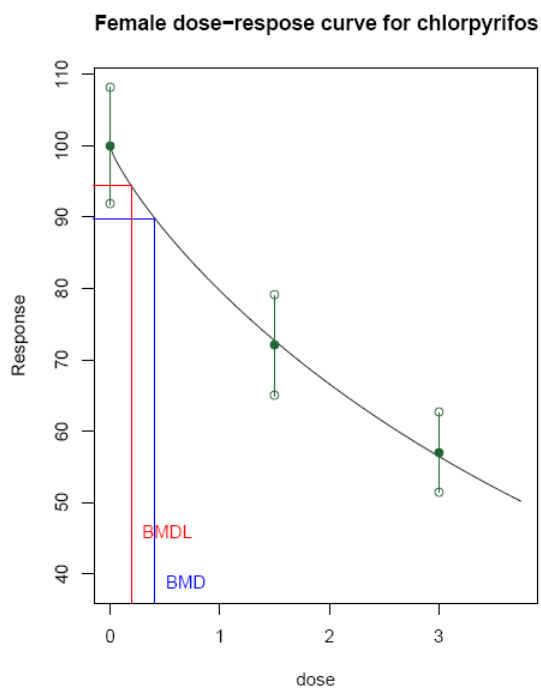
Repeat PND 1- 6

Female brain

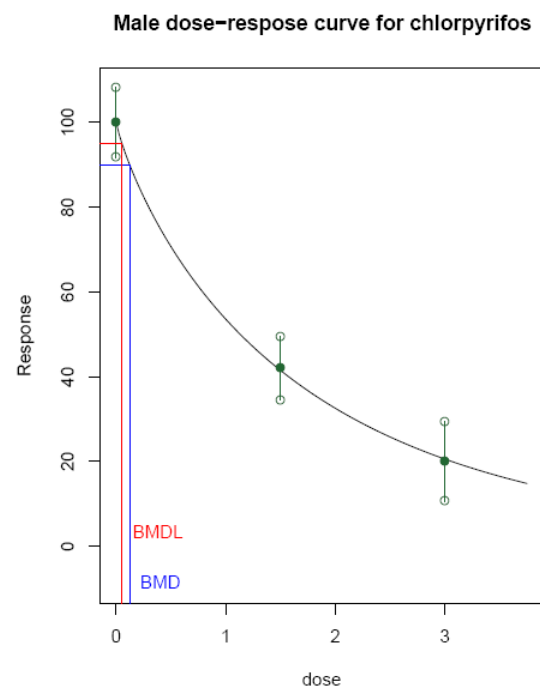
Power Model

10% bmr

Repeat PND 1- 6



Acute PND 1



NOTE: In this analysis, Female = Repeat (1 – 6):
Male = Acute (PND 1)

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Redundancy Analysis

	1	2	3	4	5
CondIndex	16.630	4.834	2.015	1.661	1.000
mu	0.105	0.360	0.862	1.046	1.738
IA.sexF	0.047	0.464	0.127	0.355	0.007
IA.sexM	0.012	0.022	0.786	0.158	0.022
ID.(Intercept)	0.928	0.068	0.001	0.001	0.003
ID.sexM	0.524	0.450	0.010	0.007	0.009
lg	0.991	0.006	0.001	0.000	0.002

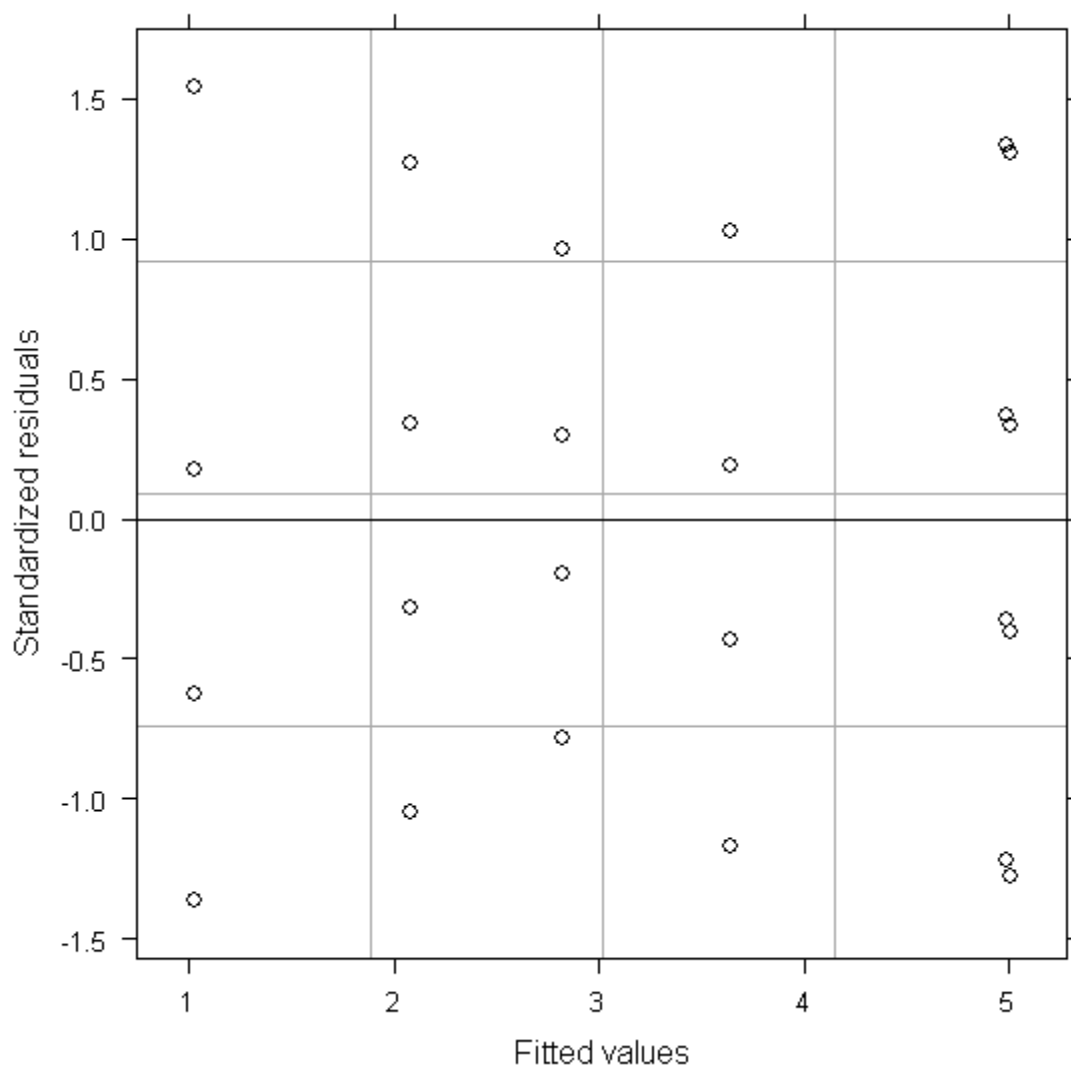
Parameter Values and Relative Standard Errors (sigma == 1)

	Parms	Relative SE
IA.sexF	1.610	0.098
IA.sexM	1.610	0.100
ID.(Intercept)	-0.887	1.099
ID.sexM	-1.206	0.735
lg	-0.163	0.563

Mean Absolute Value of Gradient

	Val
IA.sexF	1.9139066
IA.sexM	1.3508797
ID.(Intercept)	0.8795596
ID.sexM	0.4883557
lg	2.0432345

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***** UNWEIGHTED *****

KEEP FIRST MODEL WITH BMD DIFFERENT FOR MALES AND FEMALES.

AIC: 28.79623

Female intercept estimate (standard error): 4.987974(0.2057103)

Male intercept estimate (standard error): 5.004321(0.2097049)

Female BMD10 estimate (standard error): 0.41173(0.2948134)

Male BMD10 estimate (standard error): 0.1232859(0.08218814)

Power parameter estimate (standard error): 0.849567(0.2450734)

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The confidence intervals for the variables are given by

	lower	est.	upper
Female Intercept	4.6079028	4.9879740	5.3993945
Male Intercept	4.6173439	5.0043213	5.4237312
Female BMD10	0.1692919	0.4117300	1.0013568
Male BMD10	0.0453002	0.1232859	0.3355265
Power Parameter	0.5387451	0.8495671	1.3397138

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

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

Female Intercept	Male Intercept	Female BMDL10	Male BMDL10
4.67183706	4.68240647	0.19757943	0.05334455

Power Parameter
0.58314310