

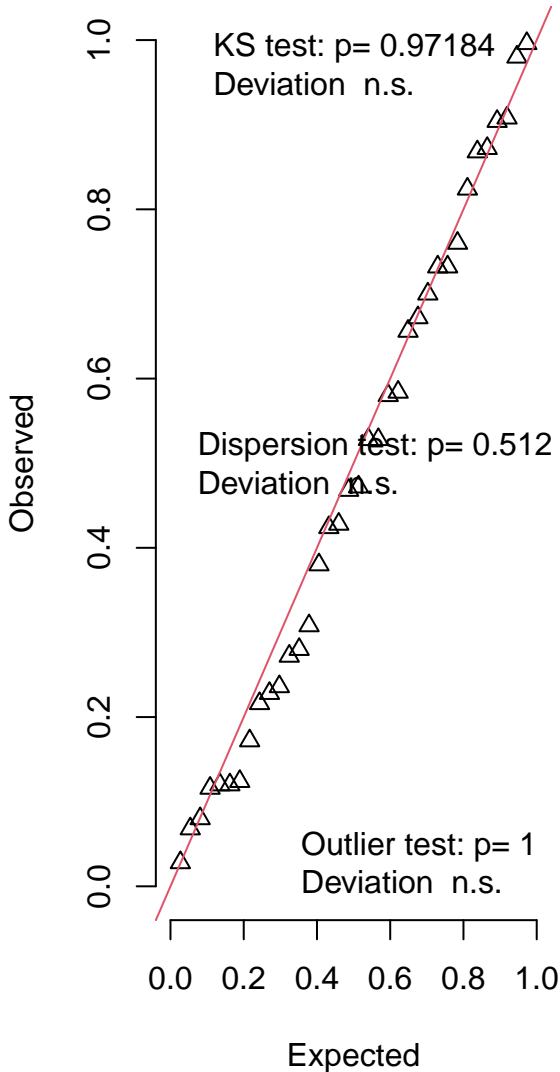
EGF

Bites in cyno

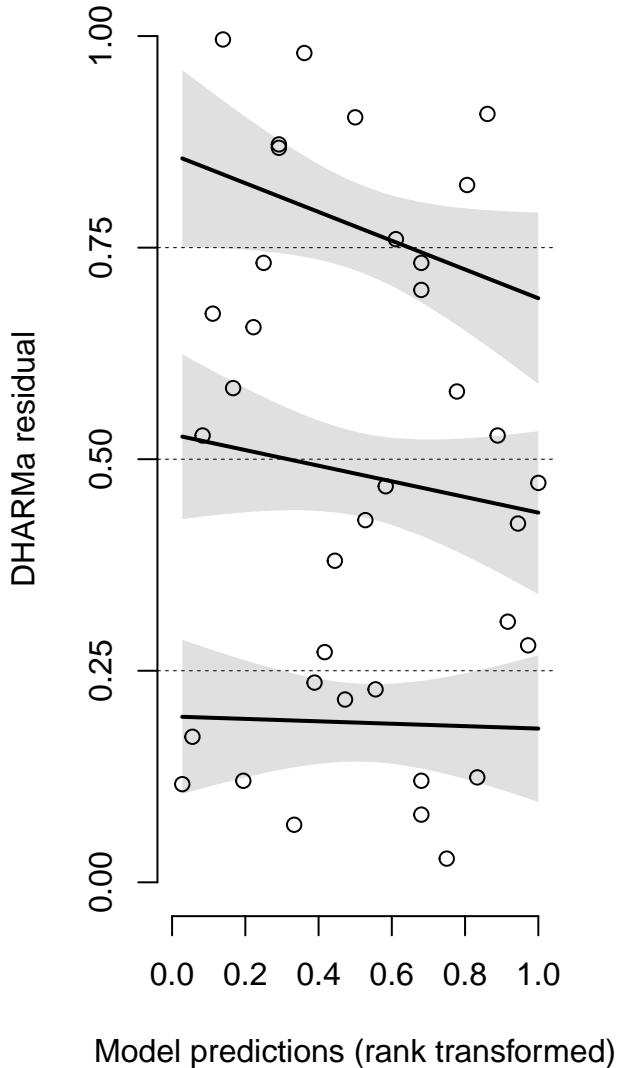
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

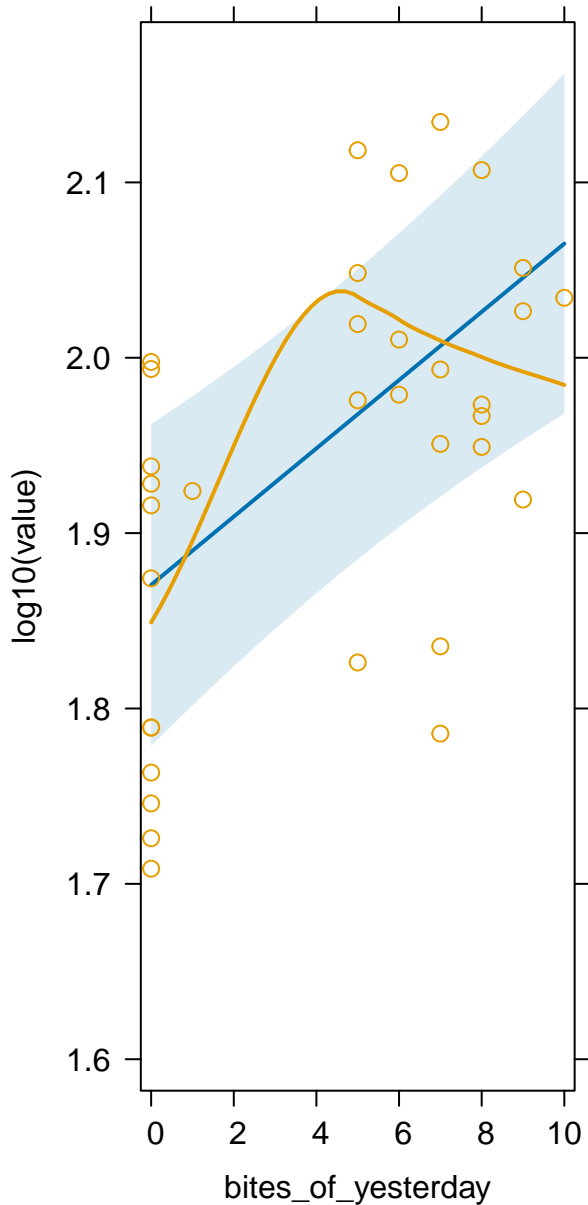
QQ plot residuals



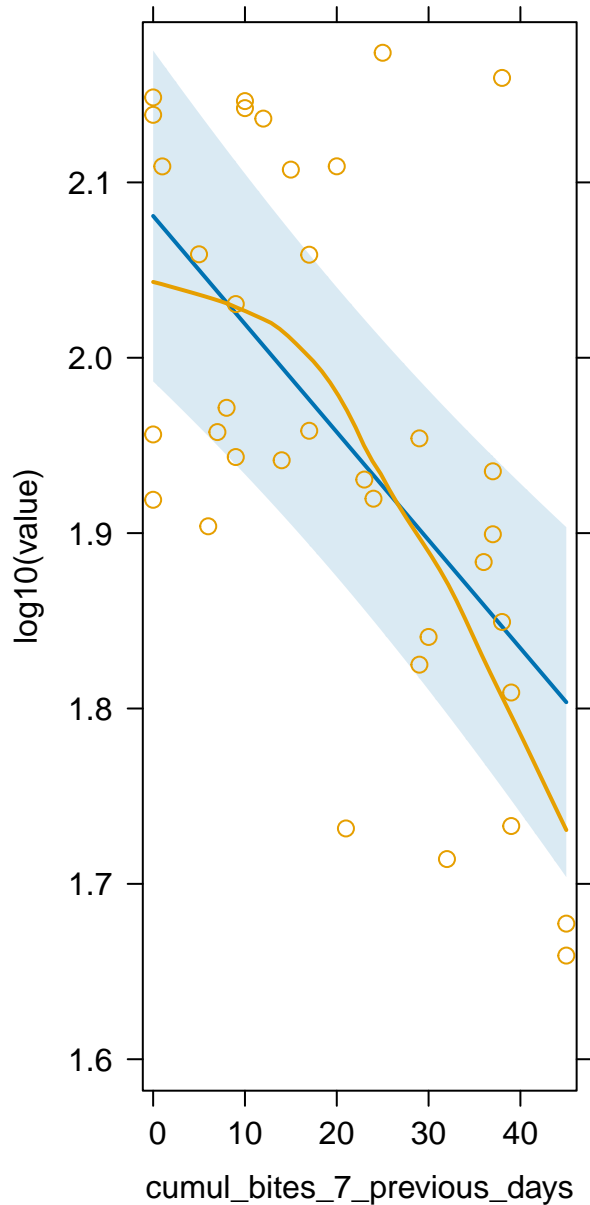
Residual vs. predicted No significant problems detected

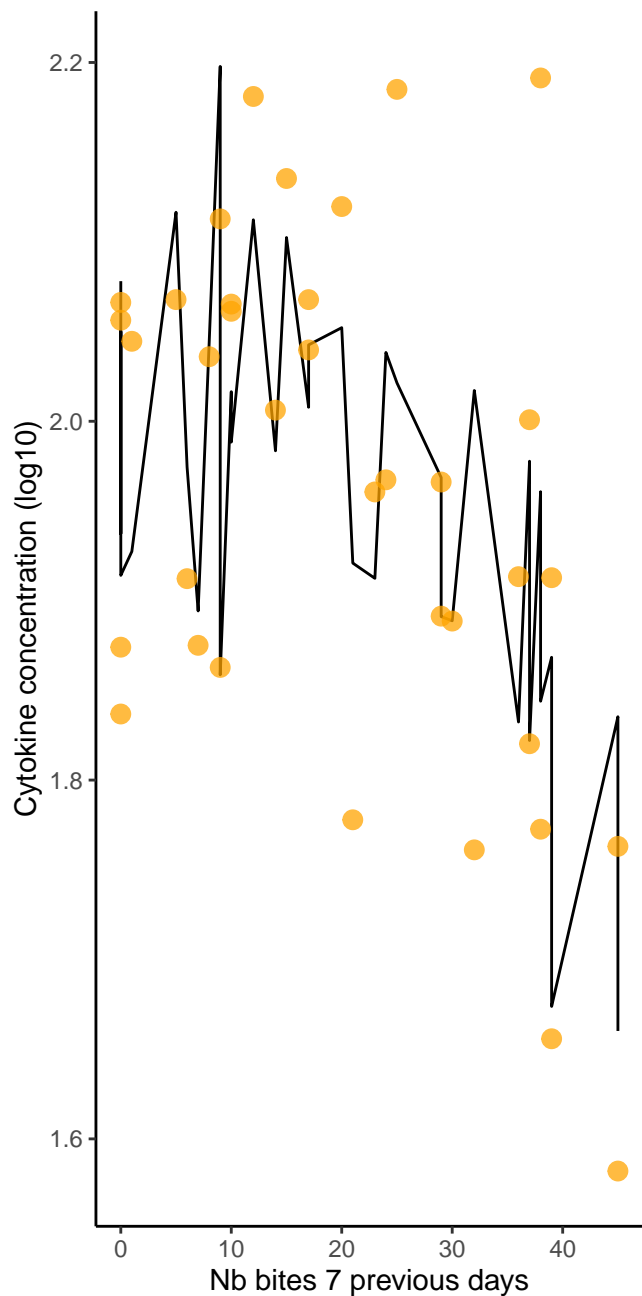
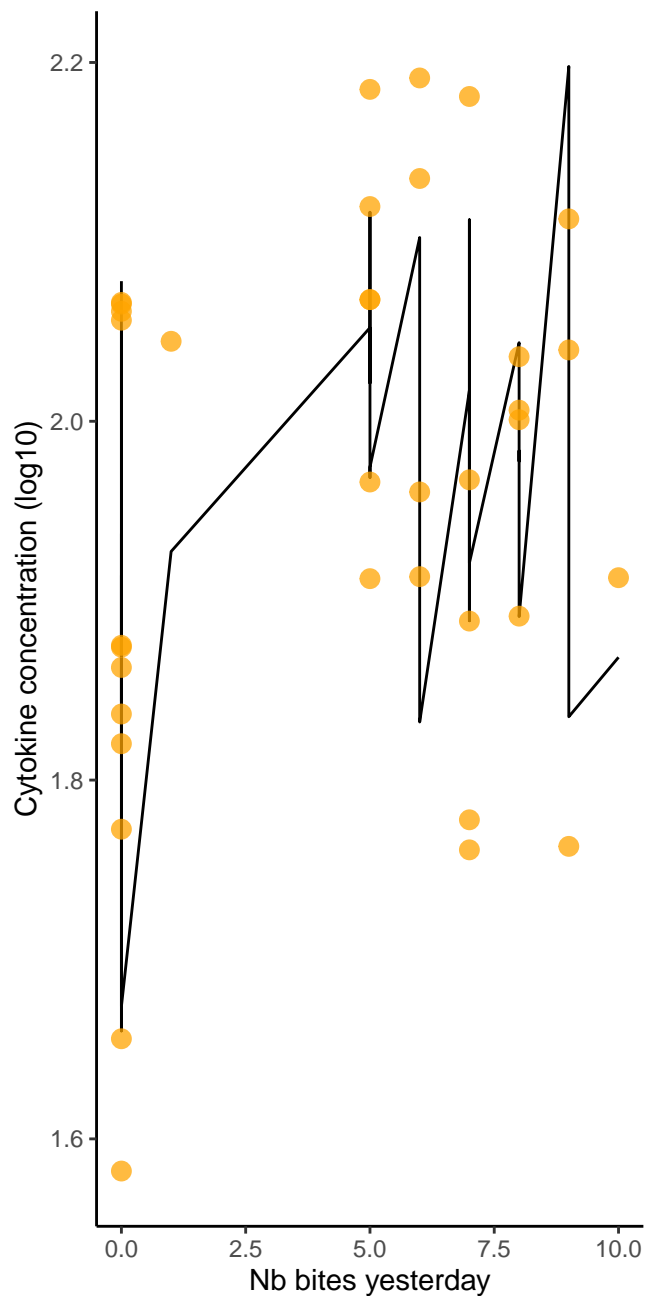


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.69]	1.05	0.91	[0.27, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.69]	1.05	0.91	[0.27, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-54.0	-46.1	32.0	-64.0	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.005709	0.07556
Residual		0.007913	0.08896

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.00791

Conditional model:

	Estimate	Std. Error	z	value	Pr(> z)
(Intercept)	1.994908	0.047722	41.80	< 2e-16	***
bites_of_yesterday	0.019460	0.004481	4.34	1.4e-05	***
cumul_bites_7_previous_days	-0.006161	0.001111	-5.55	2.9e-08	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -51.99296

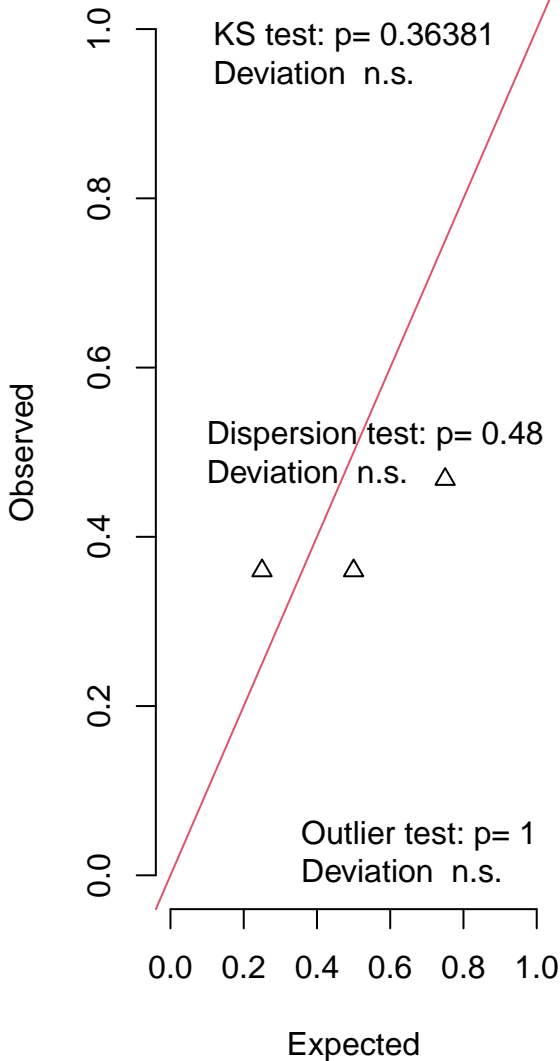
Bites in squirrel

Nb excluded (LOD) : 17

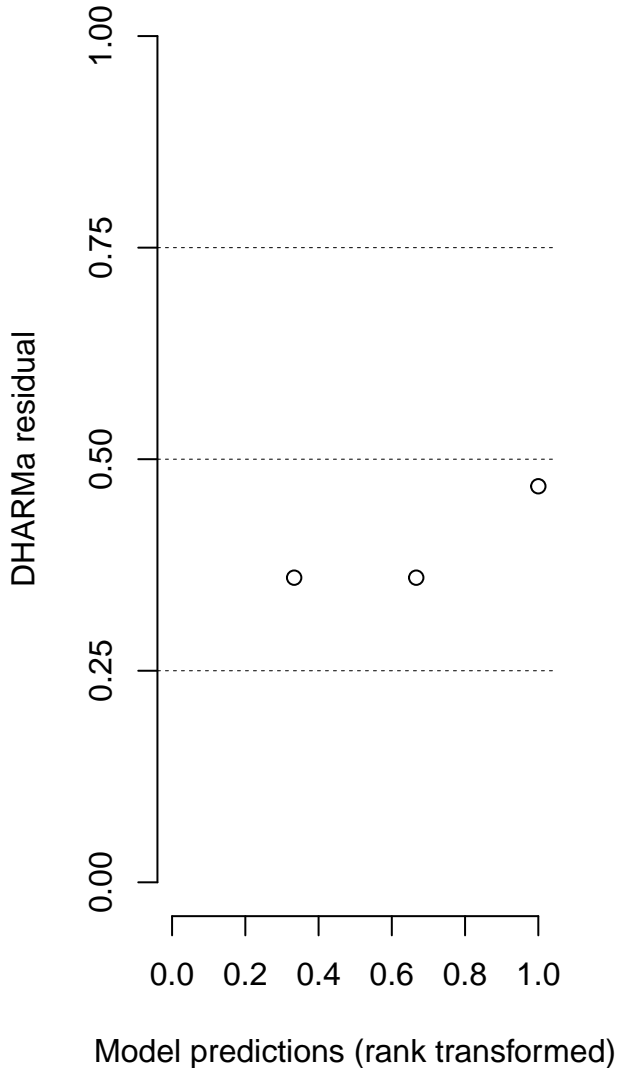
Nb remaining: 3

DHARMA residual

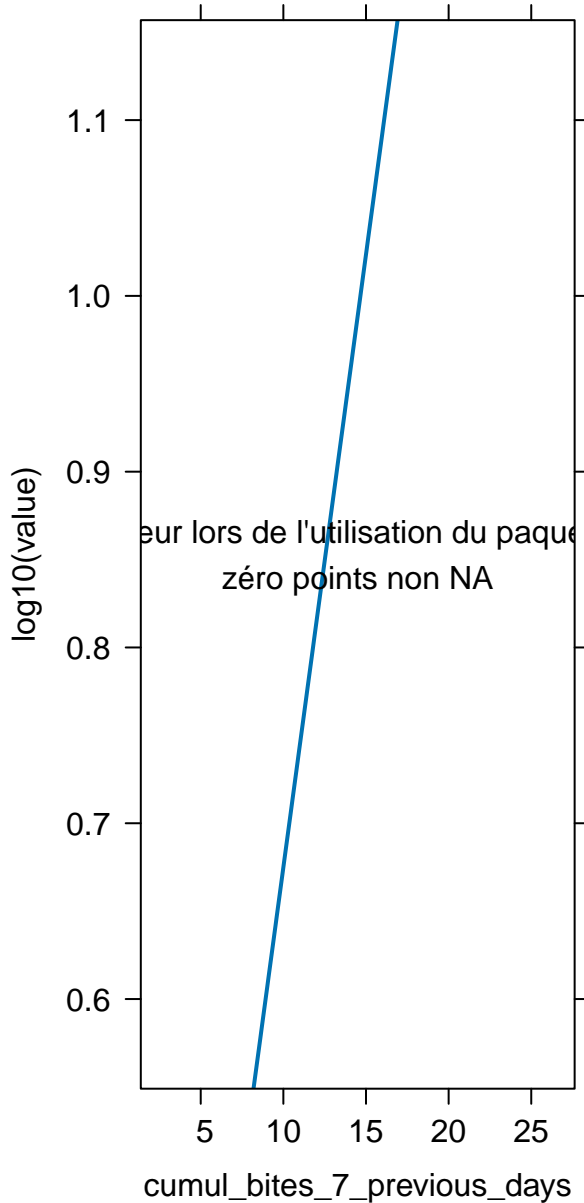
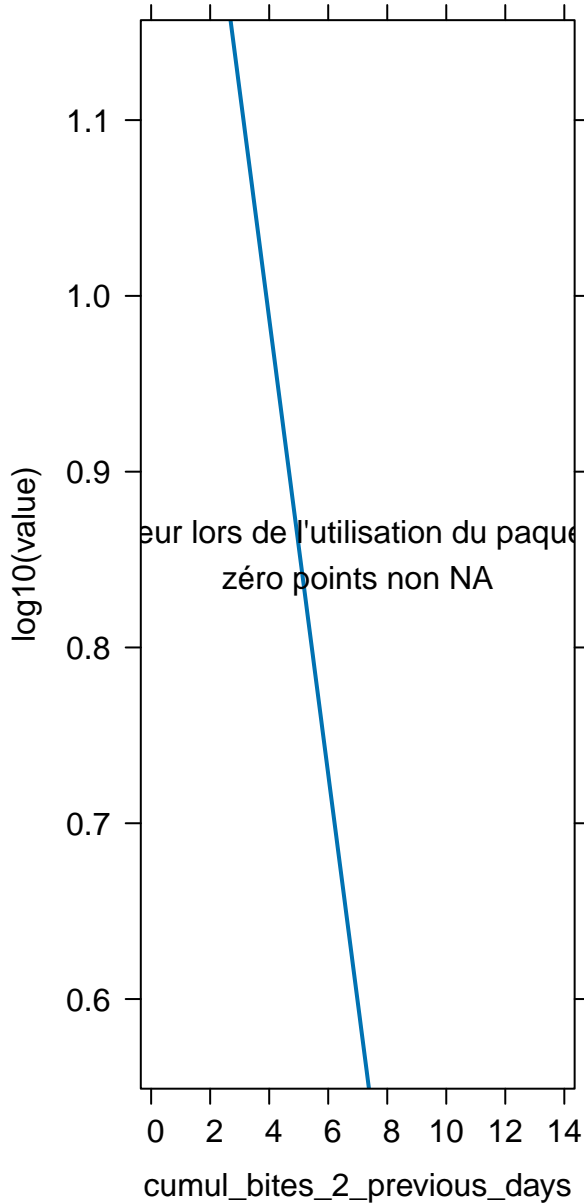
QQ plot residuals

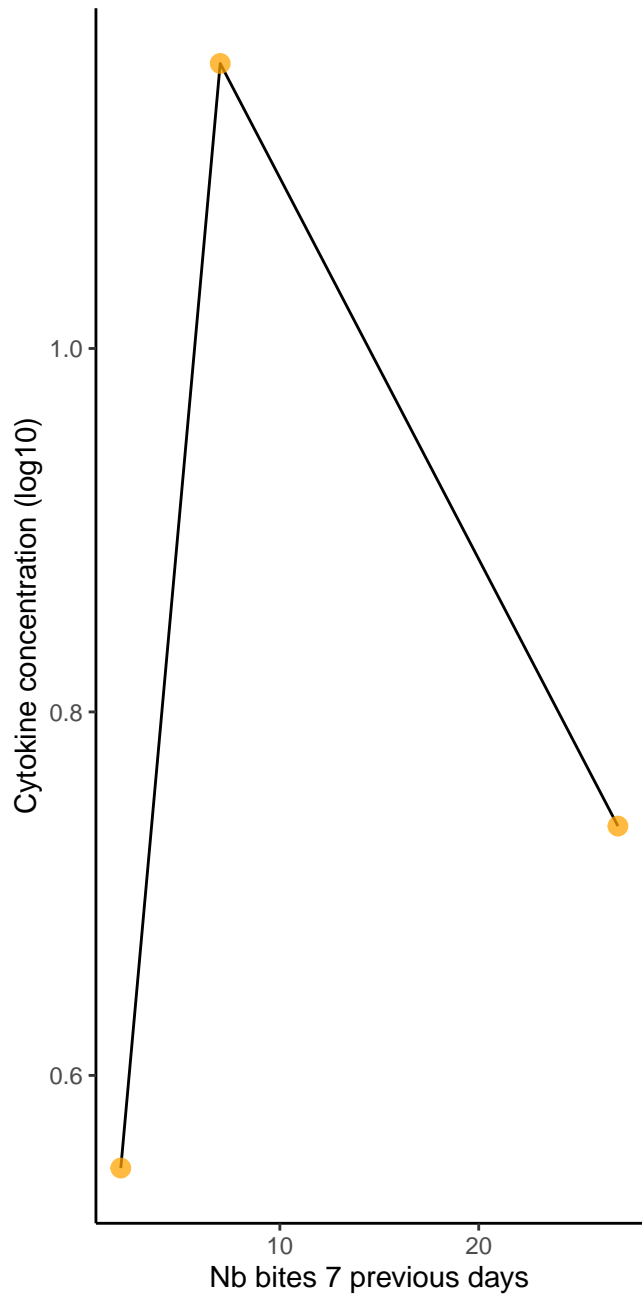
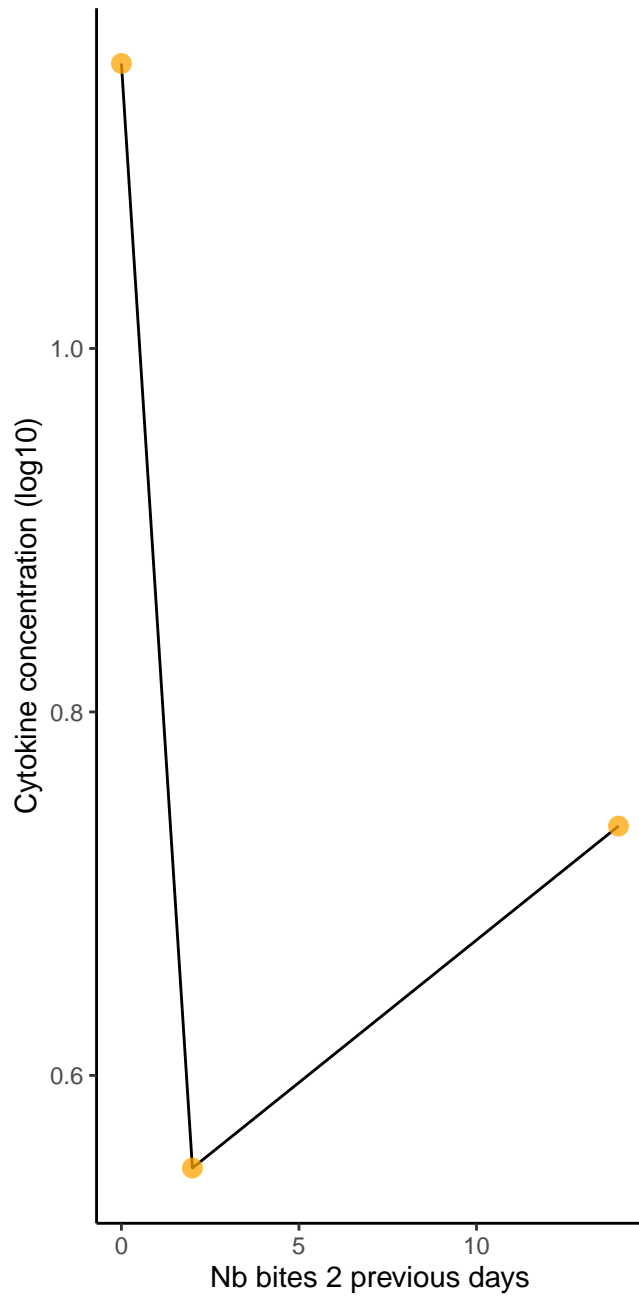


Residual vs. predicted No significant problems detected



cumul_bites_2_previous_days effect plot cumul_bites_7_previous_days effect plot





EGF ERROR : indice hors limites

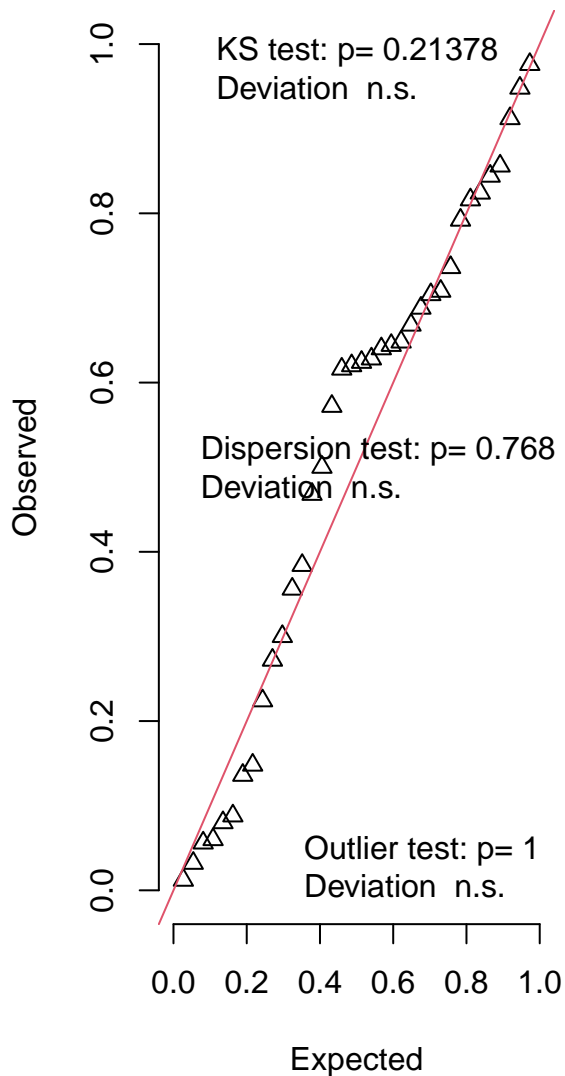
Eotaxin

Bites in cyno

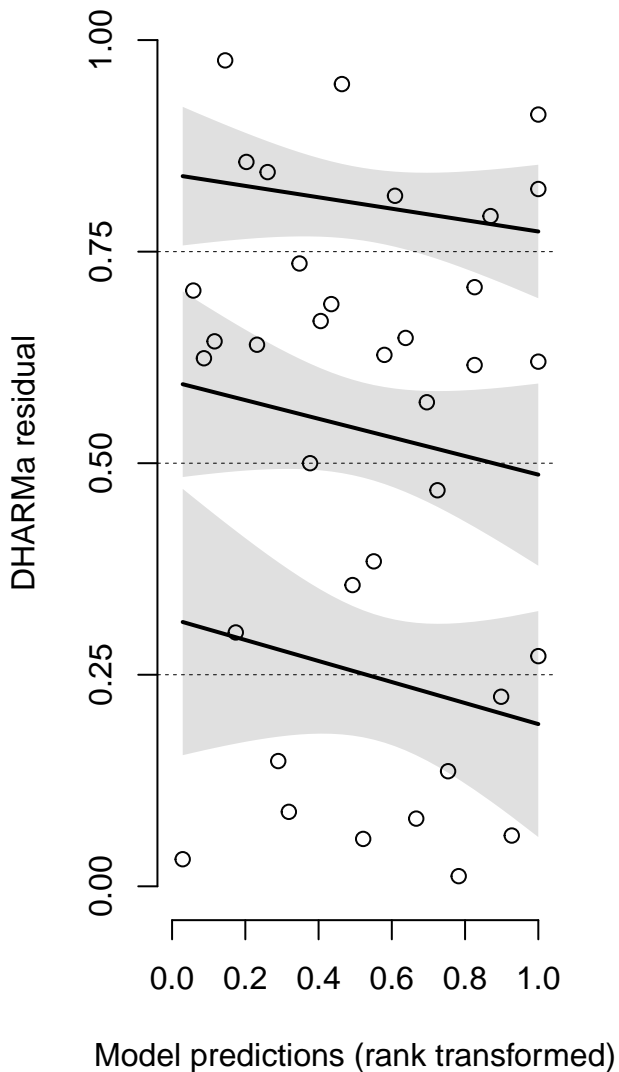
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

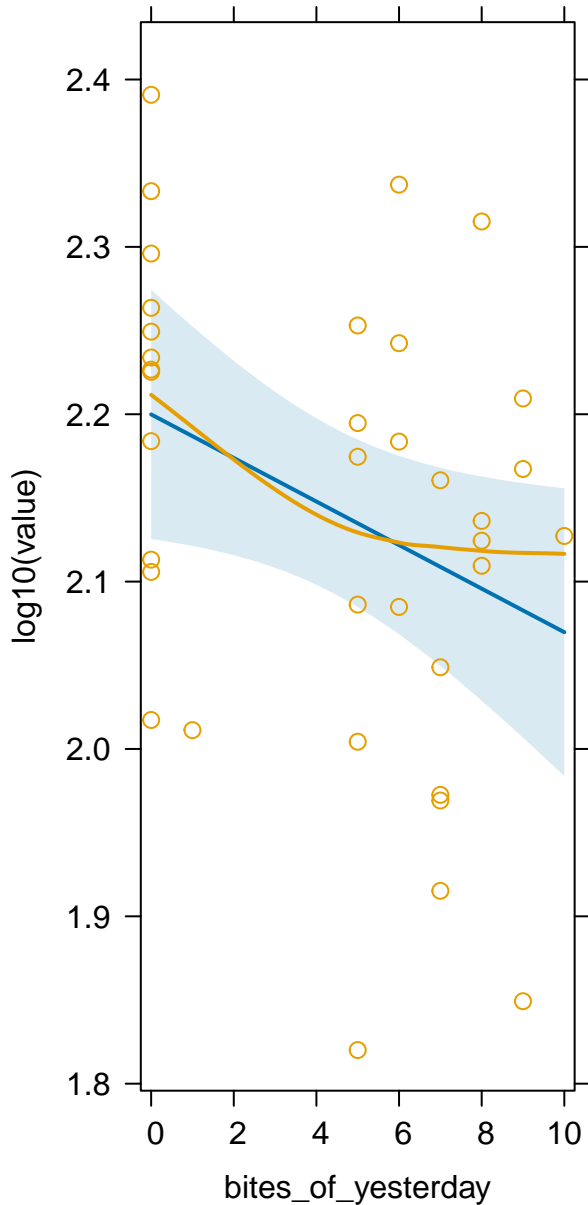
QQ plot residuals



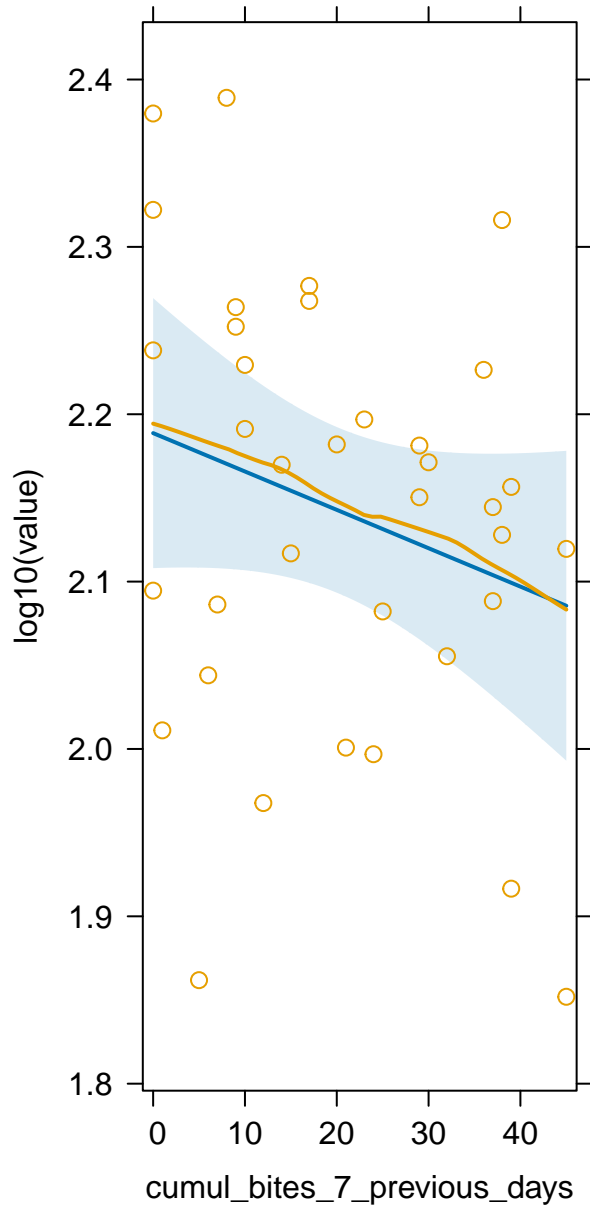
Residual vs. predicted No significant problems detected

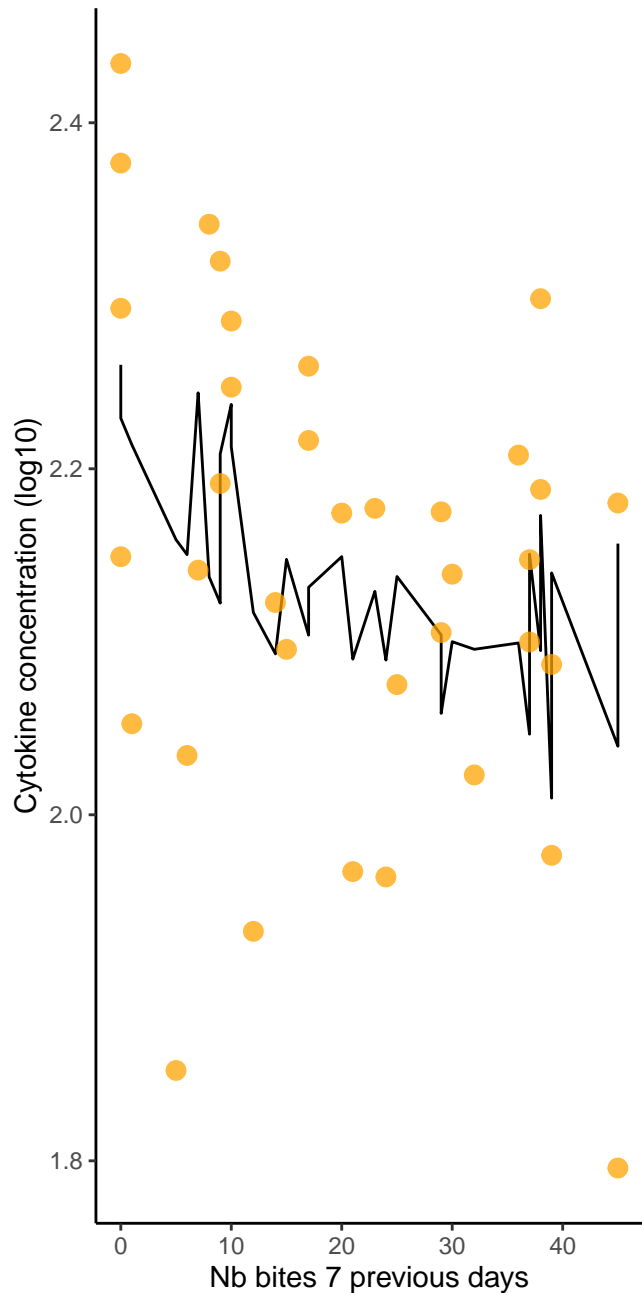
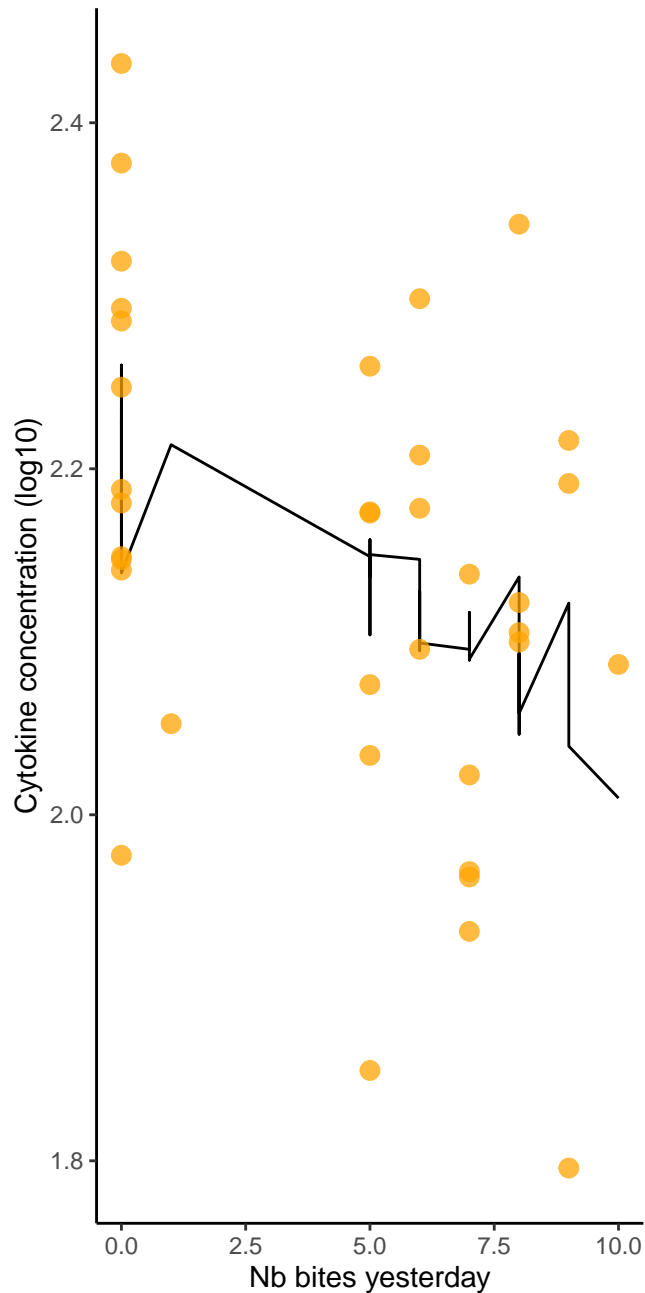


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.77]	1.05	0.91	[0.26, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.77]	1.05	0.91	[0.26, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-37.2	-29.3	23.6	-47.2	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.0006812	0.0261
Residual		0.0151788	0.1232

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0152

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.246206	0.042597	52.73	<2e-16 ***
bites_of_yesterday	-0.013015	0.006193	-2.10	0.0356 *
cumul_bites_7_previous_days	-0.002293	0.001551	-1.48	0.1393

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -35.2422

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

Eotaxin ERROR : Invalid grouping factor specification, ID

G . CSF

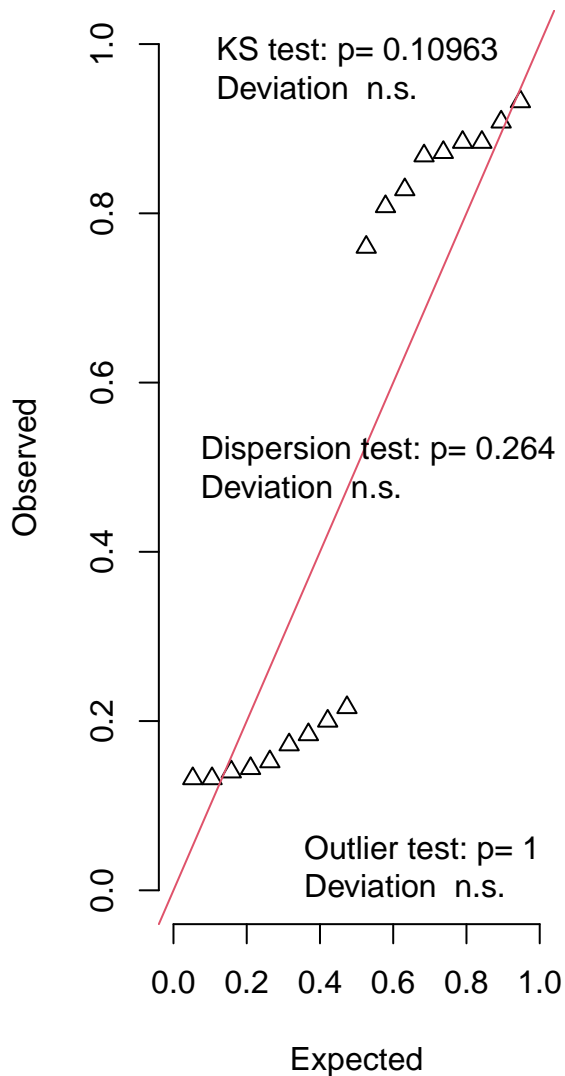
Bites in cyno

Nb excluded (LOD) : 18

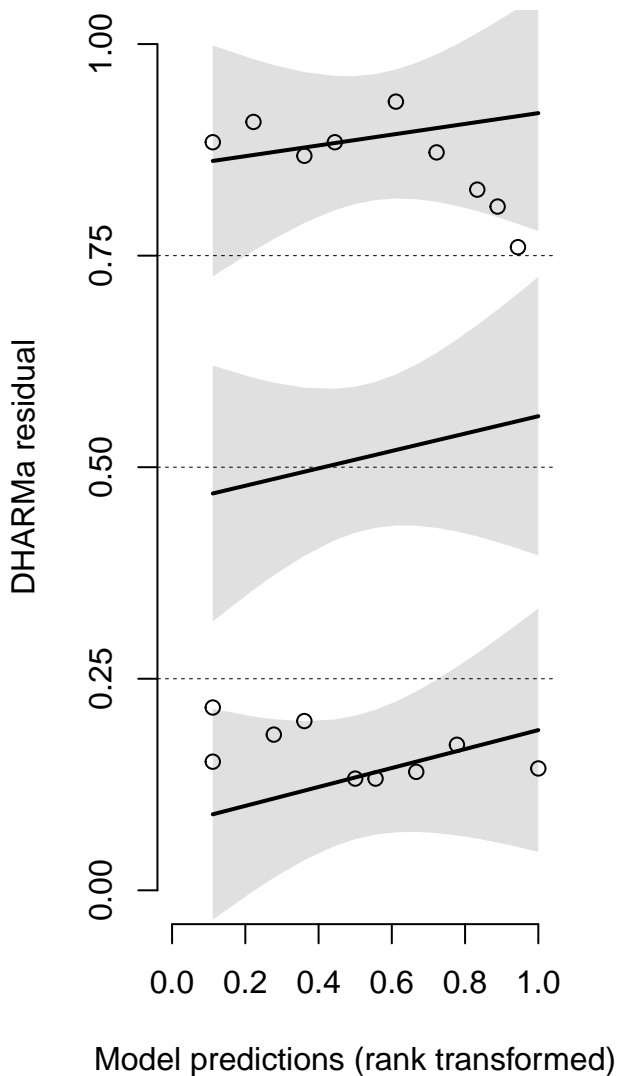
Nb remaining : 18

DHARMA residual

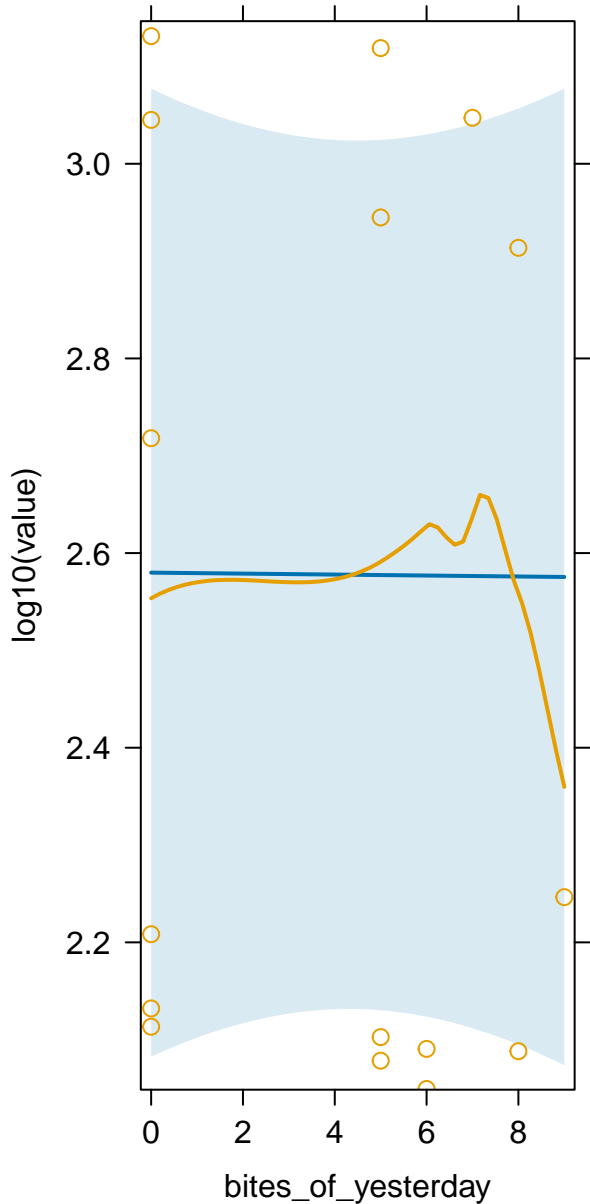
QQ plot residuals



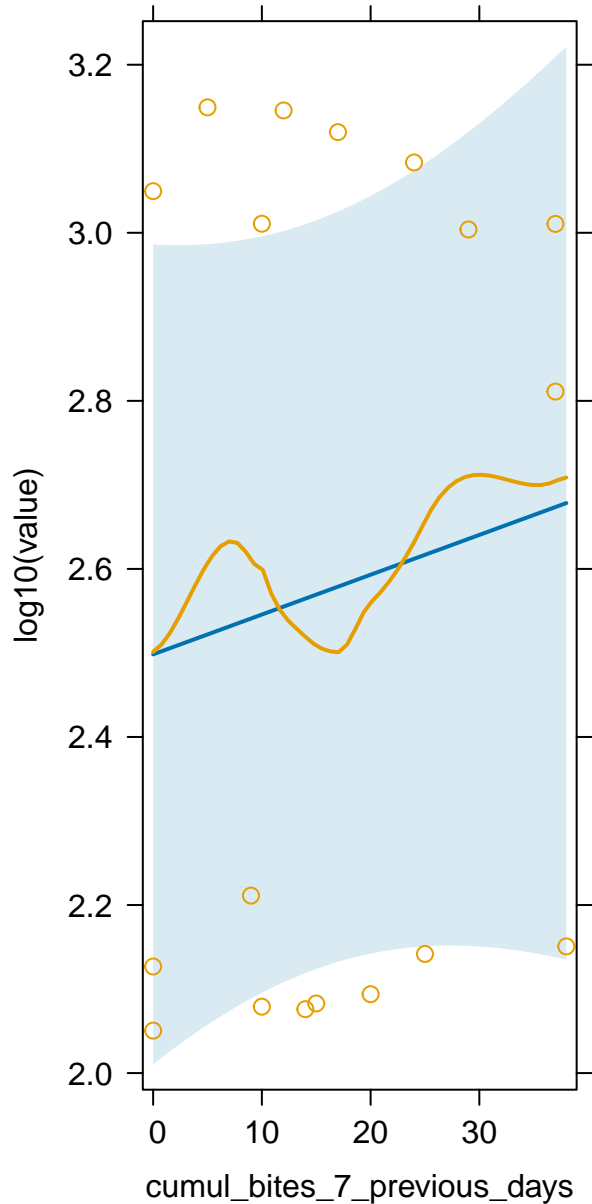
Residual vs. predicted No significant problems detected

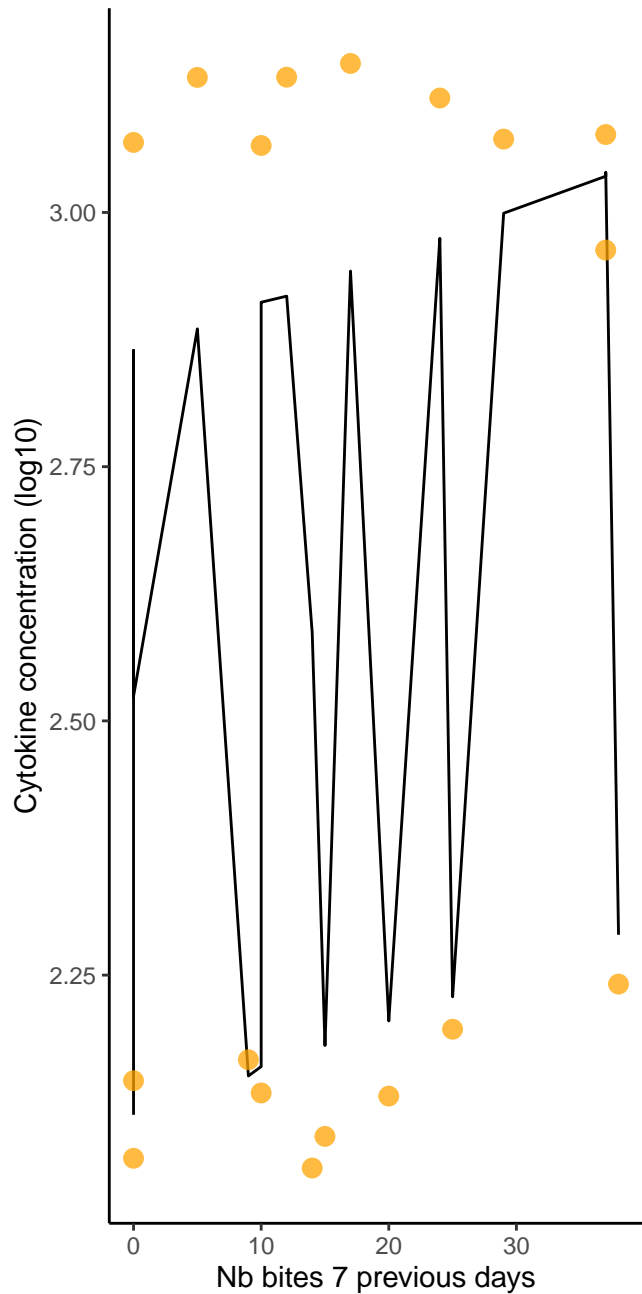
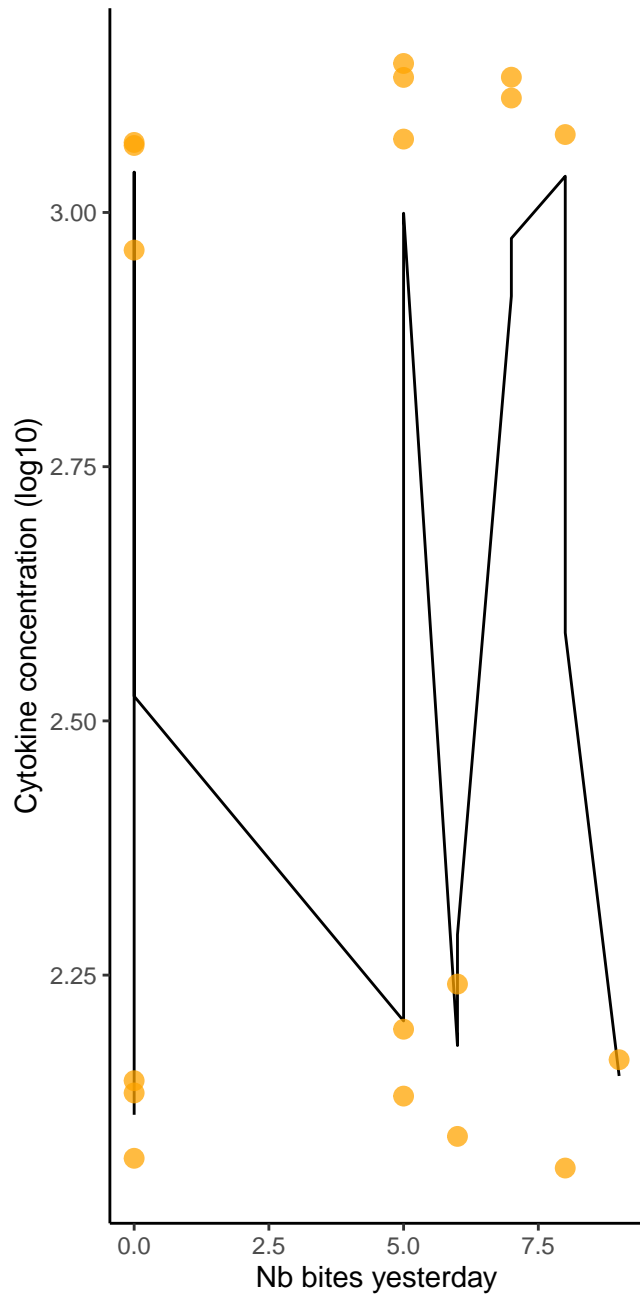


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.18	[1.02, 2.89]	1.08	0.85	[0.35, 0.98]
cumul_bites_7_previous_days	1.18	[1.02, 2.89]	1.08	0.85	[0.35, 0.98]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
22.9	27.3	-6.4	12.9	13

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.11126	0.3336
Residual		0.08502	0.2916

Number of obs: 18, groups: ID, 3

Dispersion estimate for gaussian family (sigma^2): 0.085

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.5004138	0.2342894	10.672	<2e-16 ***
bites_of_yesterday	-0.0004956	0.0234079	-0.021	0.983
cumul_bites_7_previous_days	0.0047373	0.0062912	0.753	0.451

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 27.86686
```

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

G.CSF ERROR : Invalid grouping factor specification, ID

GM . CSF

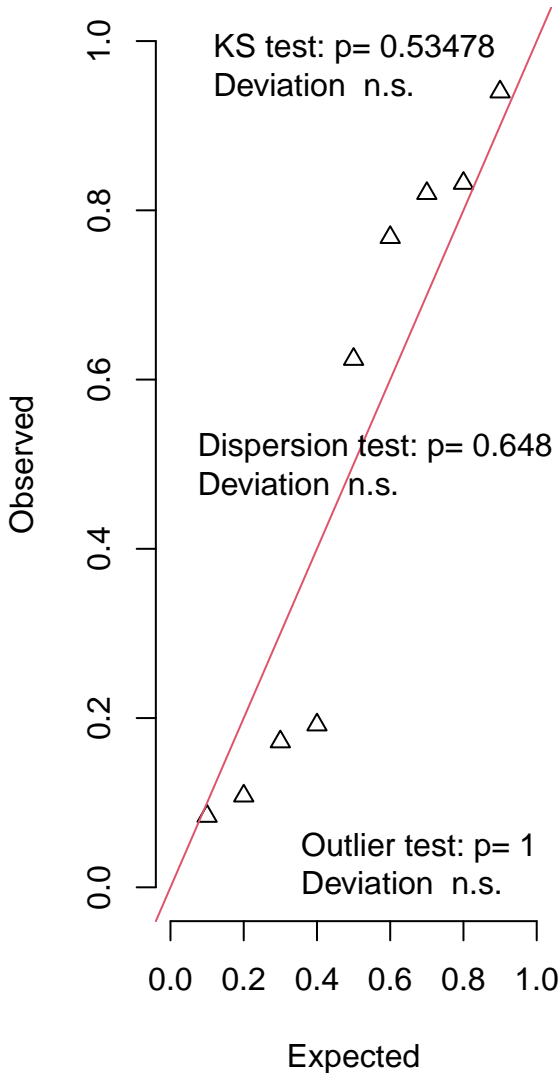
Bites in cyno

Nb excluded (LOD) : 27

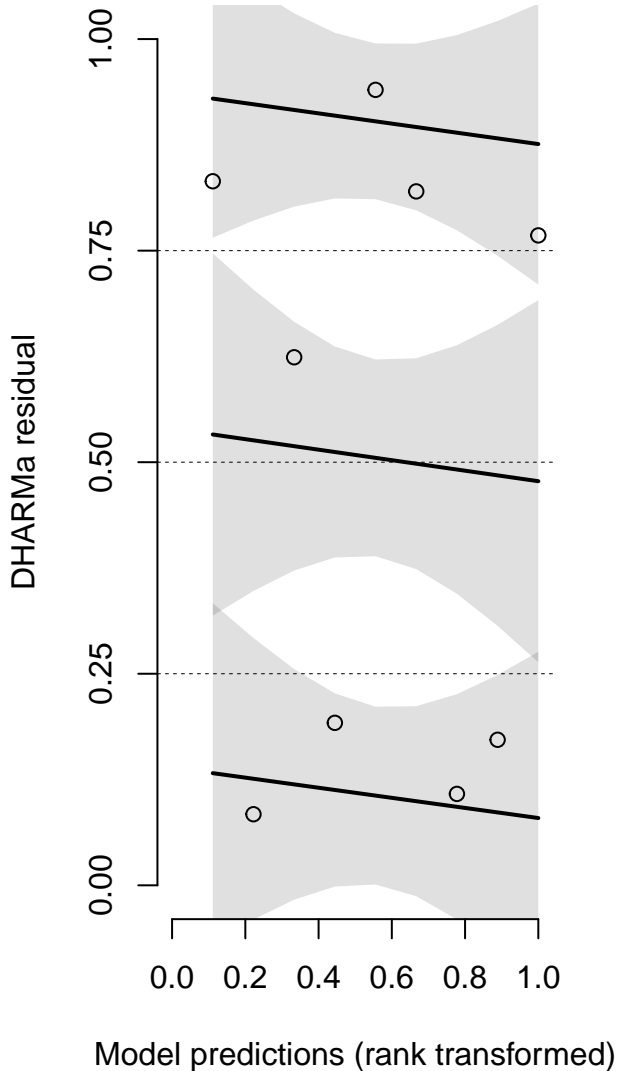
Nb remaining: 9

DHARMA residual

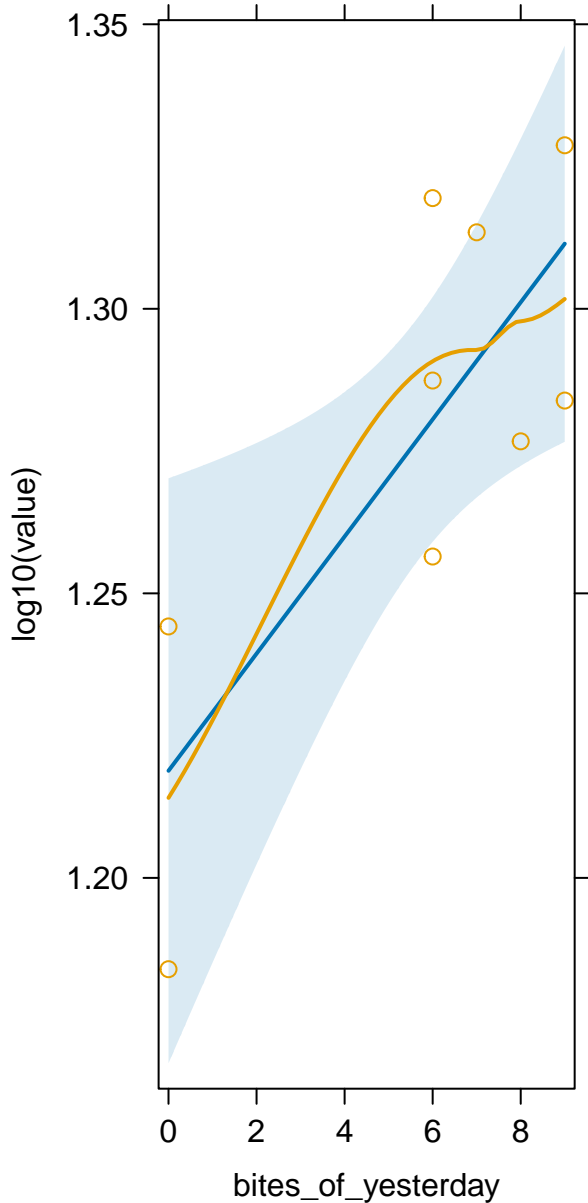
QQ plot residuals



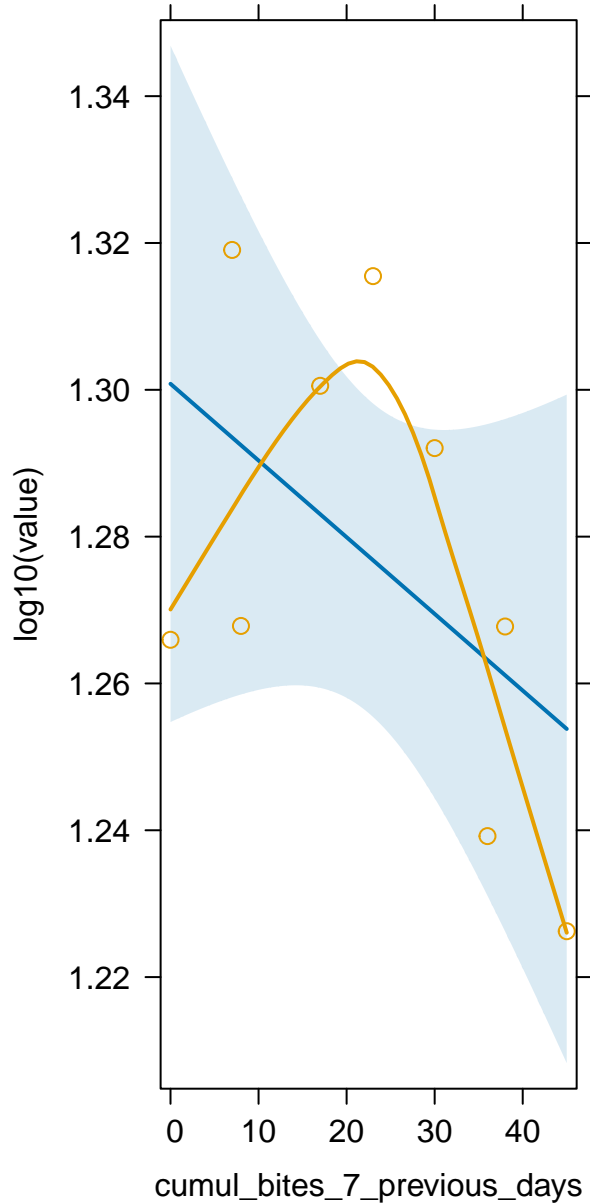
Residual vs. predicted No significant problems detected

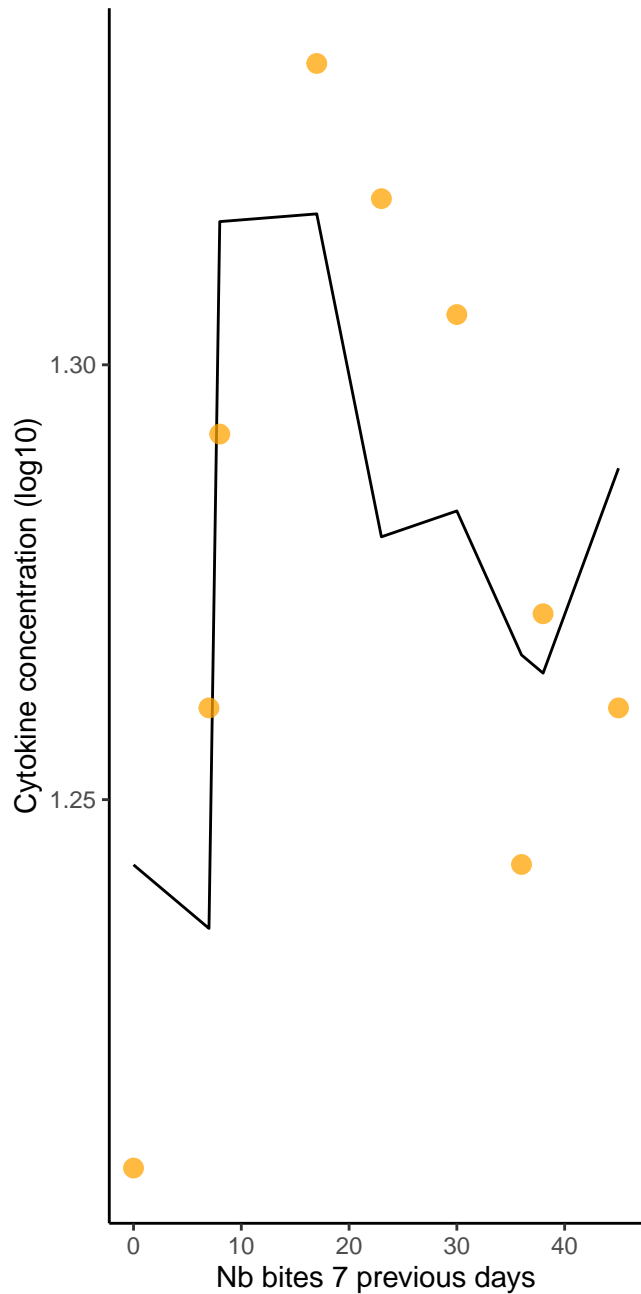
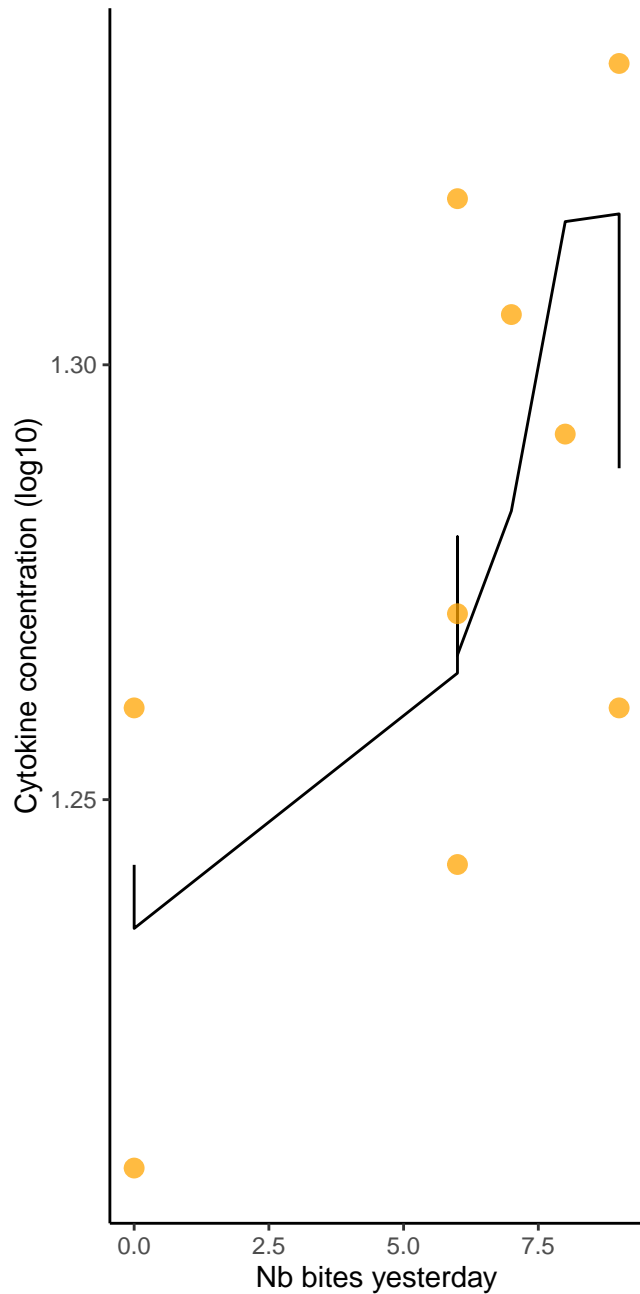


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.56	[1.22, 2.46]	1.25	0.64	[0.41, 0.82]
cumul_bites_7_previous_days	1.56	[1.22, 2.46]	1.25	0.64	[0.41, 0.82]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-30	-29	20	-40	4

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	2.809e-13	5.300e-07
	Residual	6.849e-04	2.617e-02

Number of obs: 9, groups: ID, 2

Dispersion estimate for gaussian family (sigma^2): 0.000685

Conditional model:

	Estimate	Std. Error	z	value	Pr(> z)
(Intercept)	1.2425032	0.0183710	67.63	< 2e-16	***
bites_of_yesterday	0.0102904	0.0033717	3.05	0.00227	**
cumul_bites_7_previous_days	-0.0010447	0.0007361	-1.42	0.15587	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] -10.03514
```


Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

GM.CSF ERROR : Invalid grouping factor specification, ID

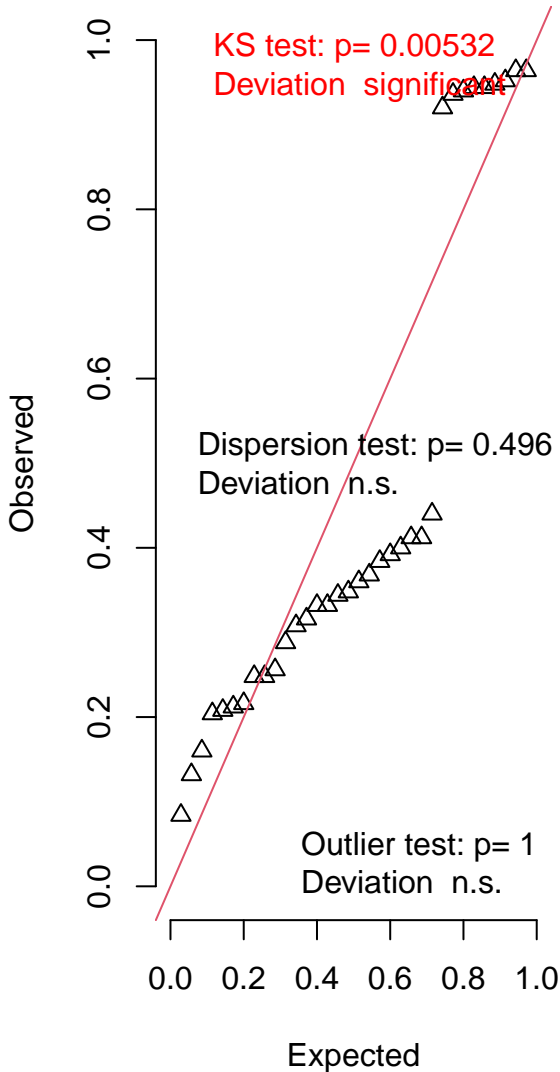
HGF

Bites in cyno

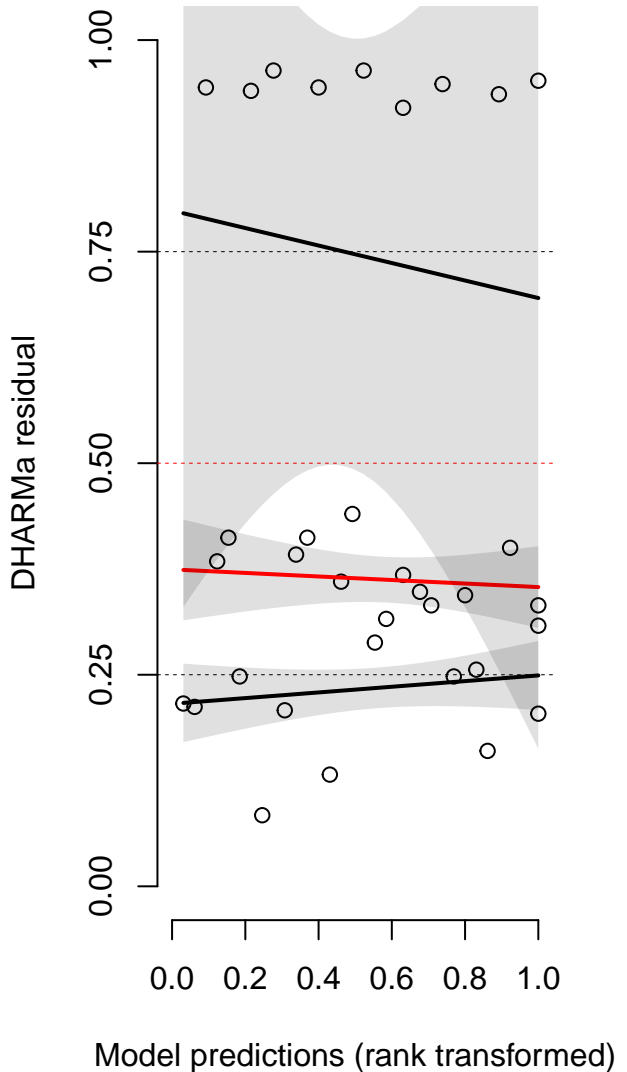
Nb excluded (LOD) : 2
Nb remaining: 34

DHARMA residual

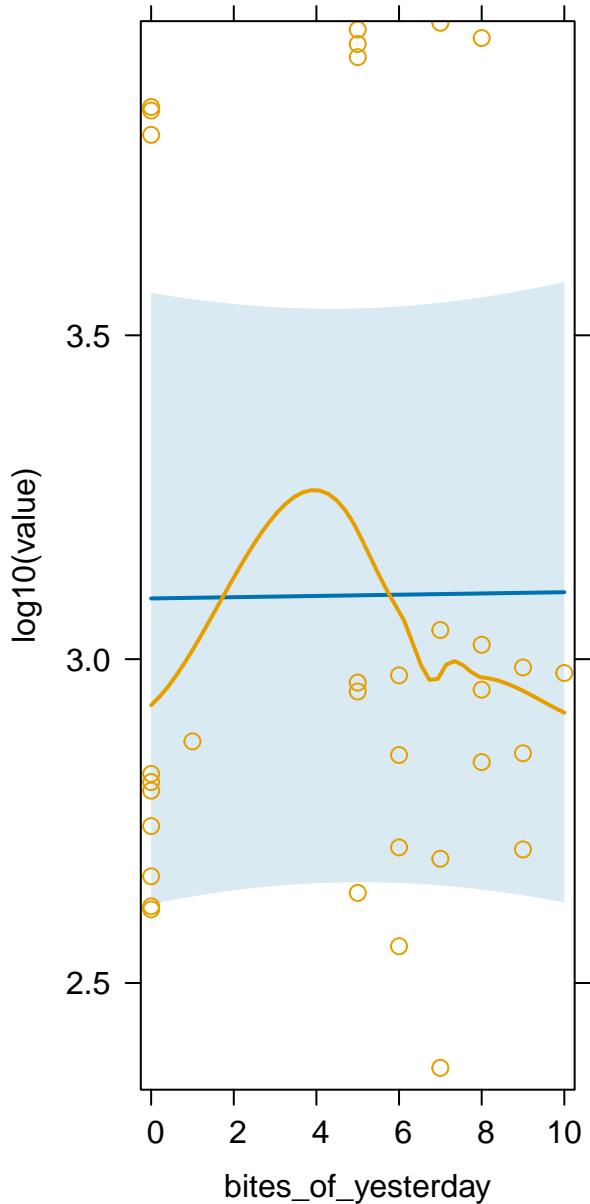
QQ plot residuals



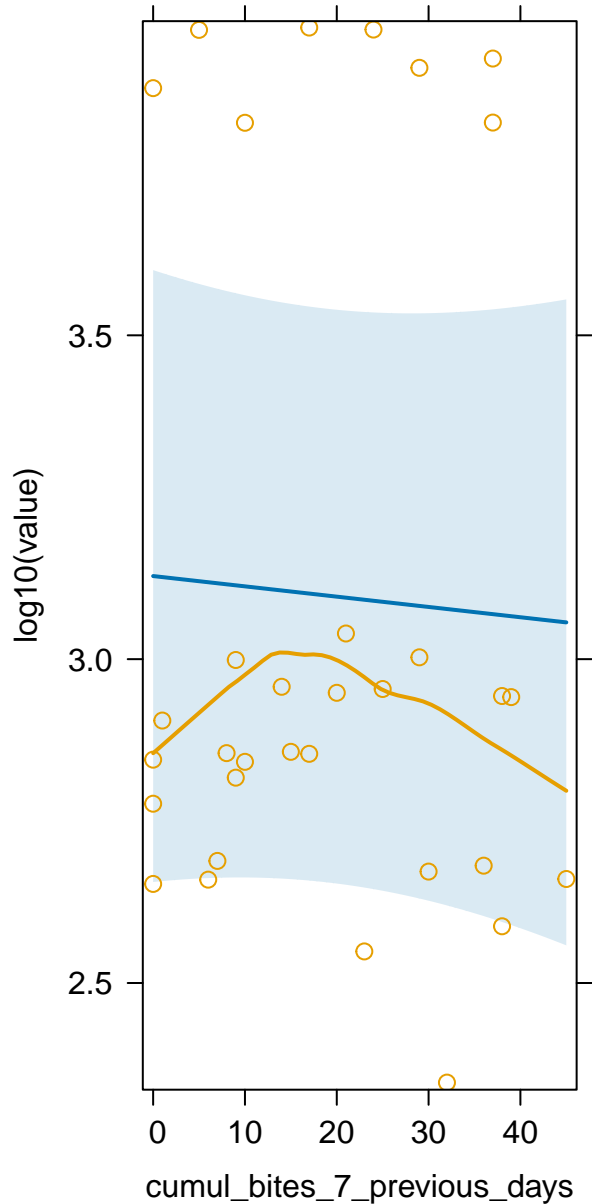
Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant

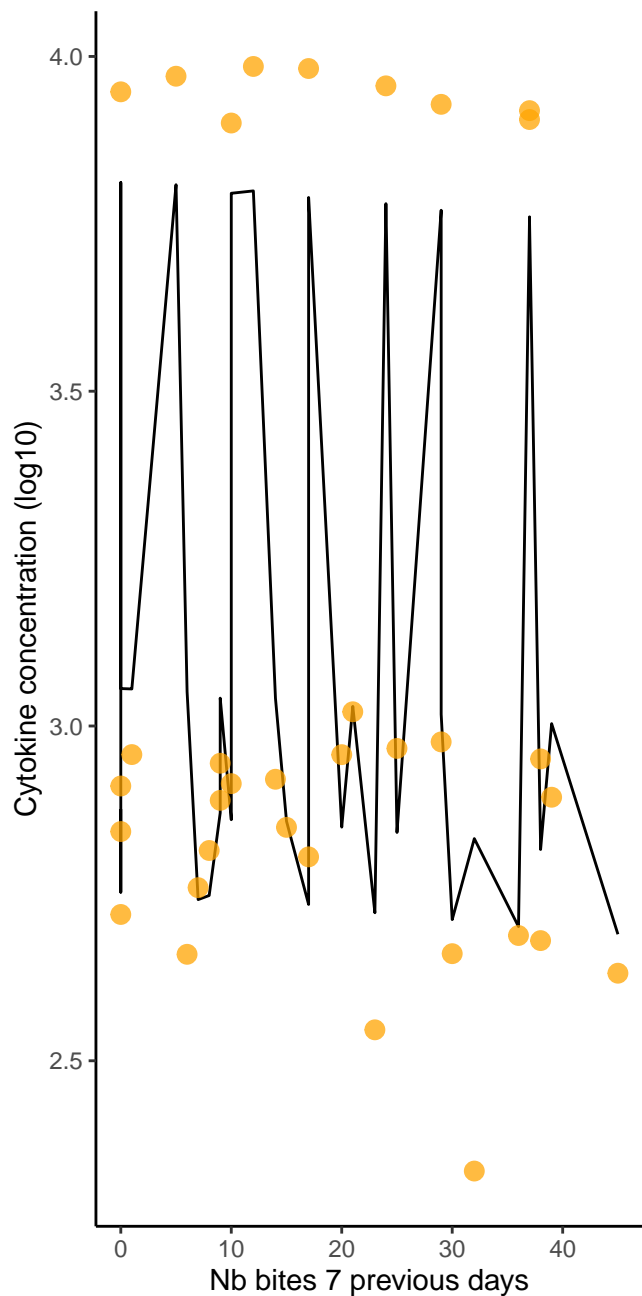
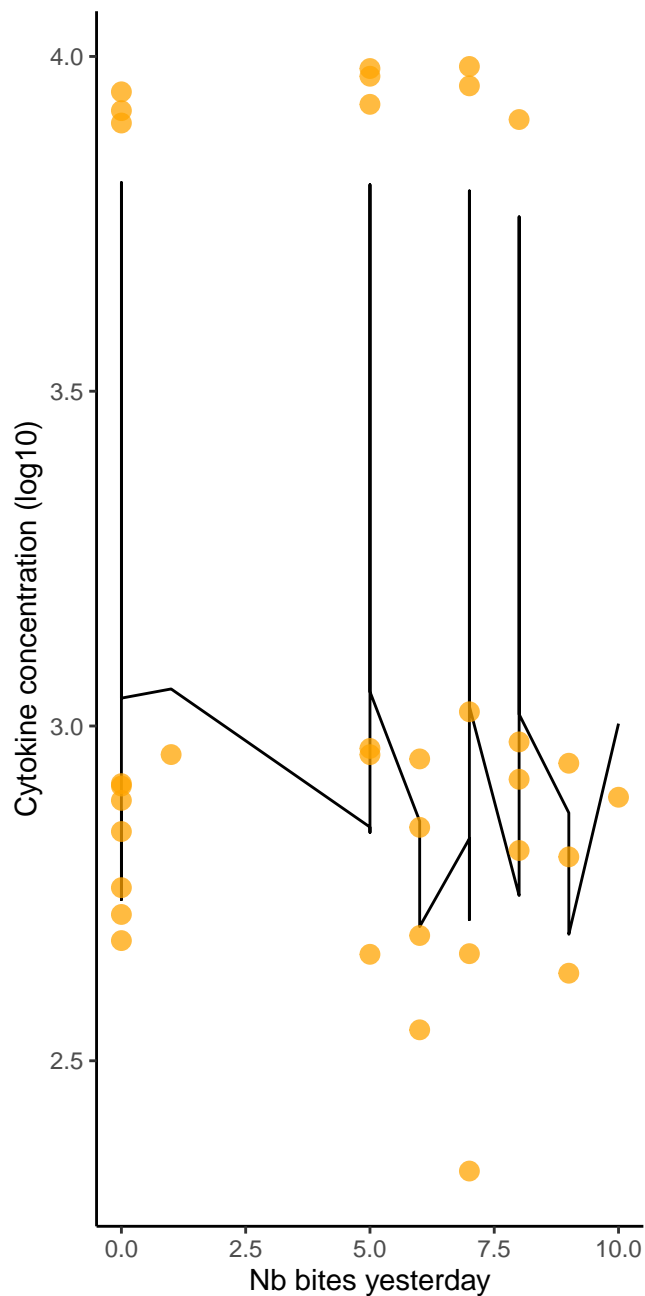


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.32	[1.08, 2.31]	1.15	0.76	[0.43, 0.93]
cumul_bites_7_previous_days	1.32	[1.08, 2.31]	1.15	0.76	[0.43, 0.93]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
34.0	41.6	-12.0	24.0	29

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.17872	0.4228
	Residual	0.08373	0.2894

Number of obs: 34, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0837

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	3.1238108	0.2318199	13.475	<2e-16 ***
bites_of_yesterday	0.0009607	0.0169538	0.057	0.955
cumul_bites_7_previous_days	-0.0015898	0.0042900	-0.371	0.711

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 36.10523
```

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

HGF ERROR : Invalid grouping factor specification, ID

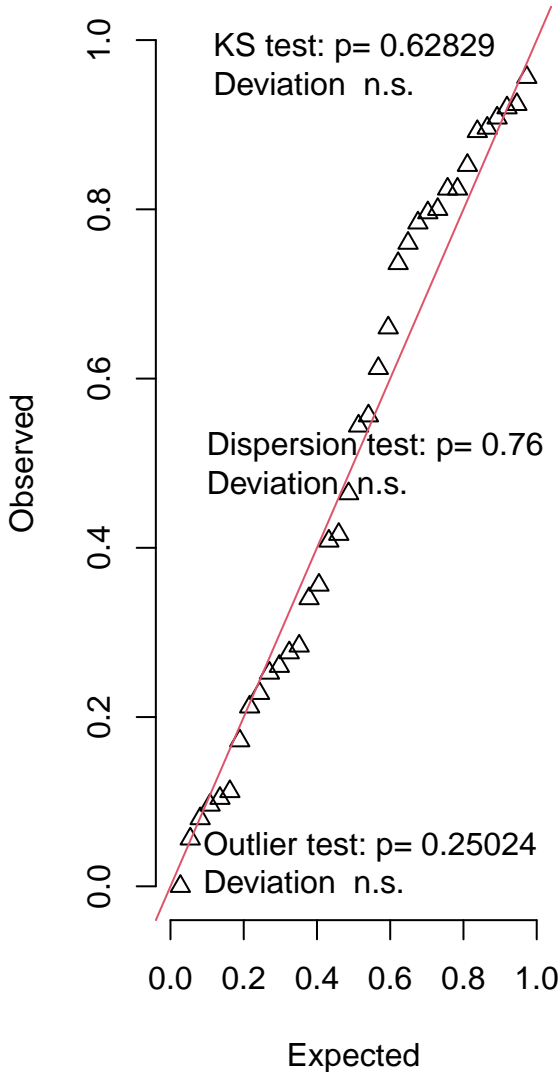
I . TAC

Bites in cyno

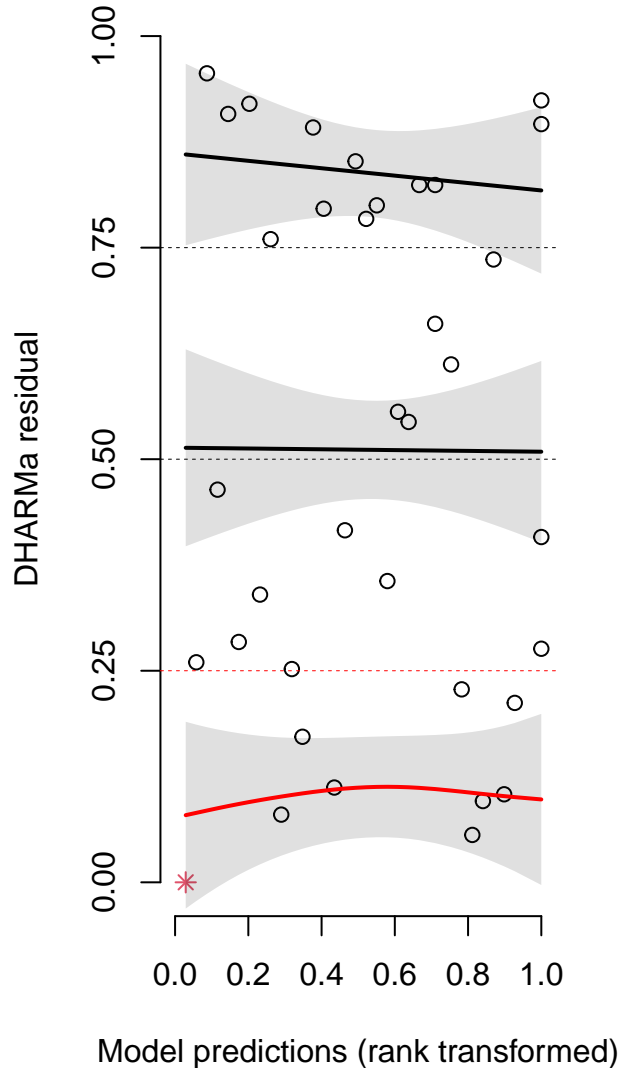
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

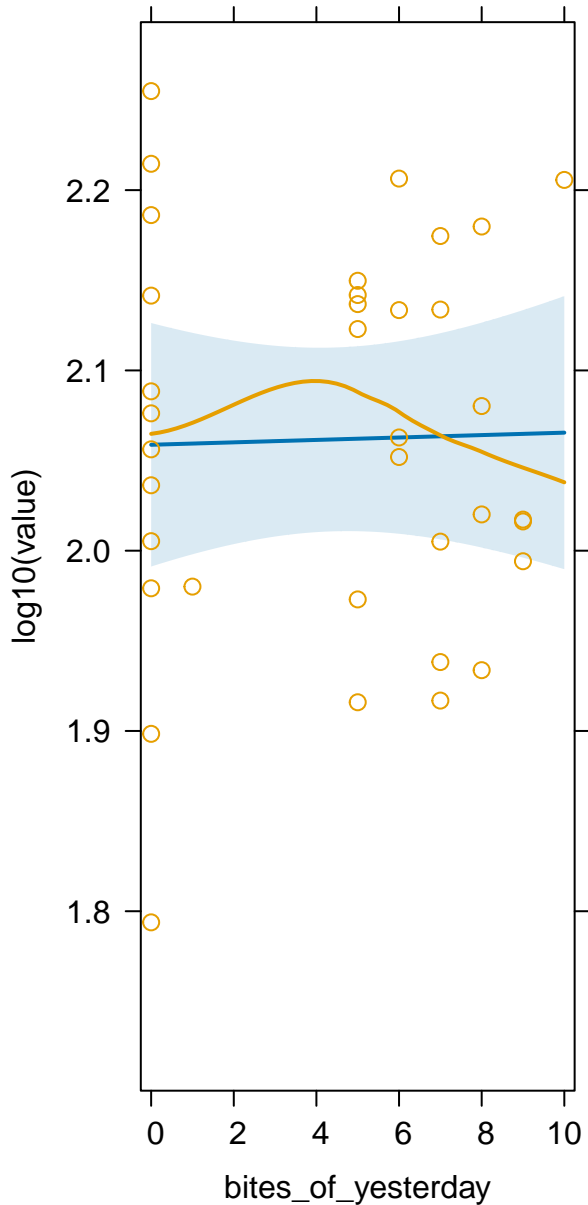
QQ plot residuals



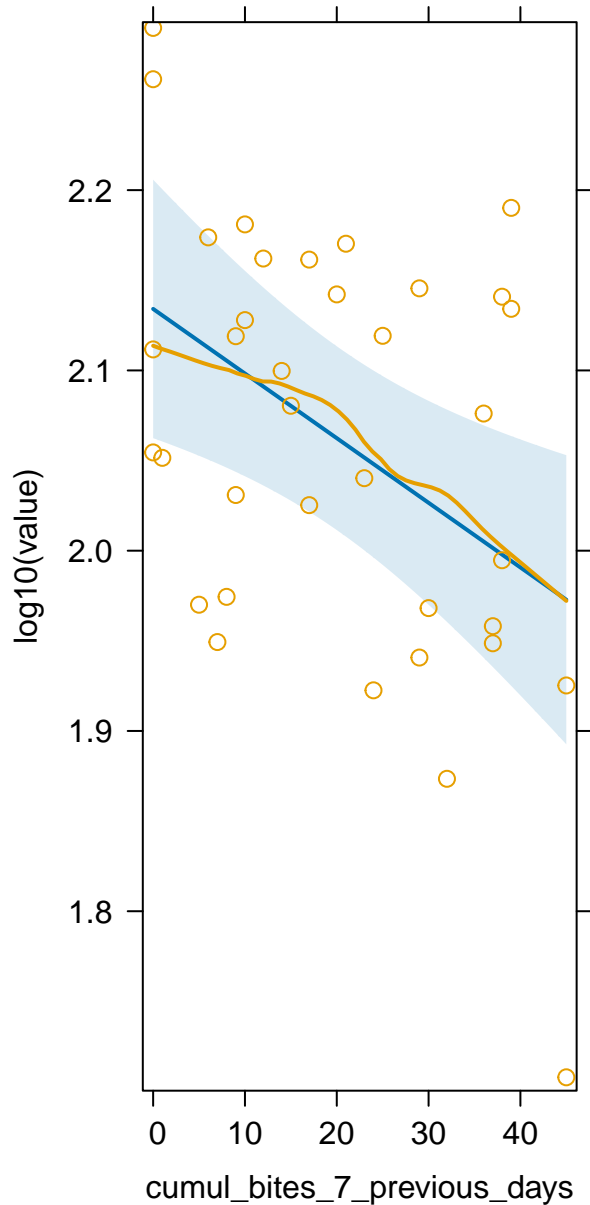
Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant

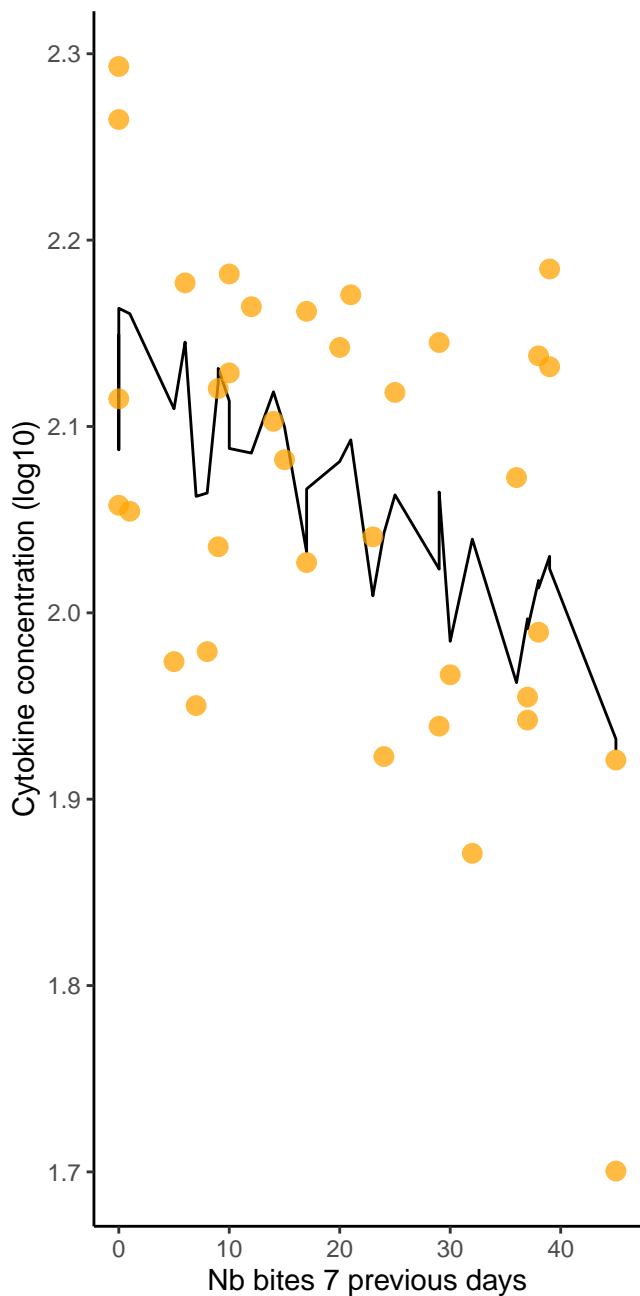
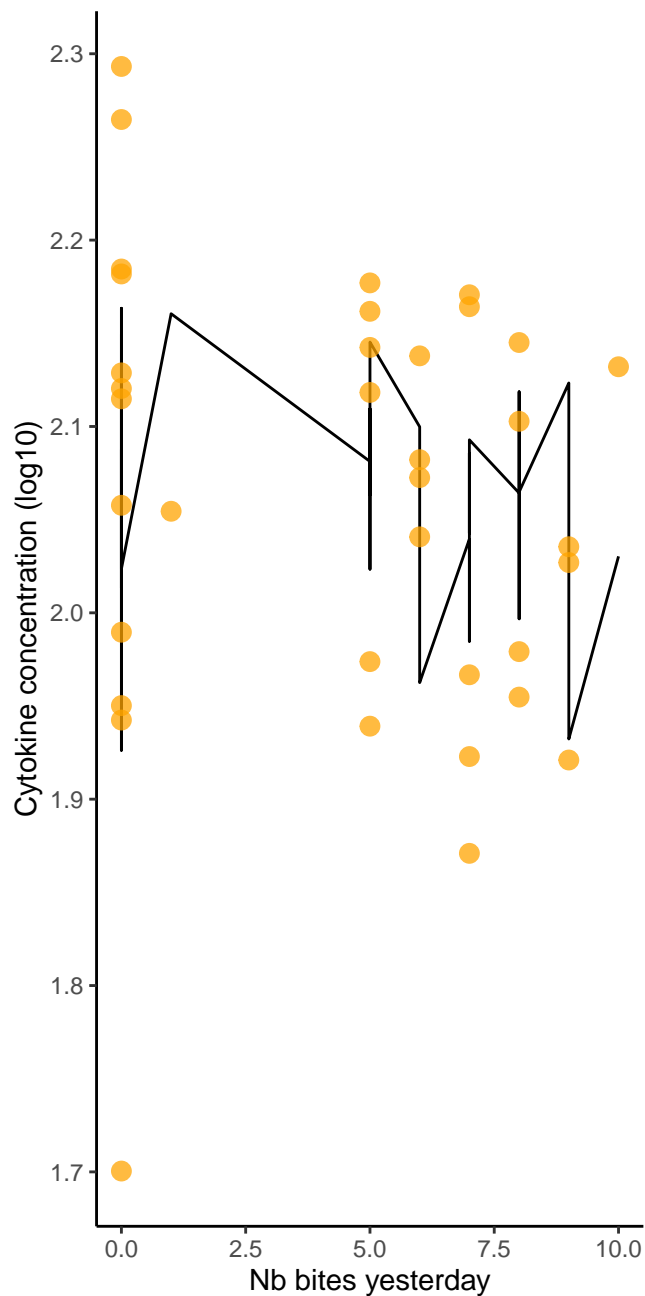


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.09	[1.00, 3.84]	1.05	0.91	[0.26, 1.00]
cumul_bites_7_previous_days	1.09	[1.00, 3.84]	1.05	0.91	[0.26, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-51.7	-43.8	30.8	-61.7	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.001446	0.03802
Residual		0.009598	0.09797

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0096

Conditional model:

	Estimate	Std. Error	z	value	Pr(> z)
(Intercept)	2.1311508	0.0374068	56.97	< 2e-16	***
bites_of_yesterday	0.0006719	0.0049310	0.14	0.89162	
cumul_bites_7_previous_days	-0.0035852	0.0012269	-2.92	0.00348	**

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

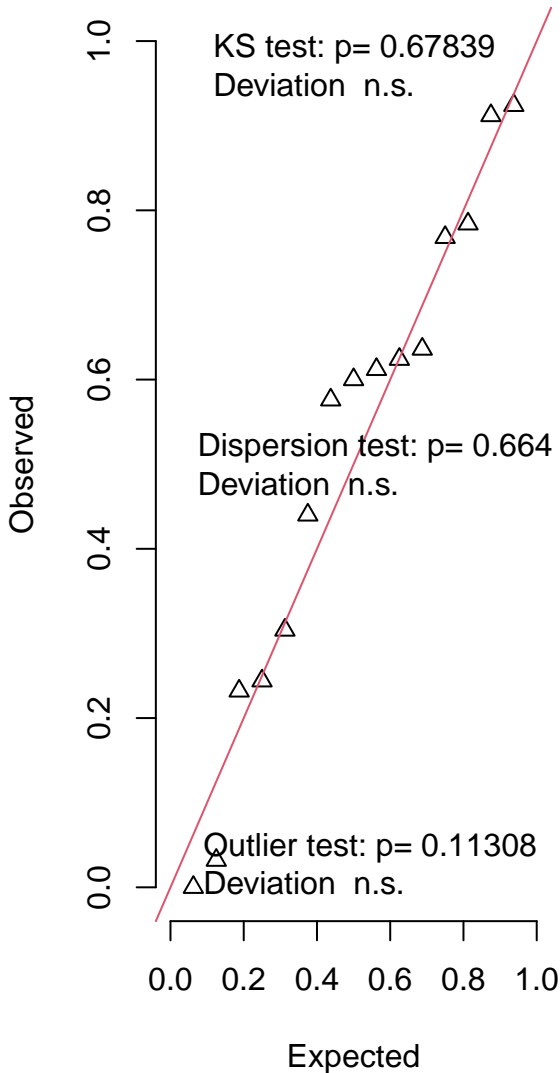
AICc [1] -49.67122

Bites in squirrel

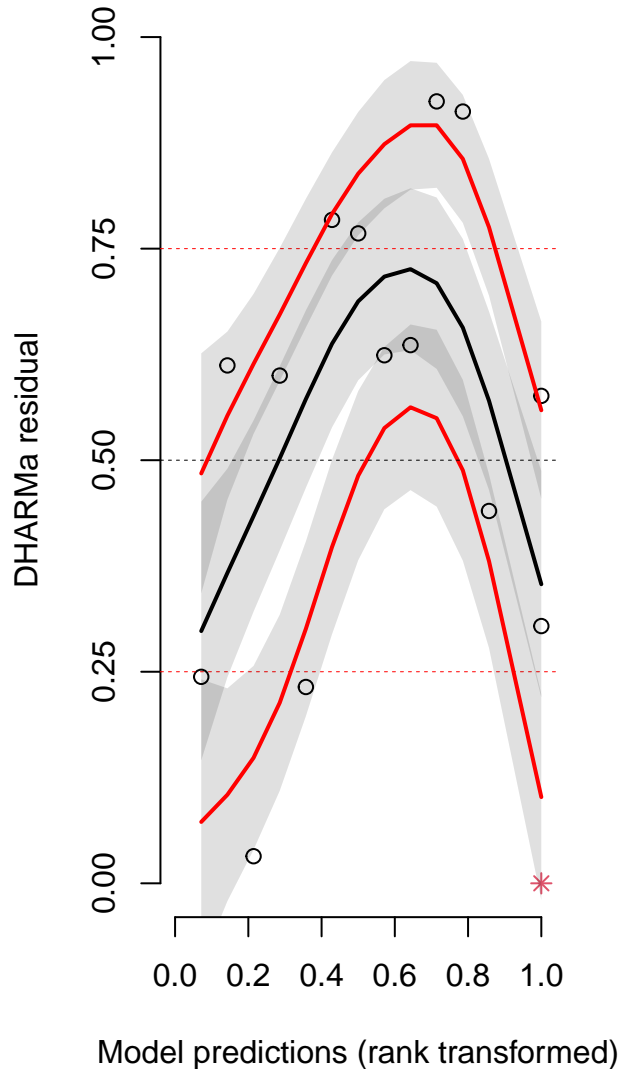
Nb excluded (LOD) : 5
Nb remaining: 15

DHARMA residual

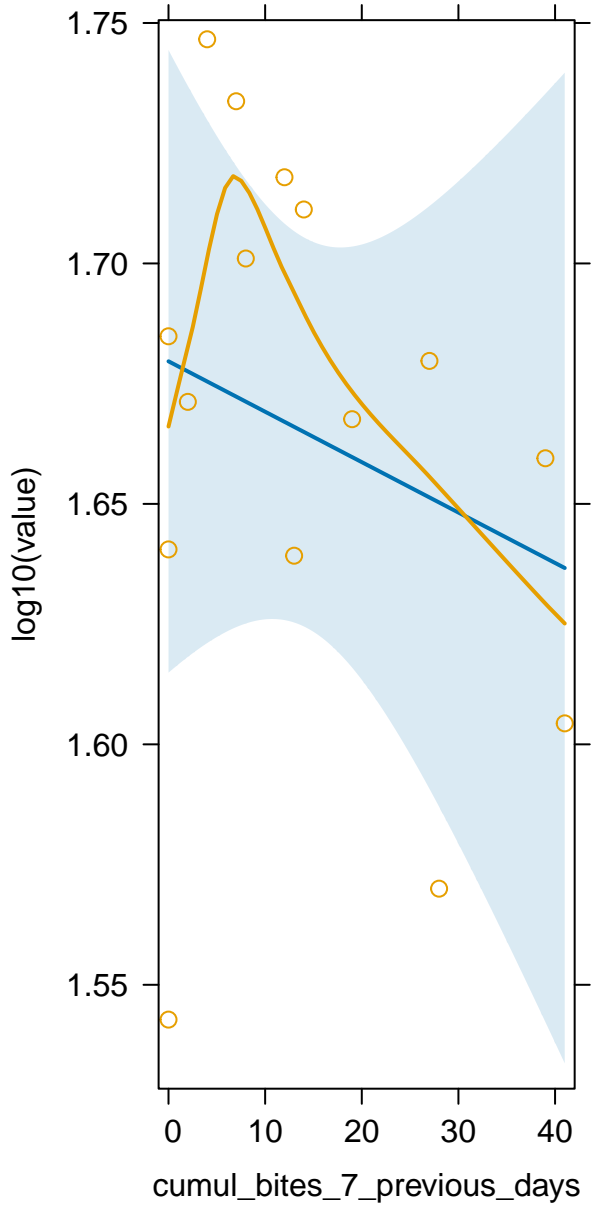
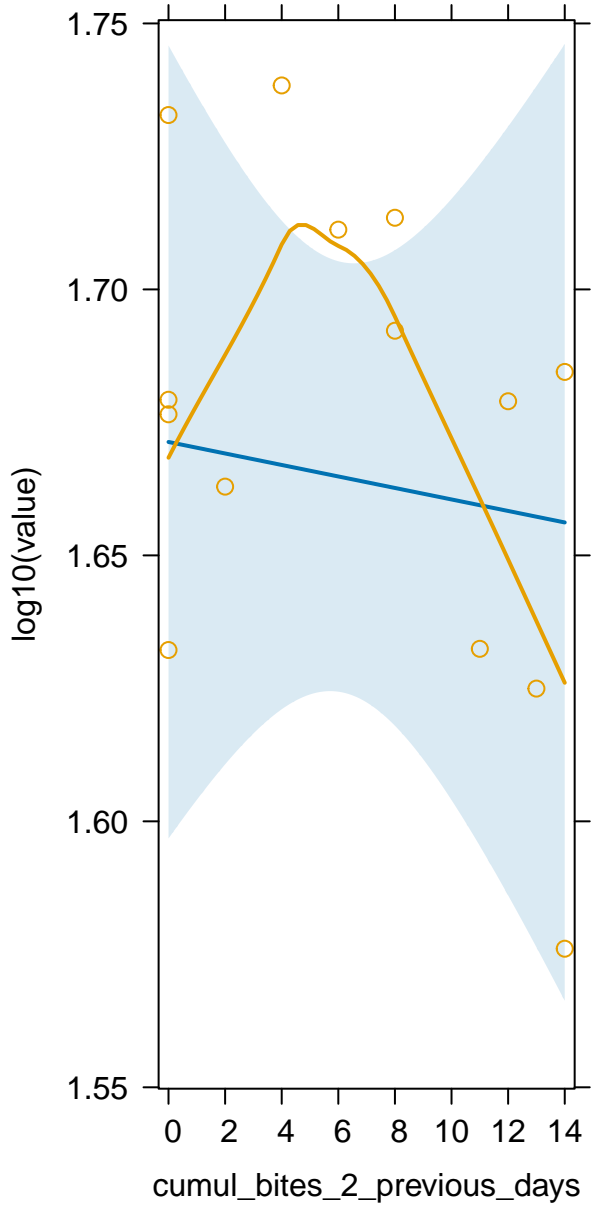
QQ plot residuals

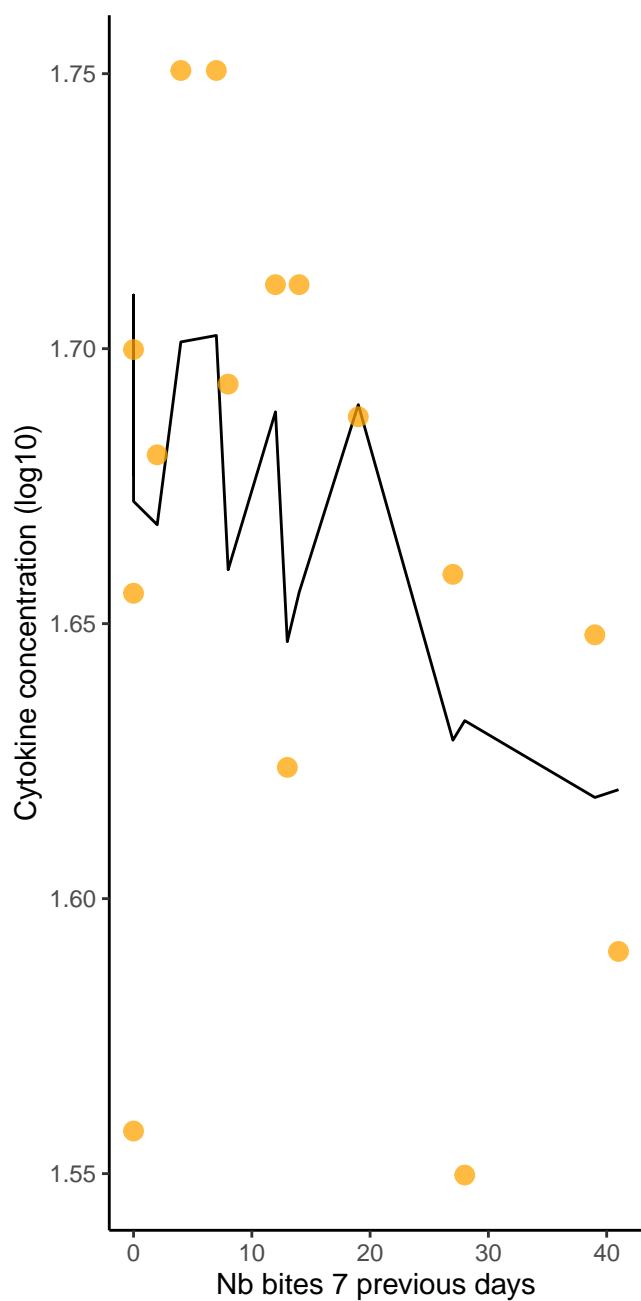
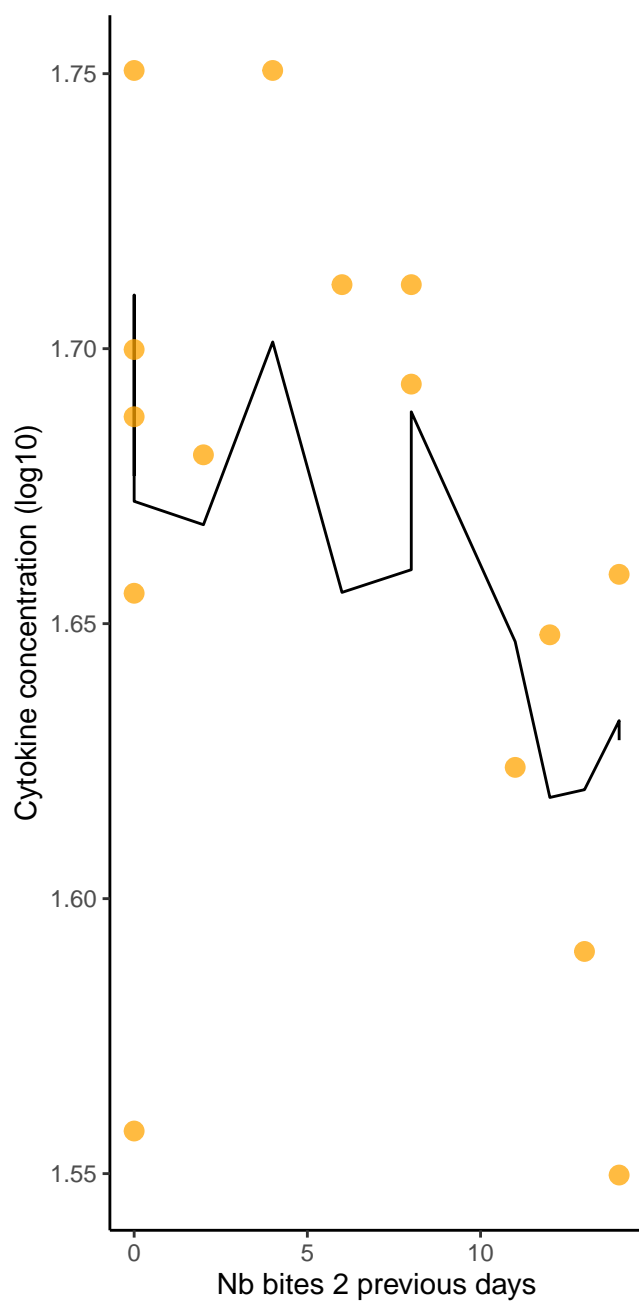


Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant



cumul_bites_2_previous_days effect plot cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
cumul_bites_2_previous_days	2.38	[1.59, 4.20]	1.54	0.42	[0.24, 0.63]
cumul_bites_7_previous_days	2.38	[1.59, 4.20]	1.54	0.42	[0.24, 0.63]

```
Family: gaussian ( identity )
Formula:      log10(value) ~ cumul_bites_2_previous_days + cumul_bites_7_previous_days +
      (1 | ID)
Data: d_sq

      AIC      BIC  logLik deviance df.resid
-35.2    -31.7    22.6    -45.2        10

Random effects:

Conditional model:
Groups   Name      Variance Std.Dev.
ID       (Intercept) 0.0005368 0.02317
Residual              0.0024840 0.04984
Number of obs: 15, groups: ID, 3

Dispersion estimate for gaussian family (sigma^2): 0.00248

Conditional model:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)    1.686274   0.026339   64.02  <2e-16 ***
cumul_bites_2_previous_days -0.001081   0.004686   -0.23    0.818
cumul_bites_7_previous_days -0.001048   0.001626   -0.64    0.519
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

AICc [1] -28.53565

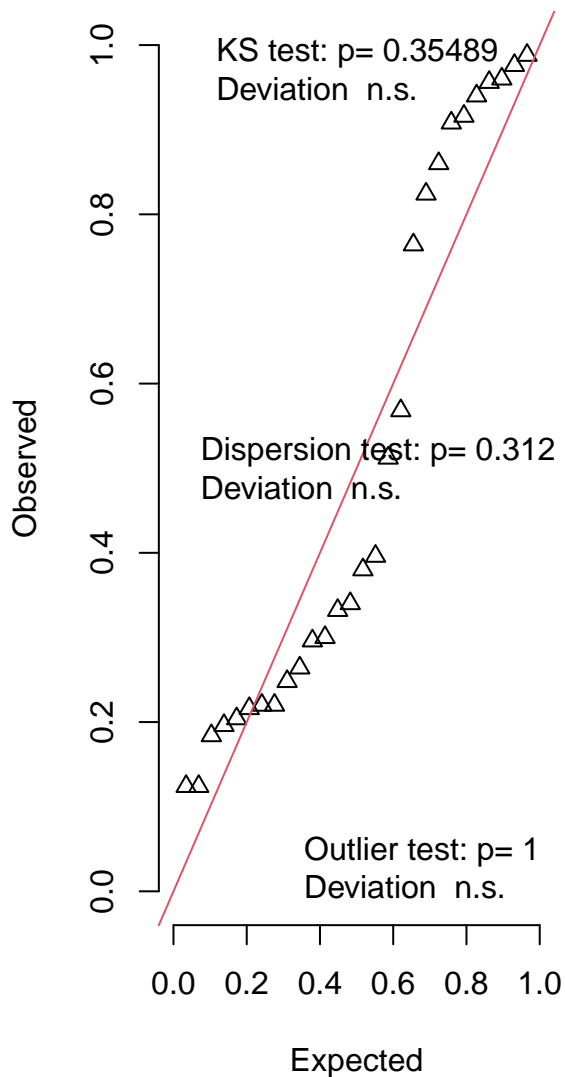
IFN.g

Bites in cyno

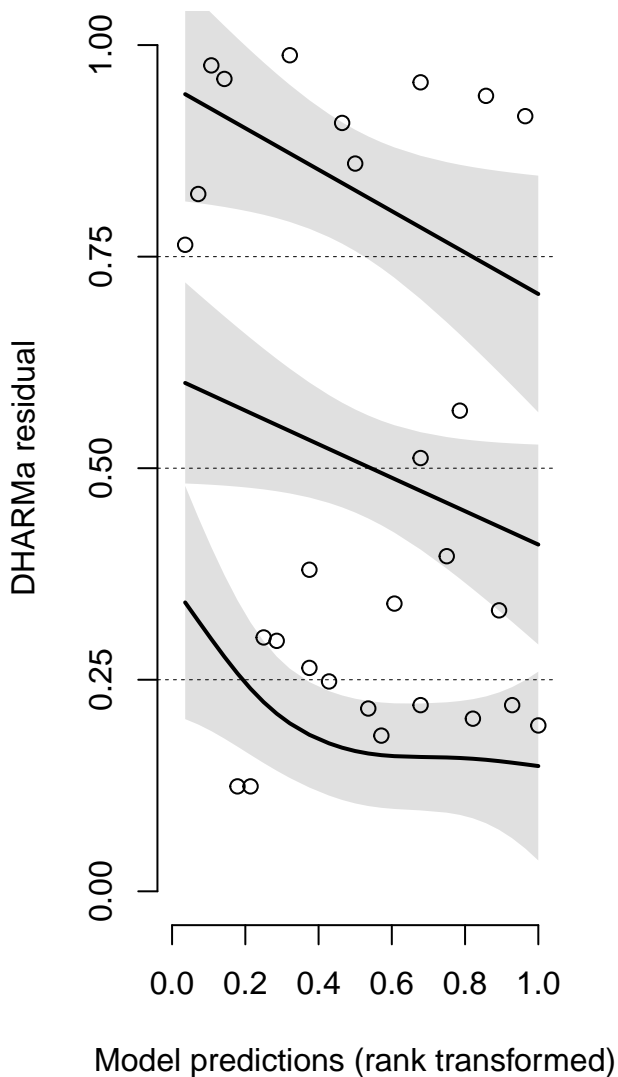
Nb excluded (LOD) : 8
Nb remaining: 28

DHARMA residual

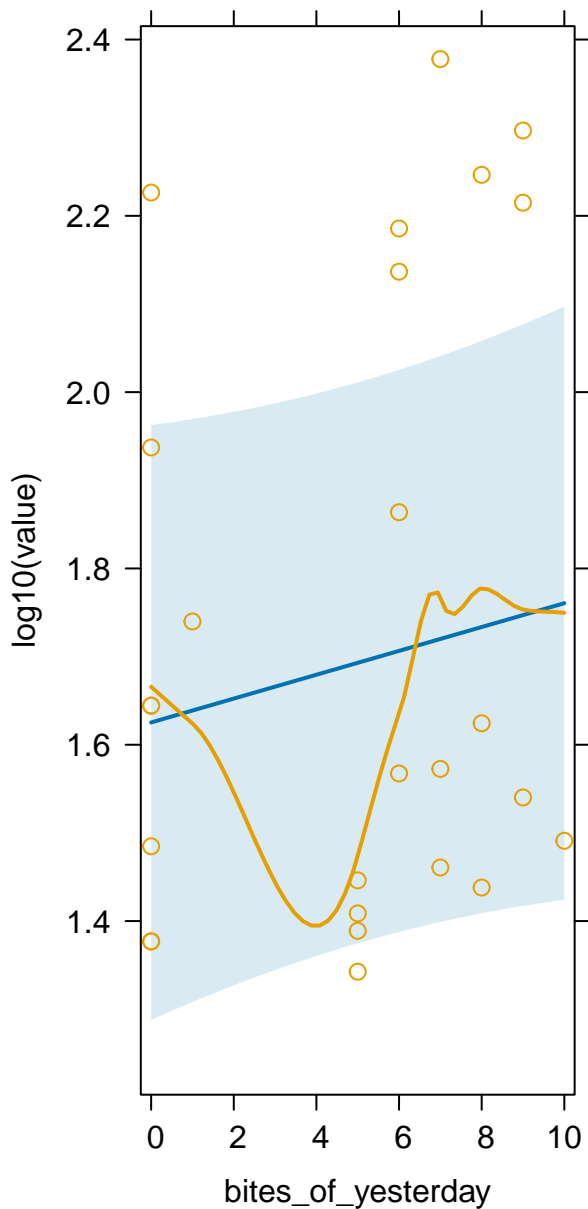
QQ plot residuals



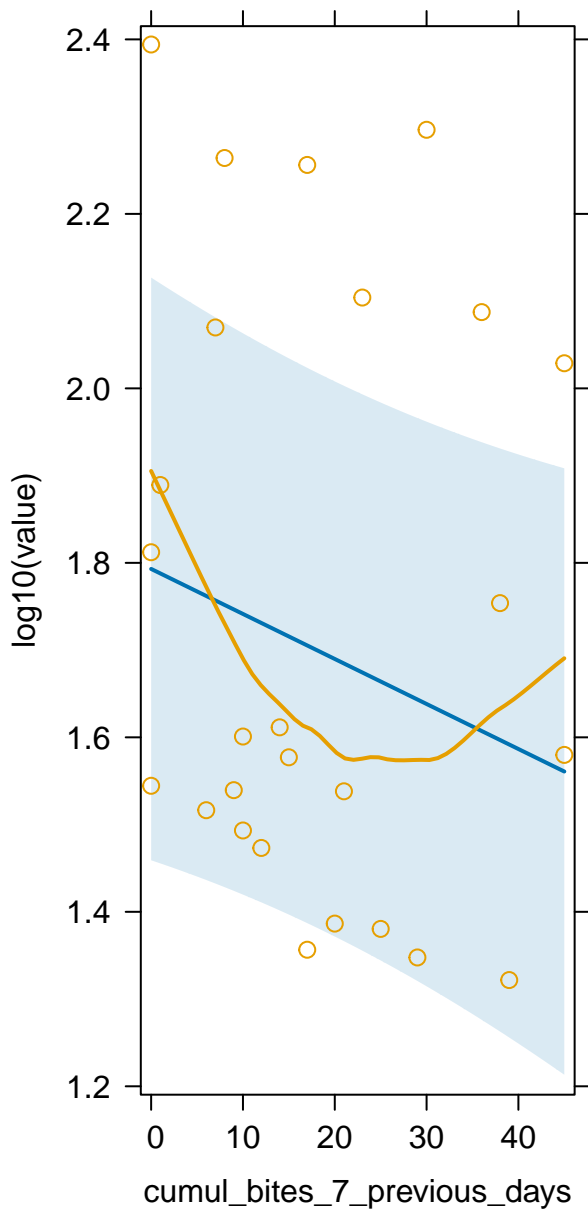
Residual vs. predicted No significant problems detected

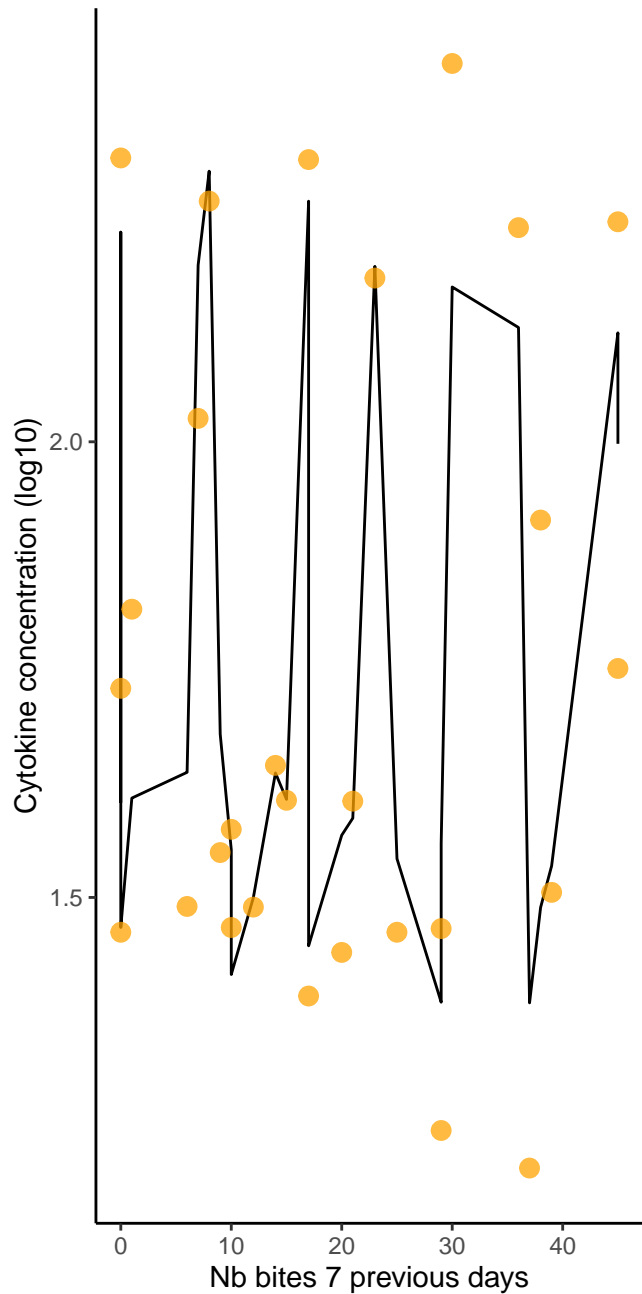
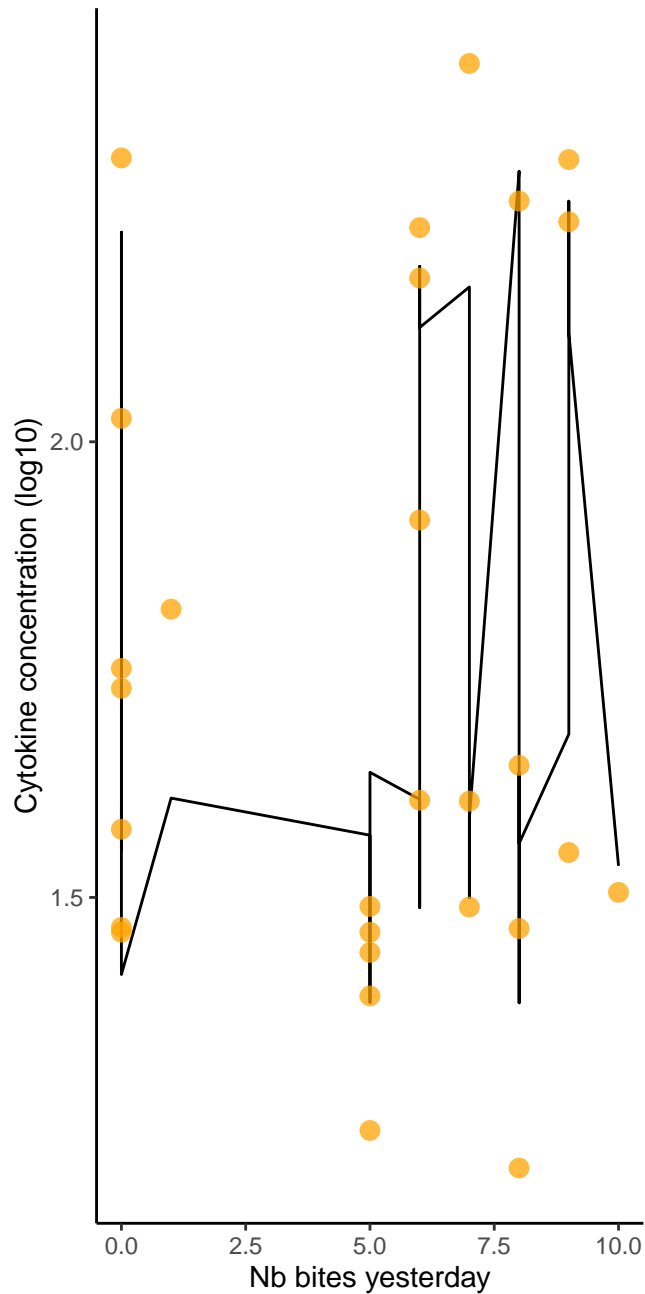


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.32	[1.07, 2.41]	1.15	0.76	[0.41, 0.93]
cumul_bites_7_previous_days	1.32	[1.07, 2.41]	1.15	0.76	[0.41, 0.93]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
0.2	6.9	4.9	-9.8	23

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.09160	0.3027
	Residual	0.02605	0.1614

Number of obs: 28, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0261

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.725387	0.163060	10.581	<2e-16 ***
bites_of_yesterday	0.013528	0.010776	1.255	0.2093
cumul_bites_7_previous_days	-0.005161	0.002609	-1.978	0.0479 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1


```
AICc [1] 2.974509
```

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

IFN.g ERROR : Invalid grouping factor specification, ID

IL.10

Bites in cyno

Nb excluded (LOD) : 36

Nb remaining: 0

IL.10 ERROR : Invalid grouping factor specification, ID

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

IL.10 ERROR : Invalid grouping factor specification, ID

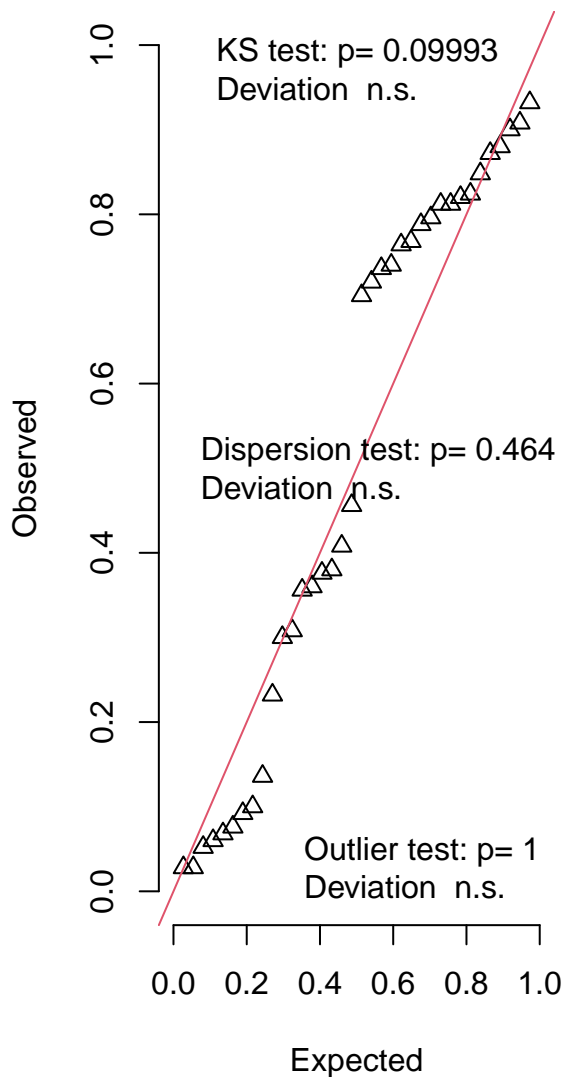
IL.12

Bites in cyno

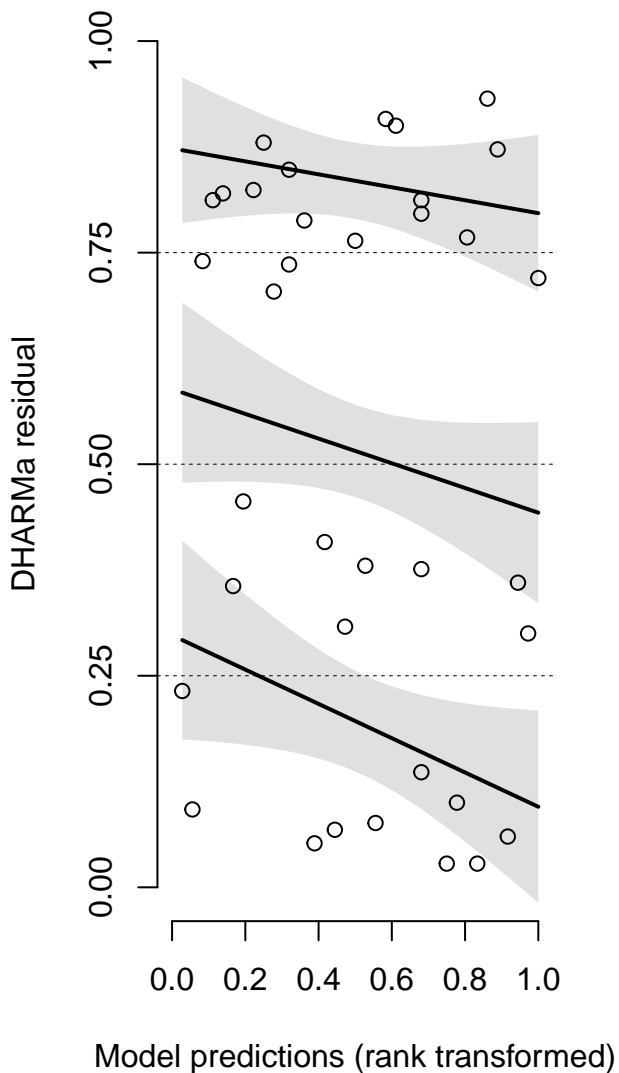
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

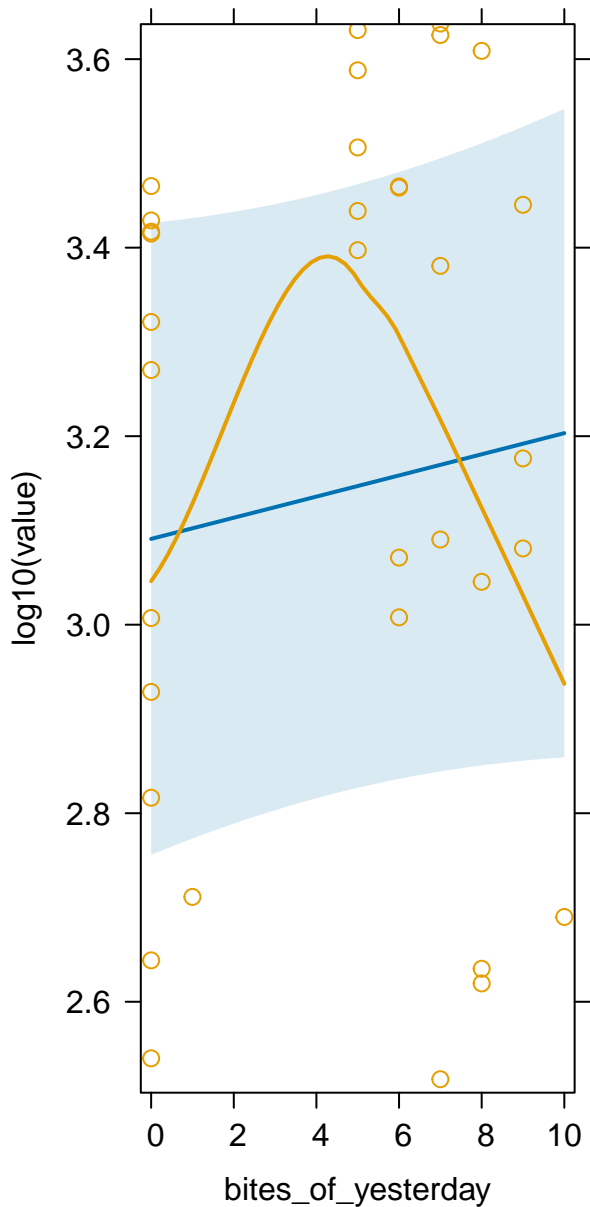
QQ plot residuals



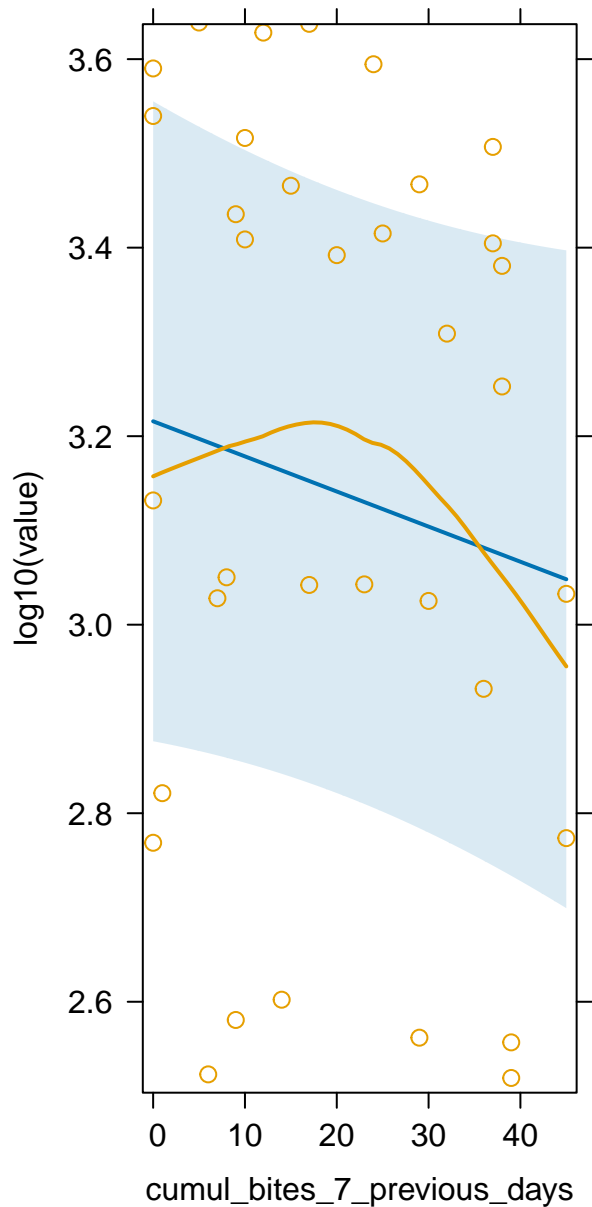
Residual vs. predicted No significant problems detected

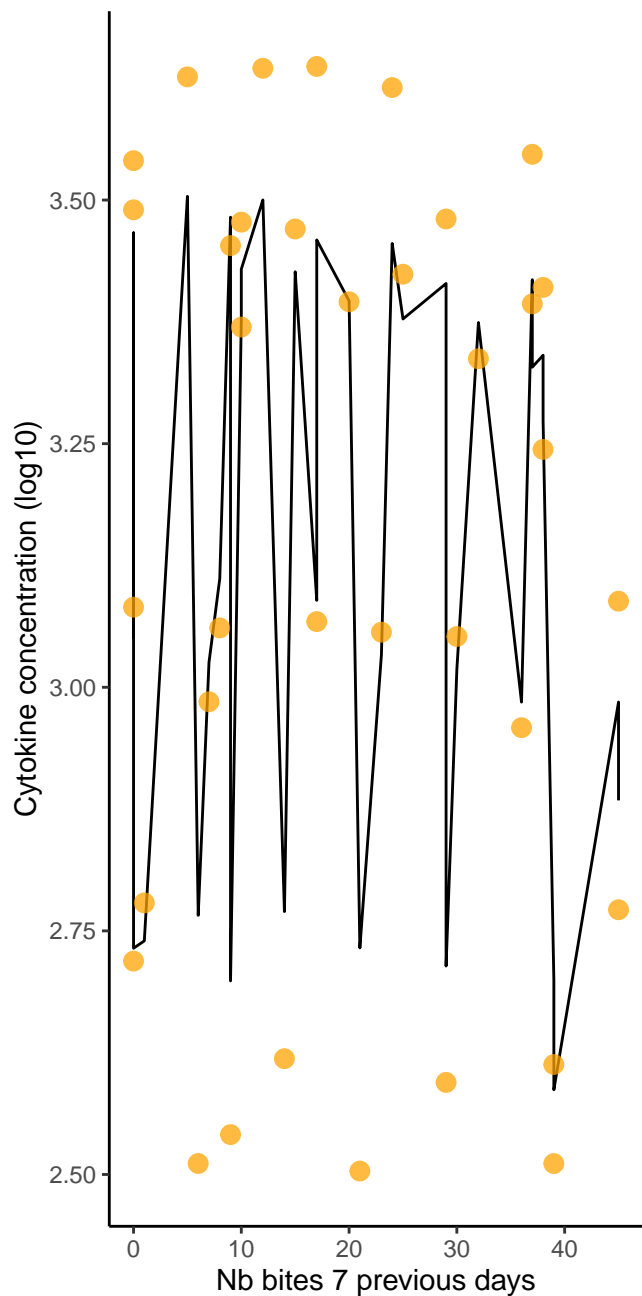
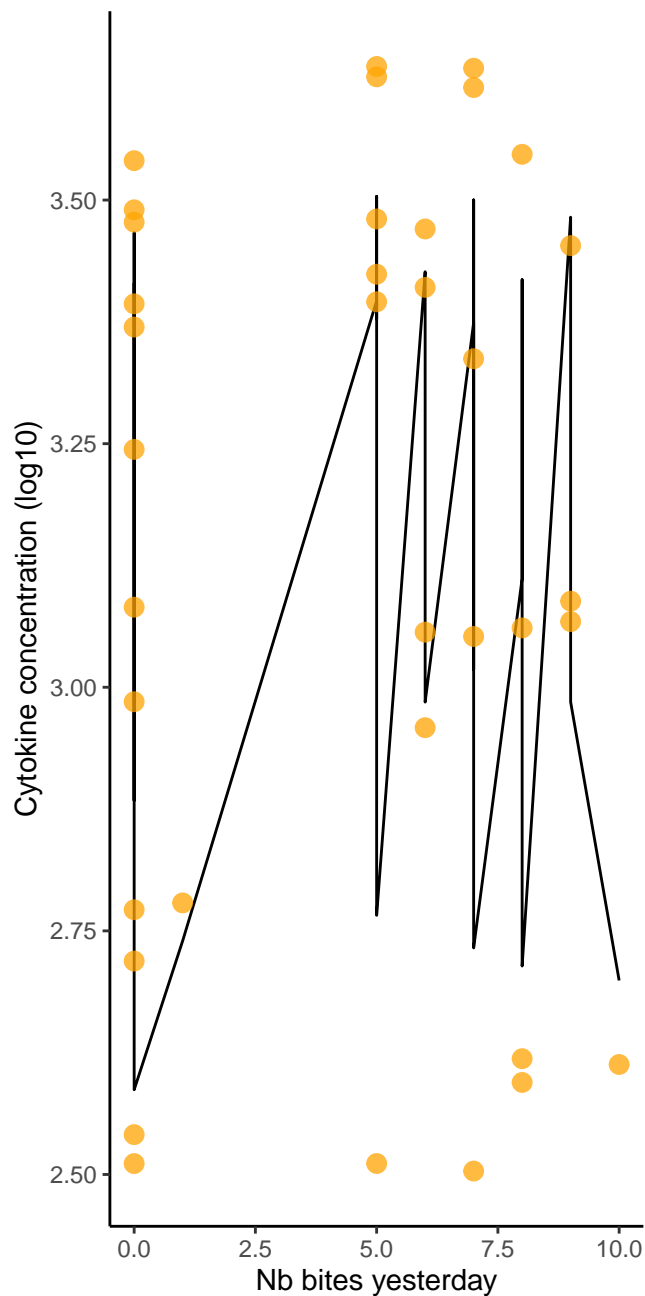


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.71]	1.05	0.91	[0.27, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.71]	1.05	0.91	[0.27, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
15.1	23.0	-2.5	5.1	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.09349	0.3058
	Residual	0.04881	0.2209

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0488

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	3.166258	0.169180	18.715	<2e-16 ***
bites_of_yesterday	0.011219	0.011126	1.008	0.313
cumul_bites_7_previous_days	-0.003725	0.002761	-1.349	0.177

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 17.06667
```

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IL.12 ERROR : Invalid grouping factor specification, ID

IL.15

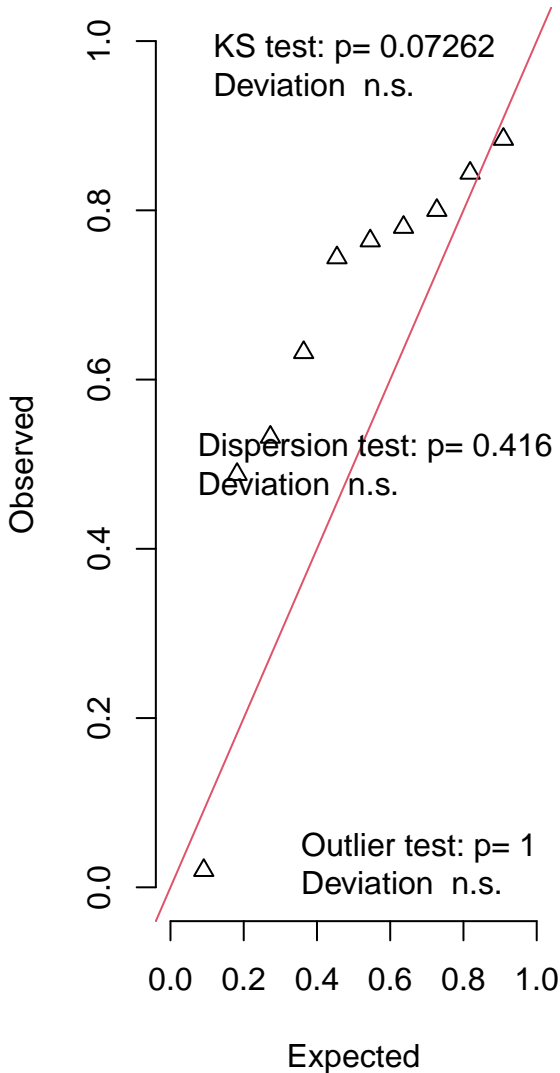
Bites in cyno

Nb excluded (LOD) : 26

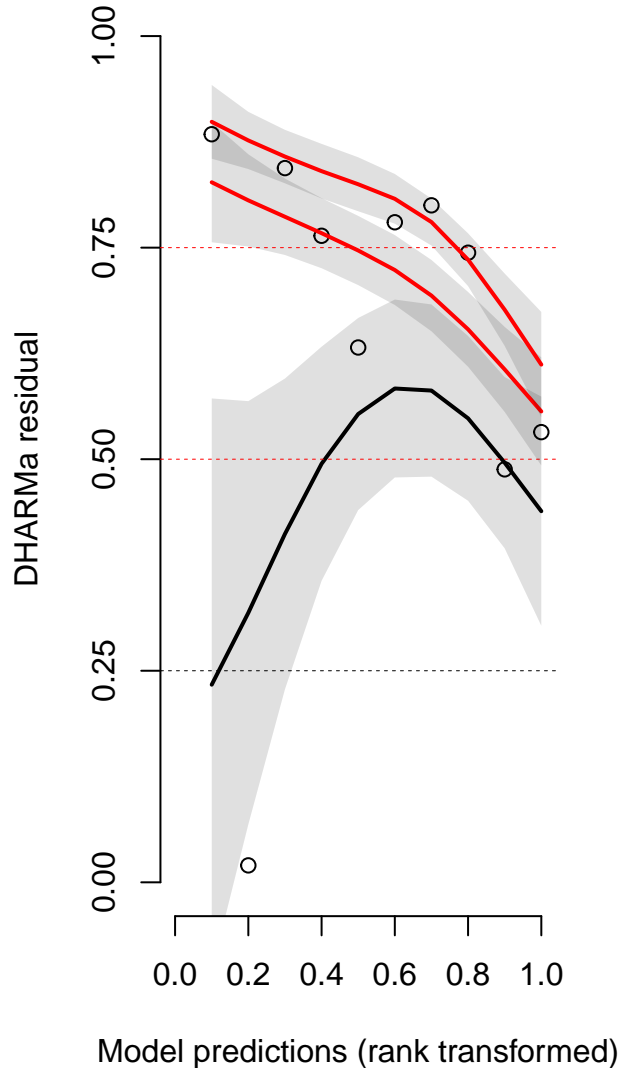
Nb remaining: 10

DHARMA residual

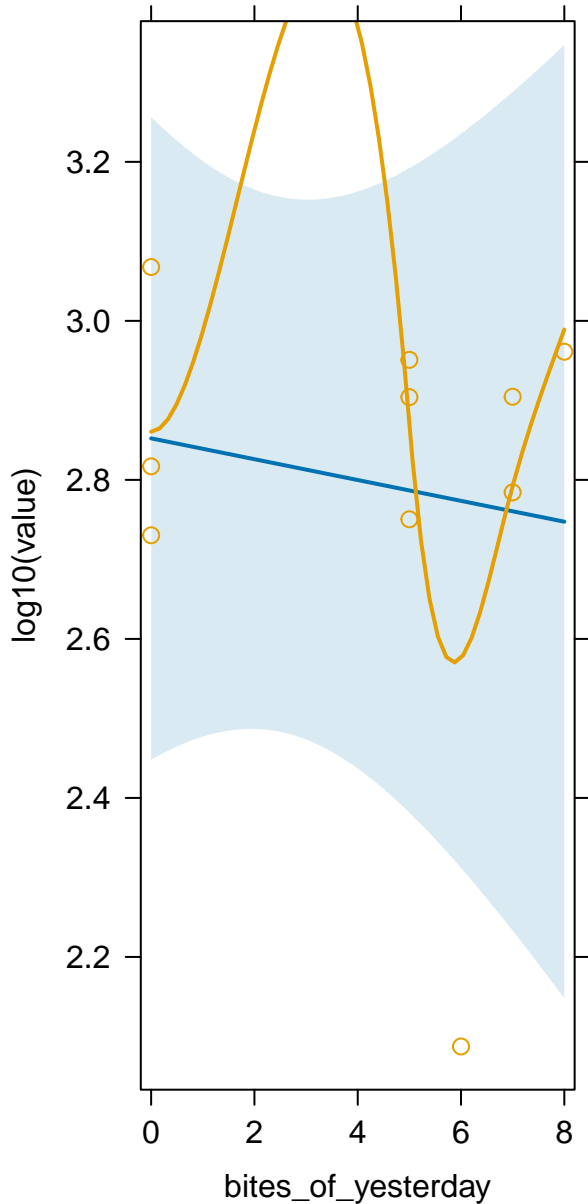
QQ plot residuals



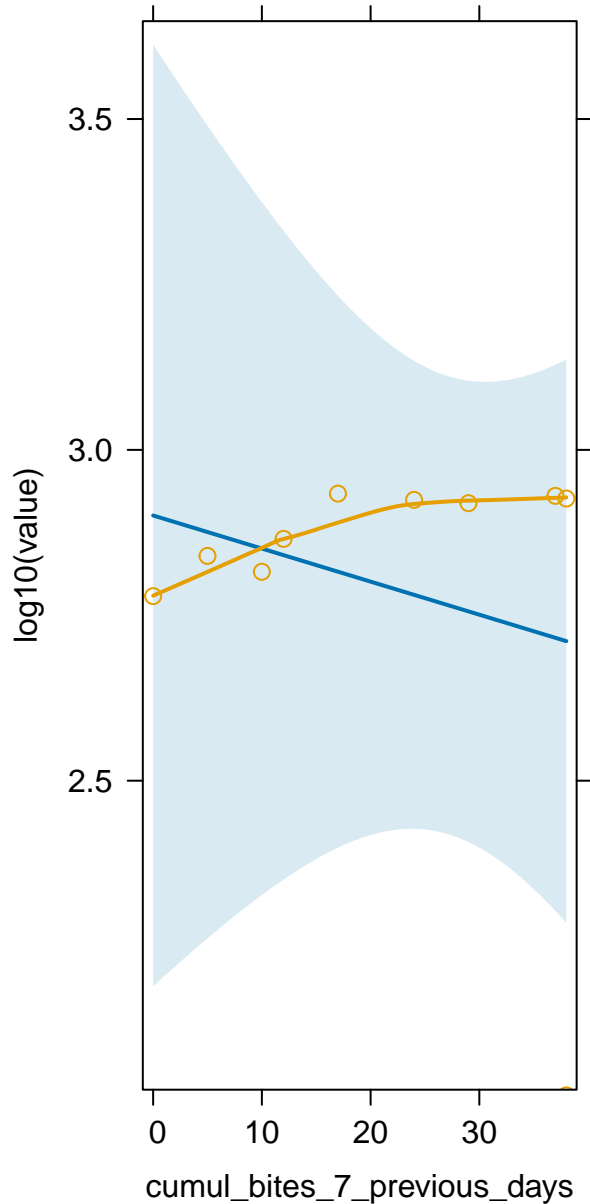
Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant

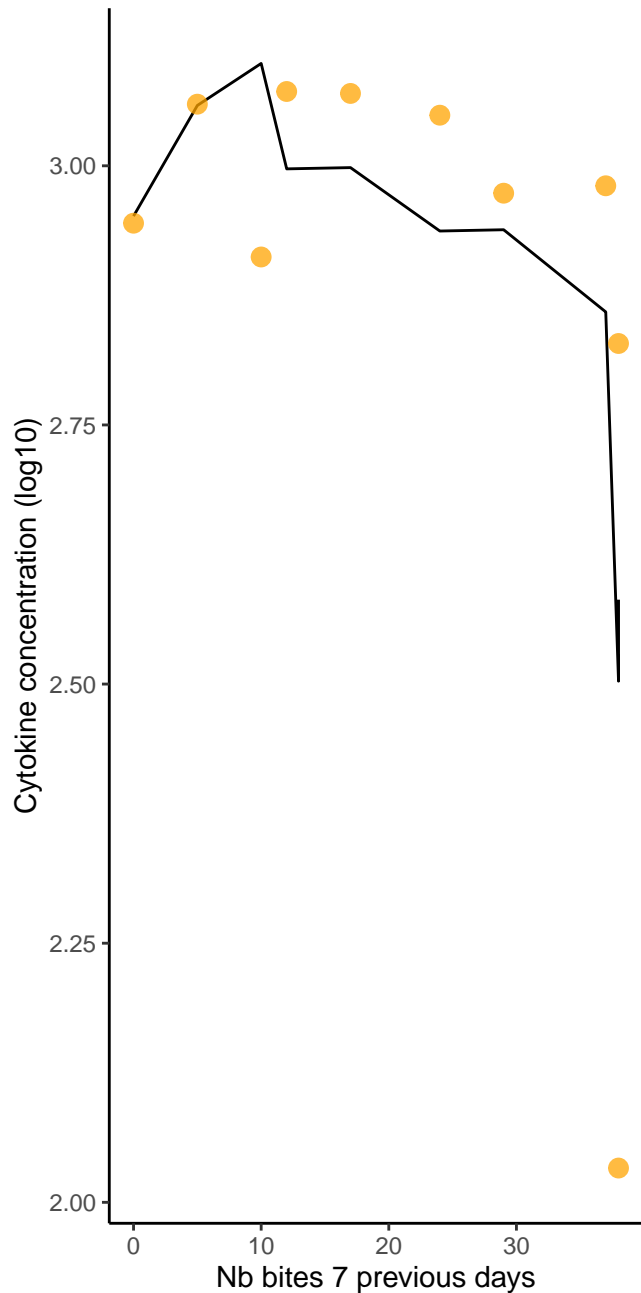
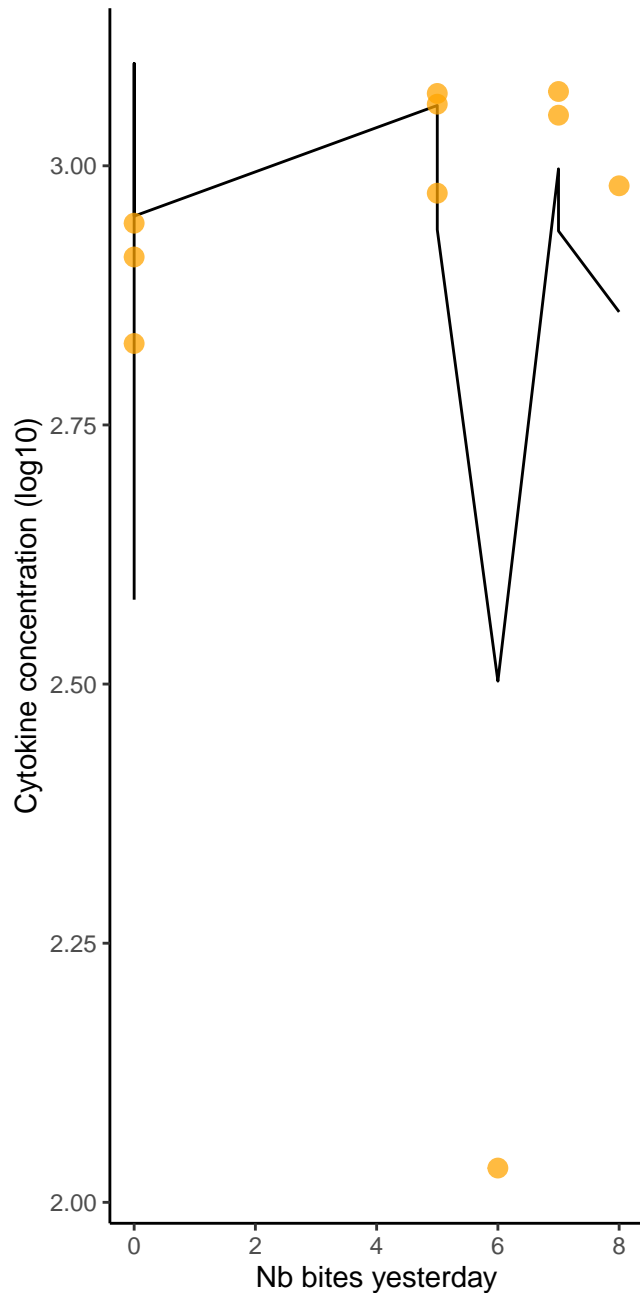


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	2.02	[1.45, 3.31]	1.42	0.49	[0.30, 0.69]
cumul_bites_7_previous_days	2.02	[1.45, 3.31]	1.42	0.49	[0.30, 0.69]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
10.7	12.2	-0.3	0.7	5

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.03684	0.1919
Residual		0.04412	0.2101

Number of obs: 10, groups: ID, 3

Dispersion estimate for gaussian family (sigma^2): 0.0441

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.957159	0.217799	13.577	<2e-16 ***
bites_of_yesterday	-0.013100	0.038074	-0.344	0.731
cumul_bites_7_previous_days	-0.004997	0.009674	-0.517	0.605

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 25.68405
```


Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IL.15 ERROR : Invalid grouping factor specification, ID

IL.17

Bites in cyno

Nb excluded (LOD) : 36

Nb remaining: 0

IL.17 ERROR : Invalid grouping factor specification, ID

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

IL.17 ERROR : Invalid grouping factor specification, ID

IL.1B

Bites in cyno

Nb excluded (LOD) : 36

Nb remaining: 0

IL.1B ERROR : Invalid grouping factor specification, ID

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IL.1B ERROR : Invalid grouping factor specification, ID

IL. 2

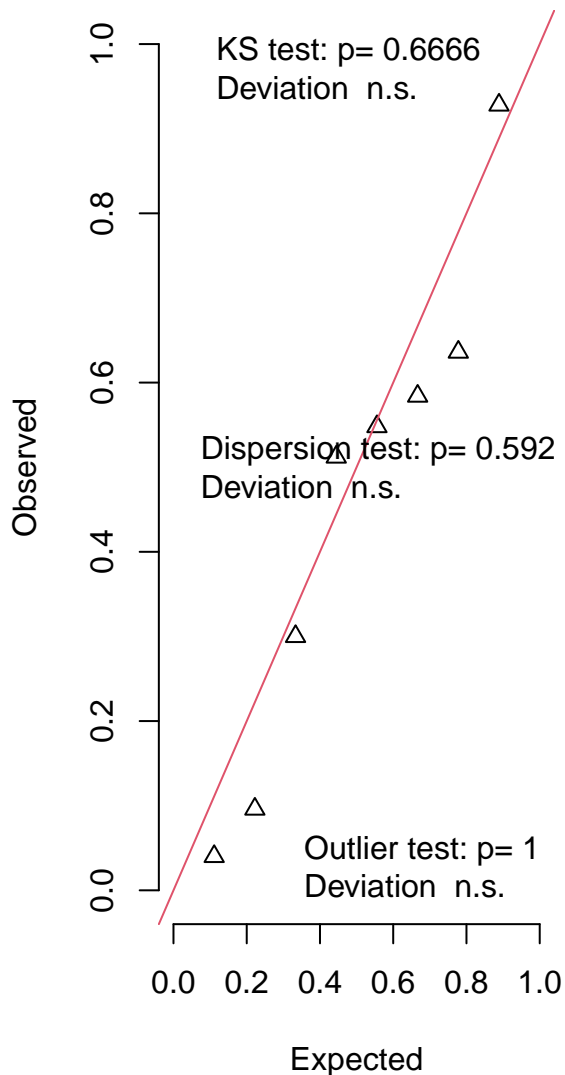
Bites in cyno

Nb excluded (LOD) : 28

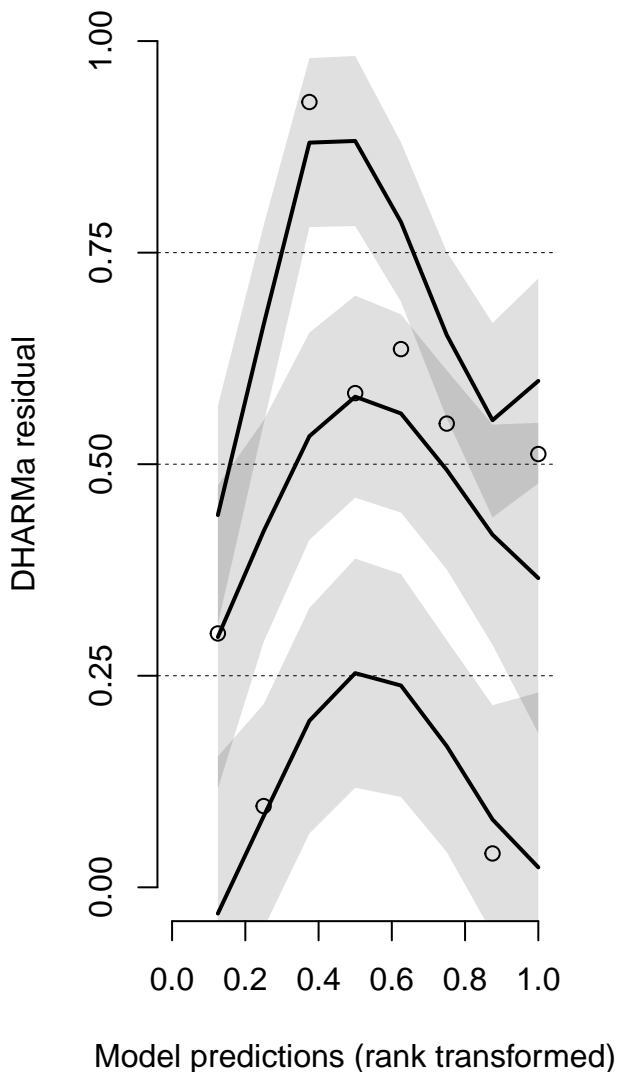
Nb remaining: 8

DHARMA residual

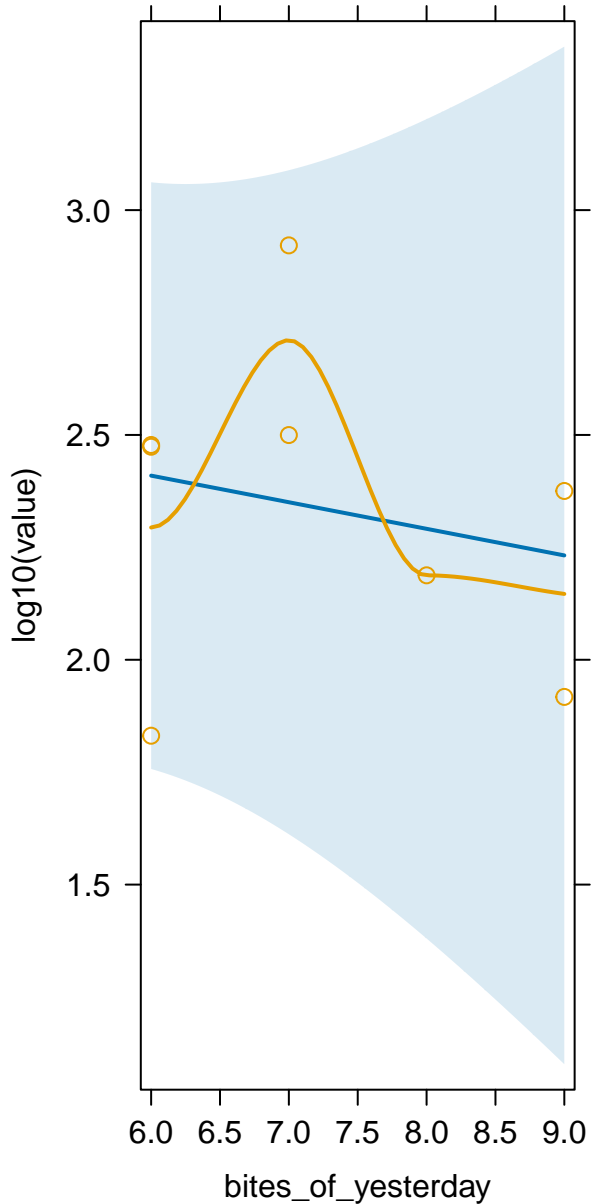
QQ plot residuals



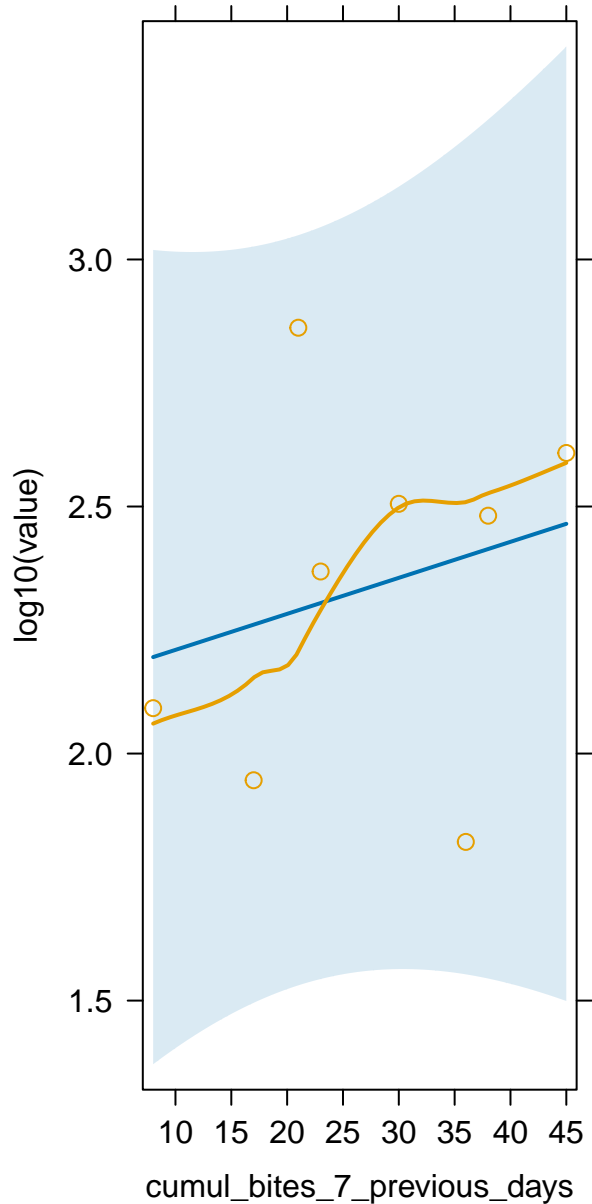
Residual vs. predicted No significant problems detected

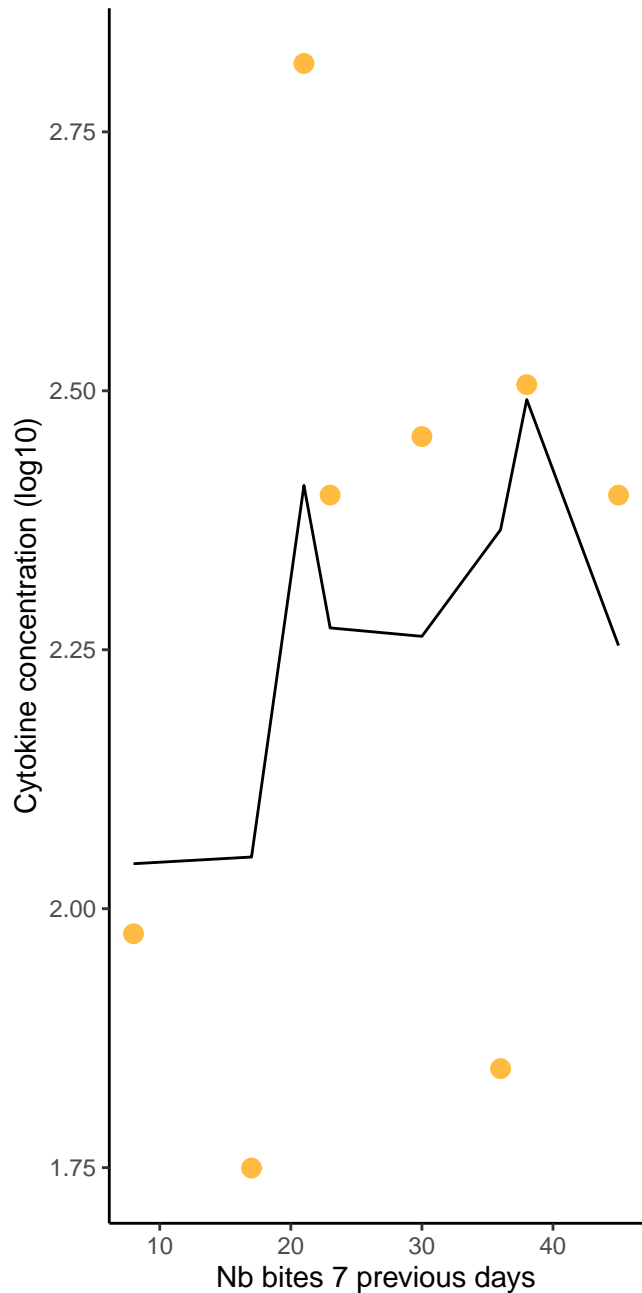
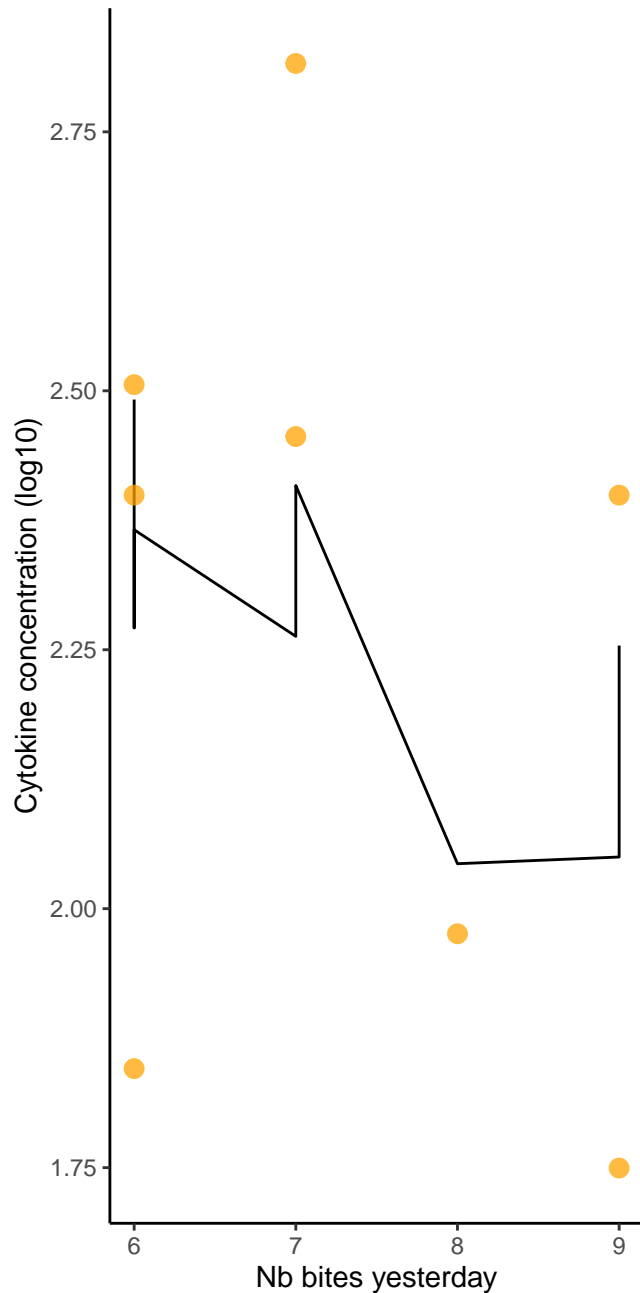


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.07	[1.00, 3.38]	1.04	0.93	[0.30, 1.00]
cumul_bites_7_previous_days	1.07	[1.00, 3.38]	1.04	0.93	[0.30, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
14.5	14.9	-2.3	4.5	3

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.02210	0.1487
	Residual	0.08676	0.2945

Number of obs: 8, groups: ID, 3

Dispersion estimate for gaussian family (sigma^2): 0.0868

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.565775	0.793671	3.233	0.00123 **
bites_of_yesterday	-0.059151	0.111841	-0.529	0.59688
cumul_bites_7_previous_days	0.007290	0.009648	0.756	0.44988

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 44.52735
```

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IL.2 ERROR : Invalid grouping factor specification, ID

IL . 4₁

Bites in cyno

Nb excluded (LOD) : 36

Nb remaining: 0

IL.4 ERROR : Invalid grouping factor specification, ID

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IL.4 ERROR : Invalid grouping factor specification, ID

IL. 5

Bites in cyno

Nb excluded (LOD) : 36

Nb remaining: 0

IL.5 ERROR : Invalid grouping factor specification, ID

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

IL.5 ERROR : Invalid grouping factor specification, ID

IL. 6

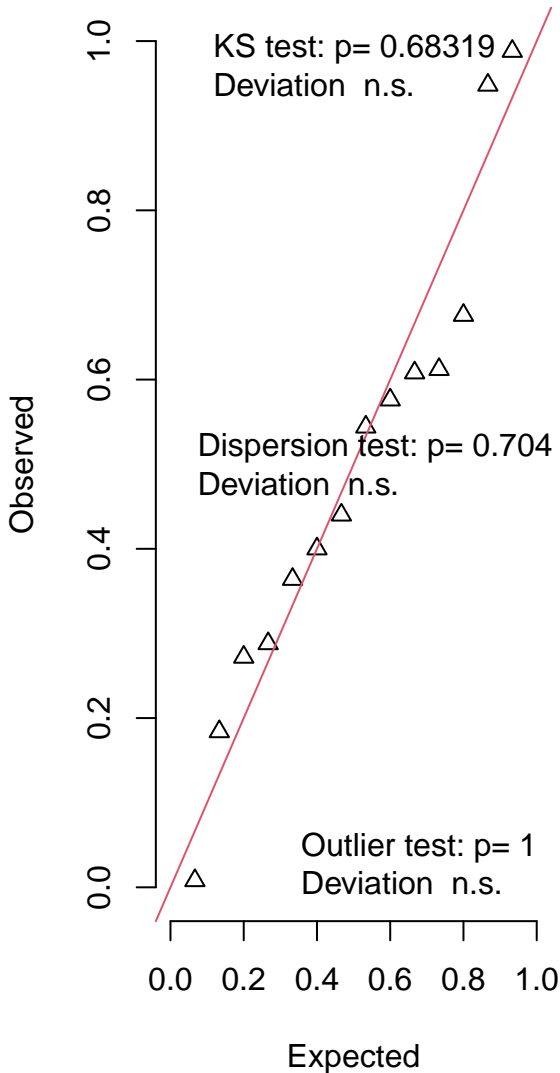
Bites in cyno

Nb excluded (LOD) : 22

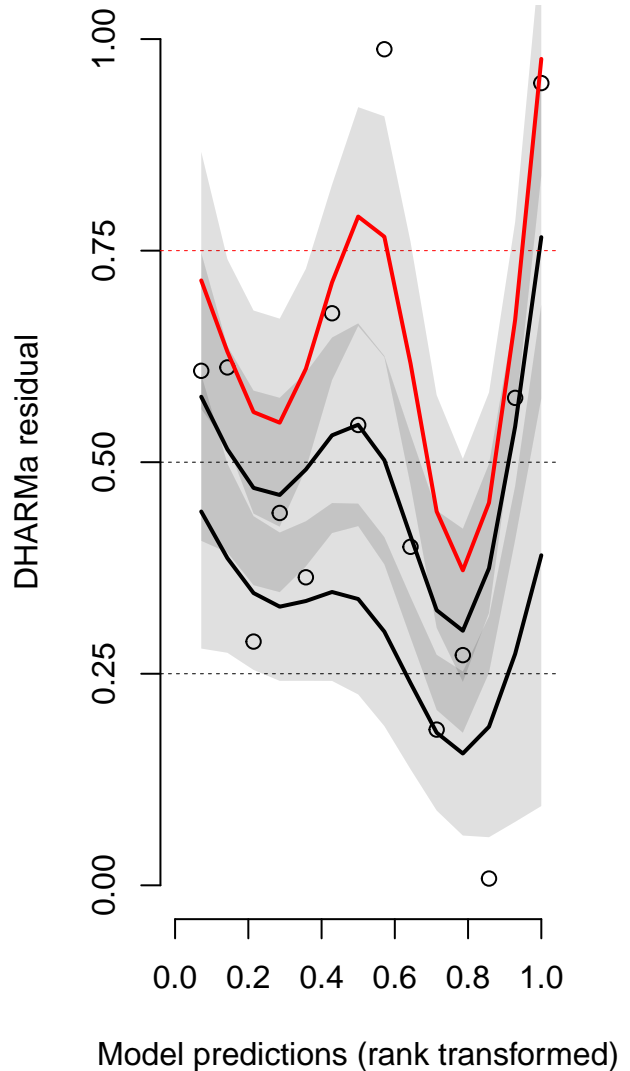
Nb remaining: 14

DHARMA residual

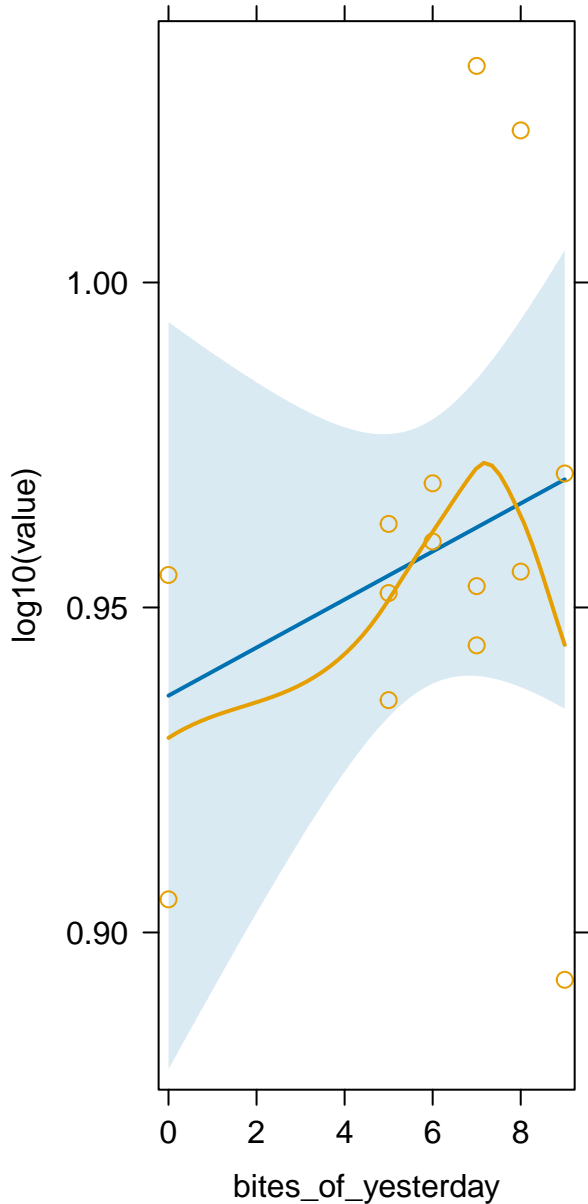
QQ plot residuals



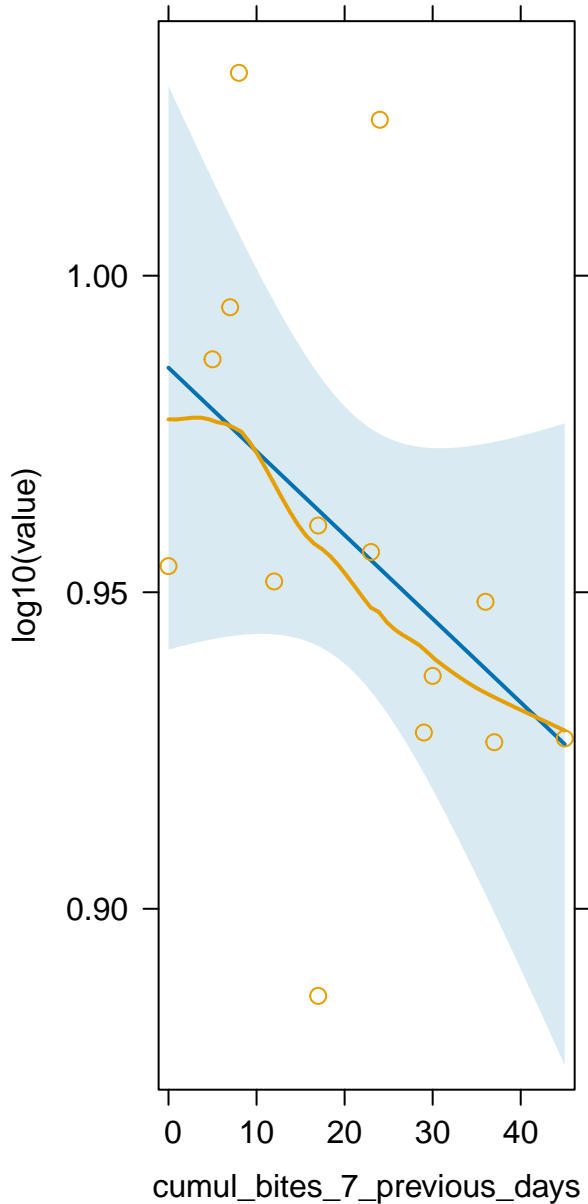
Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test n.s.

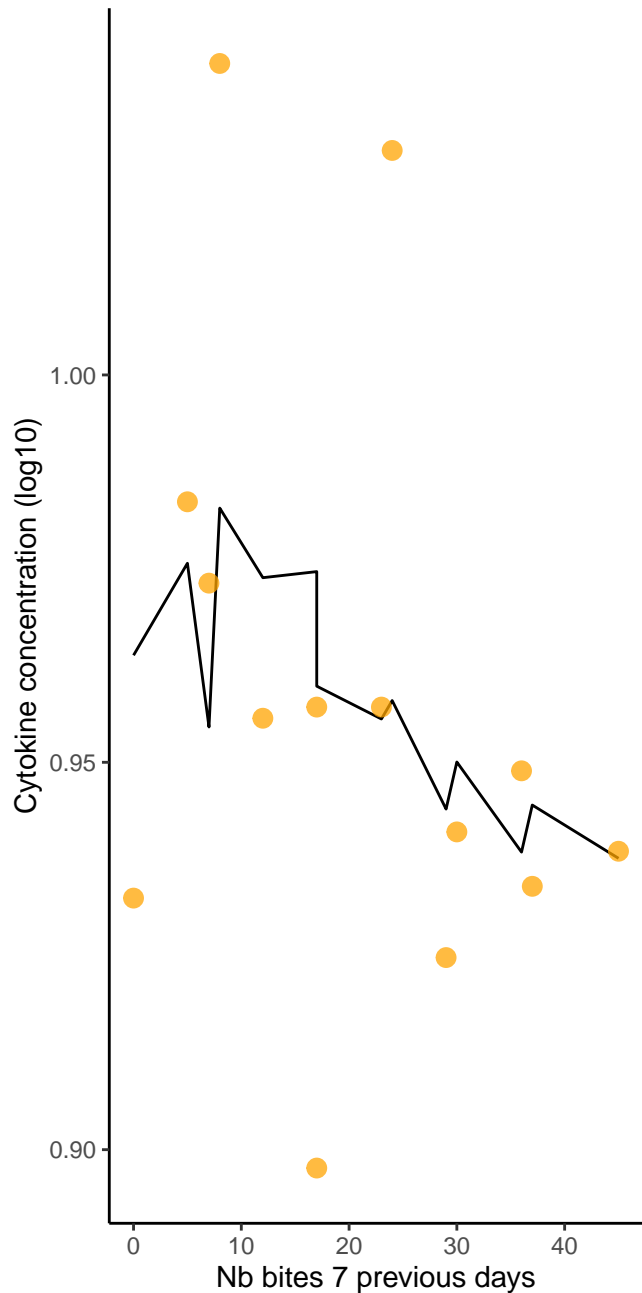
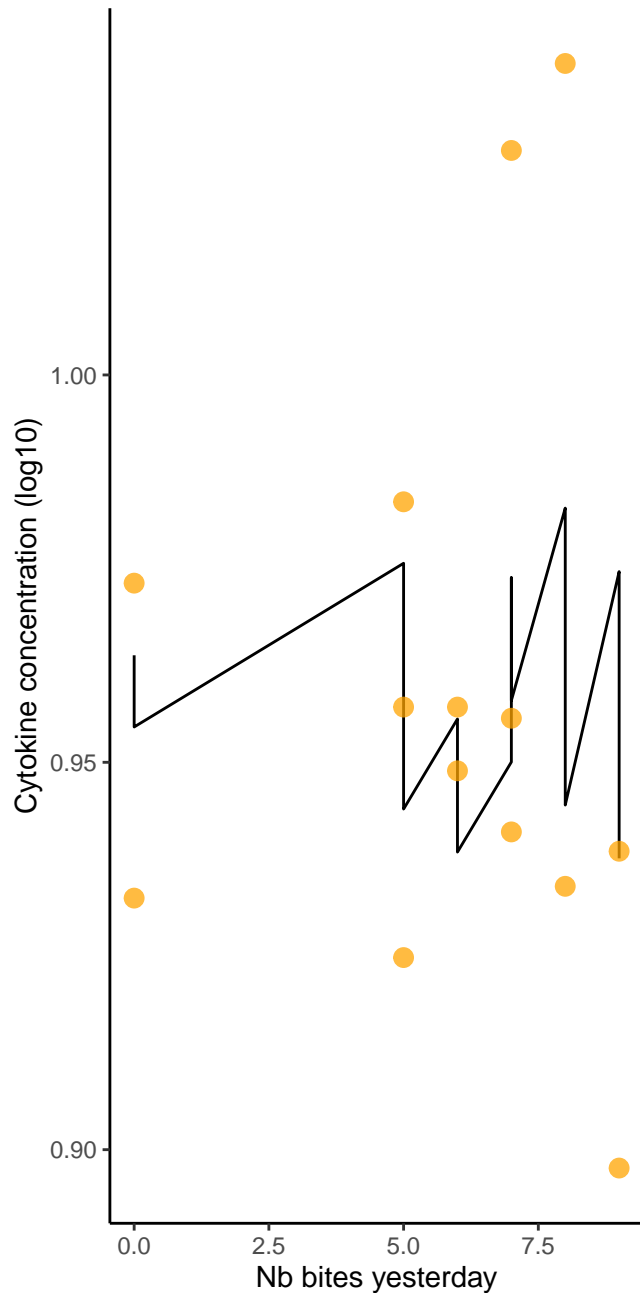


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.52	[1.15, 2.72]	1.23	0.66	[0.37, 0.87]
cumul_bites_7_previous_days	1.52	[1.15, 2.72]	1.23	0.66	[0.37, 0.87]

```

Family: gaussian ( identity )
Formula:      log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days +      (1 | ID)
Data: d_cyno

```

AIC	BIC	logLik	deviance	df.resid
-44.5	-41.3	27.3	-54.5	9

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	4.829e-13	6.949e-07
Residual		1.190e-03	3.450e-02

Number of obs: 14, groups: ID, 2

Dispersion estimate for gaussian family (sigma^2): 0.00119

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	0.9638127	0.0221974	43.42	<2e-16 ***
bites_of_yesterday	0.0036966	0.0041711	0.89	0.375
cumul_bites_7_previous_days	-0.0013217	0.0008691	-1.52	0.128

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -37.0414

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

IL.6 ERROR : Invalid grouping factor specification, ID

IL.8

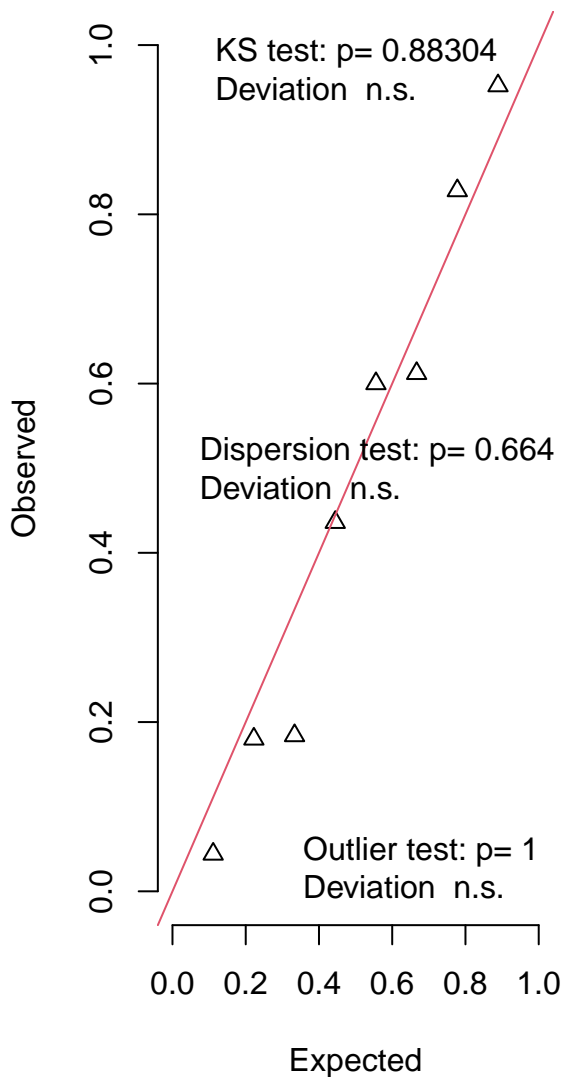
Bites in cyno

Nb excluded (LOD) : 28

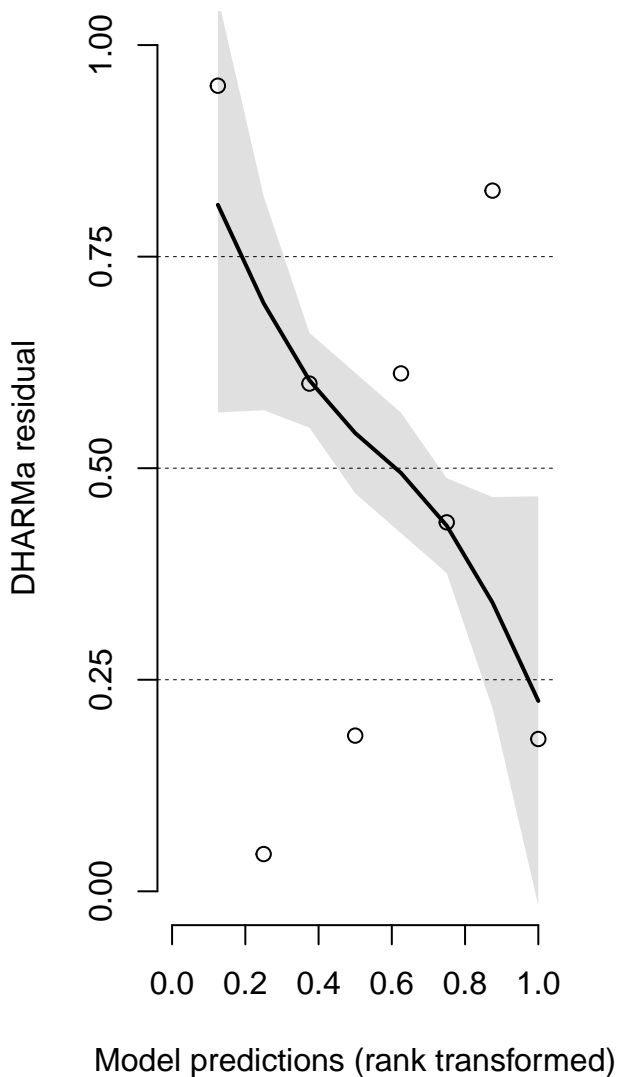
Nb remaining: 8

DHARMA residual

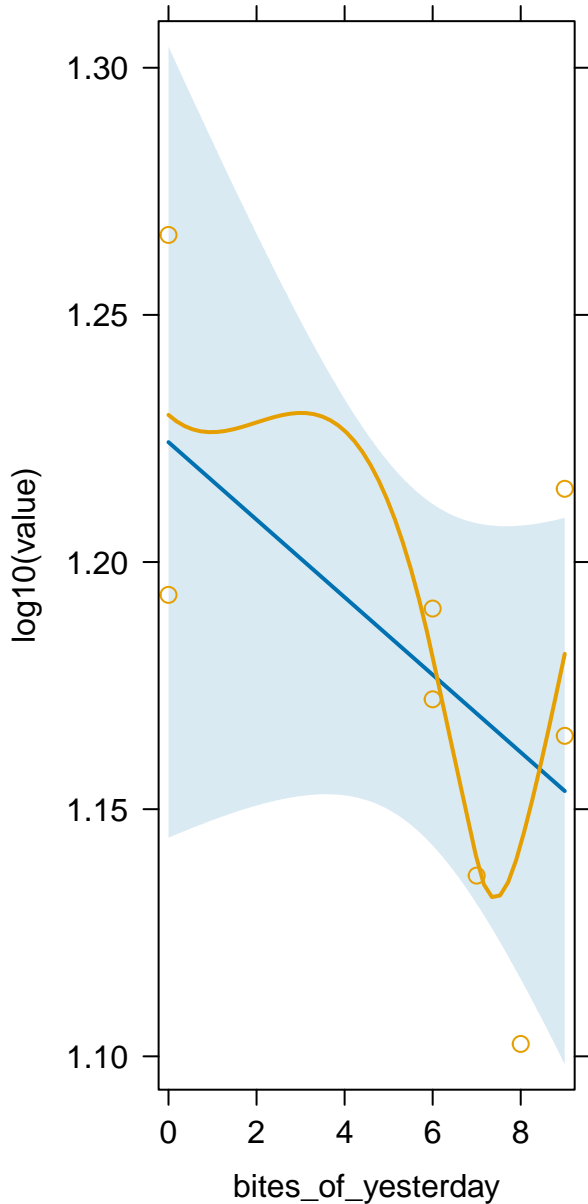
QQ plot residuals



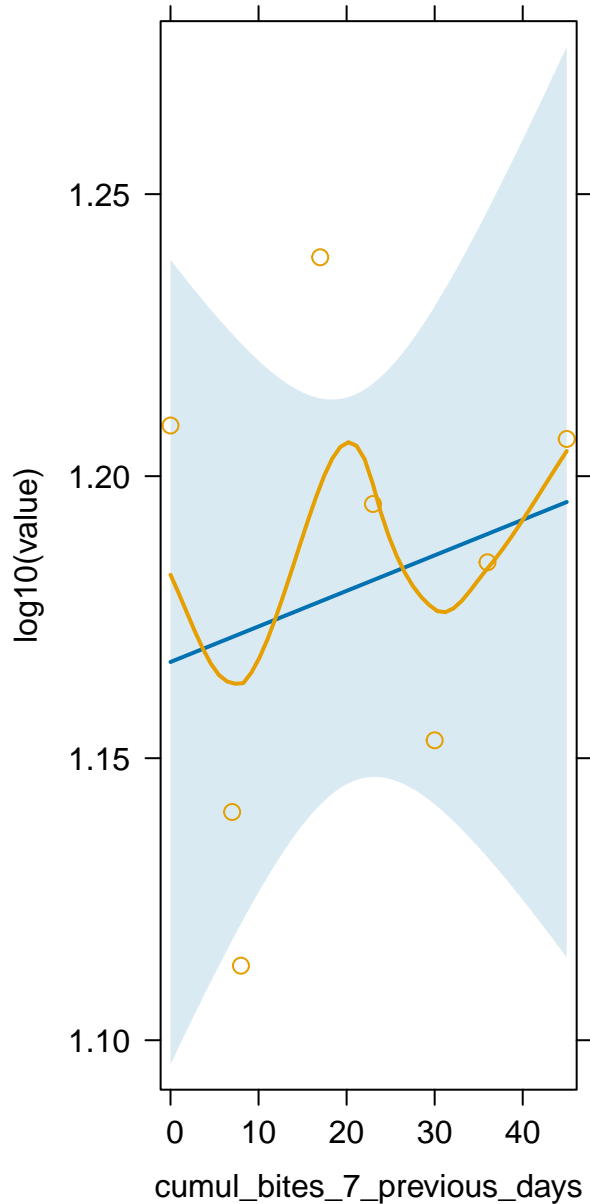
Residual vs. predicted No significant problems detected

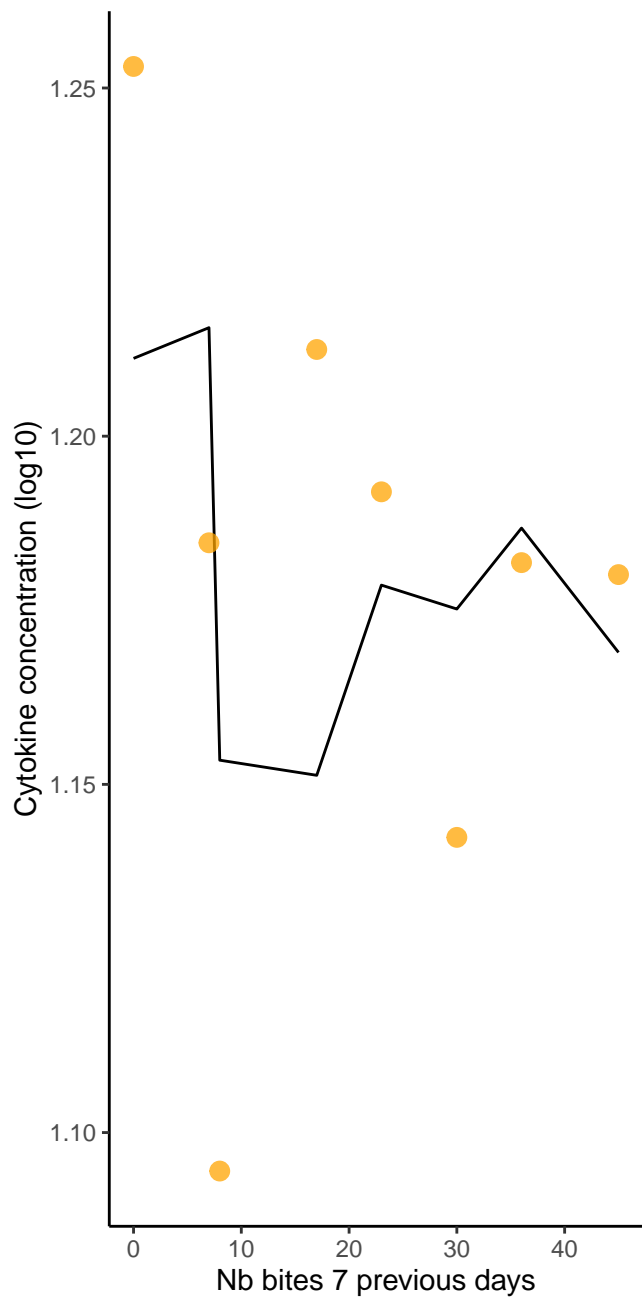
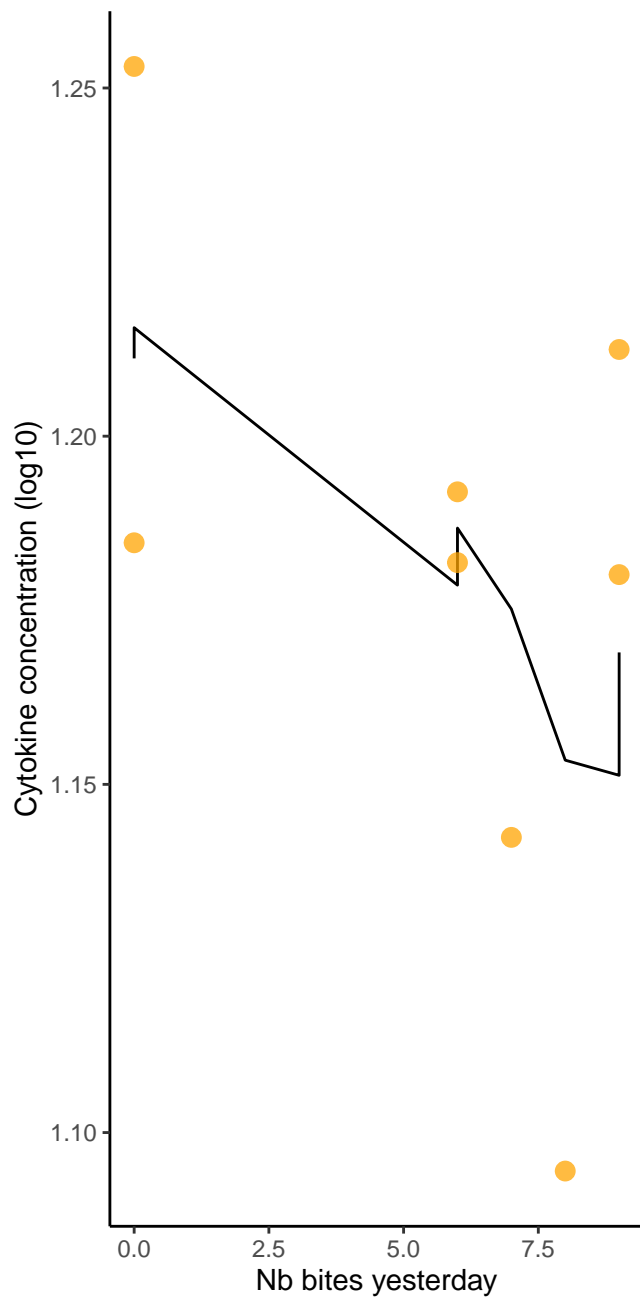


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.66	[1.30, 2.44]	1.29	0.60	[0.41, 0.77]
cumul_bites_7_previous_days	1.66	[1.30, 2.44]	1.29	0.60	[0.41, 0.77]

```

Family: gaussian ( identity )
Formula:      log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days +      (1 | ID)
Data: d_cyno

```

AIC	BIC	logLik	deviance	df.resid
-19.8	-19.4	14.9	-29.8	3

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	6.240e-13	7.899e-07
Residual		1.417e-03	3.764e-02

Number of obs: 8, groups: ID, 1

Dispersion estimate for gaussian family (sigma^2): 0.00142

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.2111722	0.0264288	45.83	<2e-16 ***
bites_of_yesterday	-0.0078426	0.0050033	-1.57	0.117
cumul_bites_7_previous_days	0.0006302	0.0011731	0.54	0.591

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 10.22998
```


Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

IL.8 ERROR : Invalid grouping factor specification, ID

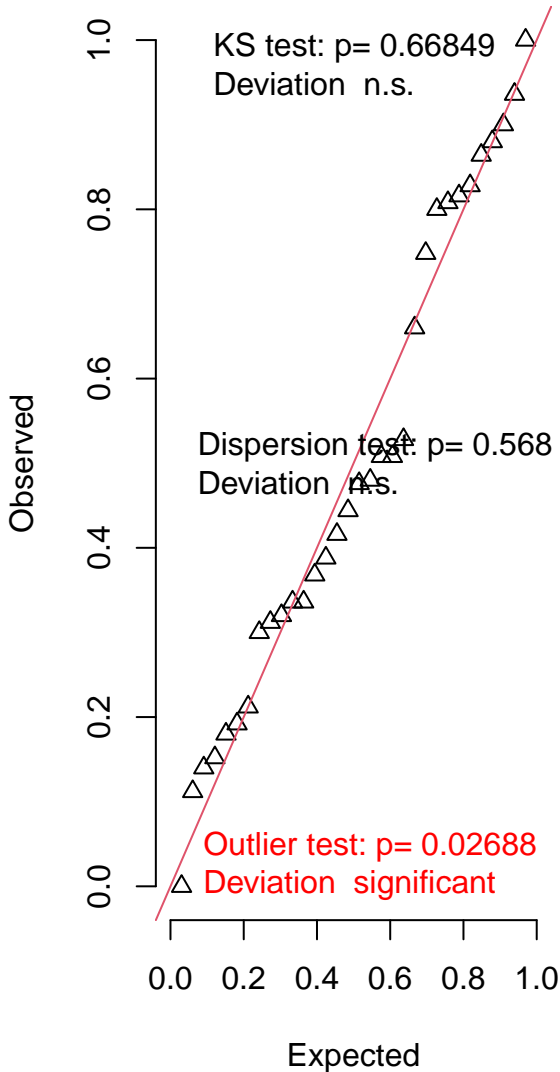
IL . RA

Bites in cyno

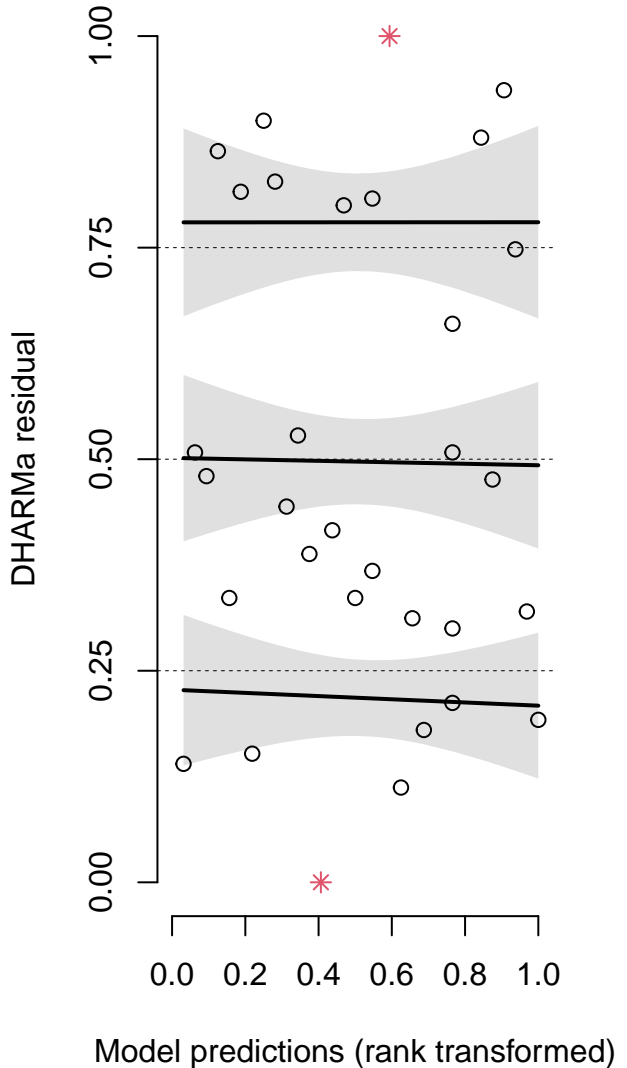
Nb excluded (LOD) : 4
Nb remaining: 32

DHARMA residual

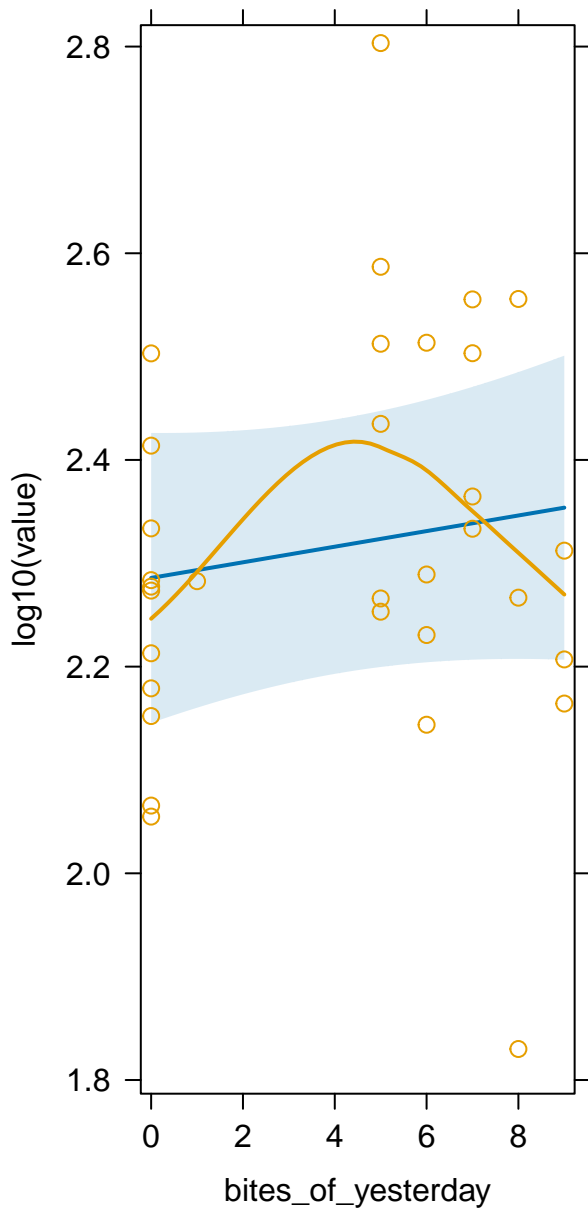
QQ plot residuals



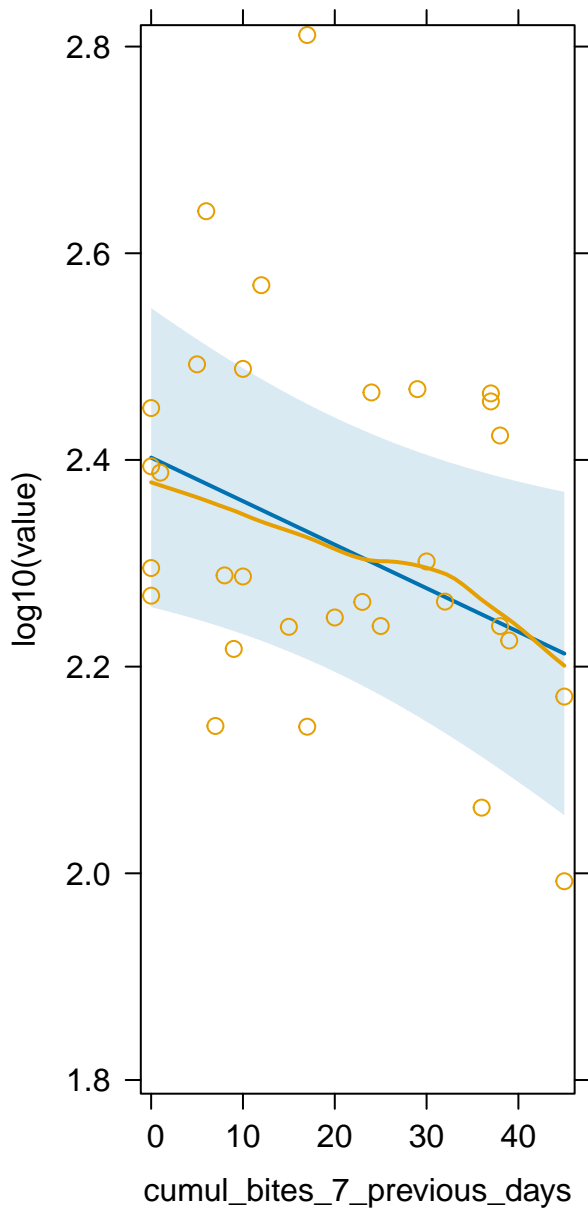
Residual vs. predicted No significant problems detected

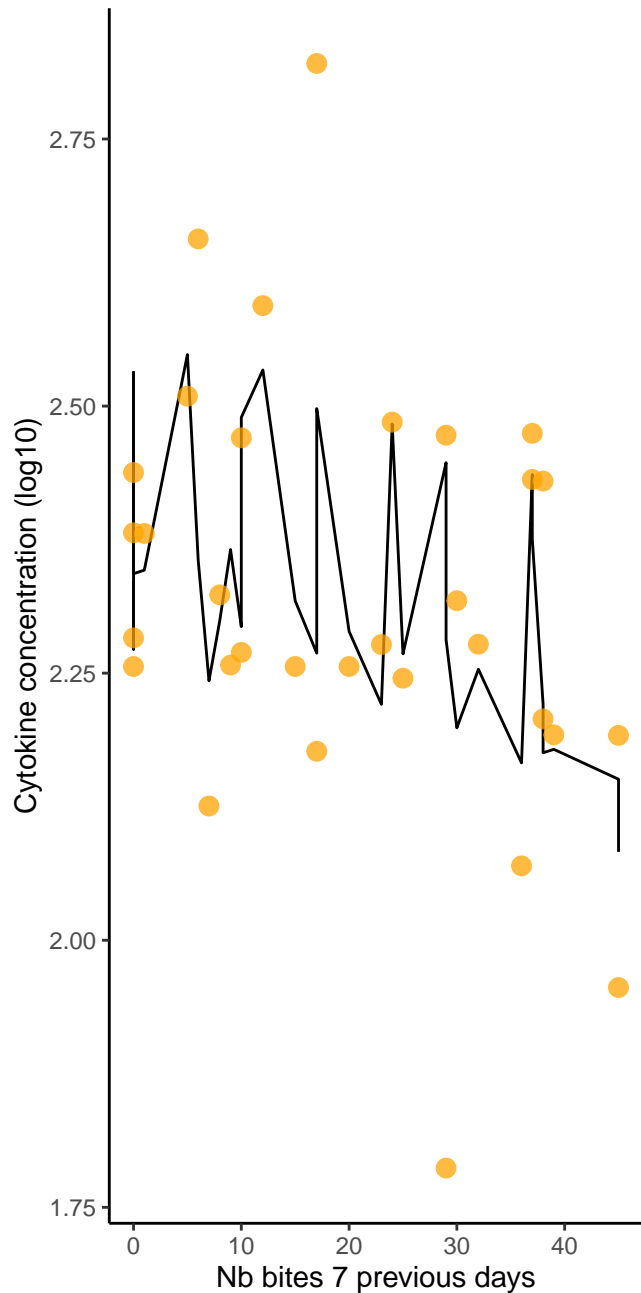
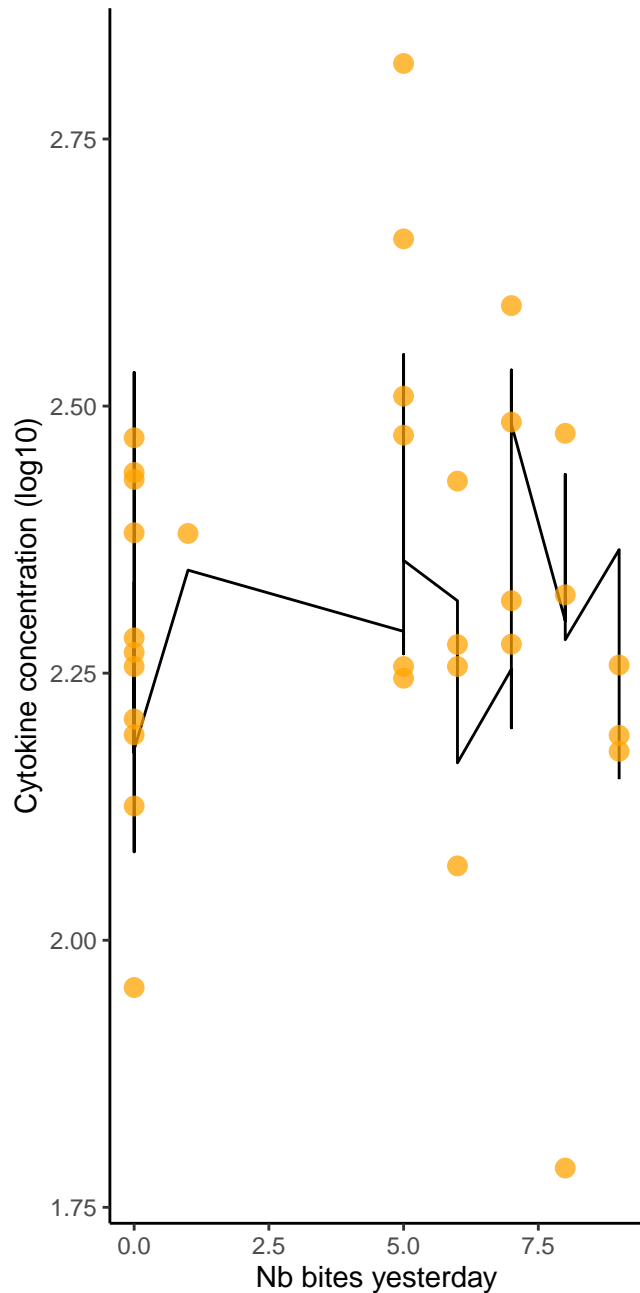


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.06	[1.00, 13.48]	1.03	0.95	[0.07, 1.00]
cumul_bites_7_previous_days	1.06	[1.00, 13.48]	1.03	0.95	[0.07, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-15.4	-8.1	12.7	-25.4	27

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.01165	0.1079
Residual		0.02153	0.1467

Number of obs: 32, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0215

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.370655	0.074126	31.98	<2e-16 ***
bites_of_yesterday	0.007552	0.008039	0.94	0.3475
cumul_bites_7_previous_days	-0.004214	0.001877	-2.25	0.0248 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -13.08771

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IL.RA ERROR : Invalid grouping factor specification, ID

IP.10

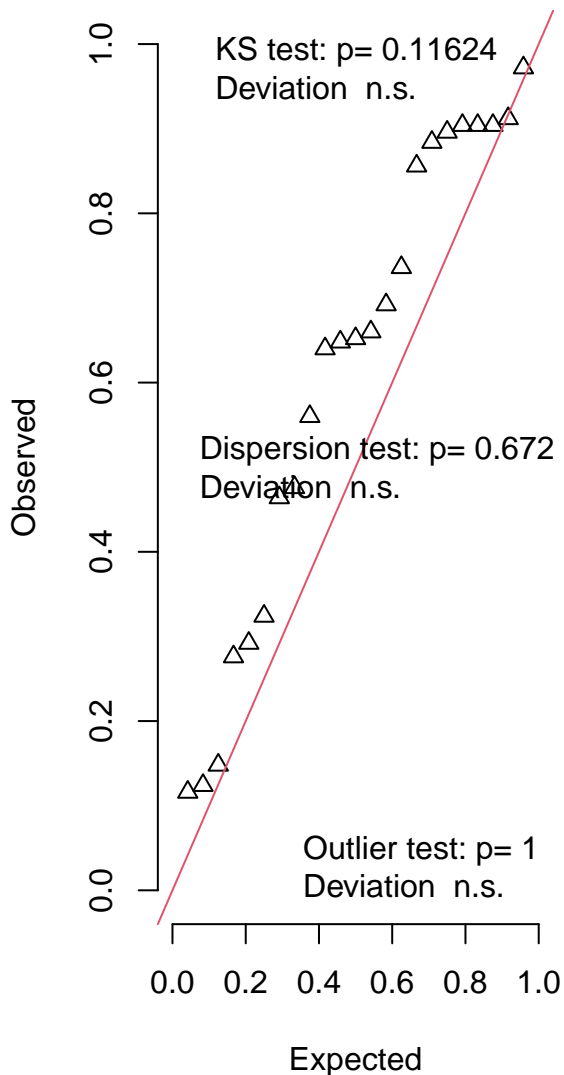
Bites in cyno

Nb excluded (LOD) : 13

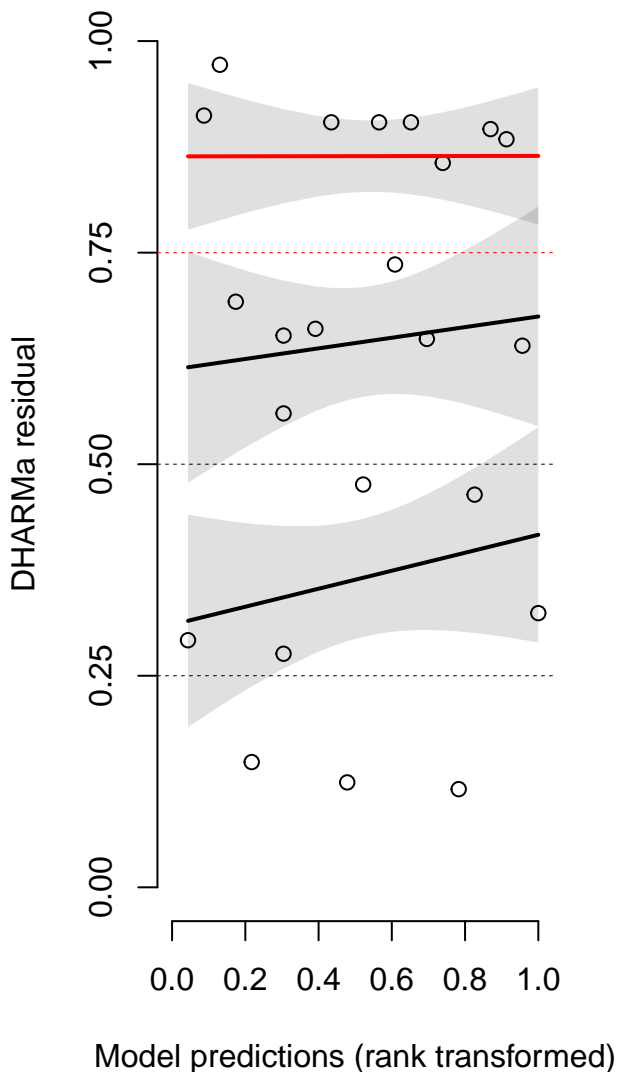
Nb remaining: 23

DHARMA residual

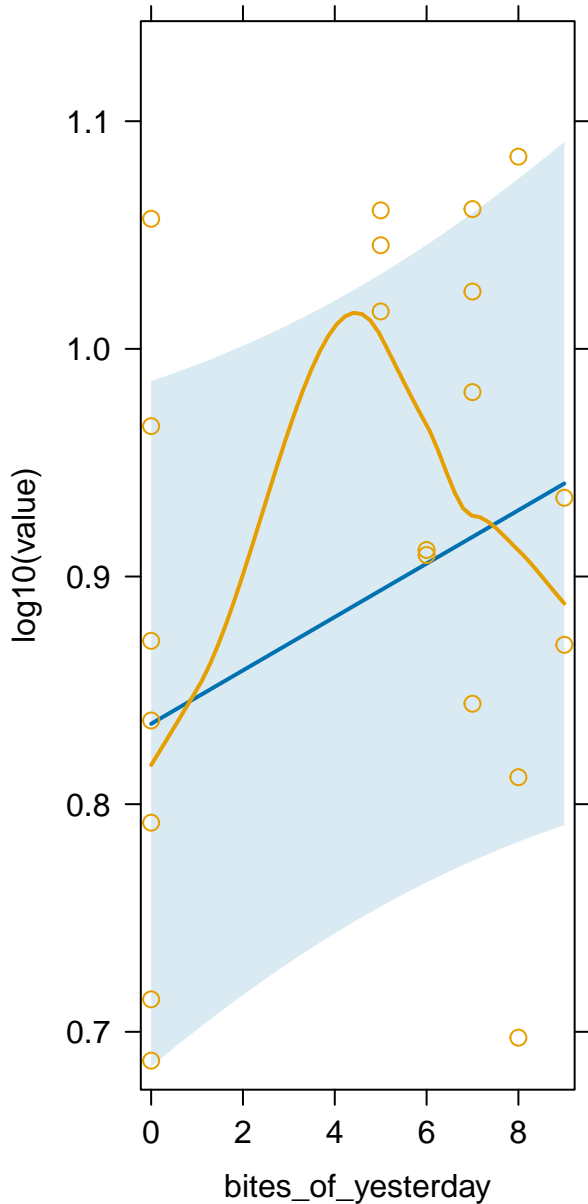
QQ plot residuals



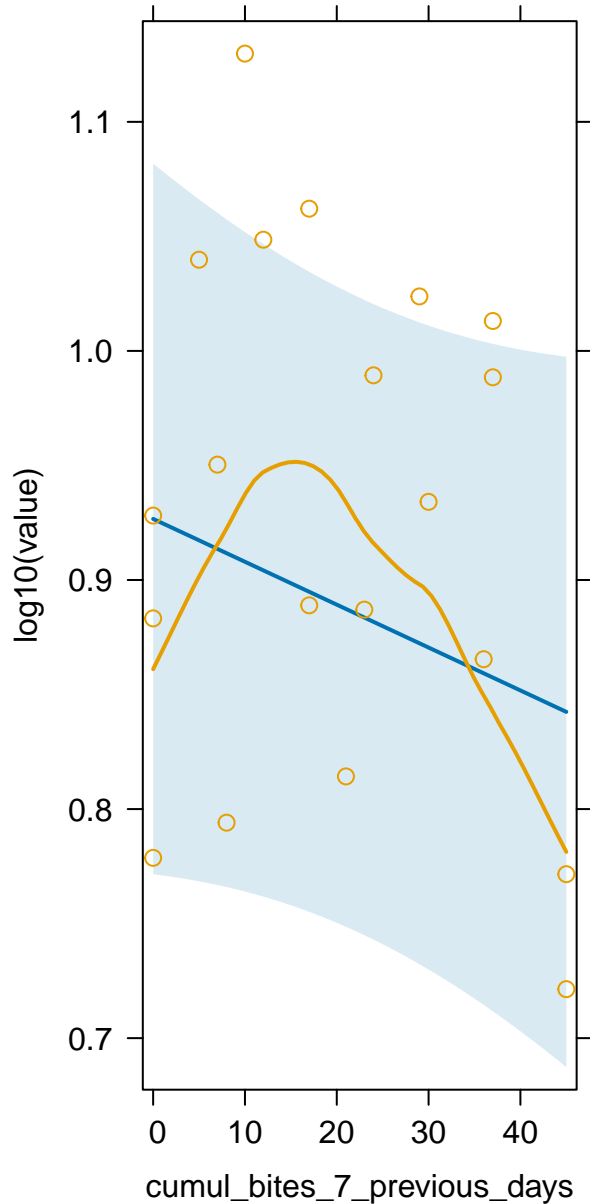
Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant

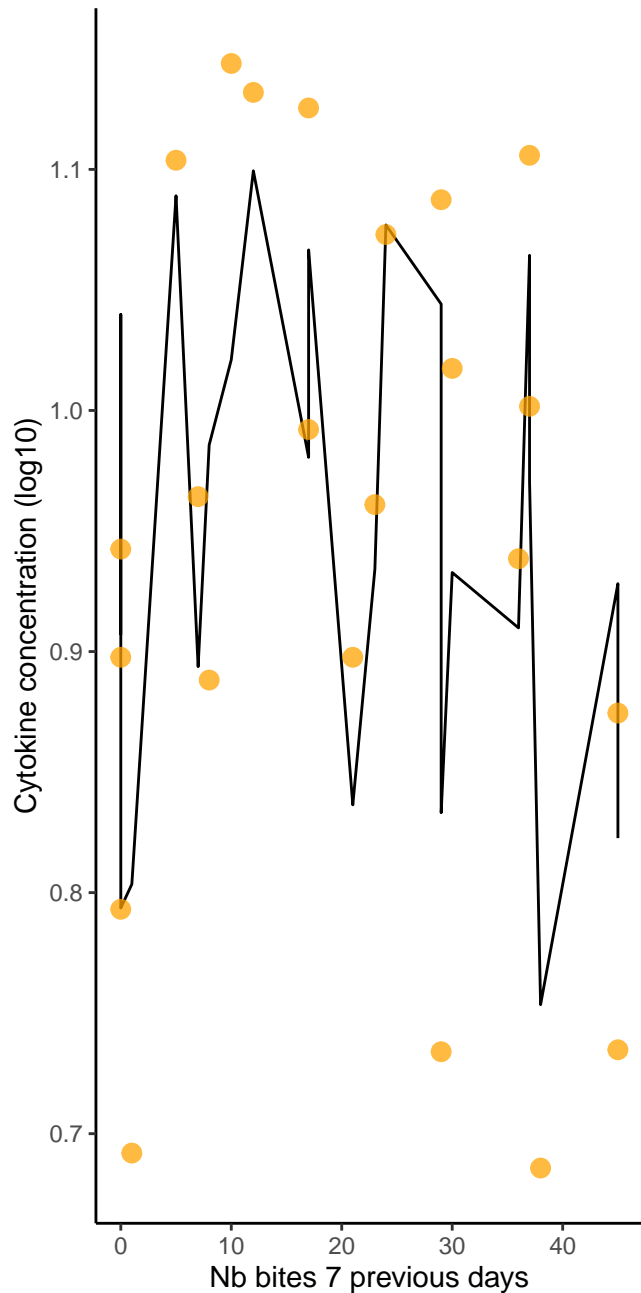
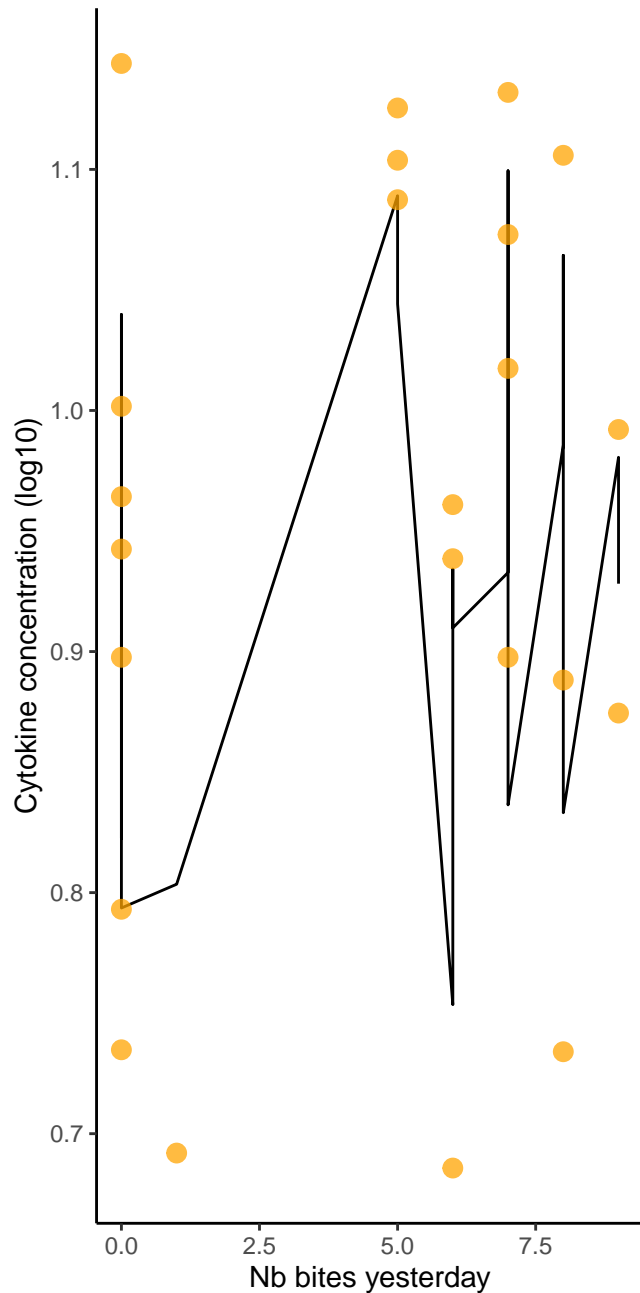


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.18	[1.02, 2.77]	1.08	0.85	[0.36, 0.98]
cumul_bites_7_previous_days	1.18	[1.02, 2.77]	1.08	0.85	[0.36, 0.98]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-26.3	-20.6	18.2	-36.3	18

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.014538	0.12057
Residual		0.008258	0.09087

Number of obs: 23, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.00826

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	0.873646	0.075231	11.613	<2e-16 ***
bites_of_yesterday	0.011727	0.006146	1.908	0.0564 .
cumul_bites_7_previous_days	-0.001872	0.001481	-1.264	0.2061

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -22.77227

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

IP.10 ERROR : Invalid grouping factor specification, ID

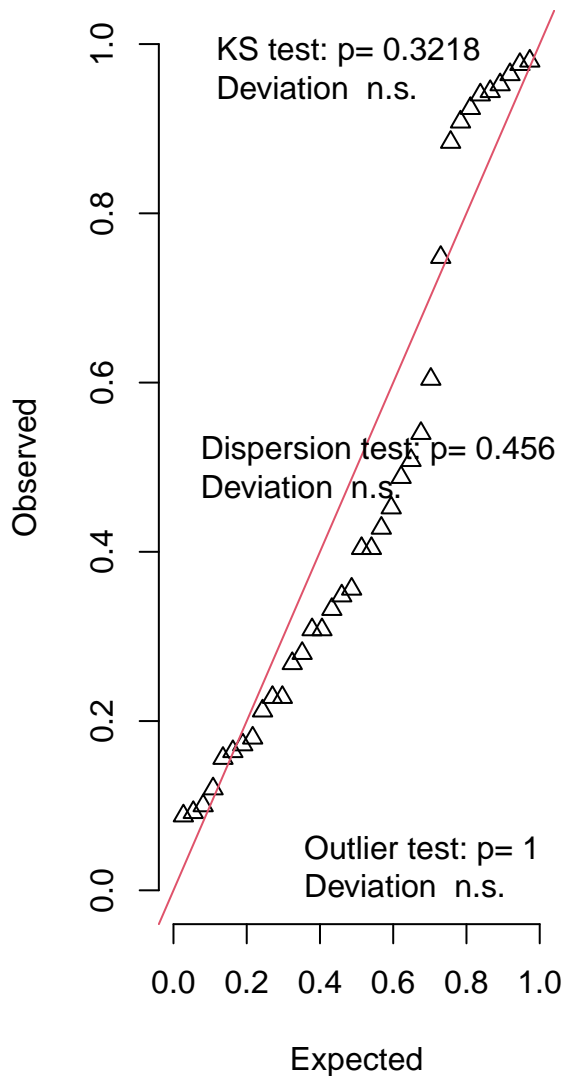
MCP . 1

Bites in cyno

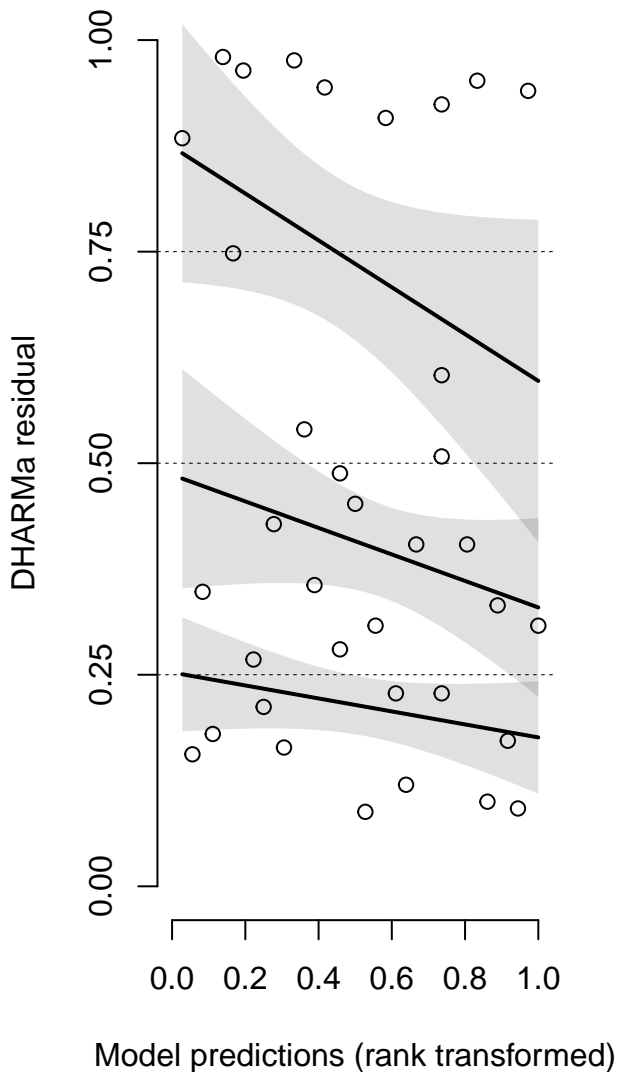
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

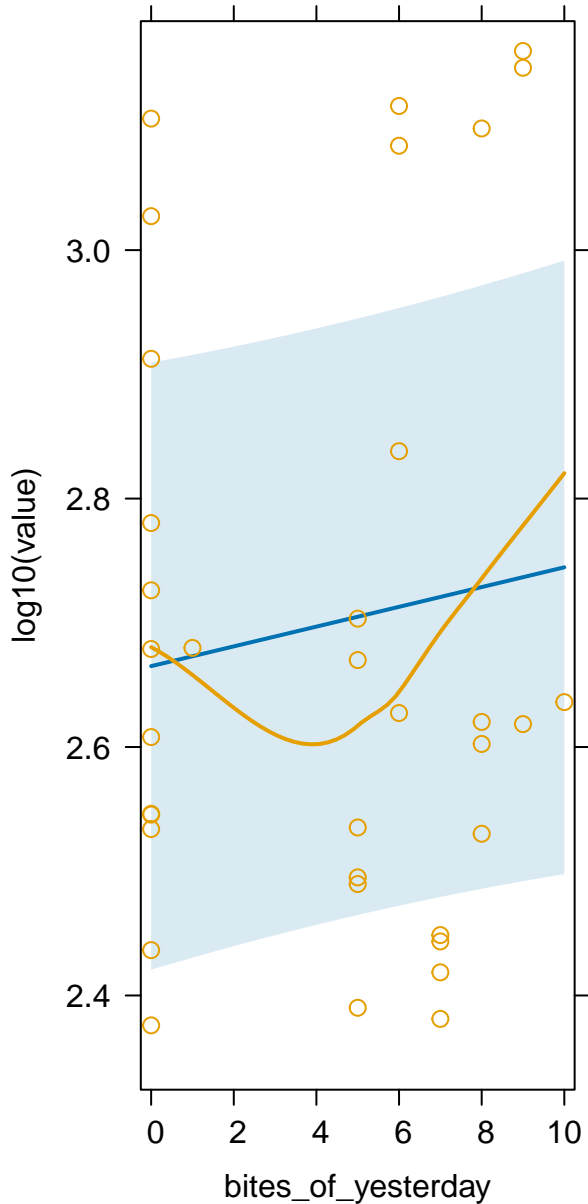
QQ plot residuals



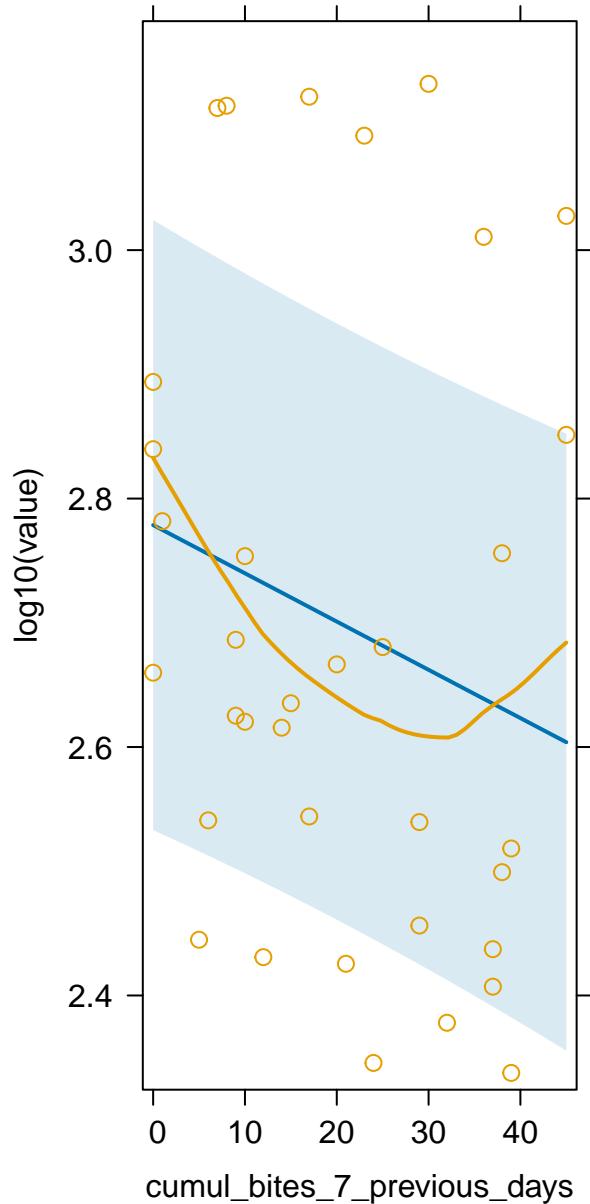
Residual vs. predicted No significant problems detected

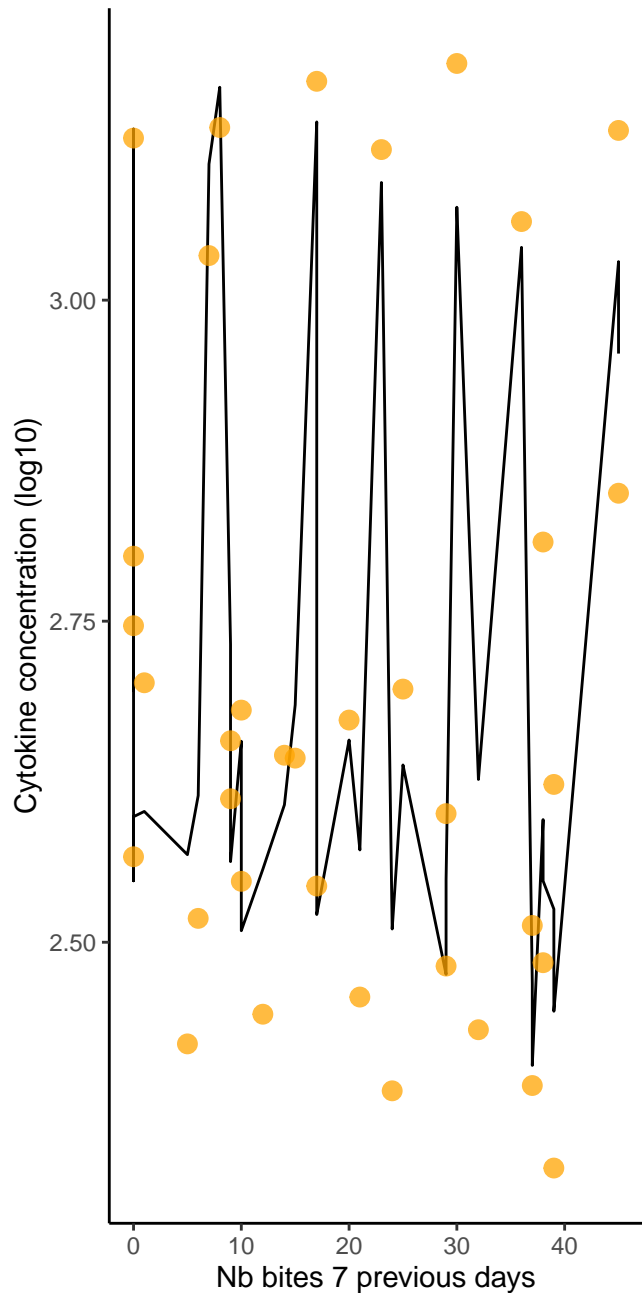
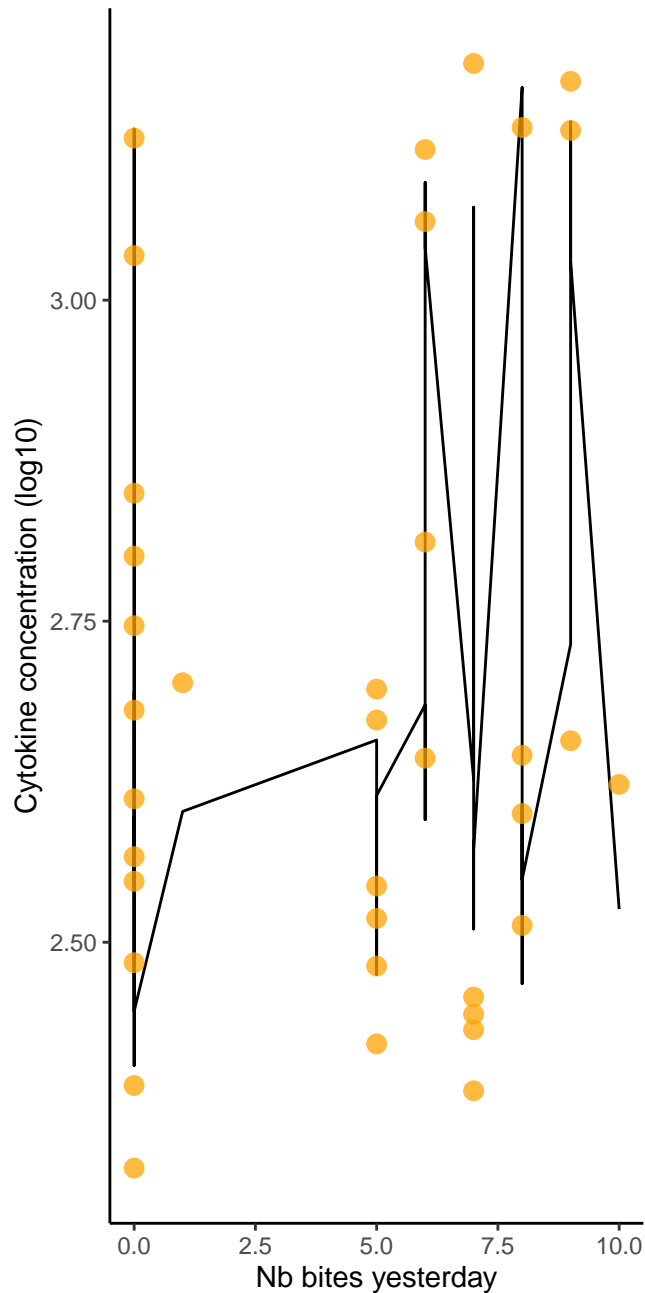


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.74]	1.05	0.91	[0.27, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.74]	1.05	0.91	[0.27, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-37.2	-29.3	23.6	-47.2	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.05454	0.2335
	Residual	0.01025	0.1012

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0102

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.743543	0.121401	22.599	< 2e-16 ***
bites_of_yesterday	0.007957	0.005097	1.561	0.11854
cumul_bites_7_previous_days	-0.003885	0.001266	-3.069	0.00215 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -35.18623

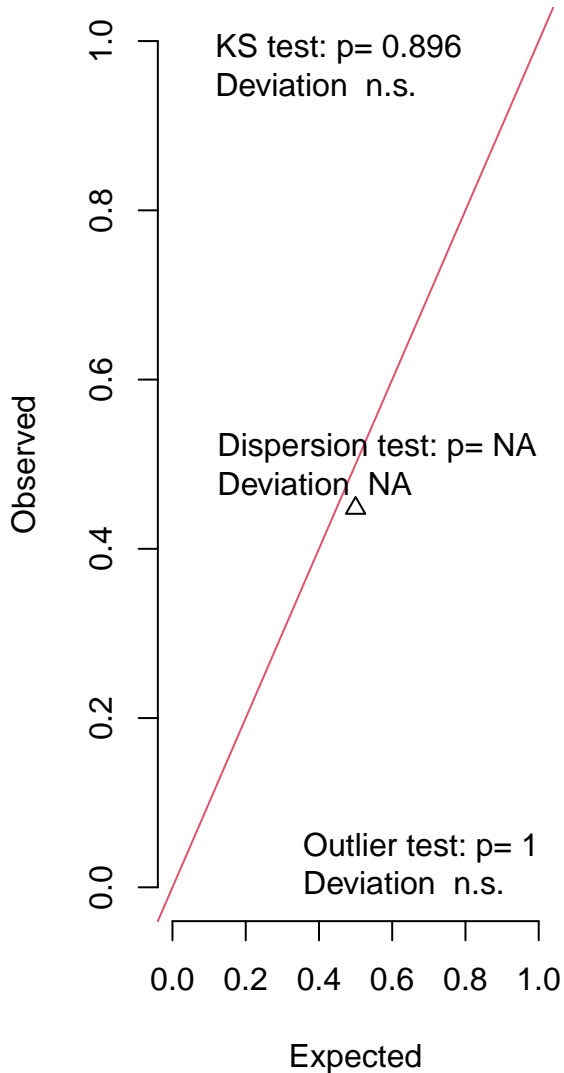
Bites in squirrel

Nb excluded (LOD) : 19

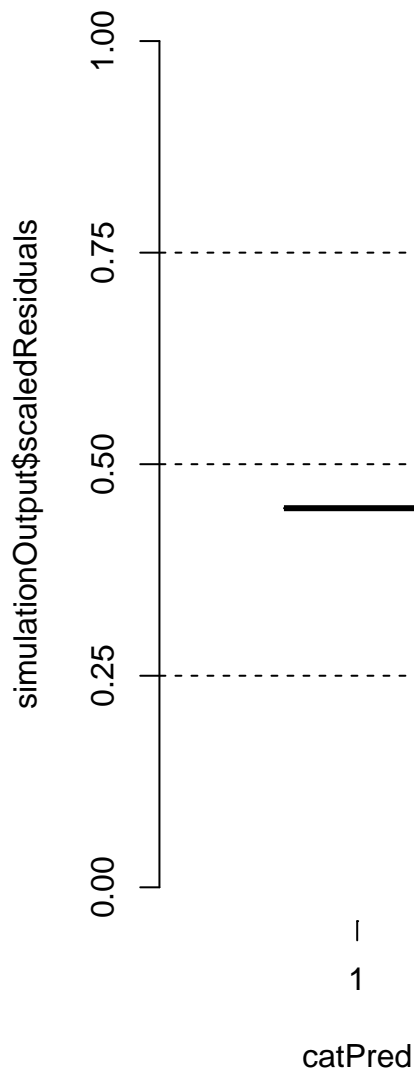
Nb remaining: 1

DHARMA residual

QQ plot residuals



Within-group deviation from uniformity n.s.



cumul_bites_2_previous_days effect plot

$\log_{10}(\text{value})$

cumul_bites_2_previous_days

MCP.1 ERROR : 'xscale' incorrect dans la vue

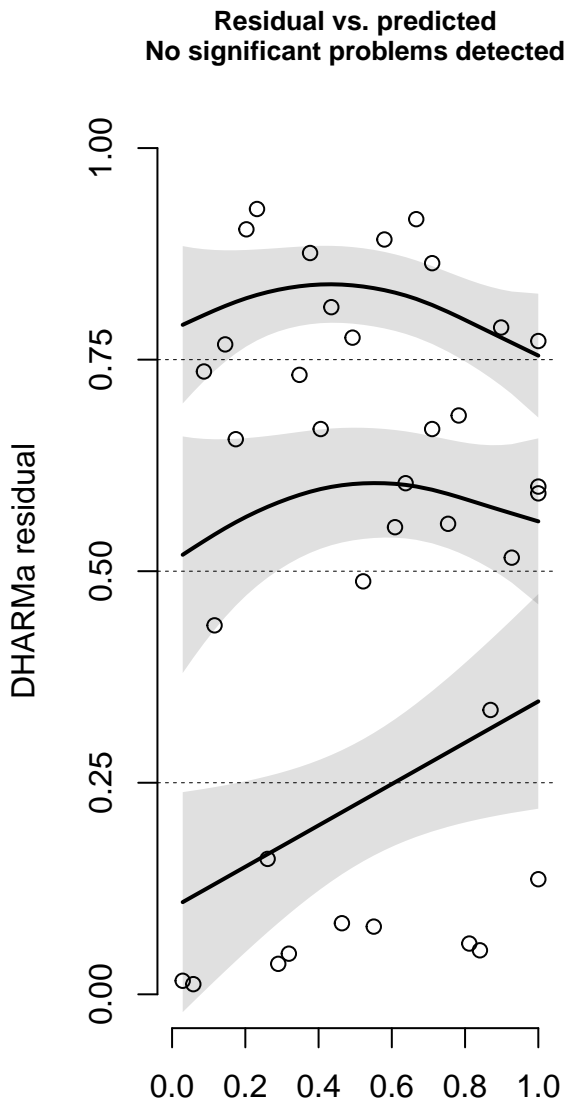
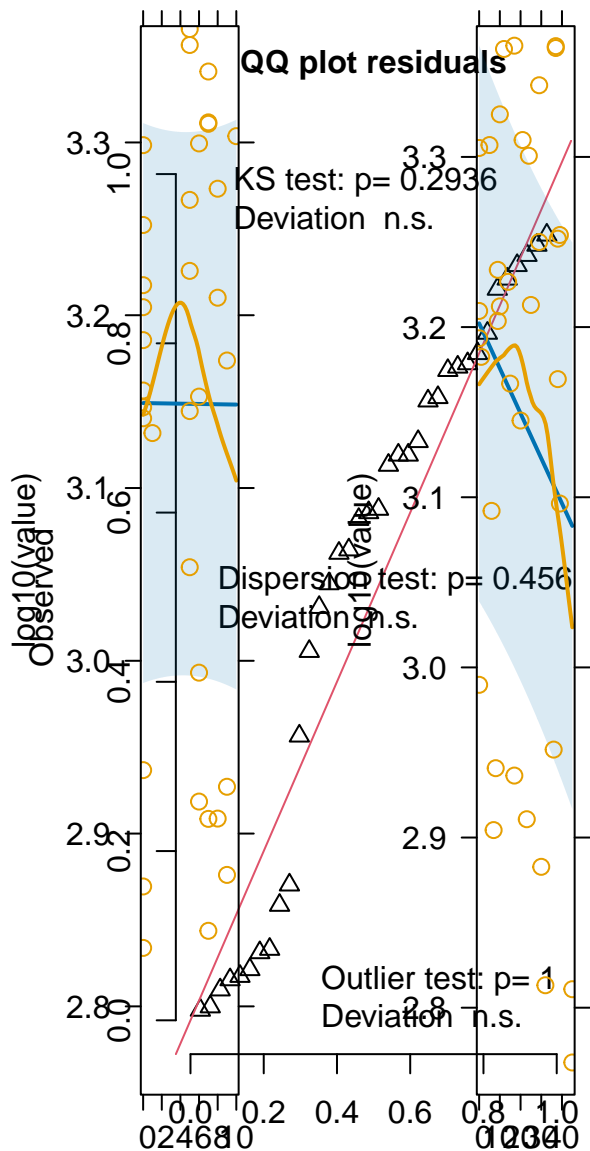
MDC

Bites in cyno

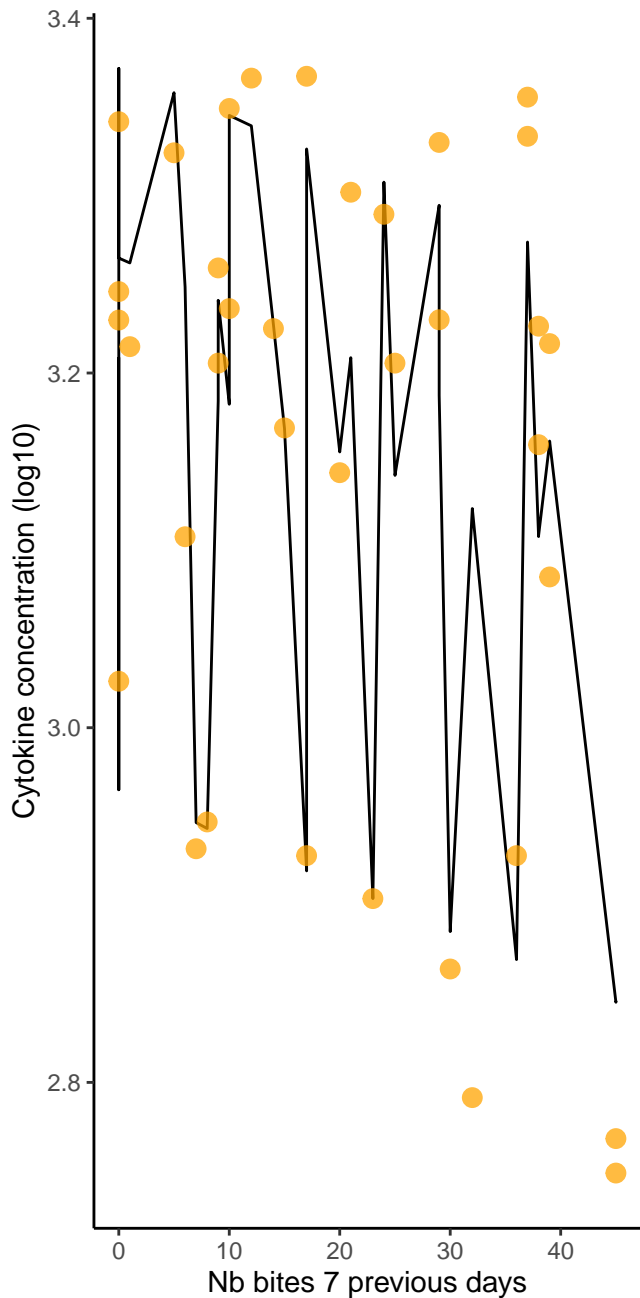
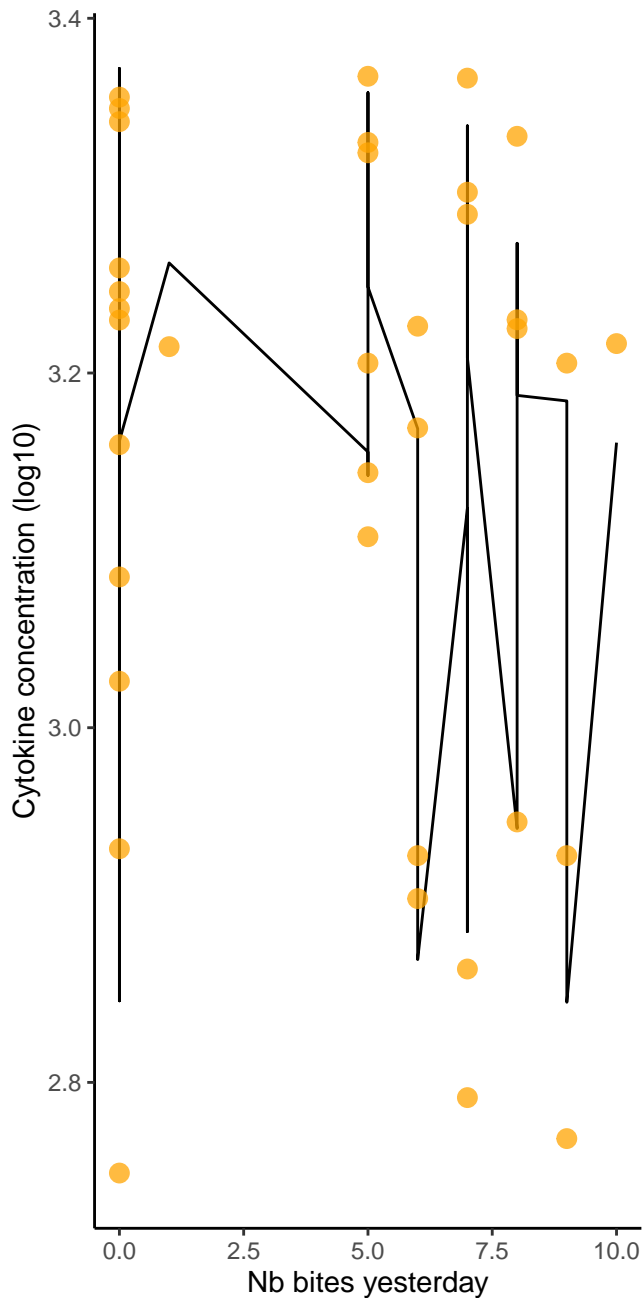
Nb excluded (LOD) : 0
Nb remaining: 36

of yesterday bites 7 previous days effect plot

DHARMA residual



bites_of_yesterday Expected bites 7 previous days Model predictions (rank transformed)



Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.75]	1.05	0.91	[0.27, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.75]	1.05	0.91	[0.27, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-50.4	-42.4	30.2	-60.4	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.023047	0.15181
	Residual	0.007548	0.08688

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.00755

Conditional model:

	Estimate	Std. Error	z	value	Pr(> z)
(Intercept)	3.203e+00	8.109e-02	39.50	<2e-16	***
bites_of_yesterday	-8.757e-05	4.375e-03	-0.02	0.9840	
cumul_bites_7_previous_days	-2.646e-03	1.086e-03	-2.44	0.0149	*

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -48.354

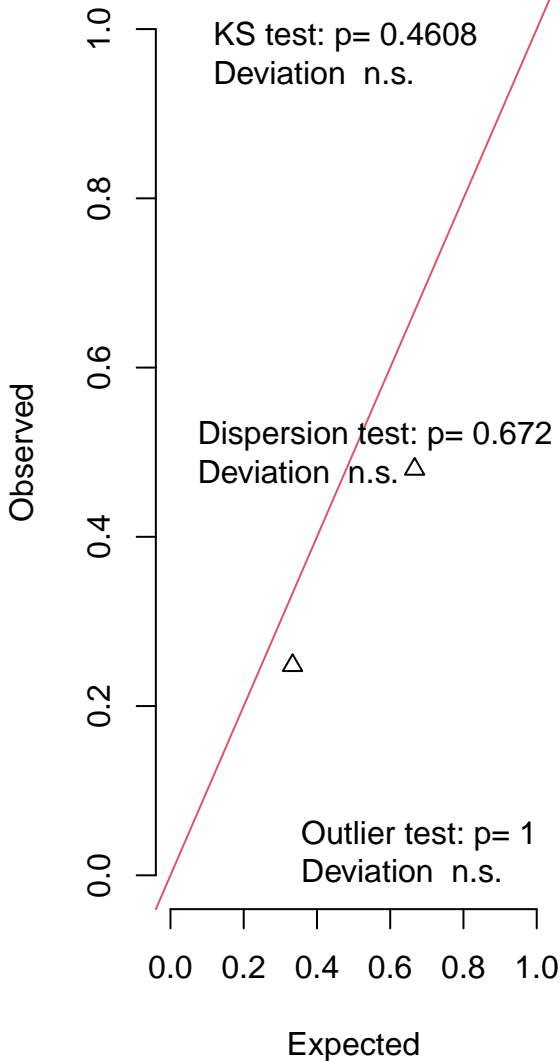
Bites in squirrel

Nb excluded (LOD) : 18

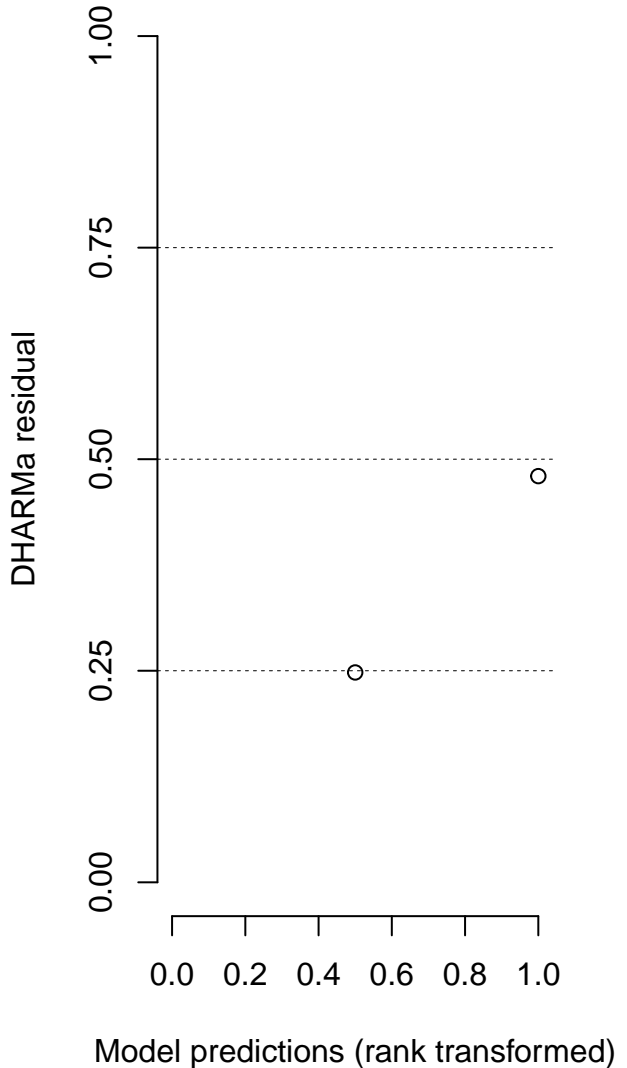
Nb remaining: 2

DHARMA residual

QQ plot residuals



Residual vs. predicted No significant problems detected



cumul_bites_2_previous_days effect plot

log10(value)

cumul_bites_2_previous_days

MDC ERROR : 'xscale' incorrect dans la vue

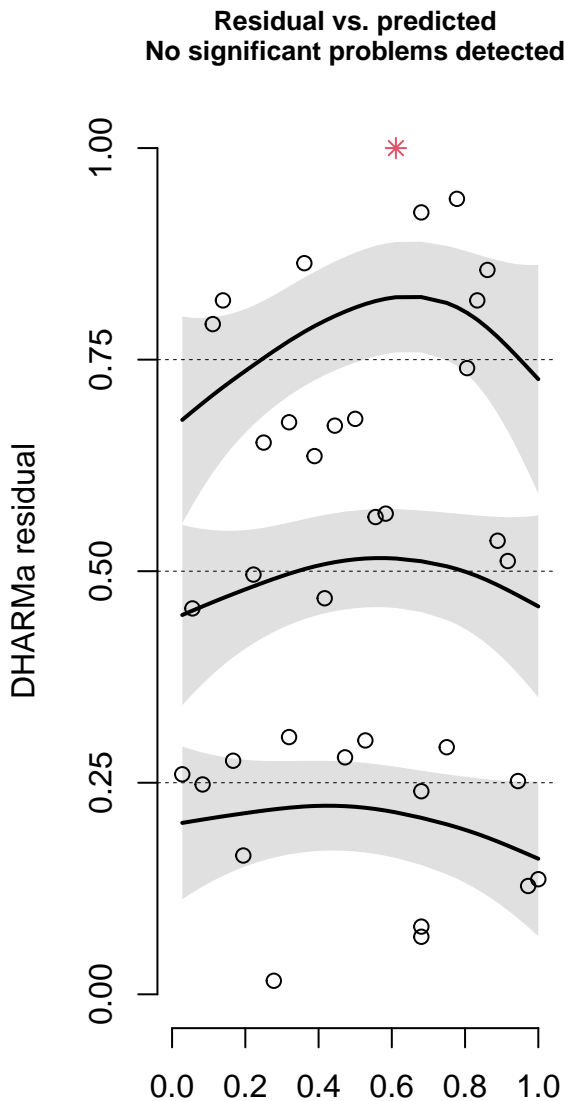
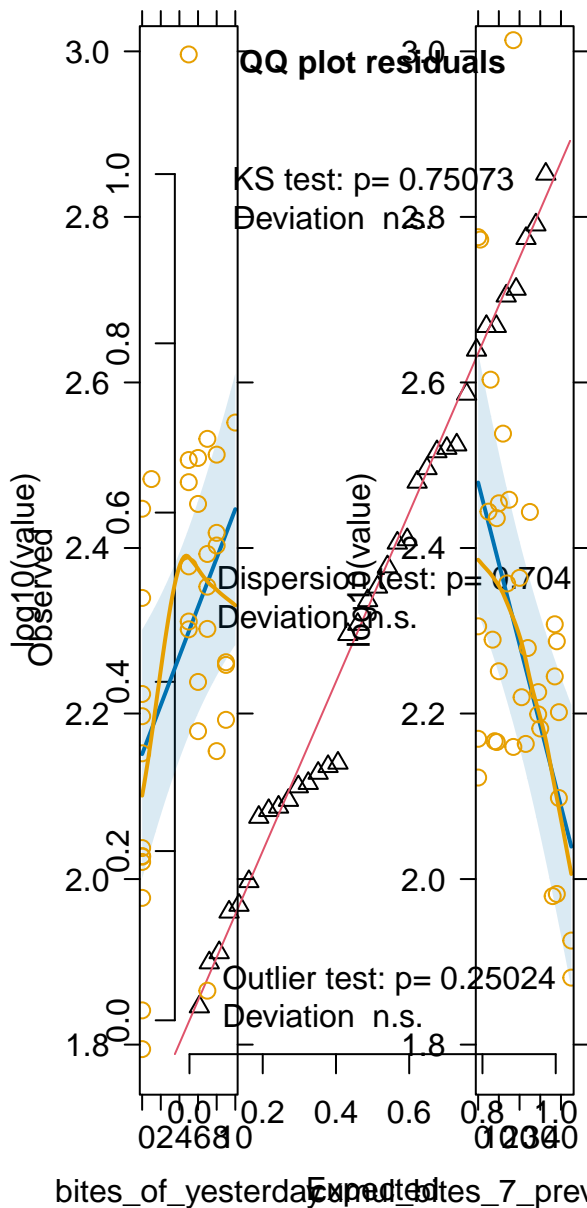
MIF

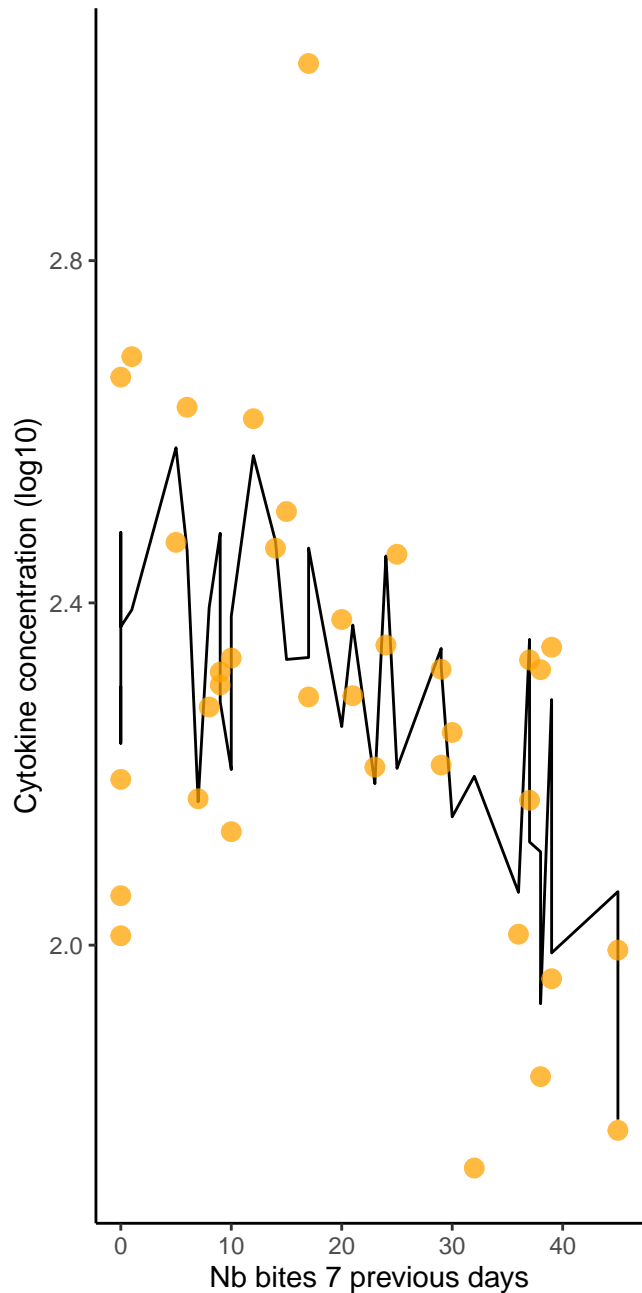
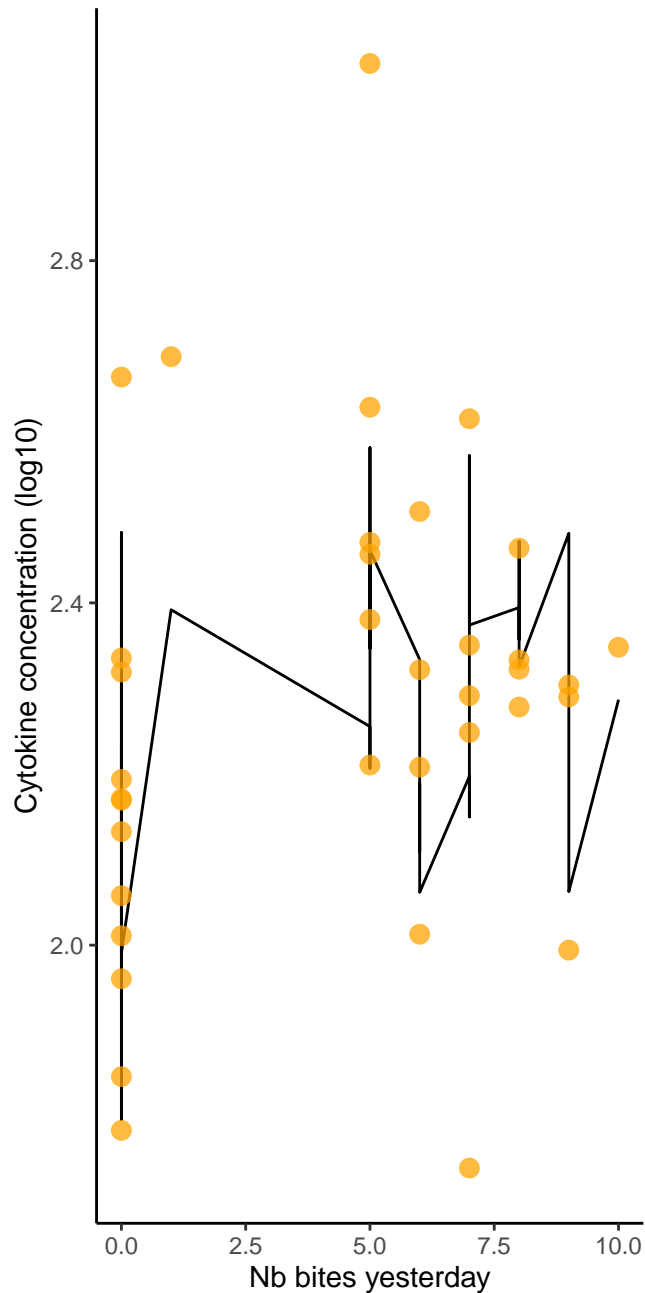
Bites in cyno

Nb excluded (LOD) : 0
Nb remaining: 36

of yesterday bites 7 previous days effect plot

DHARMA residual





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.80]	1.05	0.91	[0.26, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.80]	1.05	0.91	[0.26, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-3.4	4.5	6.7	-13.4	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.01116	0.1056
	Residual	0.03467	0.1862

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0347

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.348359	0.080809	29.060	< 2e-16 ***
bites_of_yesterday	0.029594	0.009375	3.157	0.0016 **
cumul_bites_7_previous_days	-0.009775	0.002329	-4.198	2.7e-05 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

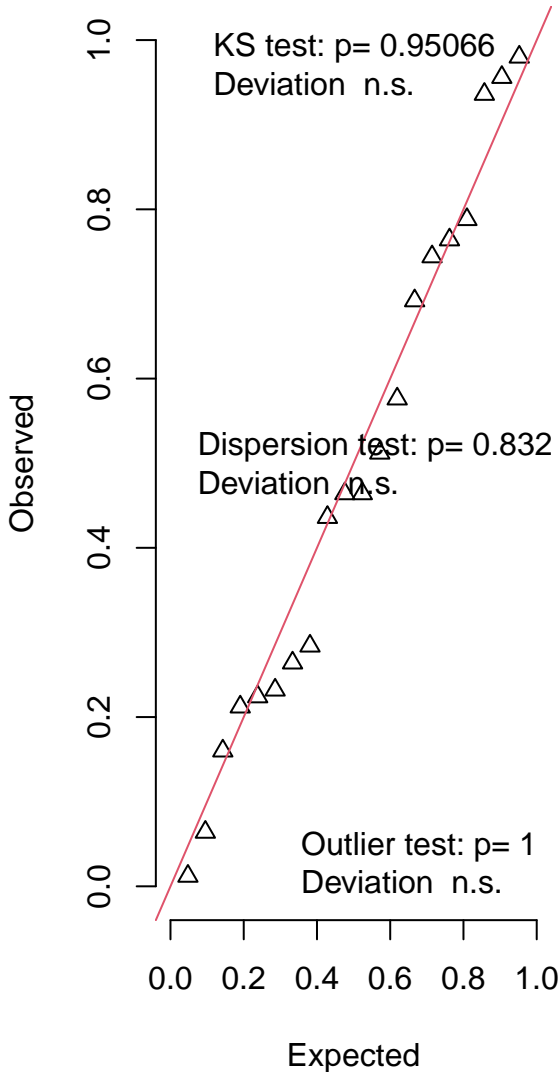
AICc [1] -1.426414

Bites in squirrel

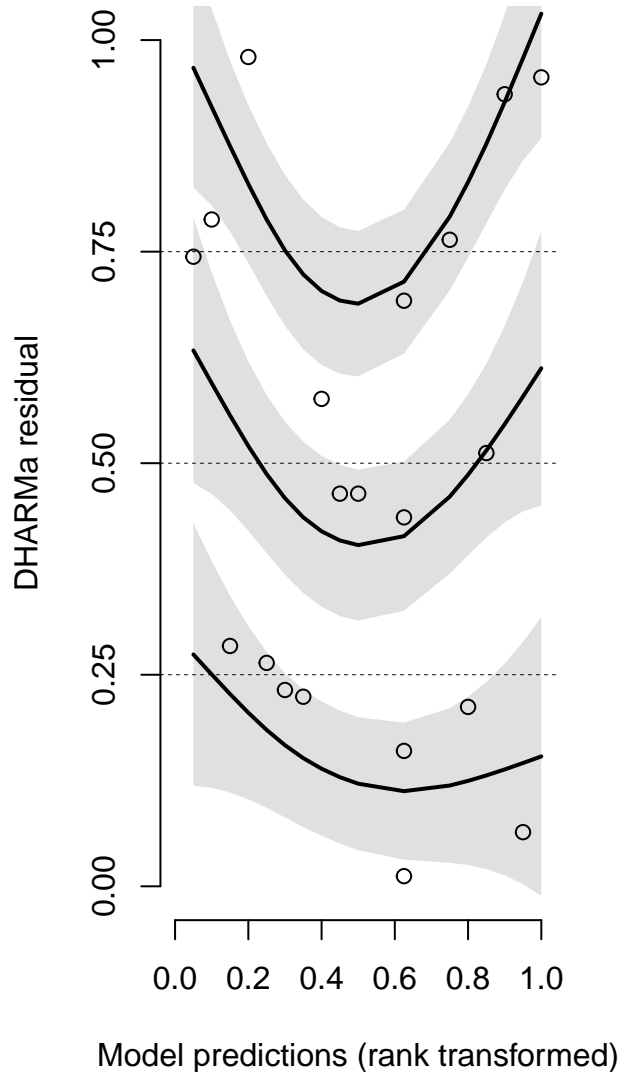
Nb excluded (LOD) : 0
Nb remaining: 20

DHARMA residual

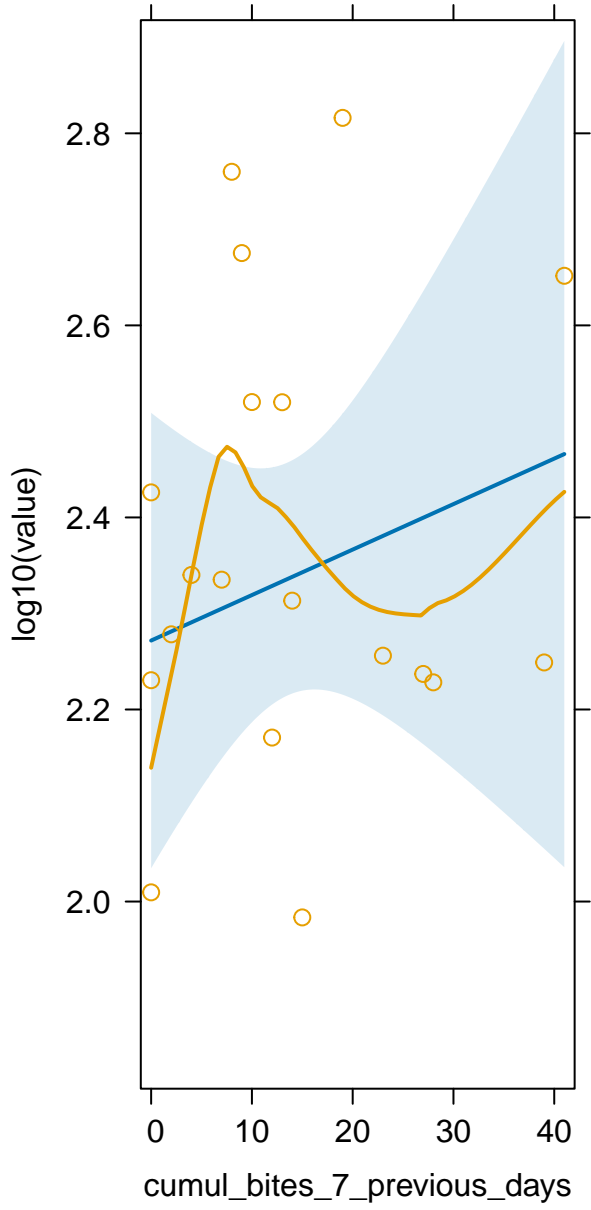
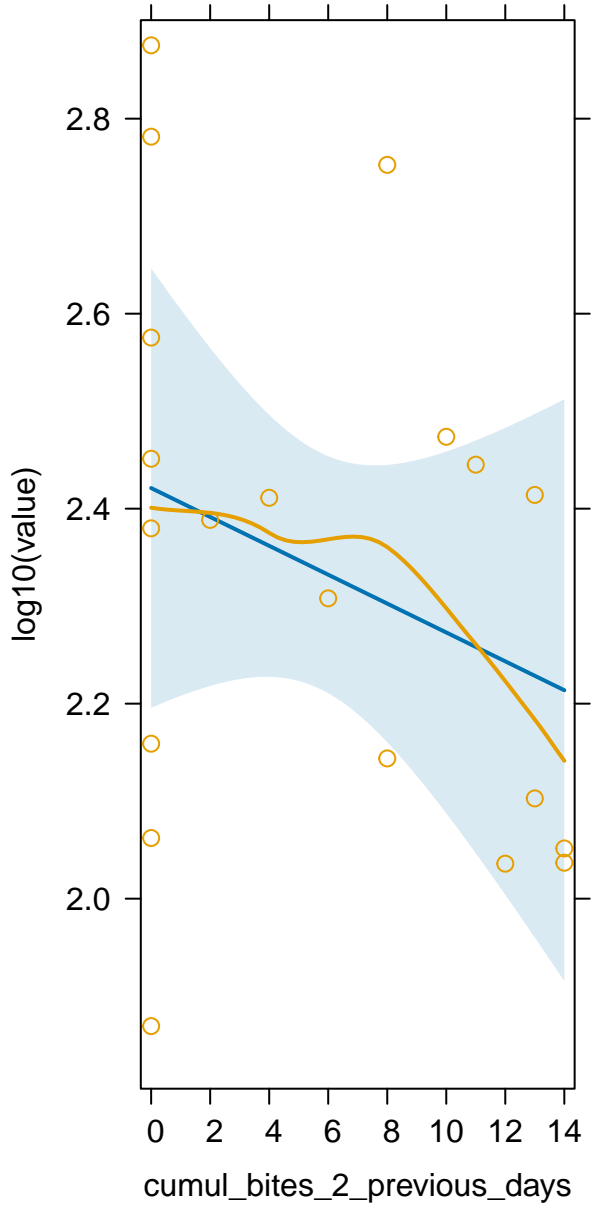
QQ plot residuals

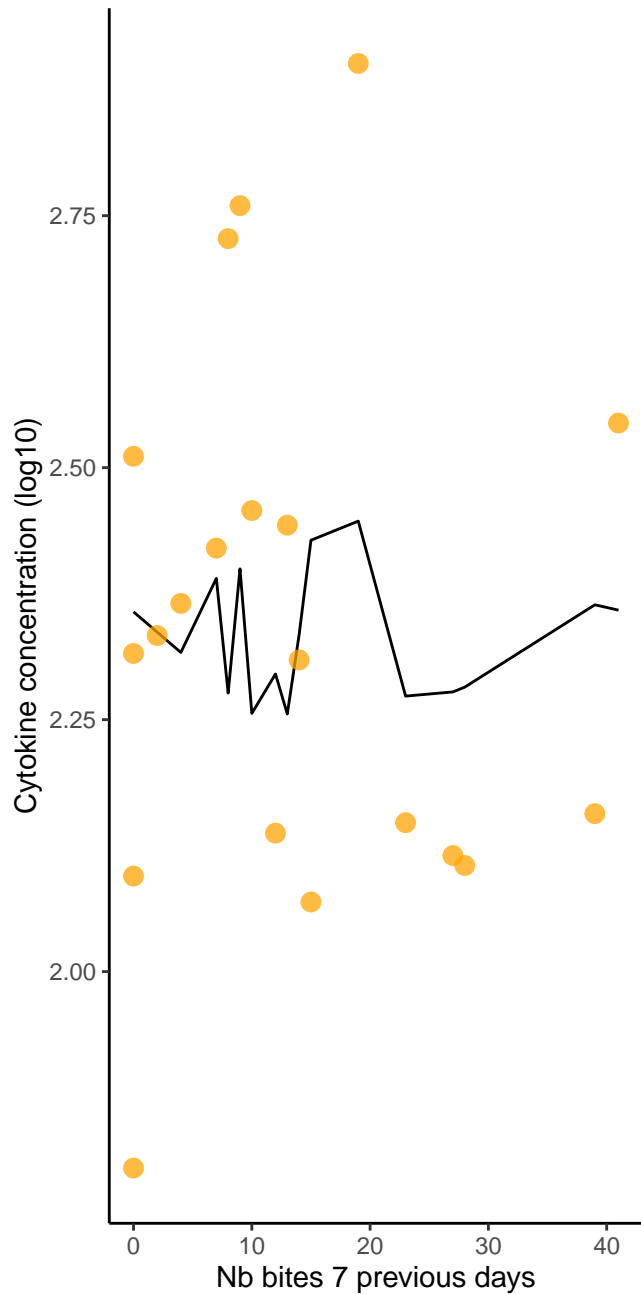
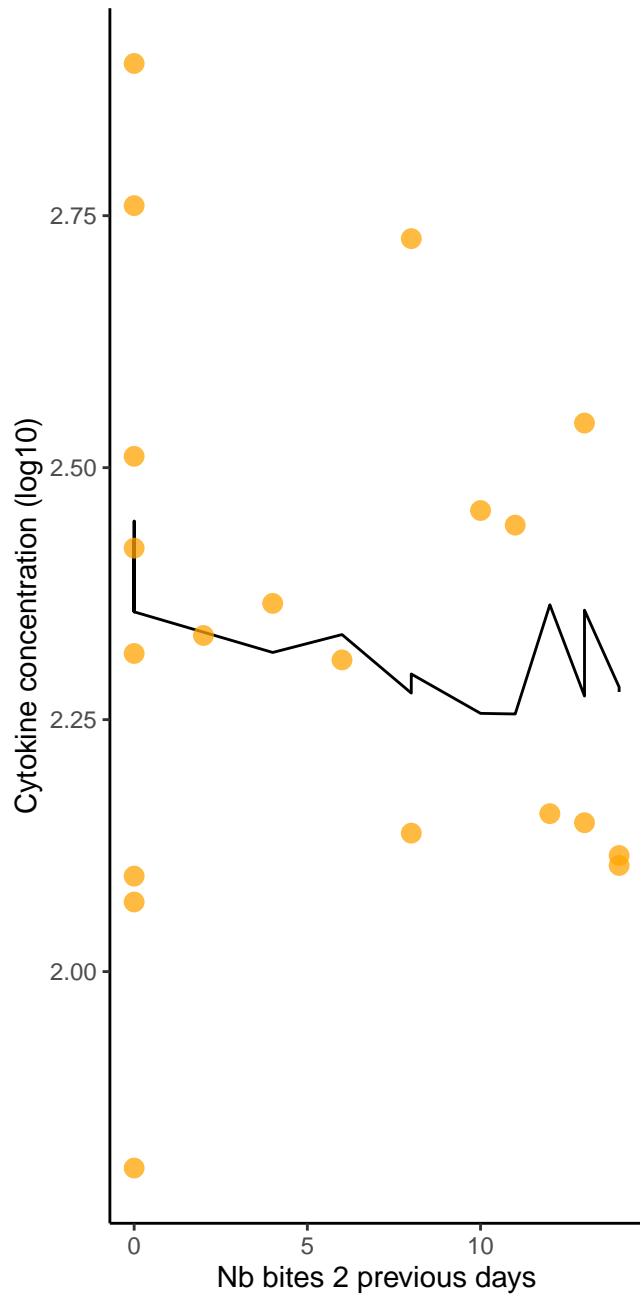


Residual vs. predicted No significant problems detected



cumul_bites_2_previous_days effect plot cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
cumul_bites_2_previous_days	2.29	[1.55, 4.03]	1.51	0.44	[0.25, 0.64]
cumul_bites_7_previous_days	2.29	[1.55, 4.03]	1.51	0.44	[0.25, 0.64]

```

Family: gaussian ( identity )
Formula:      log10(value) ~ cumul_bites_2_previous_days + cumul_bites_7_previous_days +
      (1 | ID)
Data: d_sq

```

AIC	BIC	logLik	deviance	df.resid
12.4	17.4	-1.2	2.4	15

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	1.410e-12	1.187e-06
	Residual	6.612e-02	2.571e-01

Number of obs: 20, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0661

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.356955	0.087666	26.886	<2e-16 ***
cumul_bites_2_previous_days	-0.014812	0.015660	-0.946	0.344
cumul_bites_7_previous_days	0.004737	0.007129	0.664	0.506

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 16.71649
```

MIG

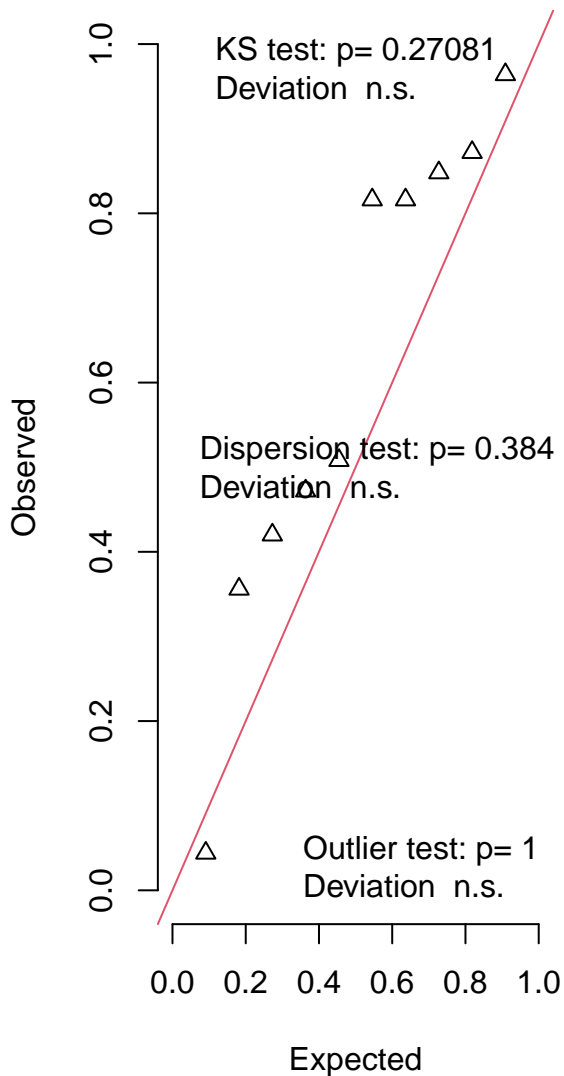
Bites in cyno

Nb excluded (LOD) : 26

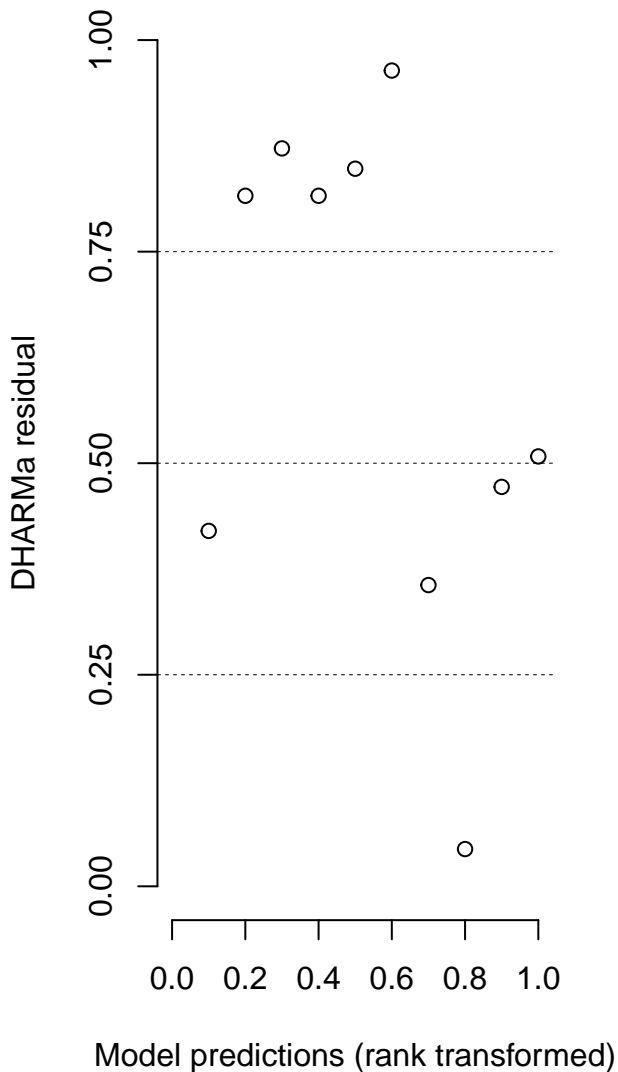
Nb remaining: 10

DHARMA residual

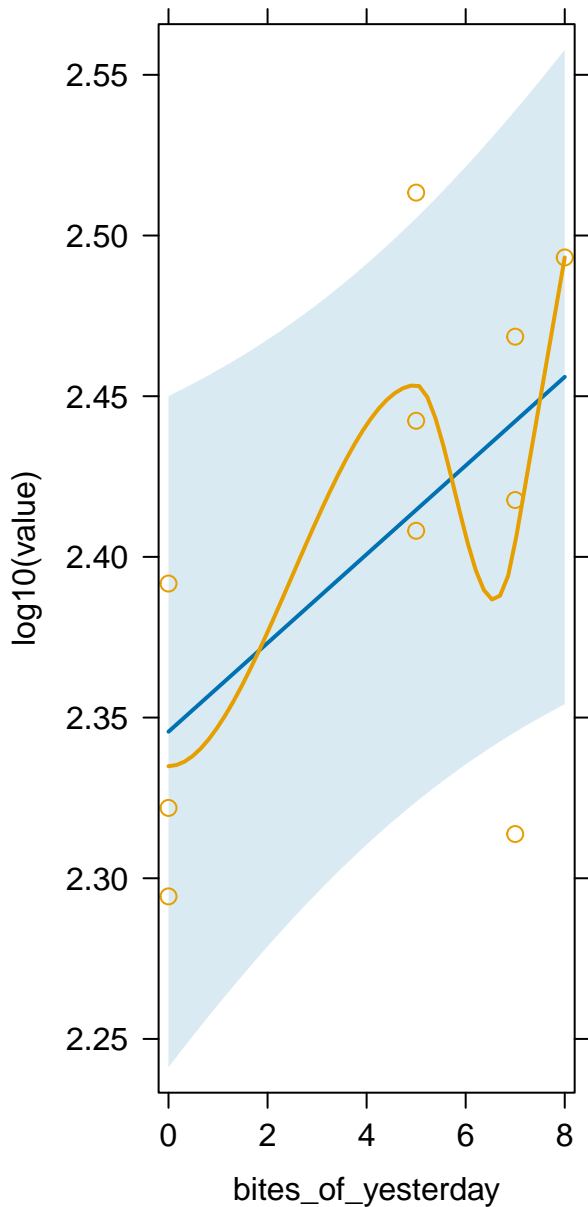
QQ plot residuals



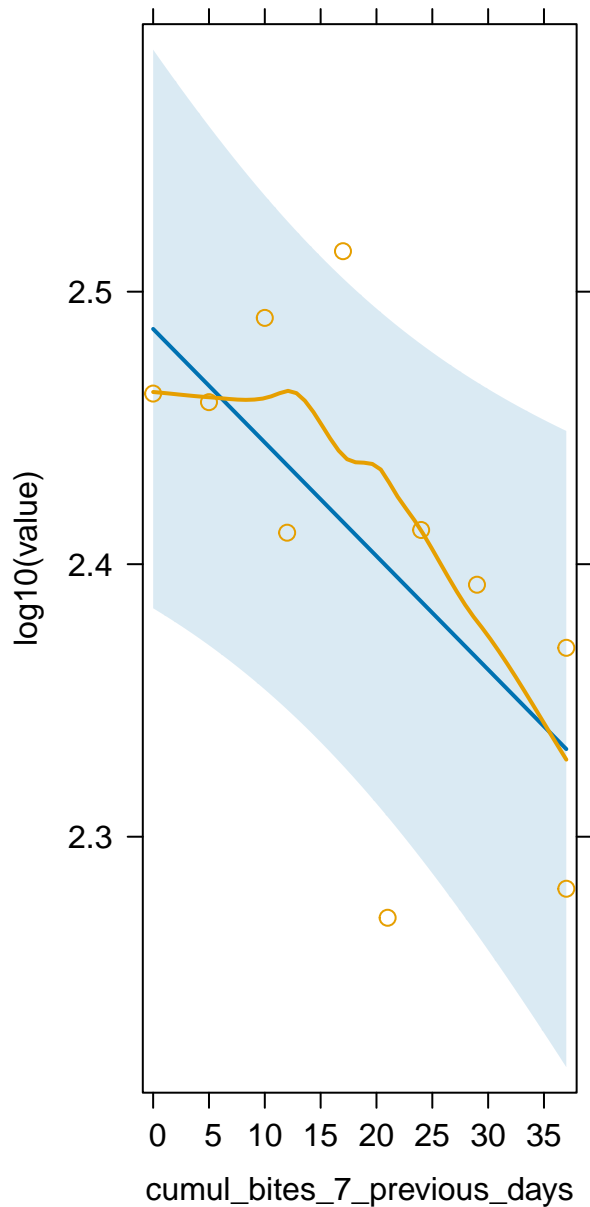
Residual vs. predicted No significant problems detected

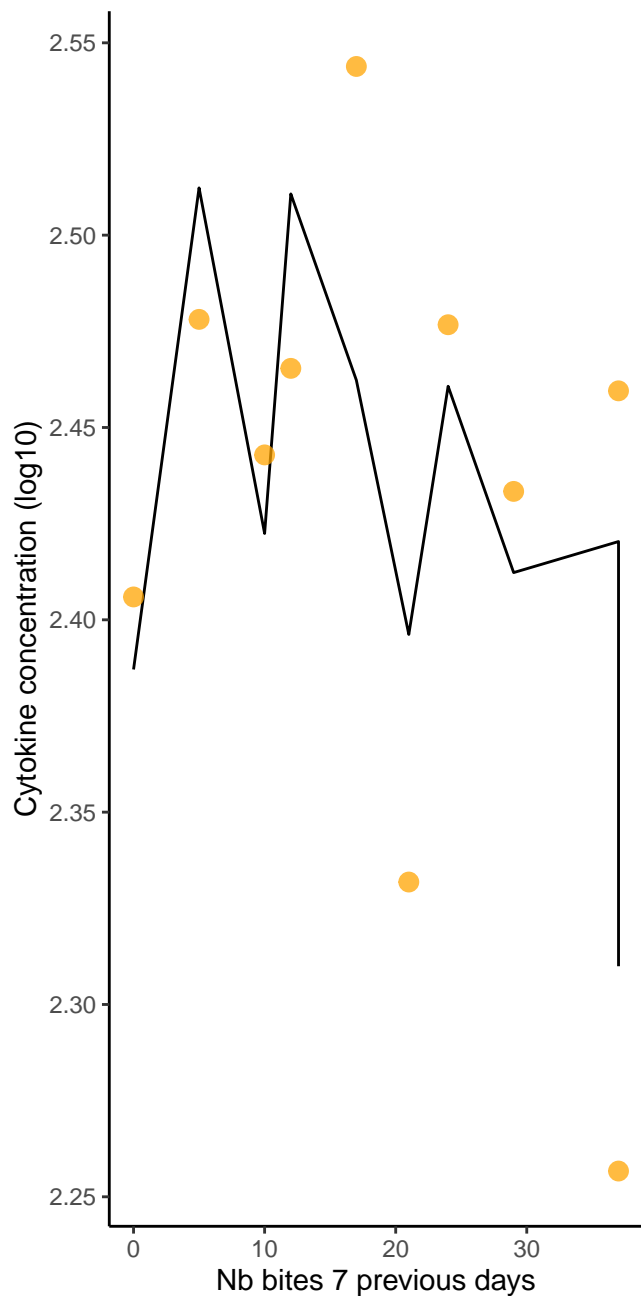
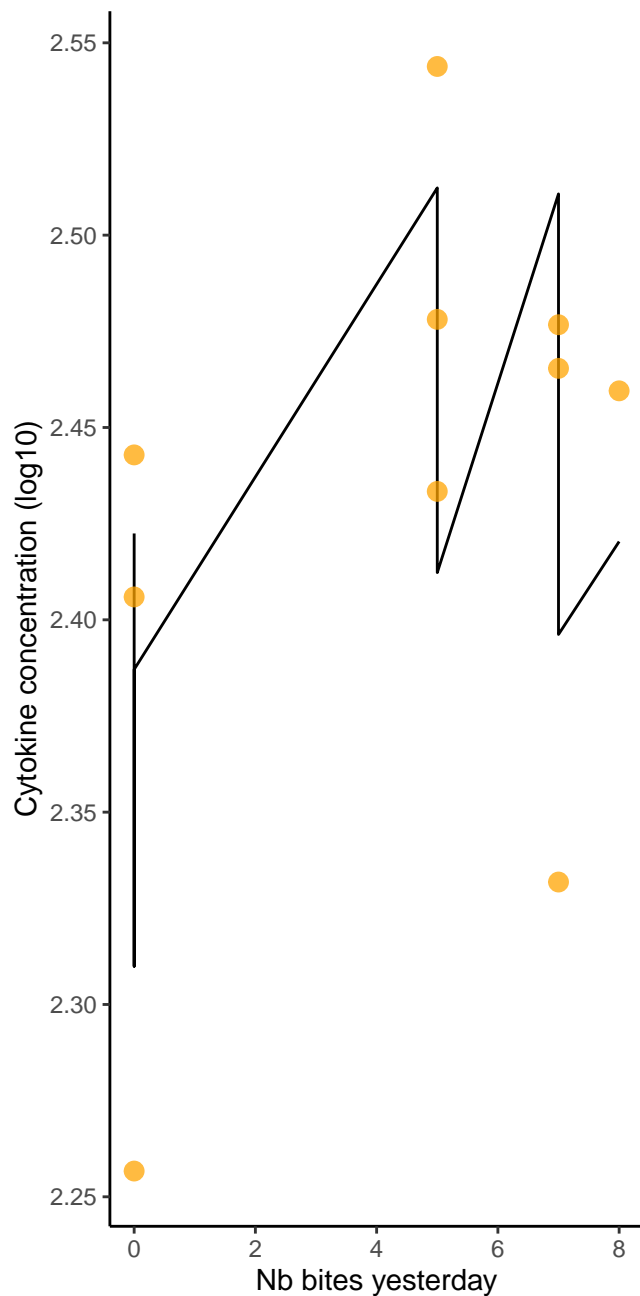


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.06	[1.00, 11.88]	1.03	0.94	[0.08, 1.00]
cumul_bites_7_previous_days	1.06	[1.00, 11.88]	1.03	0.94	[0.08, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-19.2	-17.7	14.6	-29.2	5

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.001978	0.04447
	Residual	0.002337	0.04834

Number of obs: 10, groups: ID, 2

Dispersion estimate for gaussian family (sigma^2): 0.00234

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	2.425605	0.045483	53.33	< 2e-16 ***
bites_of_yesterday	0.013800	0.005259	2.62	0.00868 **
cumul_bites_7_previous_days	-0.004167	0.001441	-2.89	0.00383 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -4.168768

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

MIG ERROR : Invalid grouping factor specification, ID

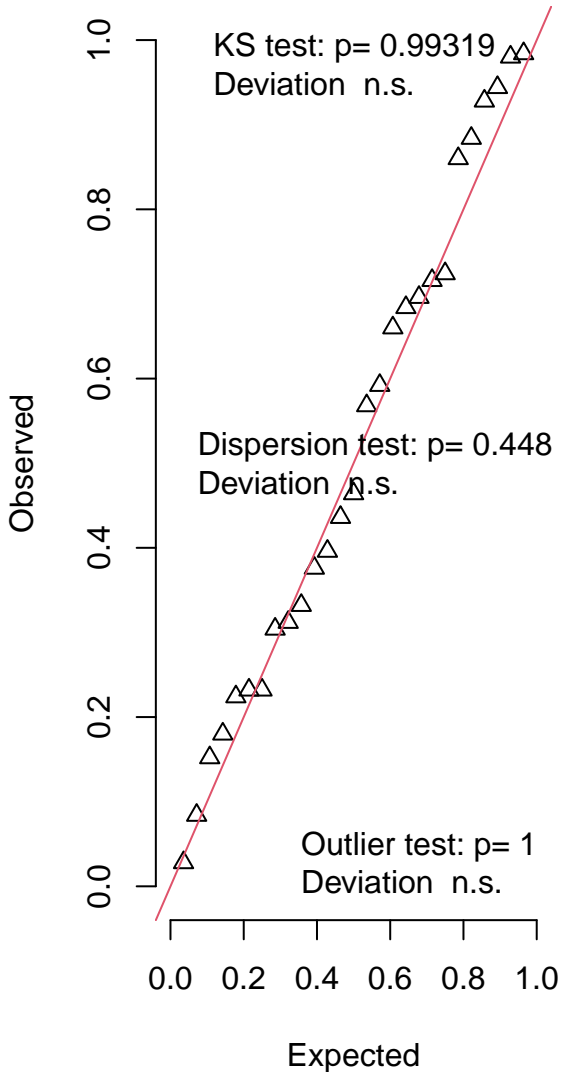
MIP.1a

Bites in cyno

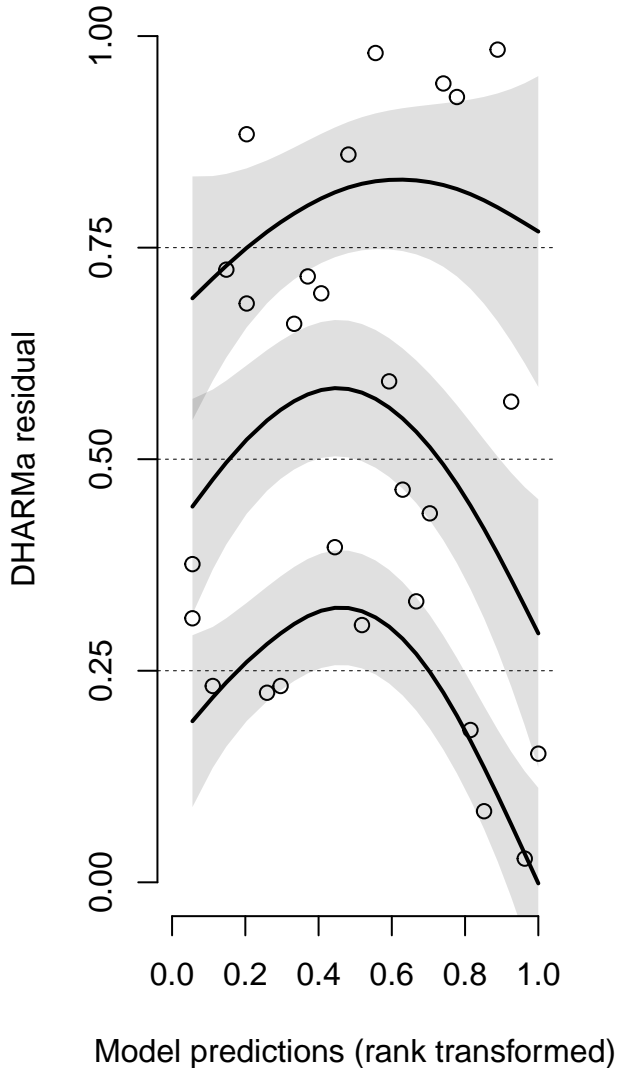
Nb excluded (LOD) : 9
Nb remaining: 27

DHARMA residual

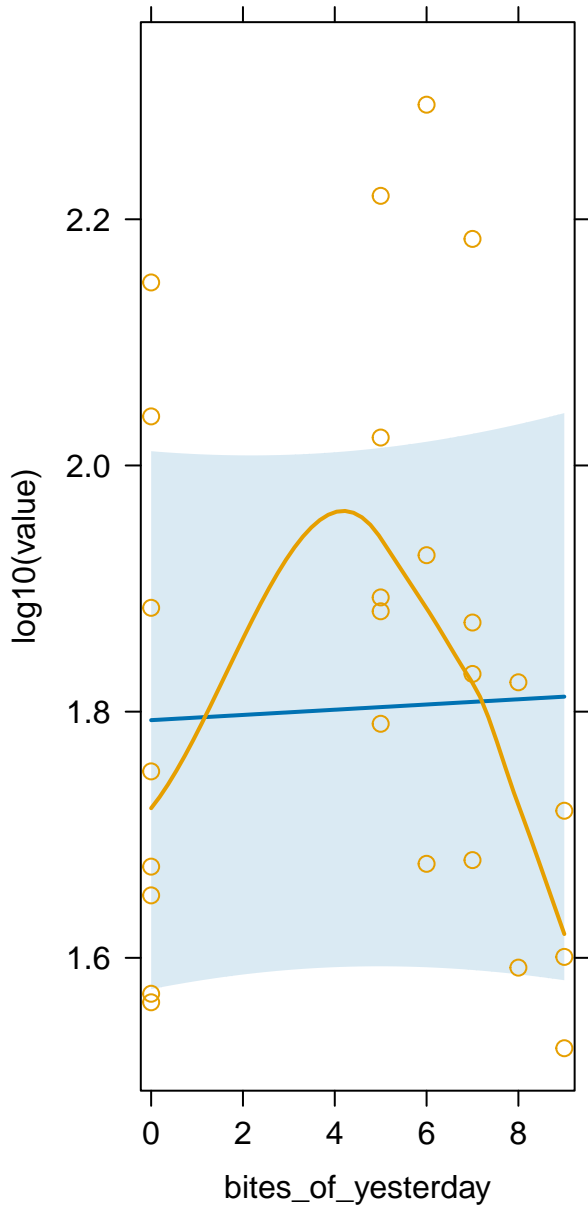
QQ plot residuals



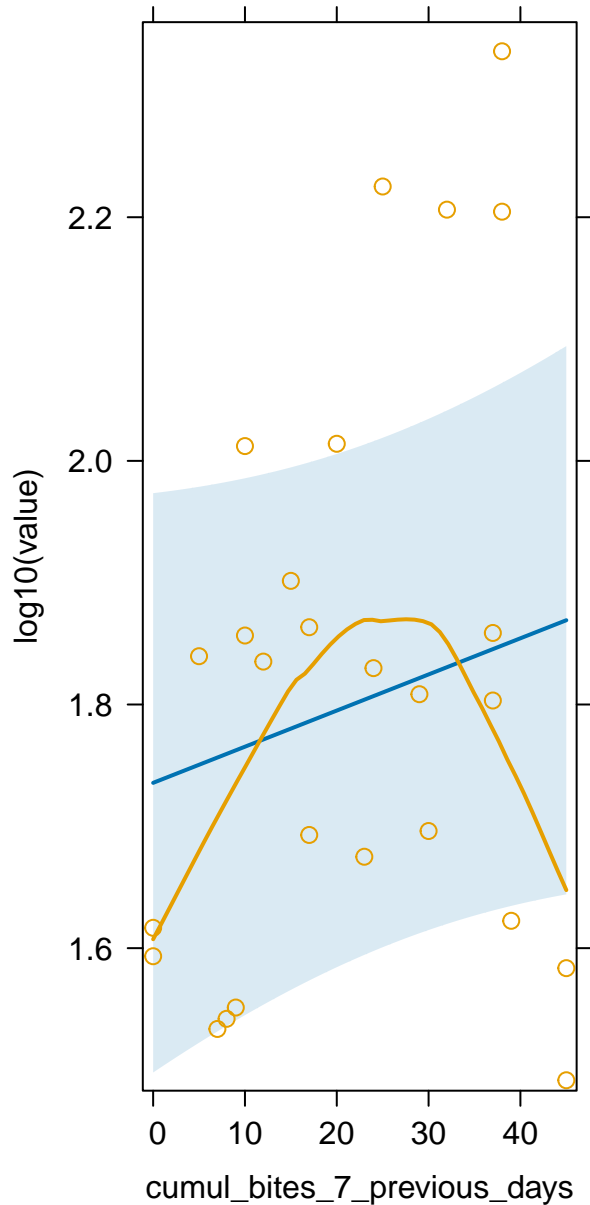
Residual vs. predicted No significant problems detected

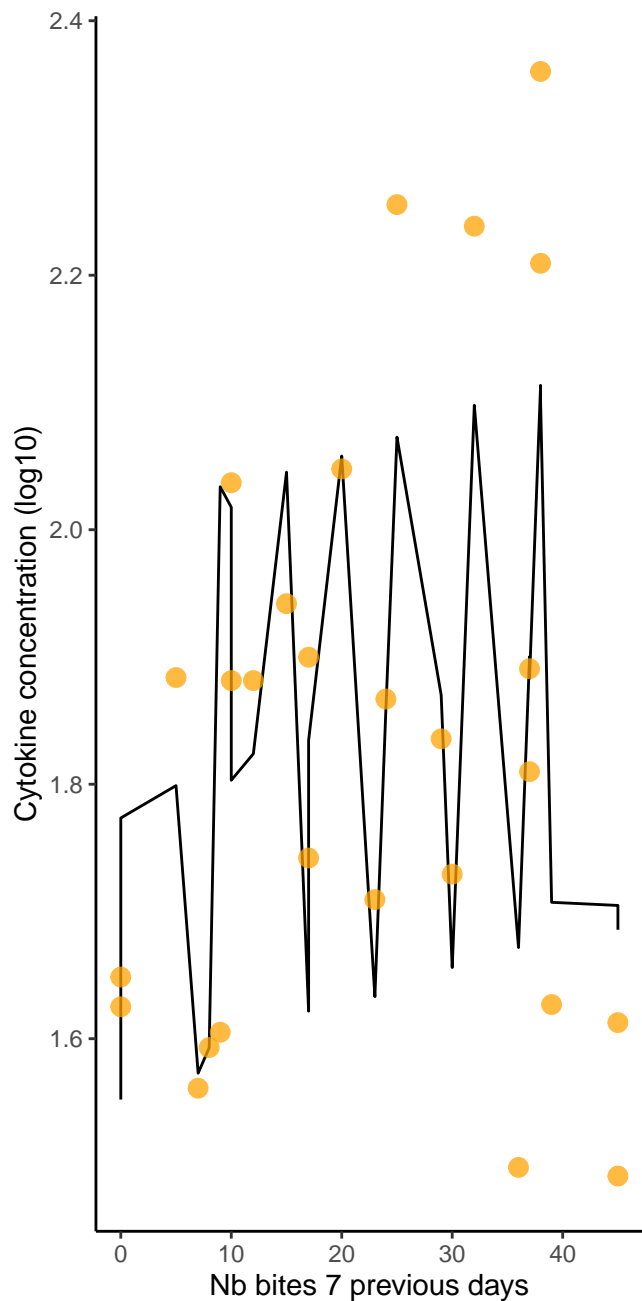
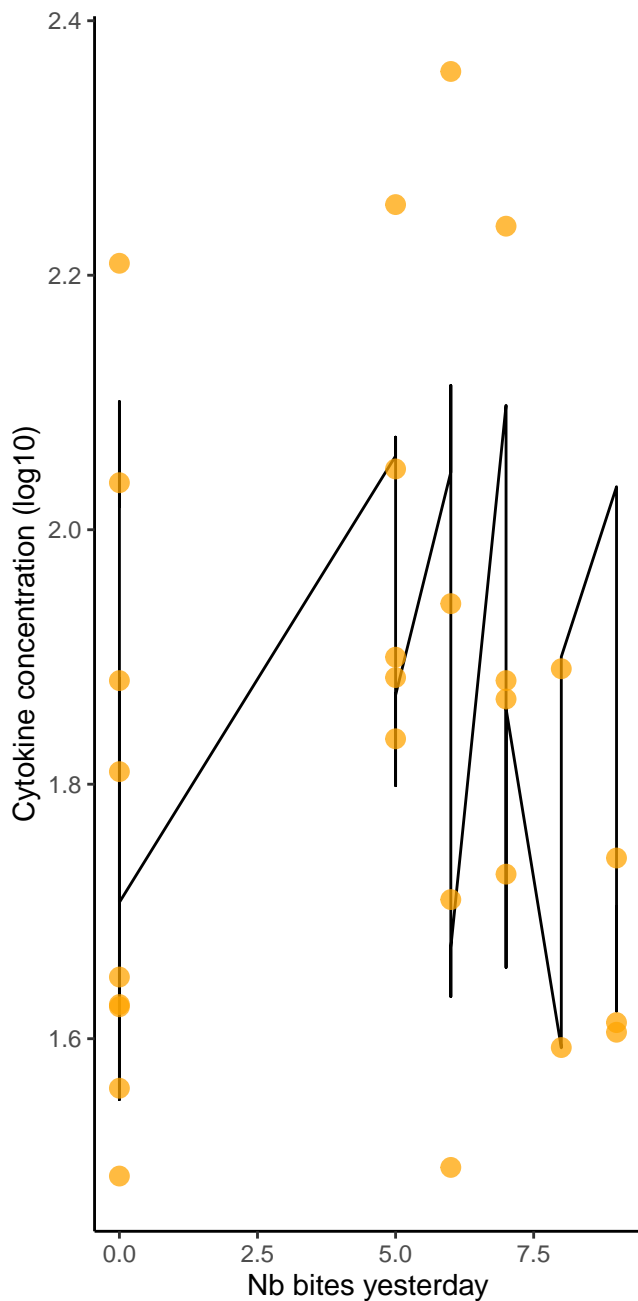


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.02	[1.00, 9941.29]	1.01	0.98	[0.00, 1.00]
cumul_bites_7_previous_days	1.02	[1.00, 9941.29]	1.01	0.98	[0.00, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-8.9	-2.4	9.4	-18.9	22

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.03472	0.1863
	Residual	0.02070	0.1439

Number of obs: 27, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0207

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.726278	0.116690	14.794	<2e-16 ***
bites_of_yesterday	0.002121	0.008647	0.245	0.806
cumul_bites_7_previous_days	0.002966	0.002117	1.401	0.161

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -6.007012

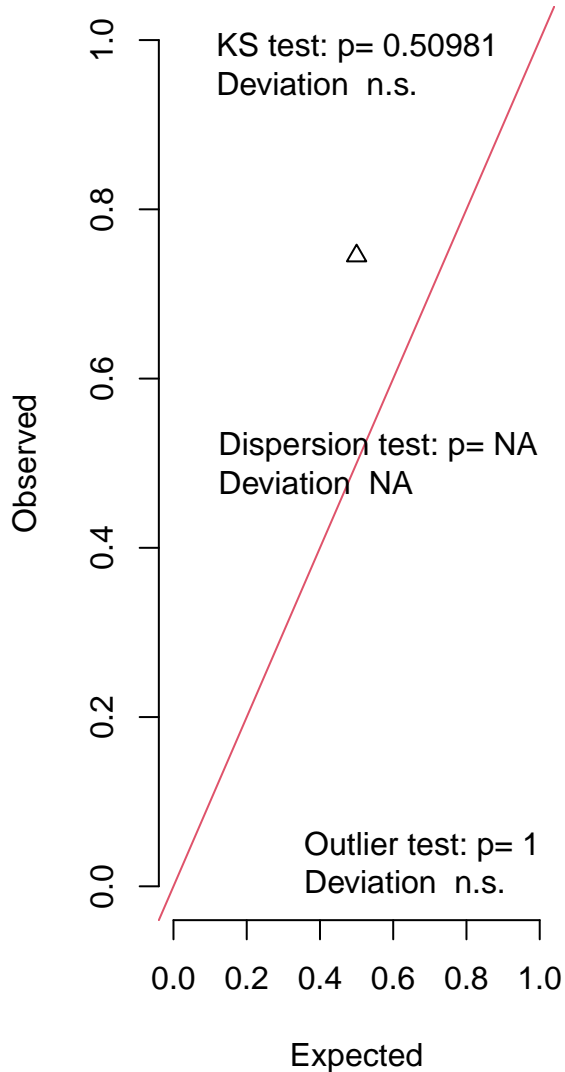
Bites in squirrel

Nb excluded (LOD) : 19

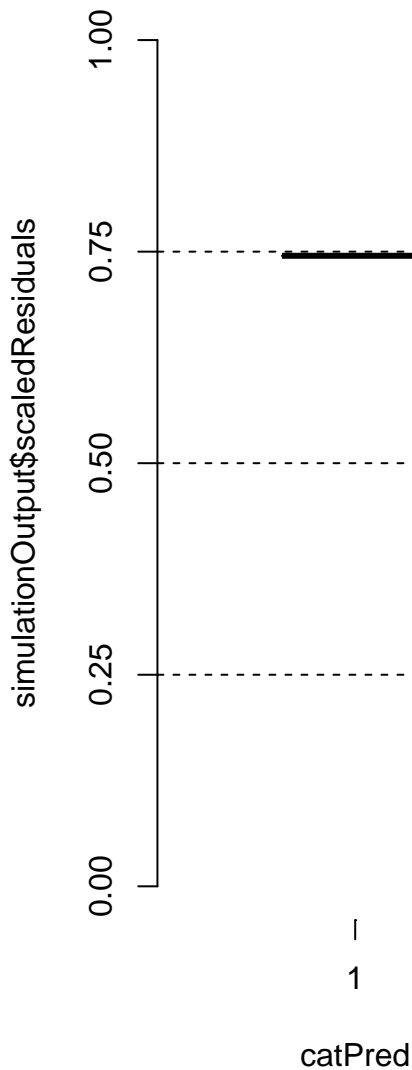
Nb remaining: 1

DHARMA residual

QQ plot residuals



Within-group deviation from uniformity n.s.



cumul_bites_2_previous_days effect plot

$\log_{10}(\text{value})$

cumul_bites_2_previous_days

MIP.1a ERROR : 'xscale' incorrect dans la vue

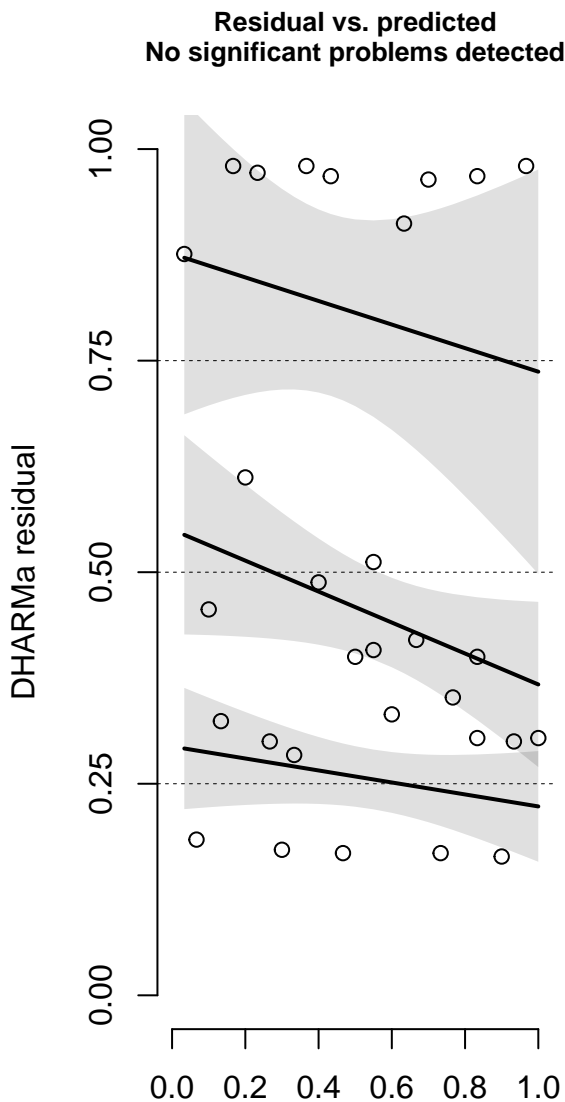
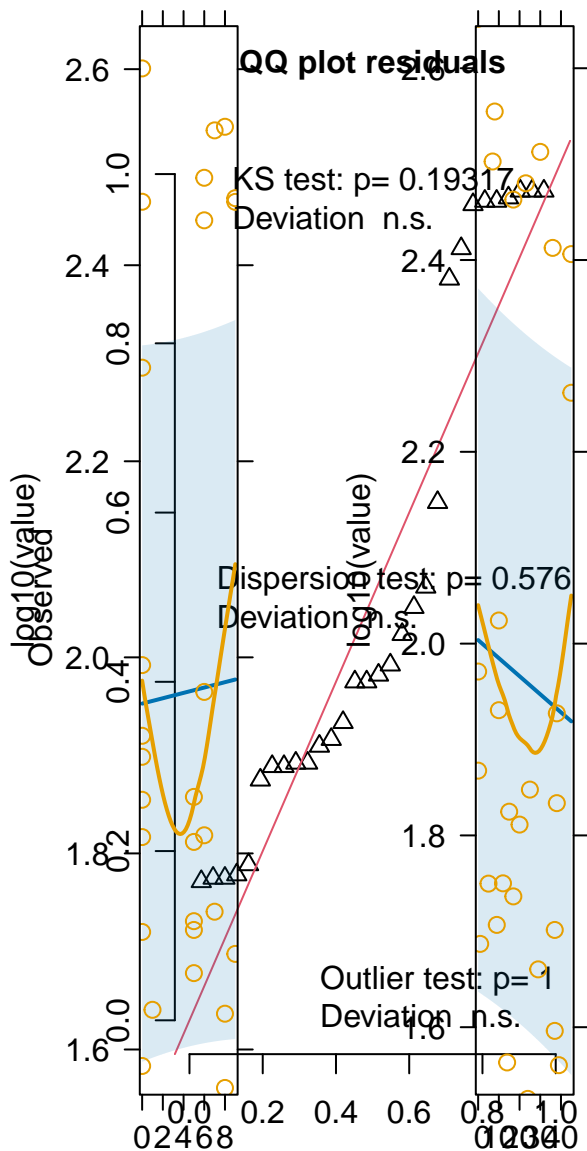
MIP.1B

Bites in cyno

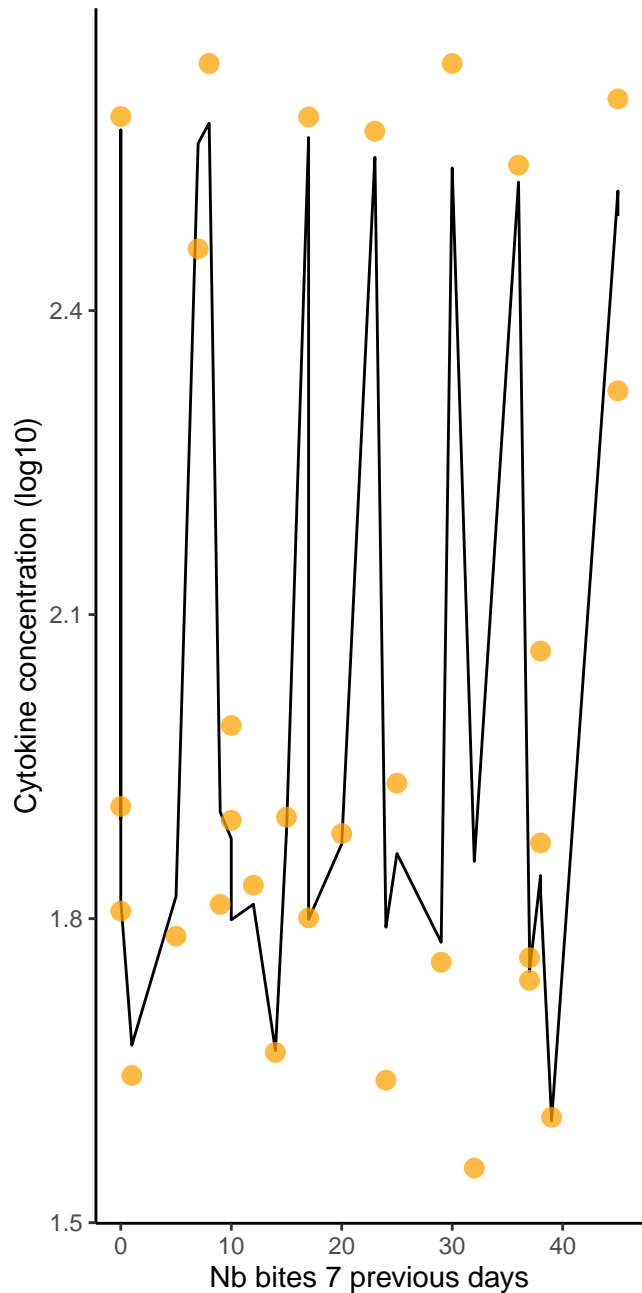
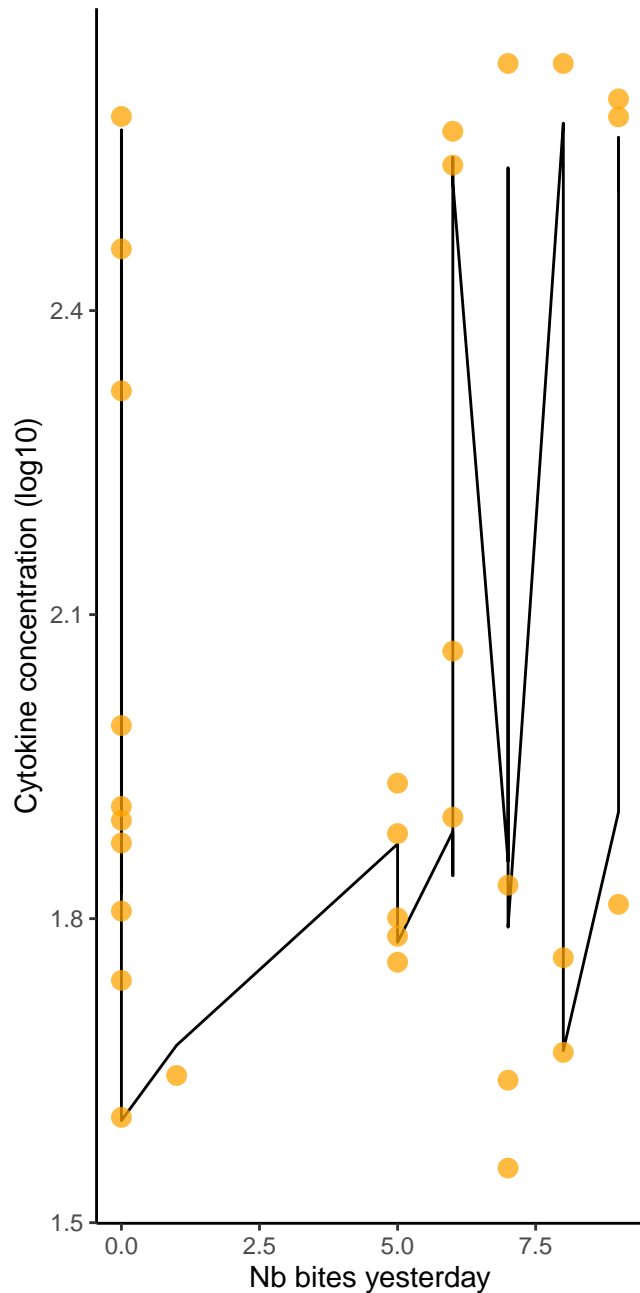
Nb excluded (LOD) : 6
Nb remaining: 30

of yesterday bites 7 previous days effect plot

DHARMA residual



bites_of_yesterday Expected bites_7_previous_days Model predictions (rank transformed)



Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.03	[1.00, 717.36]	1.01	0.97	[0.00, 1.00]
cumul_bites_7_previous_days	1.03	[1.00, 717.36]	1.01	0.97	[0.00, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-22.8	-15.8	16.4	-32.8	25

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.12276	0.3504
	Residual	0.01098	0.1048

Number of obs: 30, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.011

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.991951	0.179640	11.089	<2e-16 ***
bites_of_yesterday	0.002730	0.005798	0.471	0.638
cumul_bites_7_previous_days	-0.001884	0.001385	-1.361	0.174

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

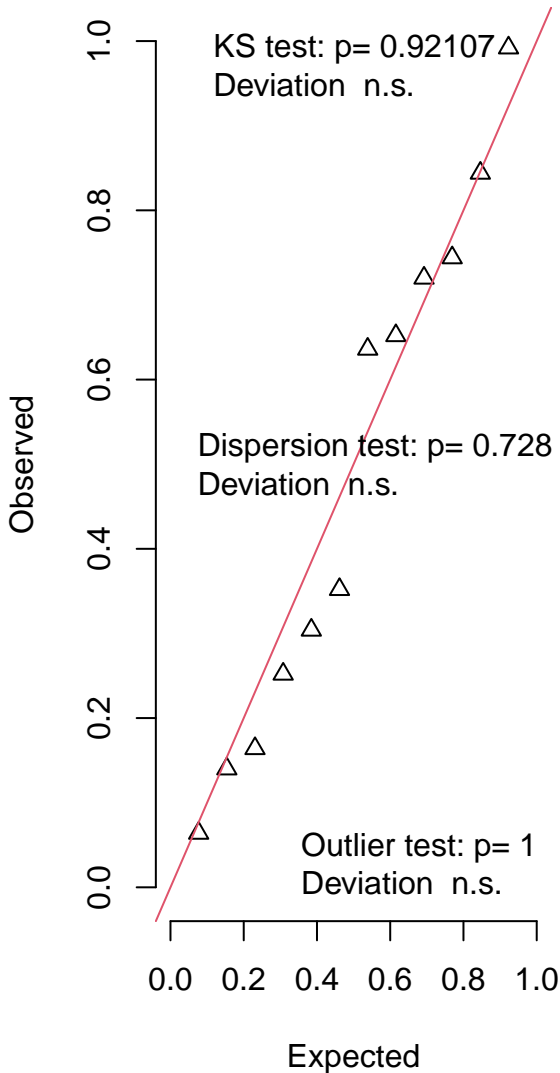
```
AICc [1] -20.31575
```


Bites in squirrel

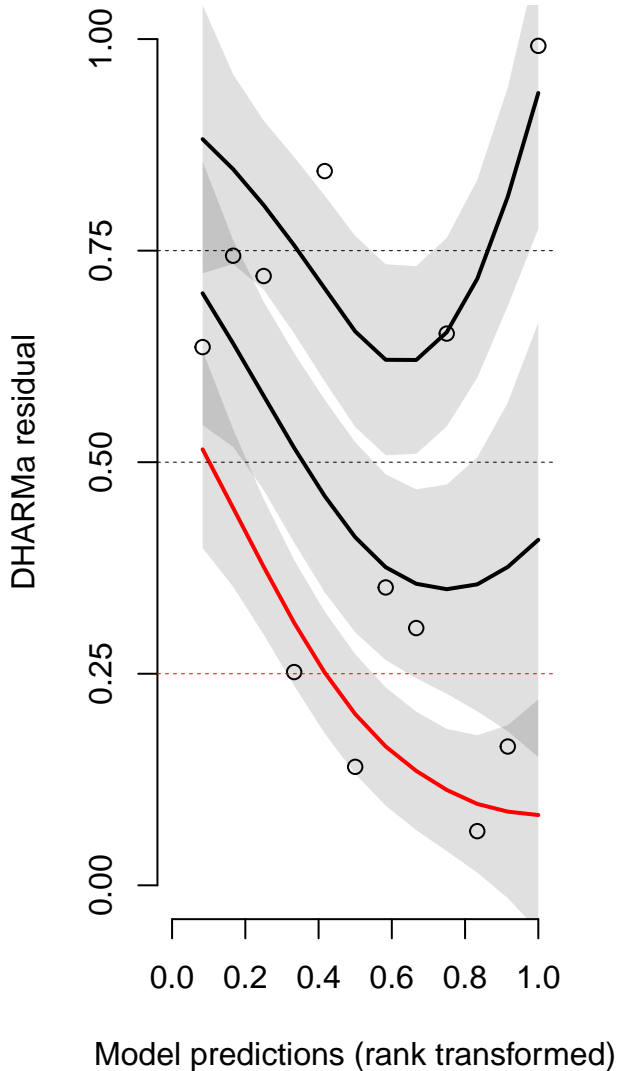
Nb excluded (LOD) : 8
Nb remaining: 12

DHARMA residual

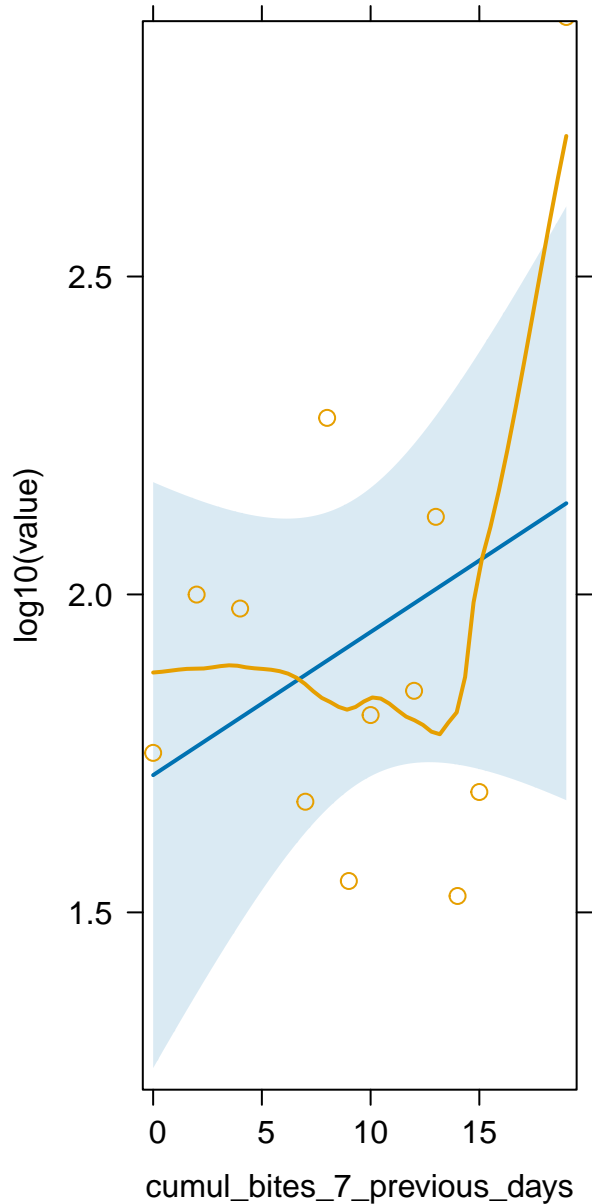
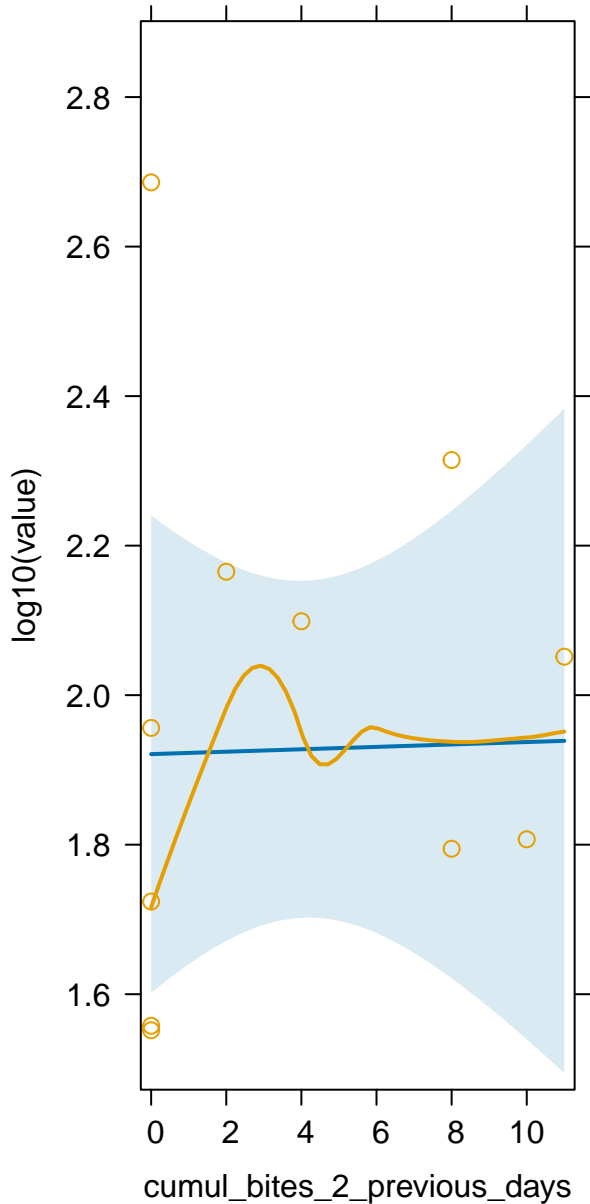
QQ plot residuals

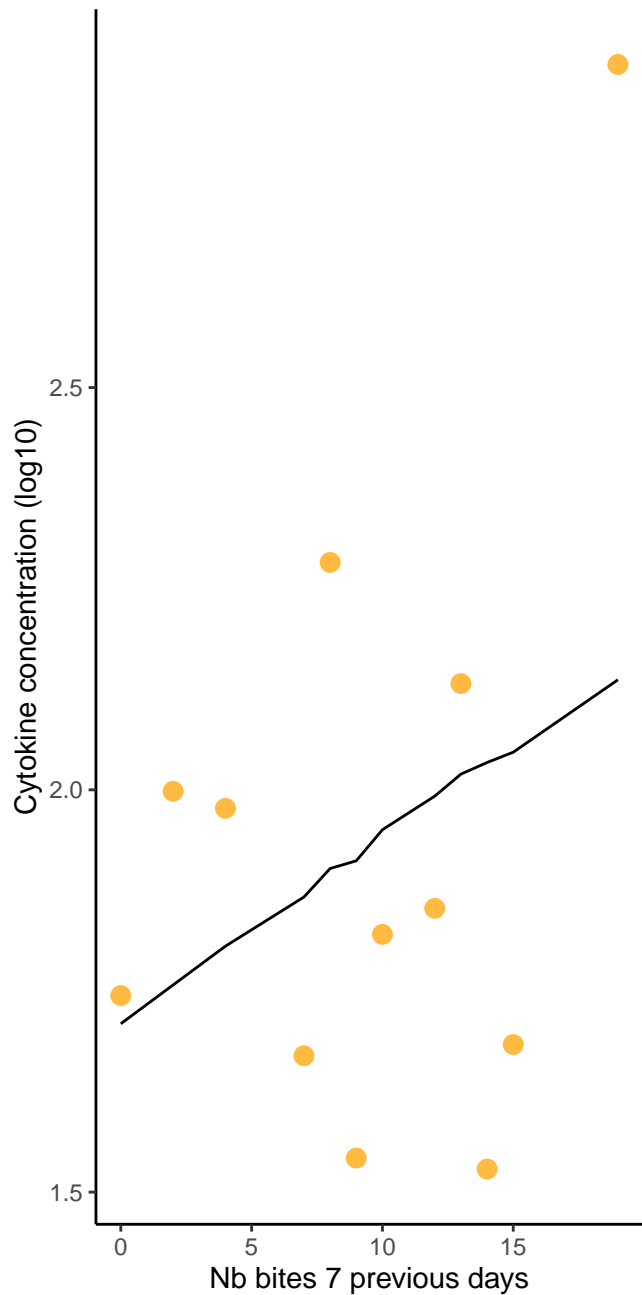
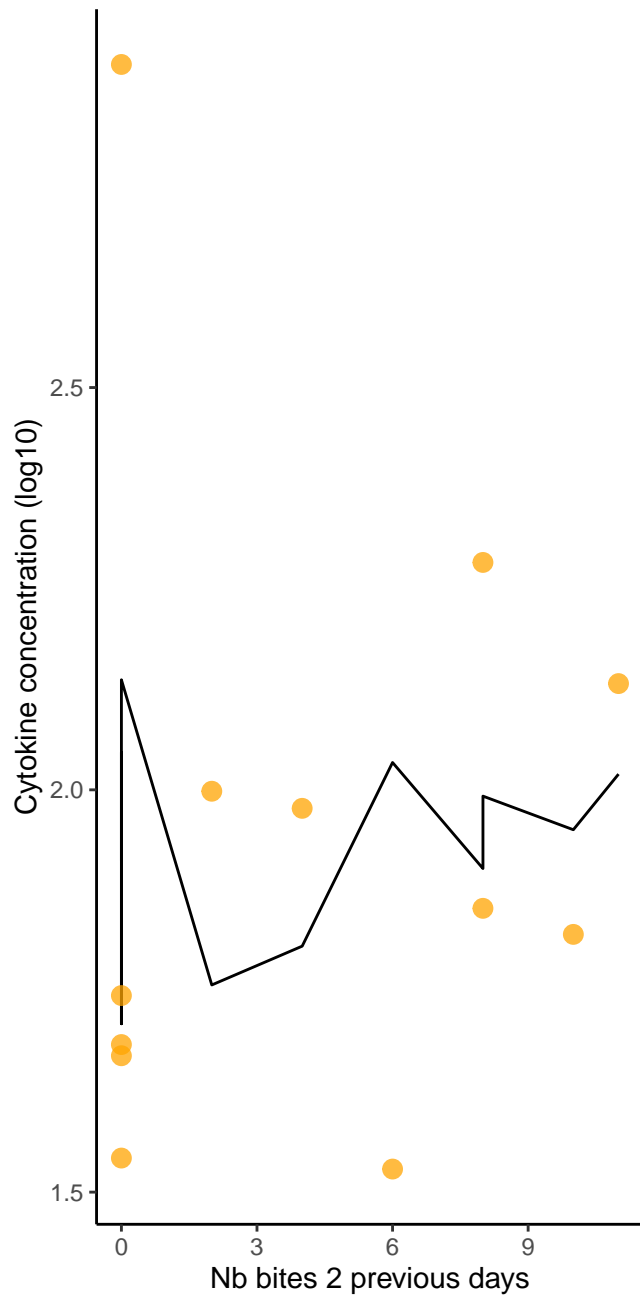


Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test n.s.



cumul_bites_2_previous_days effect plot cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
cumul_bites_2_previous_days	1.03	[1.00, 969.55]	1.02	0.97	[0.00, 1.00]
cumul_bites_7_previous_days	1.03	[1.00, 969.55]	1.02	0.97	[0.00, 1.00]

```
Family: gaussian ( identity )
Formula:      log10(value) ~ cumul_bites_2_previous_days + cumul_bites_7_previous_days +
      (1 | ID)
Data: d_sq

      AIC      BIC  logLik deviance df.resid
18.5      21.0    -4.3      8.5        7

Random effects:

Conditional model:
  Groups   Name      Variance Std.Dev.
ID      (Intercept) 1.141e-10 1.068e-05
Residual                1.192e-01 3.452e-01
Number of obs: 12, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.119

Conditional model:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)    1.709254   0.213059   8.022 1.04e-15 ***
cumul_bites_2_previous_days 0.001615   0.024477   0.066   0.947
cumul_bites_7_previous_days 0.022501   0.018867   1.193   0.233
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
AICc [1] 28.52745
```

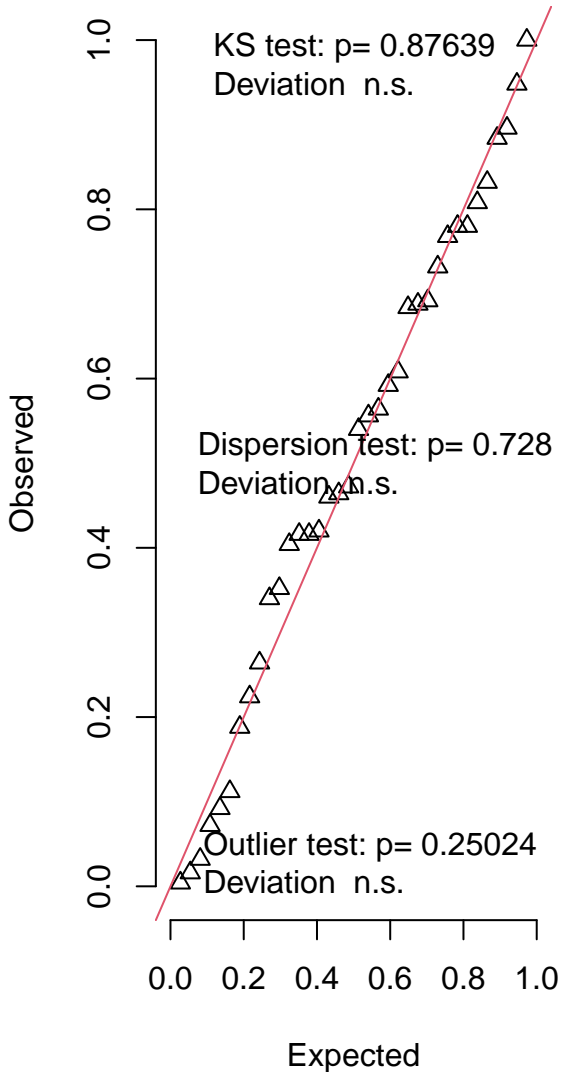

RANTES

Bites in cyno

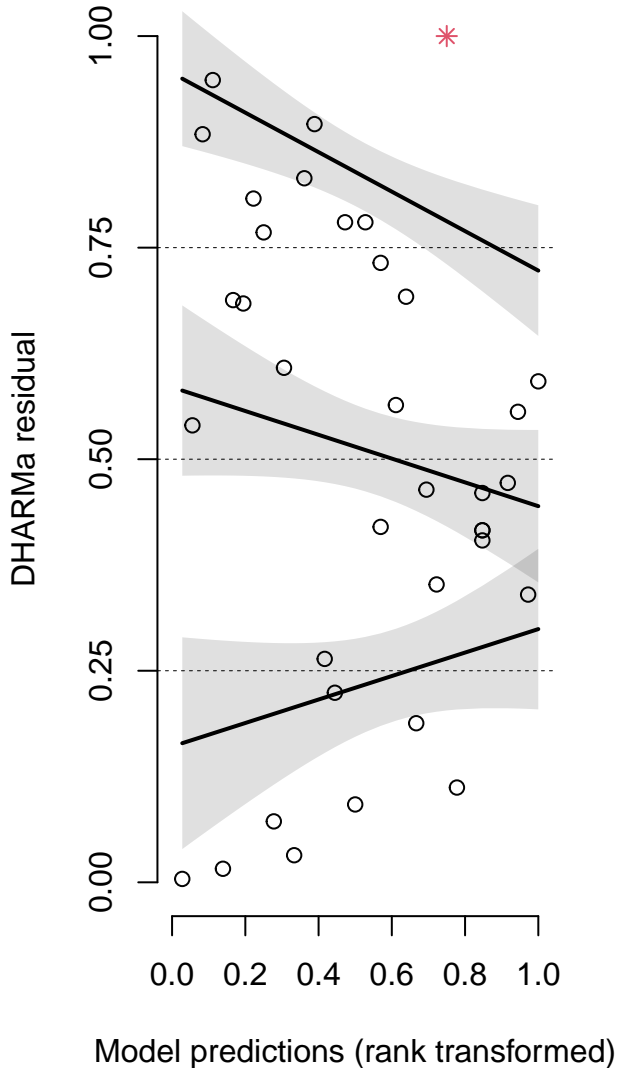
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

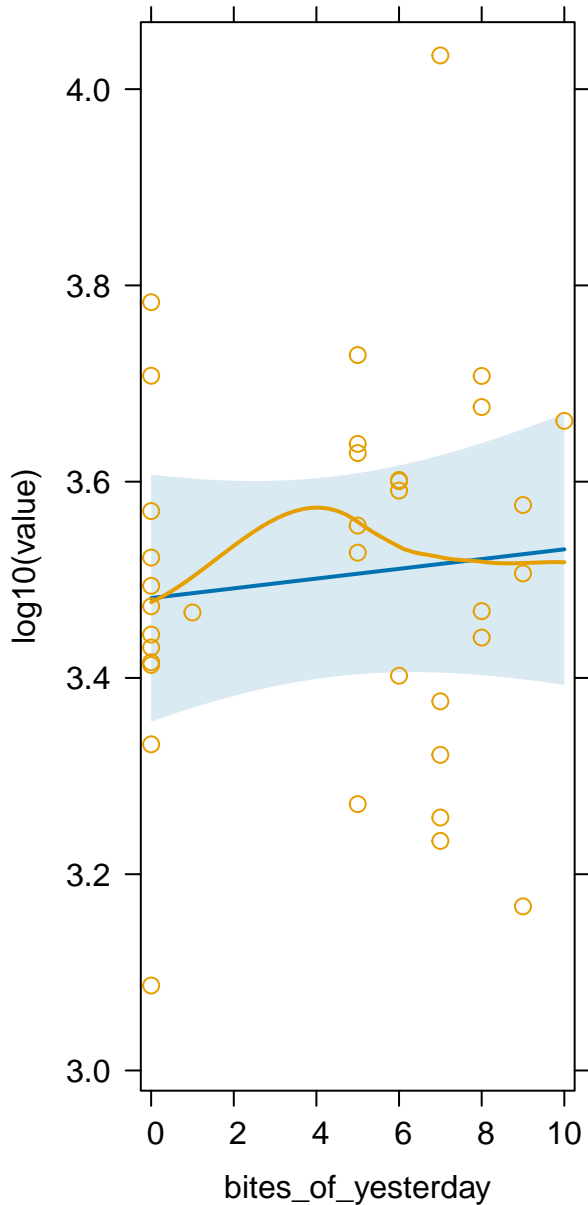
QQ plot residuals



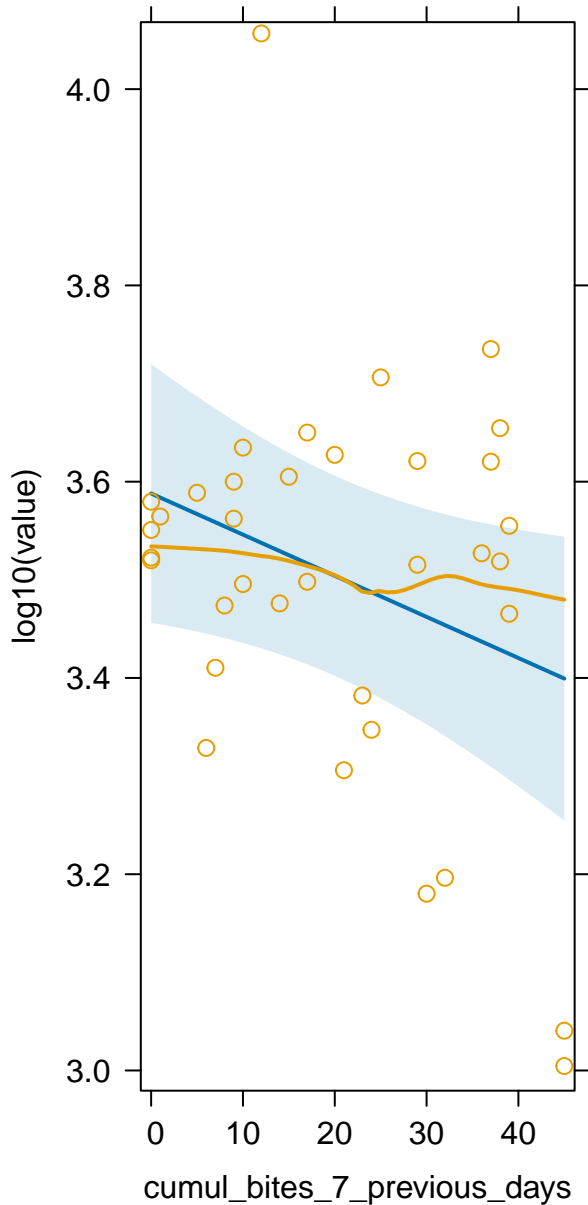
Residual vs. predicted No significant problems detected

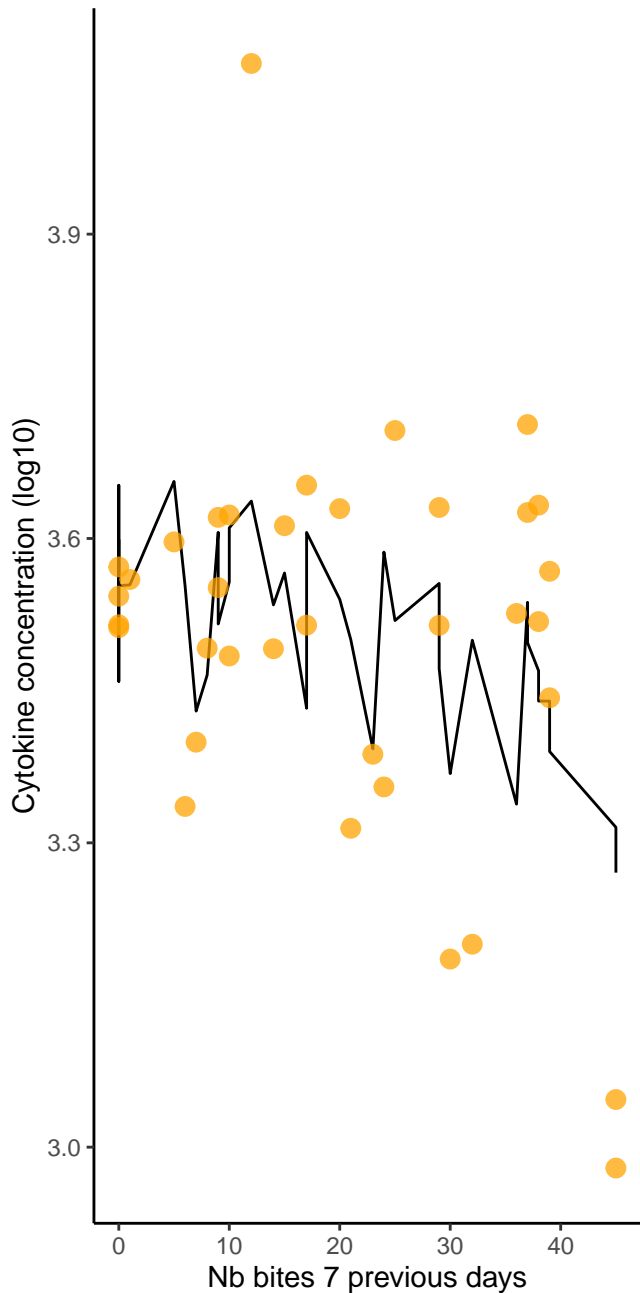
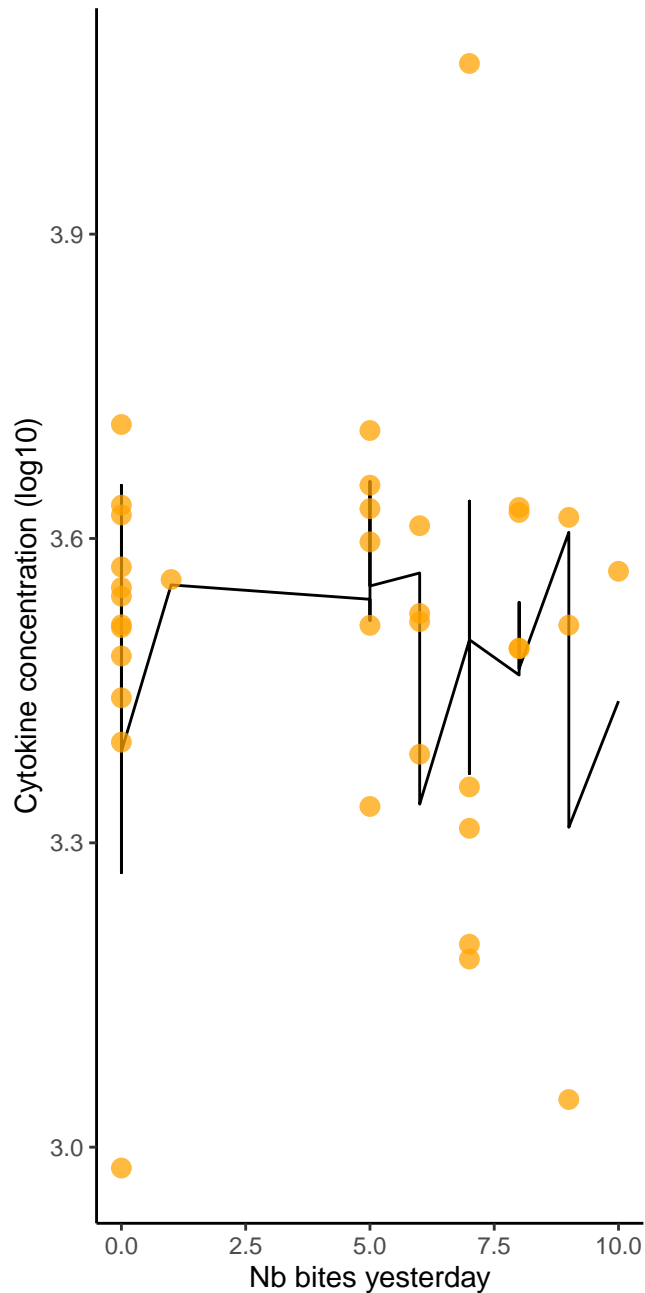


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.09	[1.00, 3.82]	1.05	0.91	[0.26, 1.00]
cumul_bites_7_previous_days	1.09	[1.00, 3.82]	1.05	0.91	[0.26, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-13.6	-5.7	11.8	-23.6	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.007111	0.08433
	Residual	0.026499	0.16279

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0265

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	3.566014	0.068092	52.37	<2e-16 ***
bites_of_yesterday	0.004968	0.008204	0.61	0.5448
cumul_bites_7_previous_days	-0.004191	0.002033	-2.06	0.0392 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

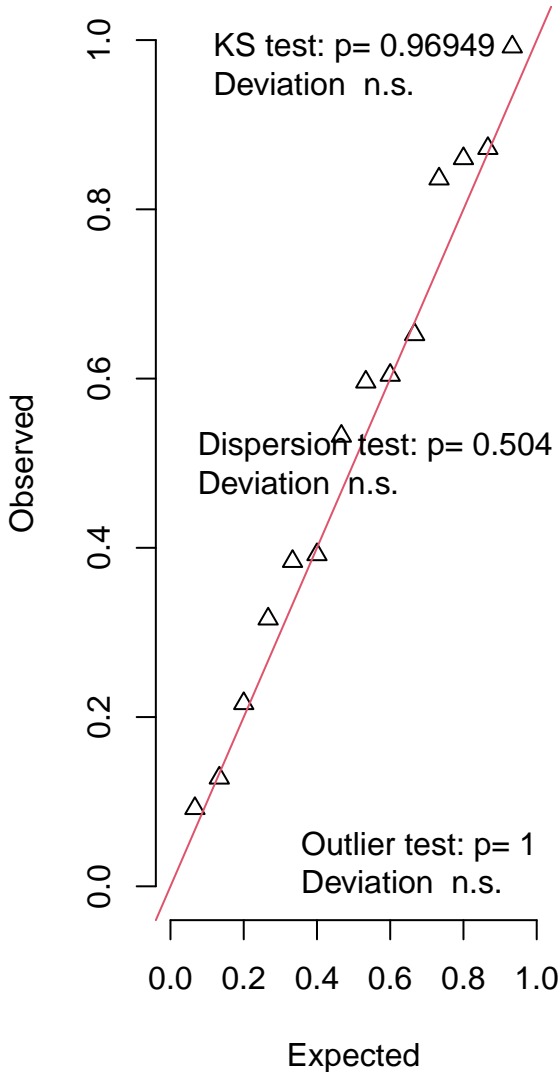
AICc [1] -11.62673

Bites in squirrel

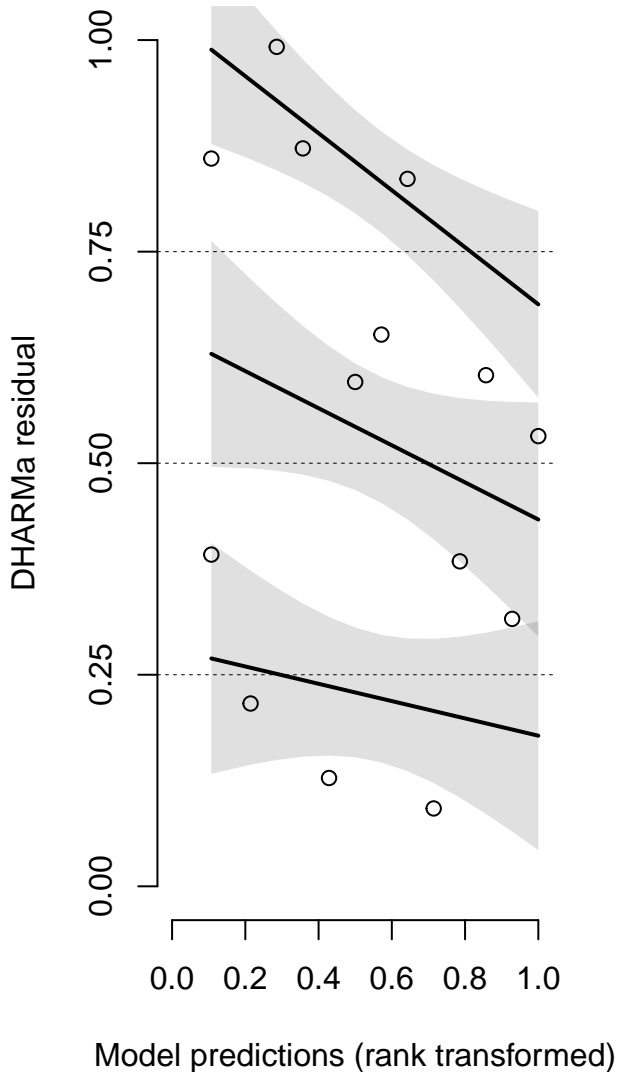
Nb excluded (LOD) : 6
Nb remaining: 14

DHARMA residual

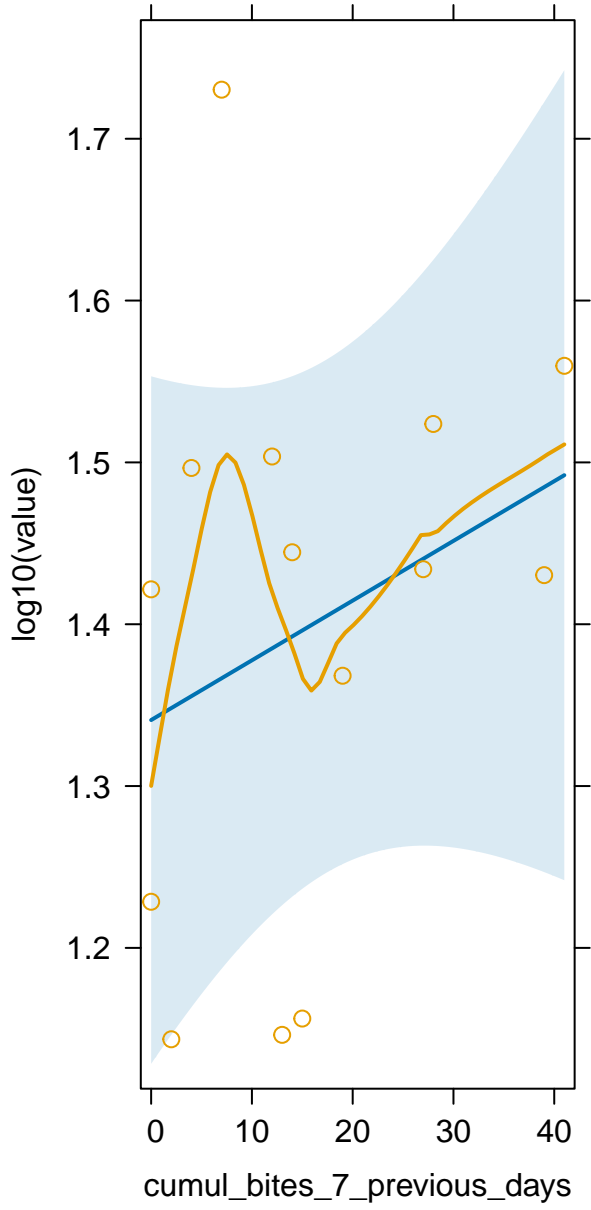
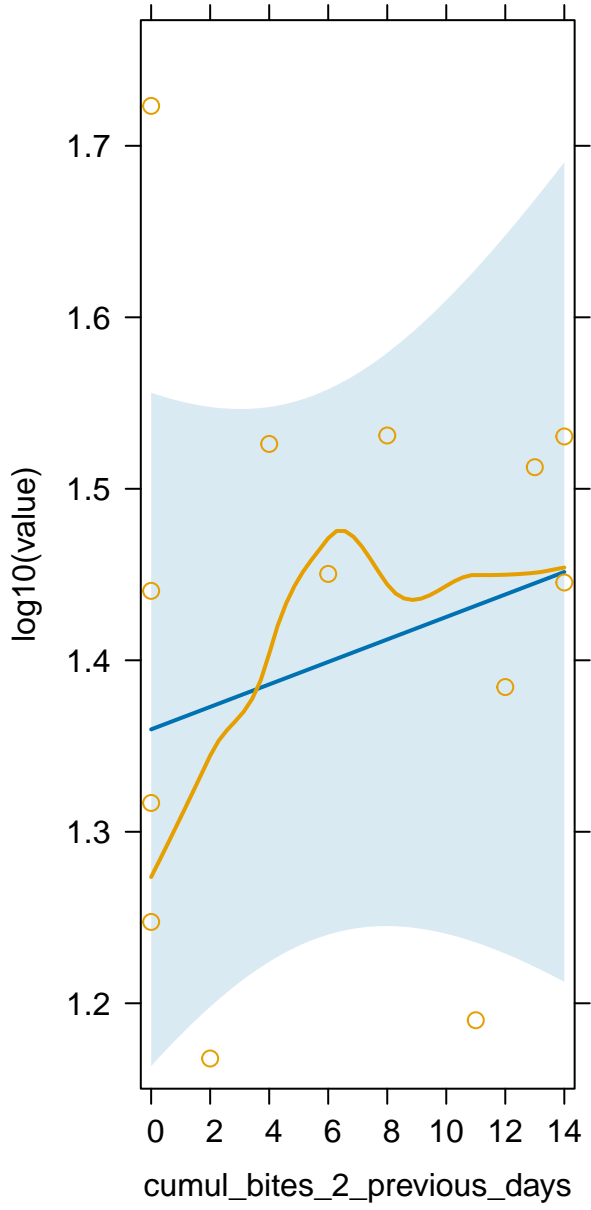
QQ plot residuals

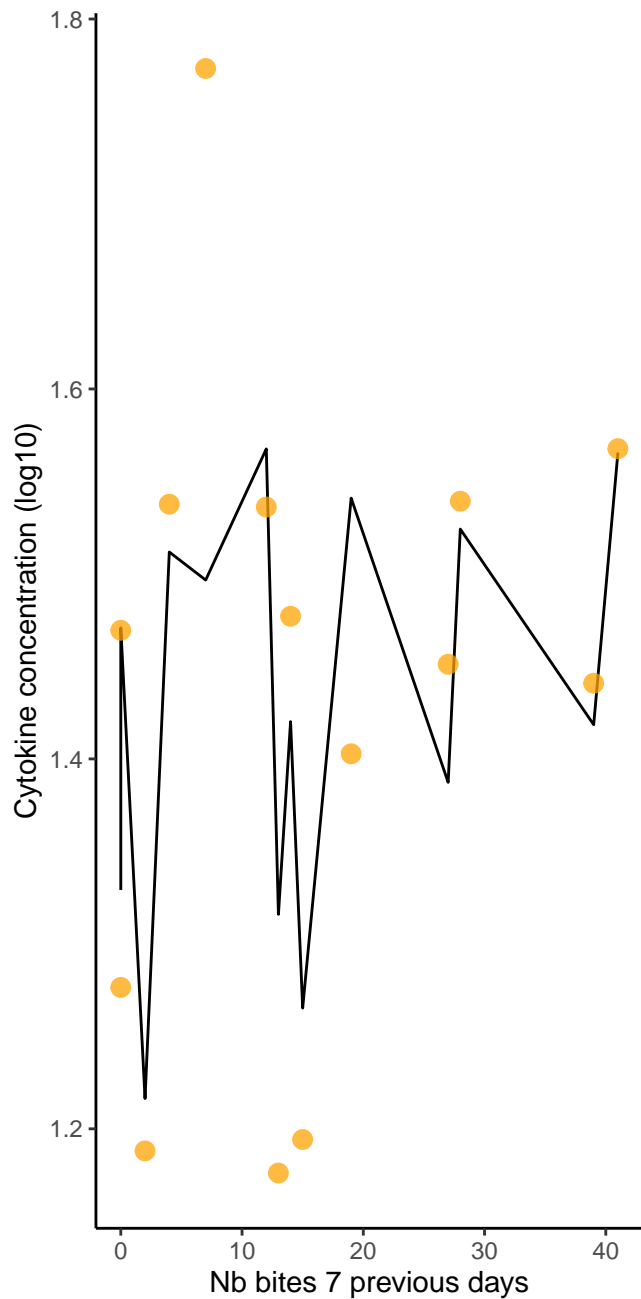
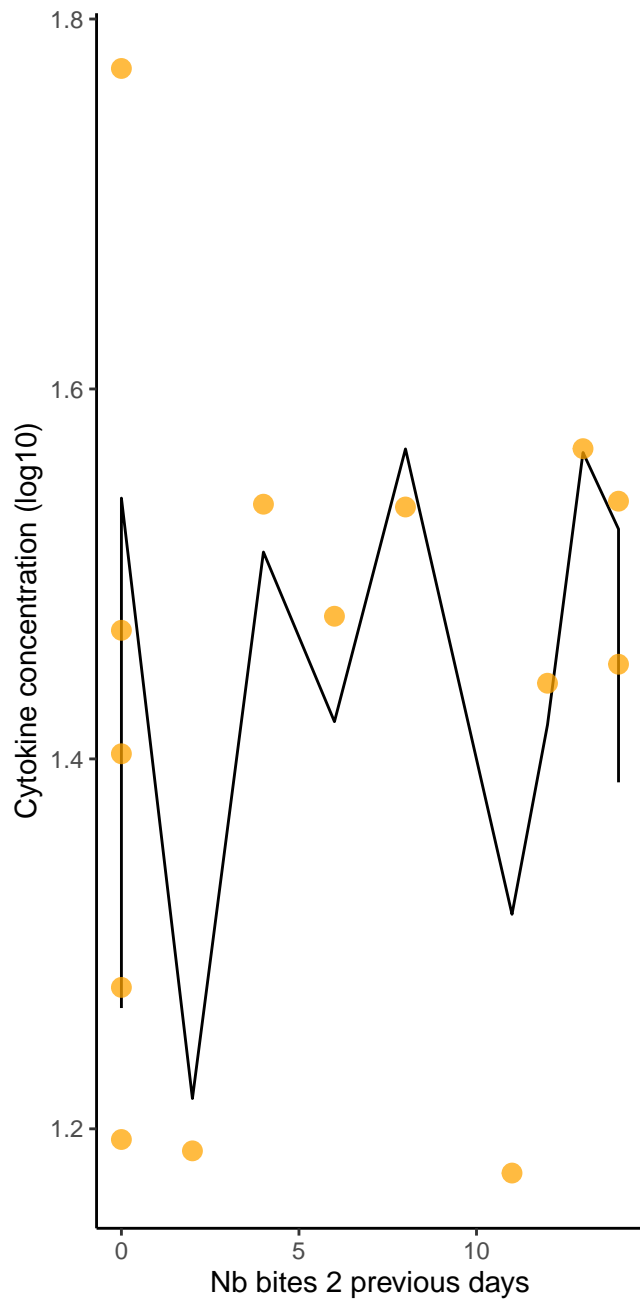


Residual vs. predicted No significant problems detected



cumul_bites_2_previous_days effect plot cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
cumul_bites_2_previous_days	2.15	[1.48, 3.77]	1.47	0.47	[0.27, 0.68]
cumul_bites_7_previous_days	2.15	[1.48, 3.77]	1.47	0.47	[0.27, 0.68]

```

Family: gaussian ( identity )
Formula:      log10(value) ~ cumul_bites_2_previous_days + cumul_bites_7_previous_days +
      (1 | ID)
Data: d_sq

      AIC      BIC    logLik deviance df.resid
    -5.4     -2.2      7.7     -15.4        9

Random effects:

Conditional model:
  Groups   Name      Variance Std.Dev.
  ID      (Intercept) 0.01578  0.1256
  Residual                0.01225  0.1107
Number of obs: 14, groups:  ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.0123

Conditional model:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)      1.301463   0.084511  15.400  <2e-16 ***
cumul_bites_2_previous_days 0.006555   0.009553   0.686   0.493
cumul_bites_7_previous_days 0.003690   0.003714   0.994   0.320
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```



```
AICc [1] 2.070193
```

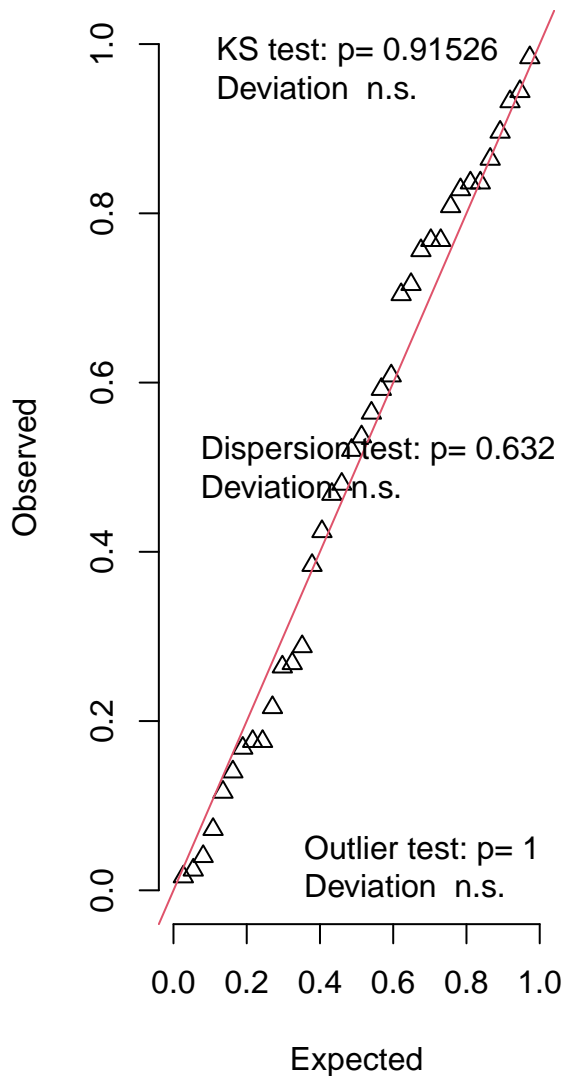
TGFbeta

Bites in cyno

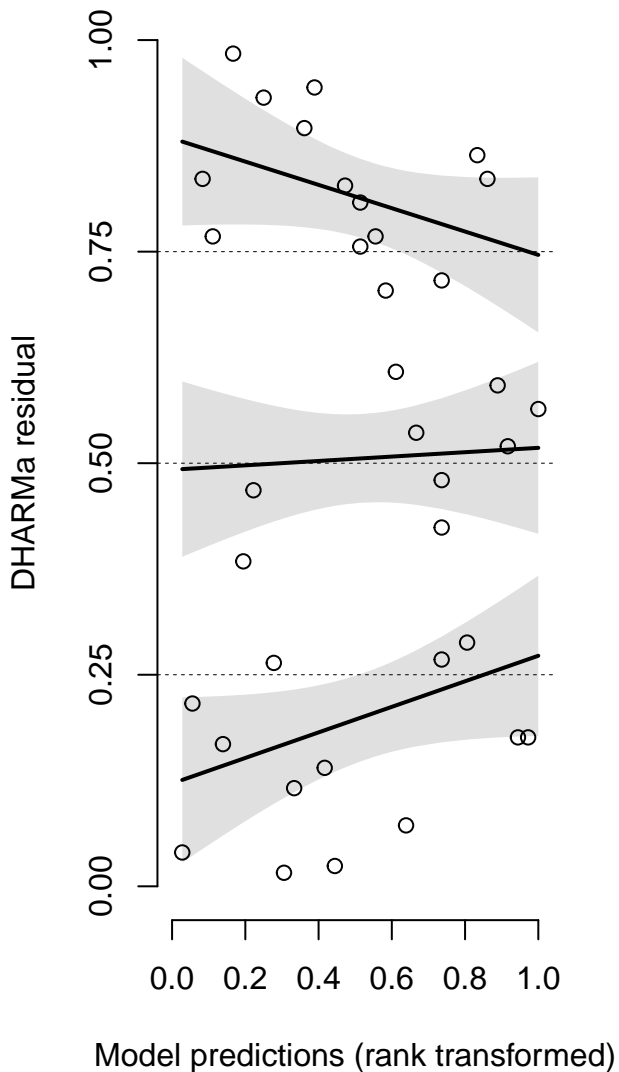
Nb excluded (LOD) : 0
Nb remaining: 36

DHARMA residual

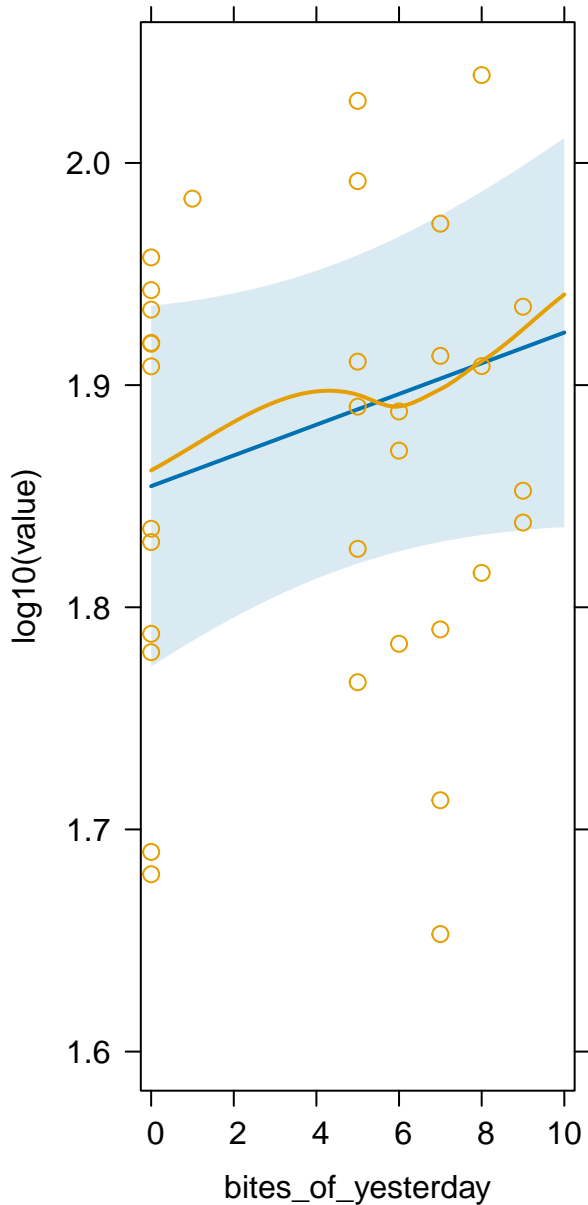
QQ plot residuals



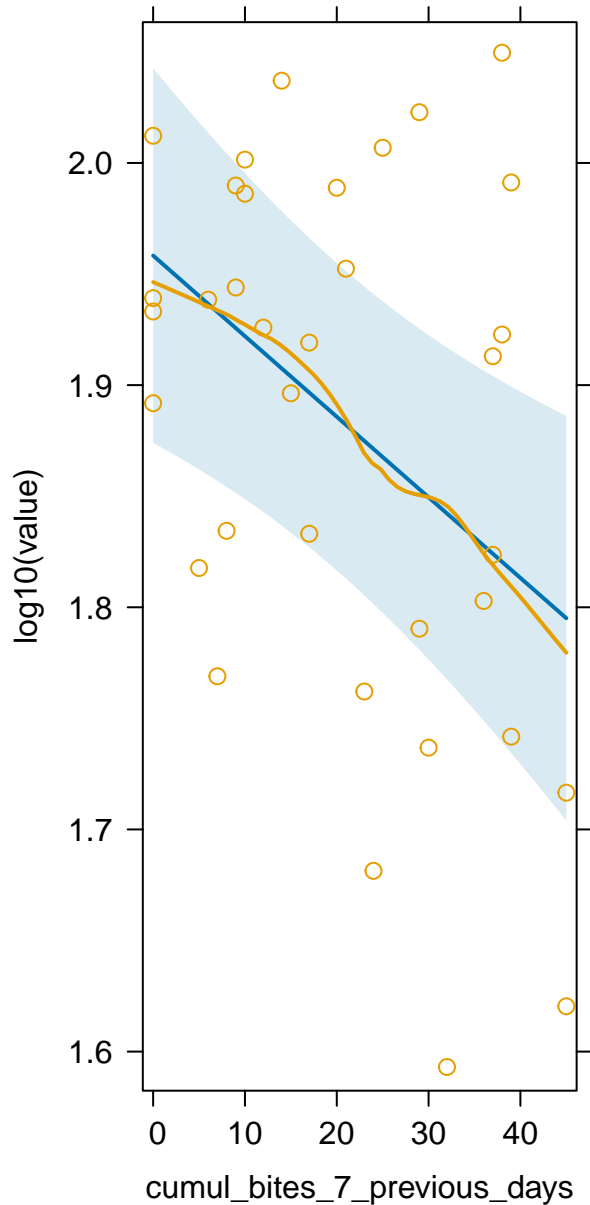
Residual vs. predicted No significant problems detected

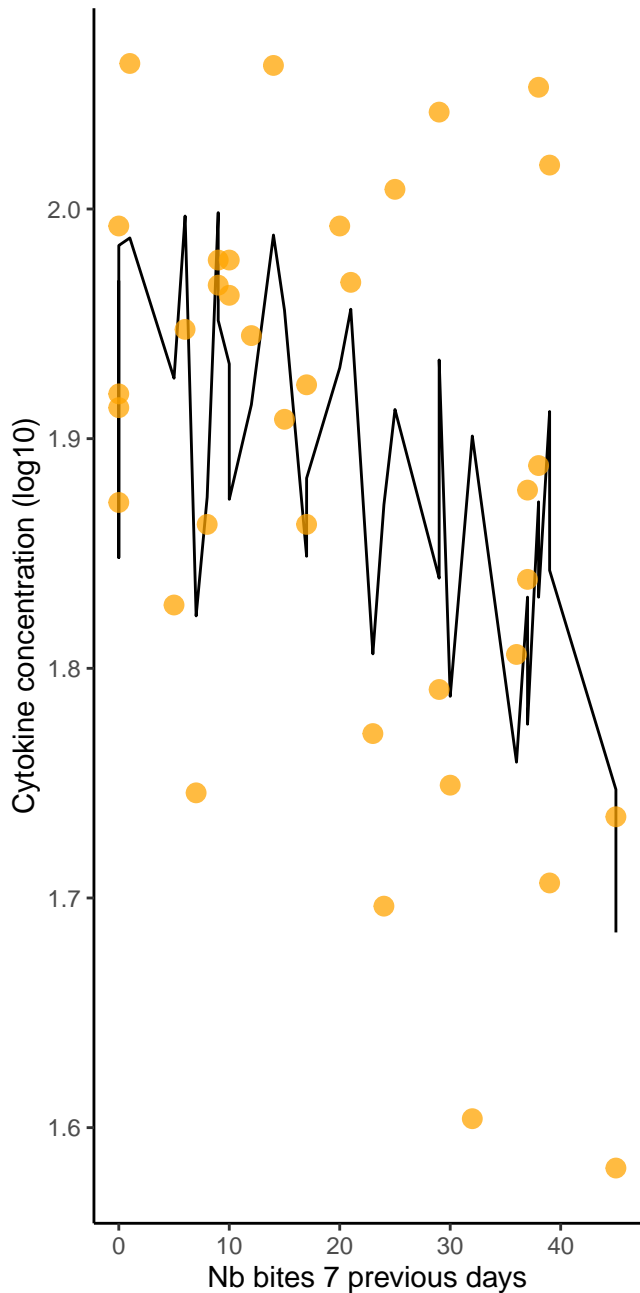
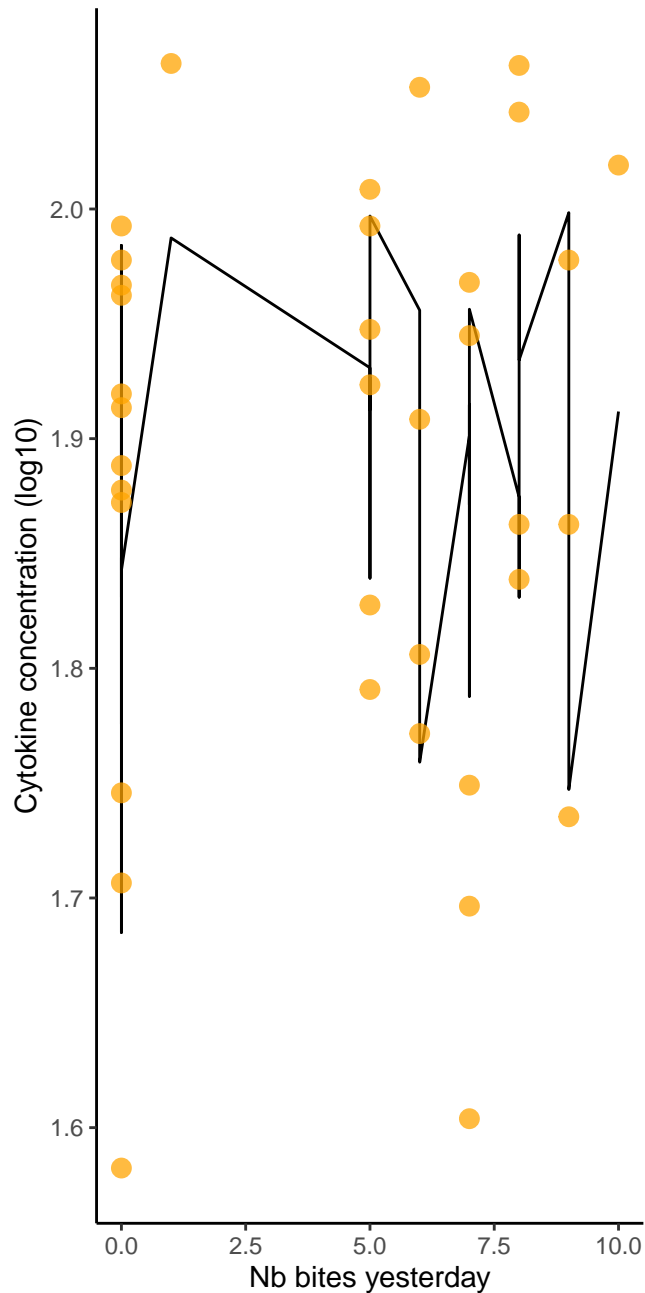


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.10	[1.00, 3.78]	1.05	0.91	[0.26, 1.00]
cumul_bites_7_previous_days	1.10	[1.00, 3.78]	1.05	0.91	[0.26, 1.00]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-52.0	-44.1	31.0	-62.0	31

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	0.003649	0.06040
Residual		0.008808	0.09385

Number of obs: 36, groups: ID, 4

Dispersion estimate for gaussian family (sigma^2): 0.00881

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.927755	0.043149	44.68	<2e-16 ***
bites_of_yesterday	0.006916	0.004725	1.46	0.143
cumul_bites_7_previous_days	-0.003627	0.001174	-3.09	0.002 **

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

AICc [1] -49.97958

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

TGFbeta ERROR : Invalid grouping factor specification, ID

TNF.alpha

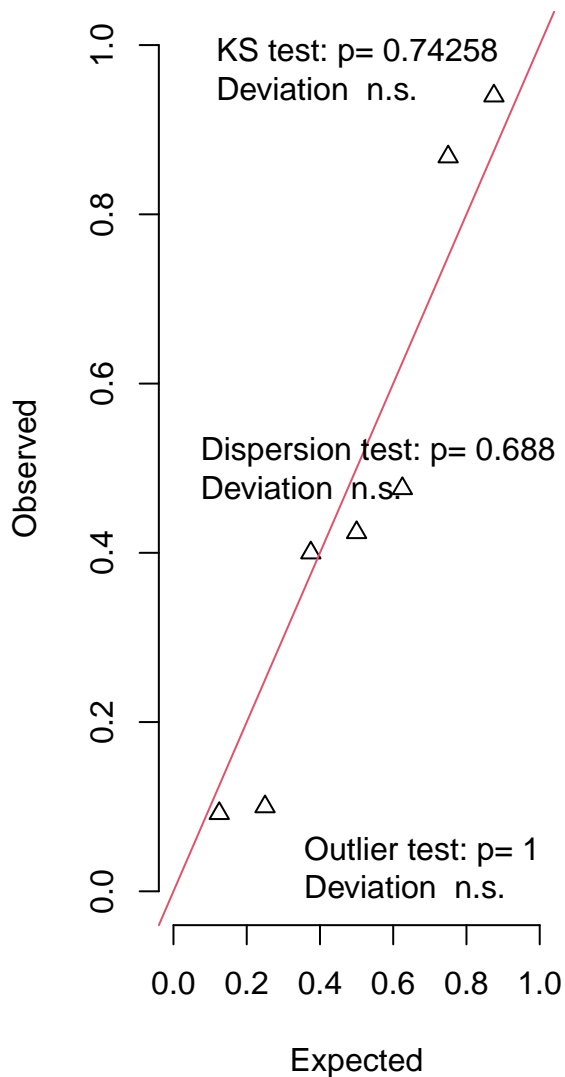
Bites in cyno

Nb excluded (LOD) : 29

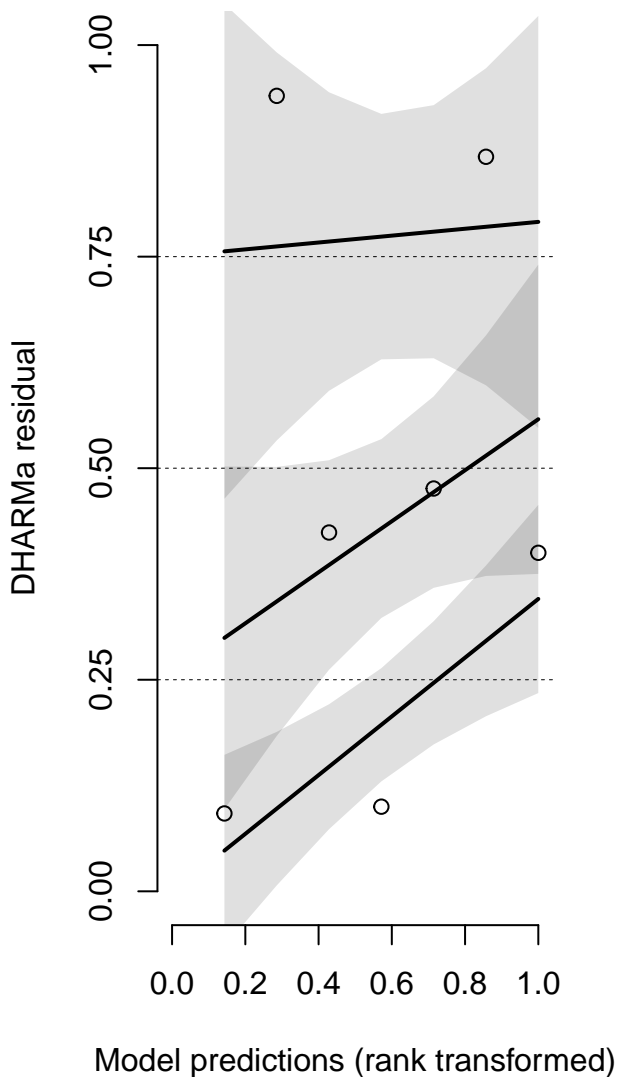
Nb remaining: 7

DHARMA residual

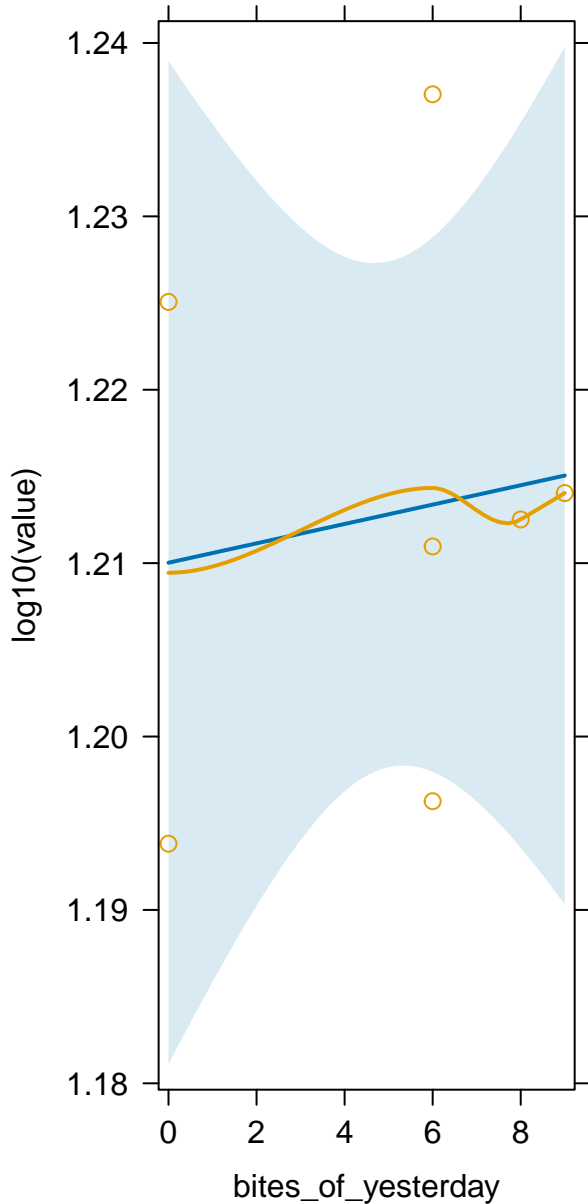
QQ plot residuals



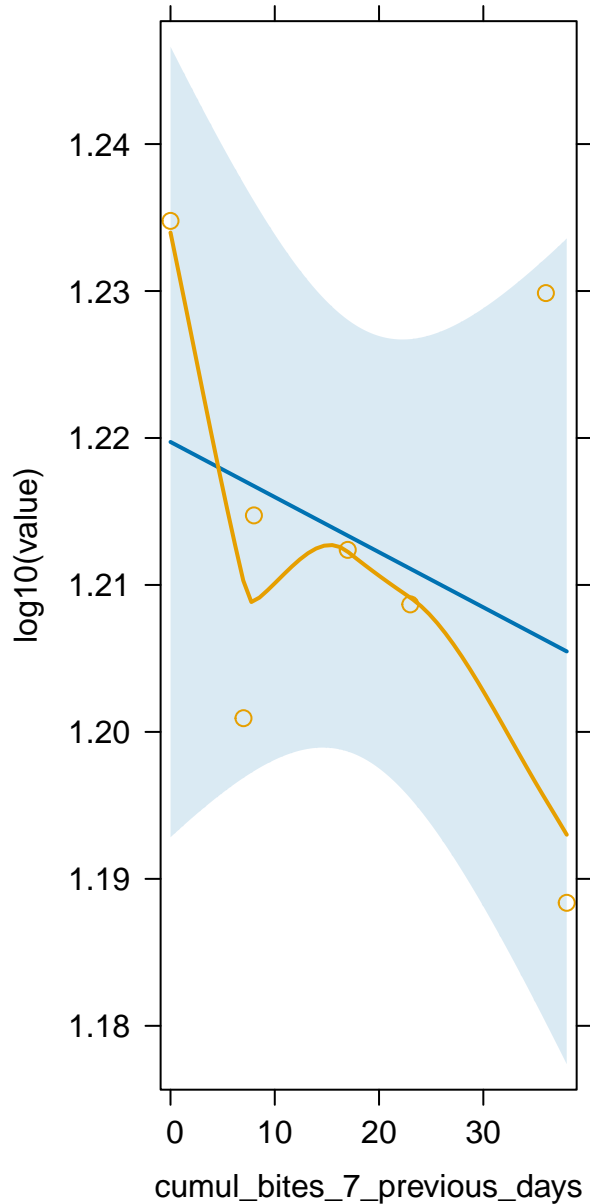
Residual vs. predicted No significant problems detected

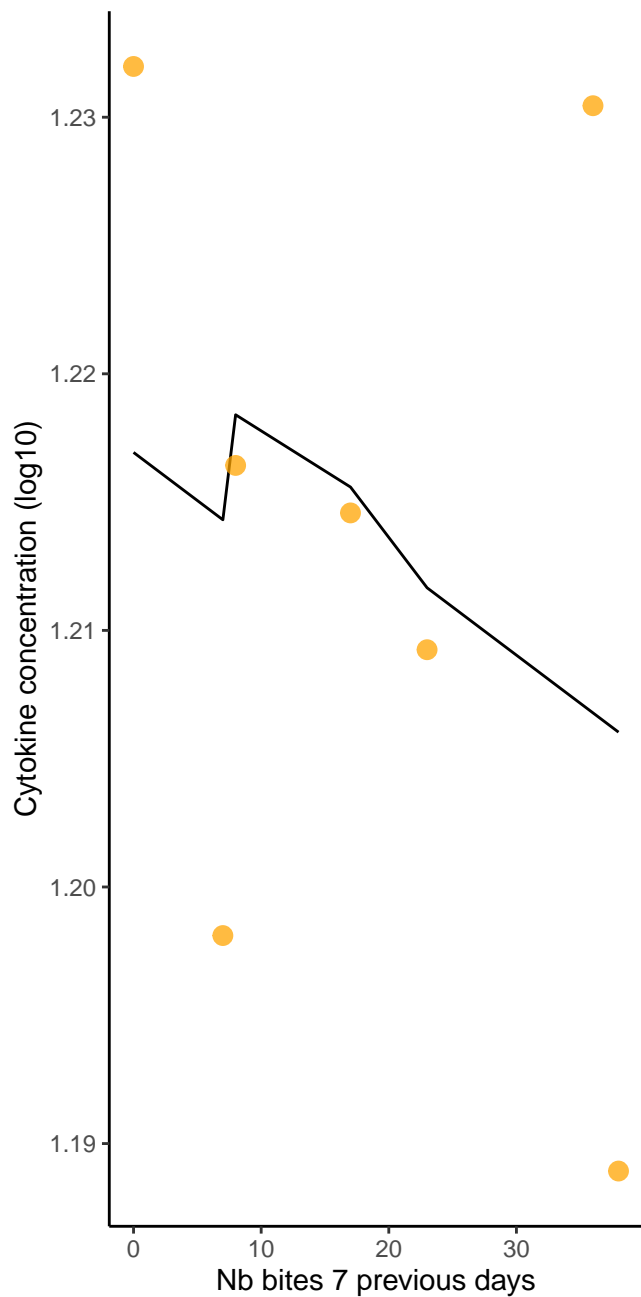
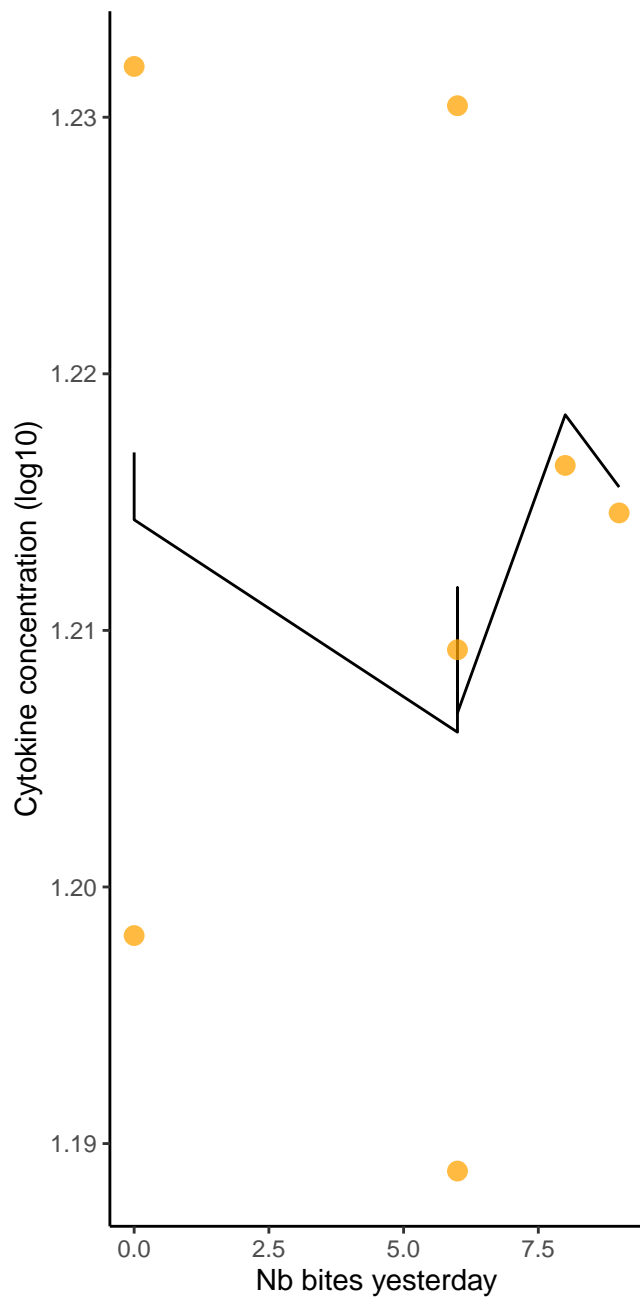


bites_of_yesterday effect plot



cumul_bites_7_previous_days effect plot





Check for Multicollinearity

Low Correlation

Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
bites_of_yesterday	1.31	[1.12, 1.79]	1.14	0.76	[0.56, 0.89]
cumul_bites_7_previous_days	1.31	[1.12, 1.79]	1.14	0.76	[0.56, 0.89]

Family: gaussian (identity)
Formula: log10(value) ~ bites_of_yesterday + cumul_bites_7_previous_days + (1 | ID)
Data: d_cyno

AIC	BIC	logLik	deviance	df.resid
-30.0	-30.3	20.0	-40.0	2

Random effects:

Conditional model:

Groups	Name	Variance	Std.Dev.
ID	(Intercept)	1.625e-09	4.031e-05
	Residual	1.932e-04	1.390e-02

Number of obs: 7, groups: ID, 2

Dispersion estimate for gaussian family (sigma^2): 0.000193

Conditional model:

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	1.2169366	0.0101884	119.44	<2e-16 ***
bites_of_yesterday	0.0005585	0.0017993	0.31	0.756
cumul_bites_7_previous_days	-0.0003751	0.0004418	-0.85	0.396

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
AICc [1] 30.00163
```

Bites in squirrel

Nb excluded (LOD) : 20
Nb remaining: 0

TNF.alpha ERROR : Invalid grouping factor specification, ID

VEGF

Bites in cyno

Nb excluded (LOD) : 36

Nb remaining: 0

VEGF ERROR : Invalid grouping factor specification, ID

Bites in squirrel

Nb excluded (LOD) : 20

Nb remaining: 0

VEGF ERROR : Invalid grouping factor specification, ID