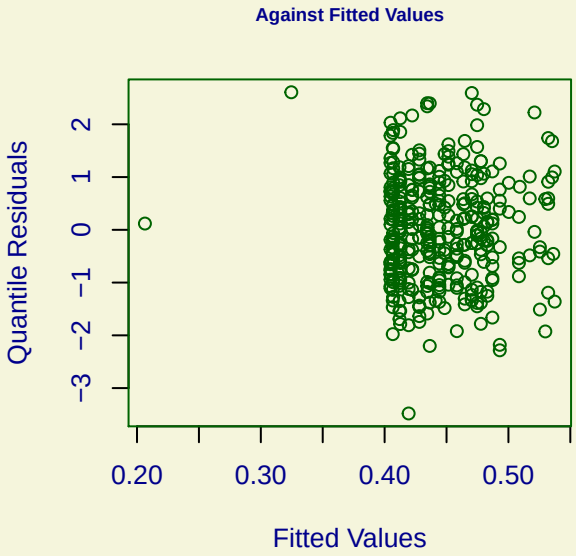
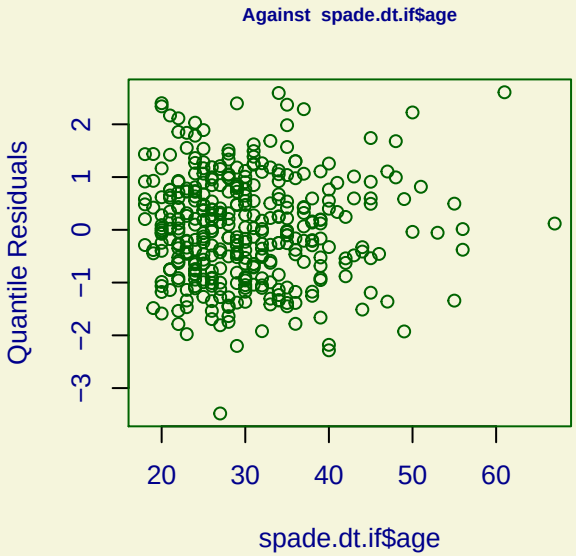
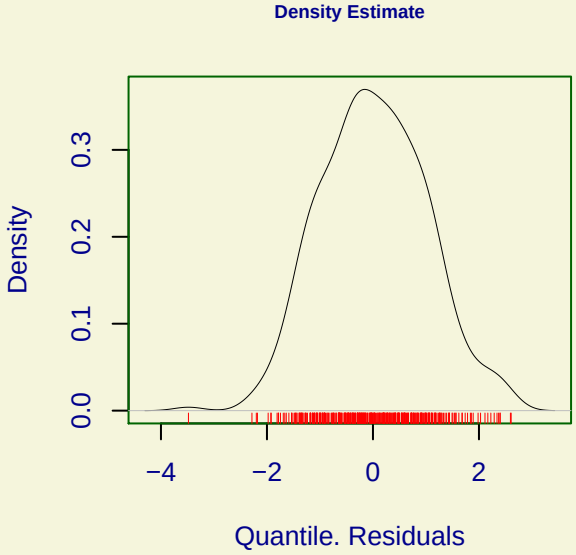
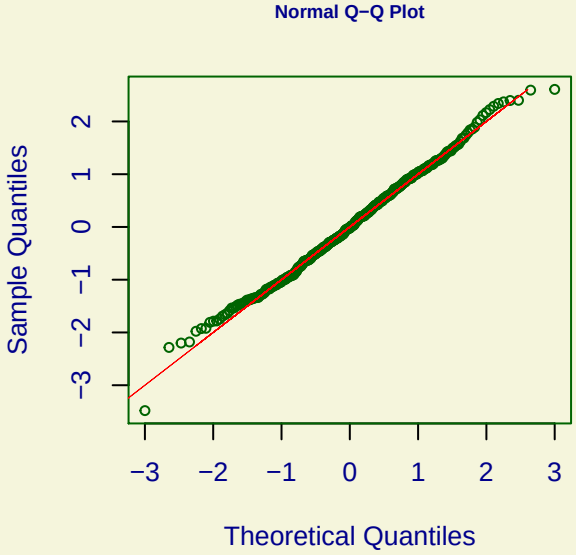
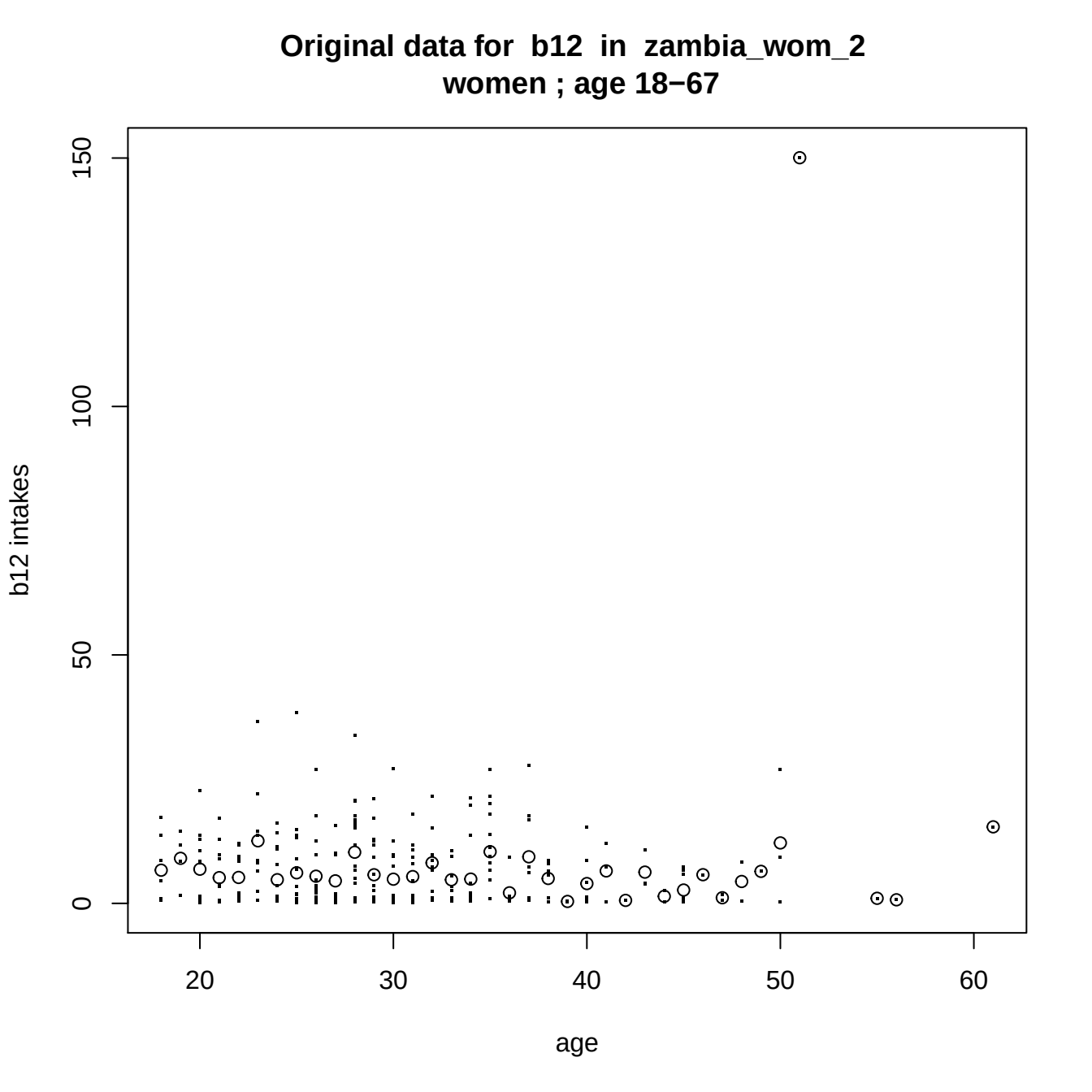
Diagnostic plot for Beta−Binomial model fit of
b12 in zambia_wom_2 women age 18 − 67

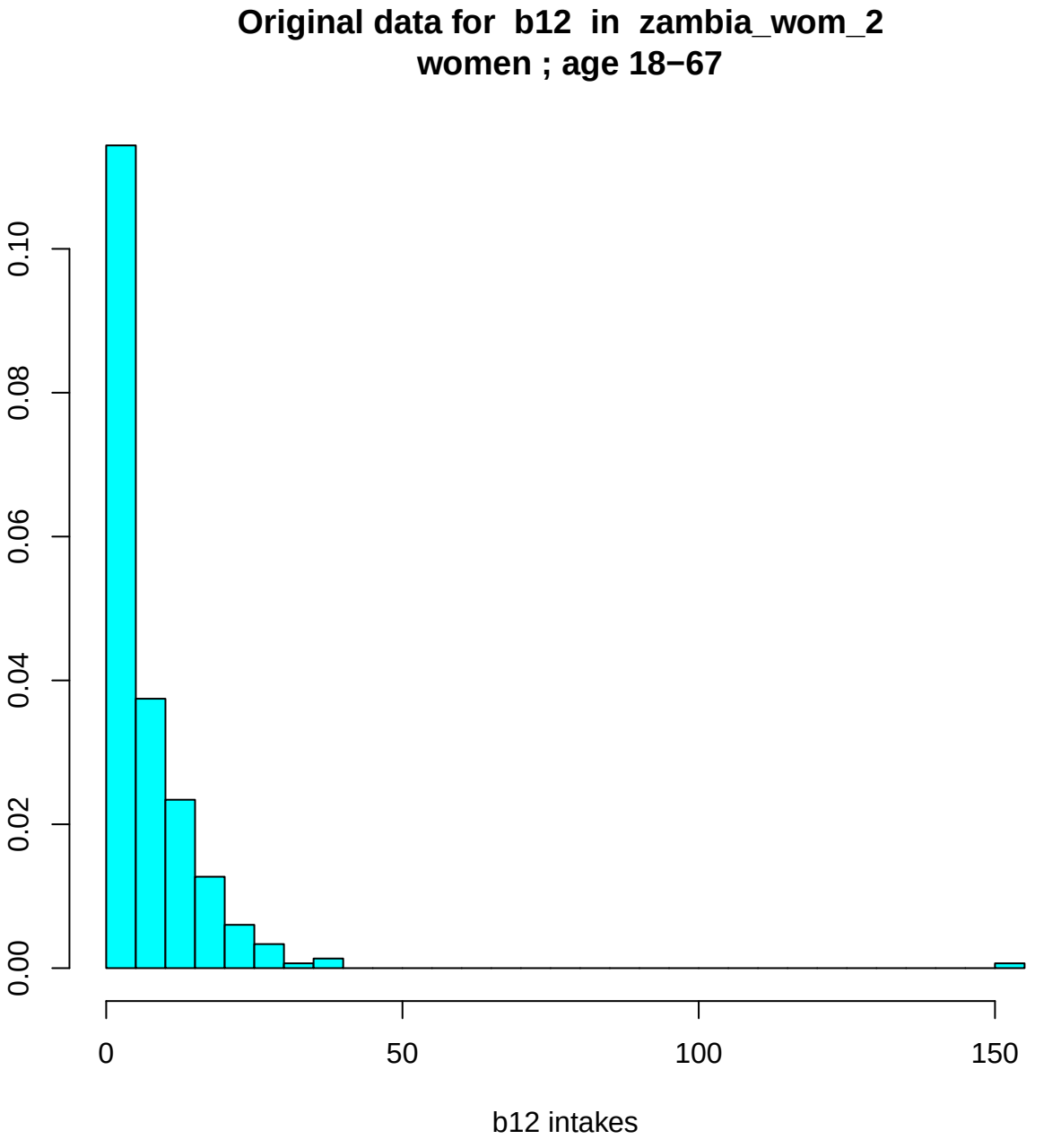


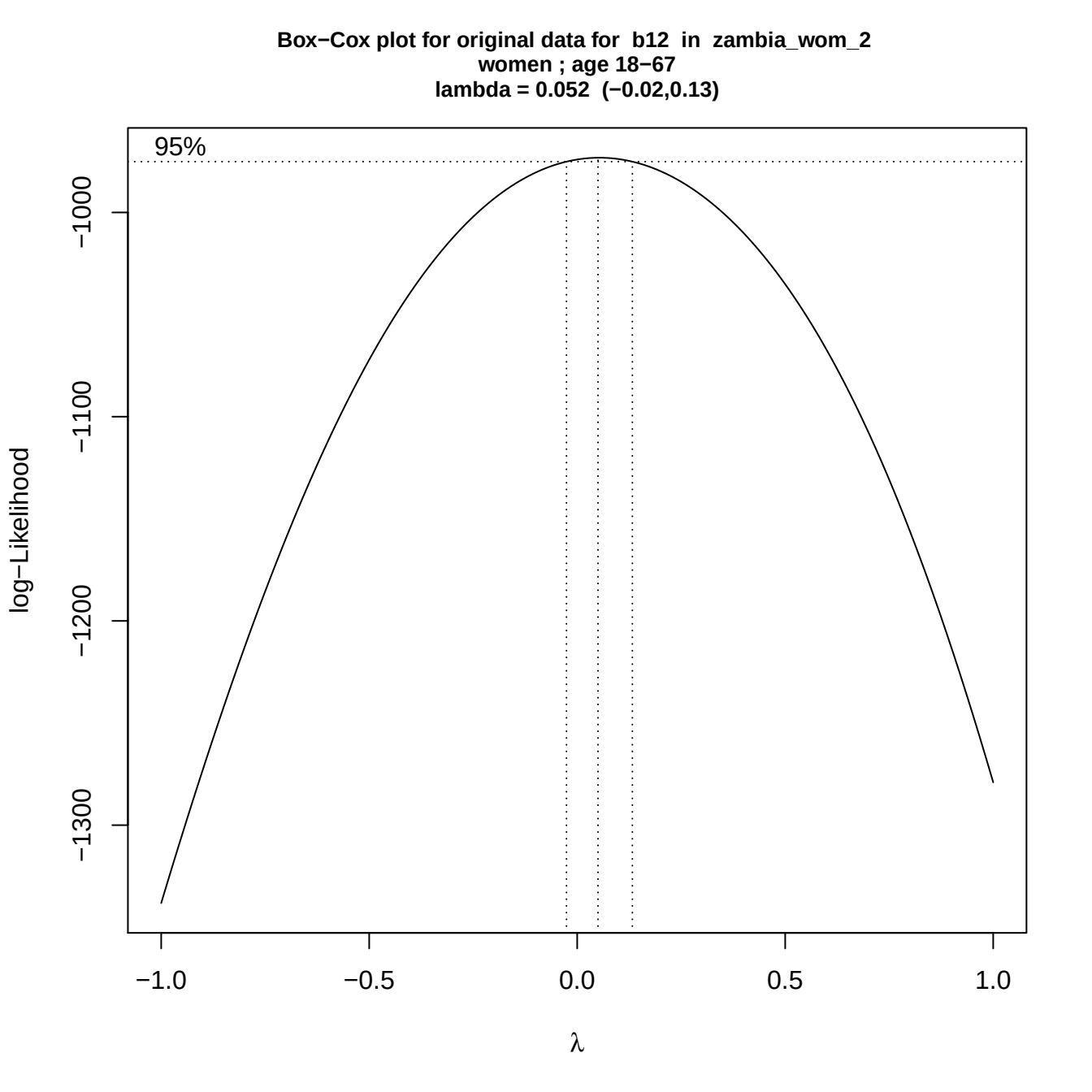




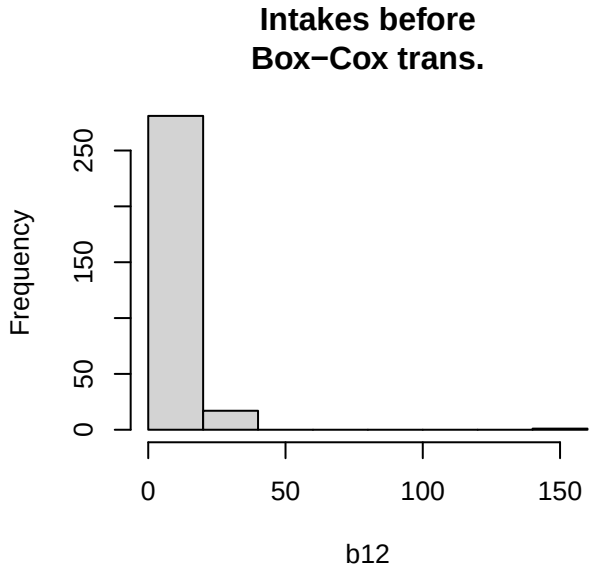


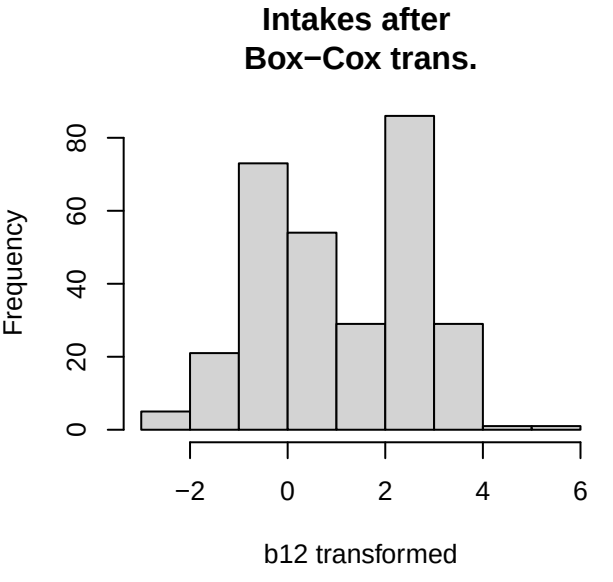

Original data for b12 in zambia_wom_2
women ; age 18−67
b12 intakes
0
50
100
150
20
30
40
50
60
age

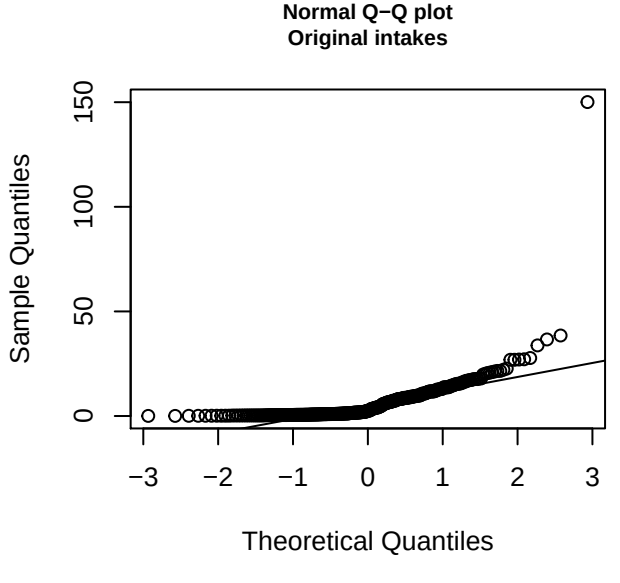

Original data for b12 in zambia_wom_2
women ; age 18−67
0.00
0.02
0.04
0.06
0.08
0.10
0
50
100
150
b12 intakes

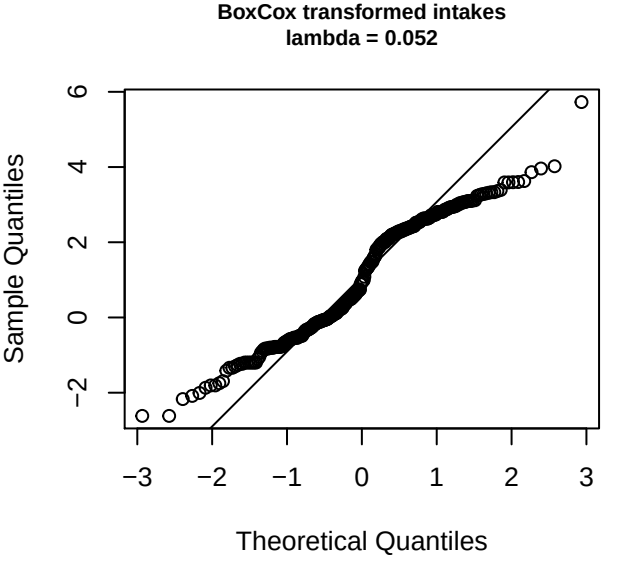

Box−Cox plot for original data for b12 in zambia_wom_2
women ; age 18−67
lambda = 0.052 (−0.02,0.13)
95%
log−Likelihood
−1000
−1100
−1200
−1300
−1.0
−0.5
0.0
0.5
1.0
λ

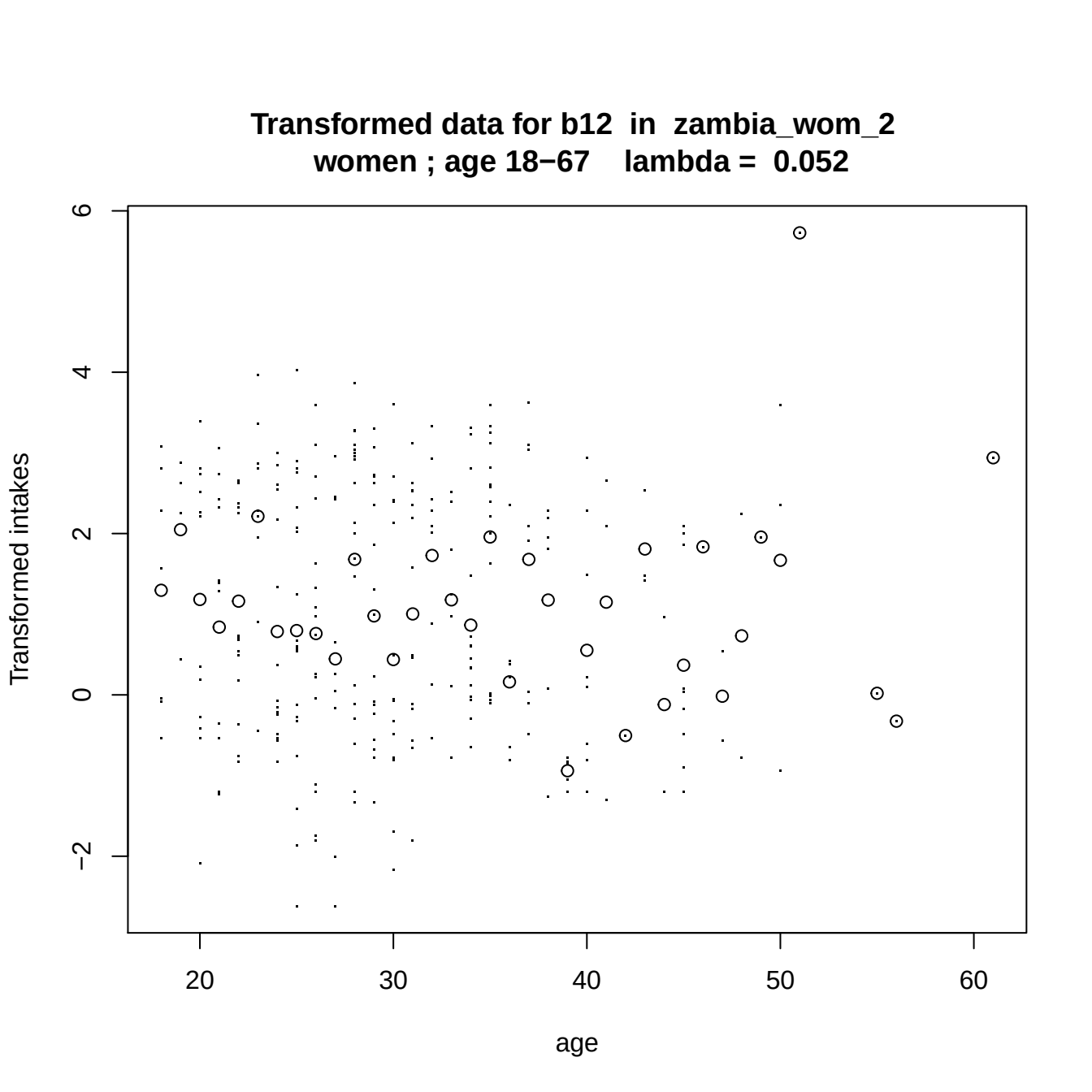
Diagnostic plots for b12 in zambia_wom_2
women ; age 18−67

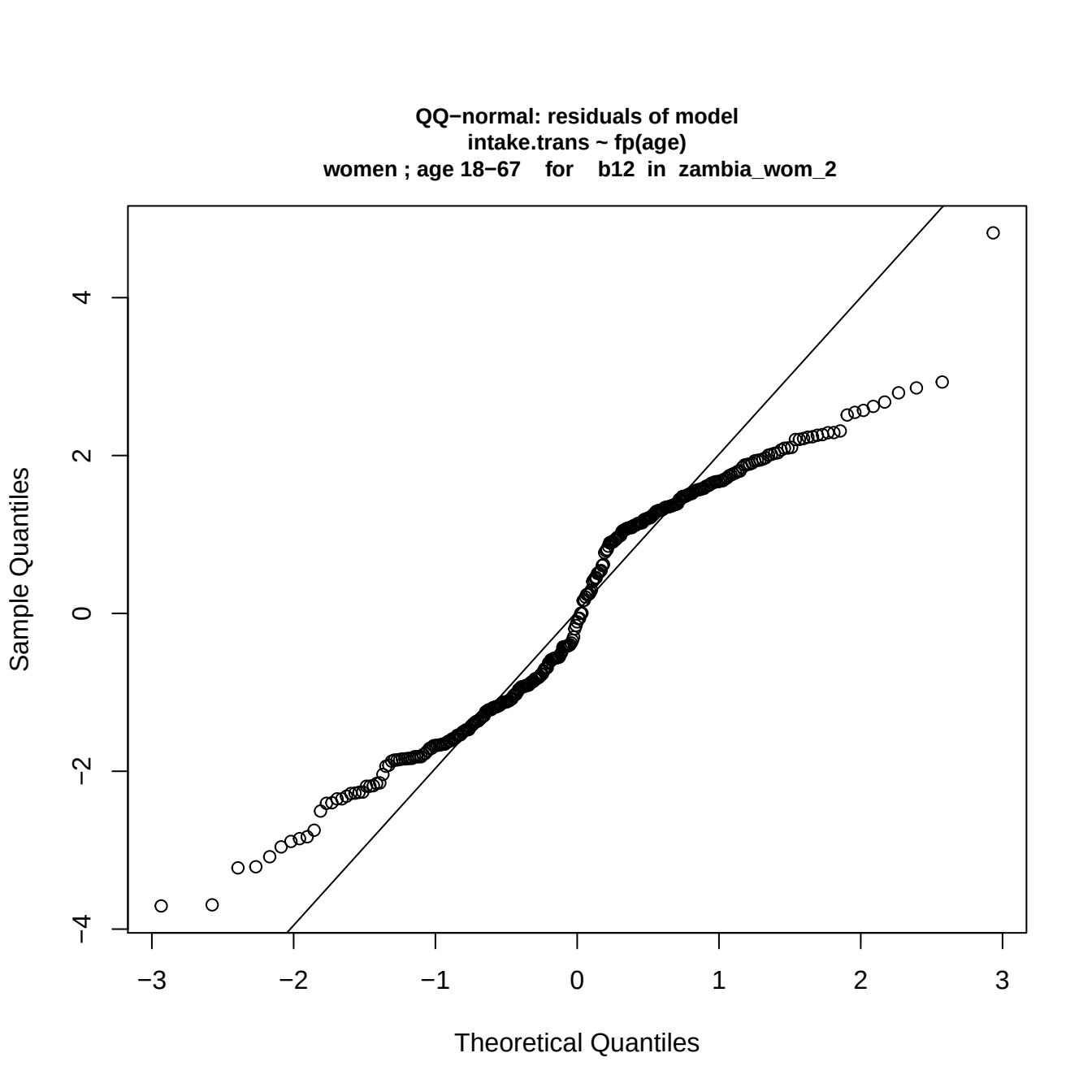


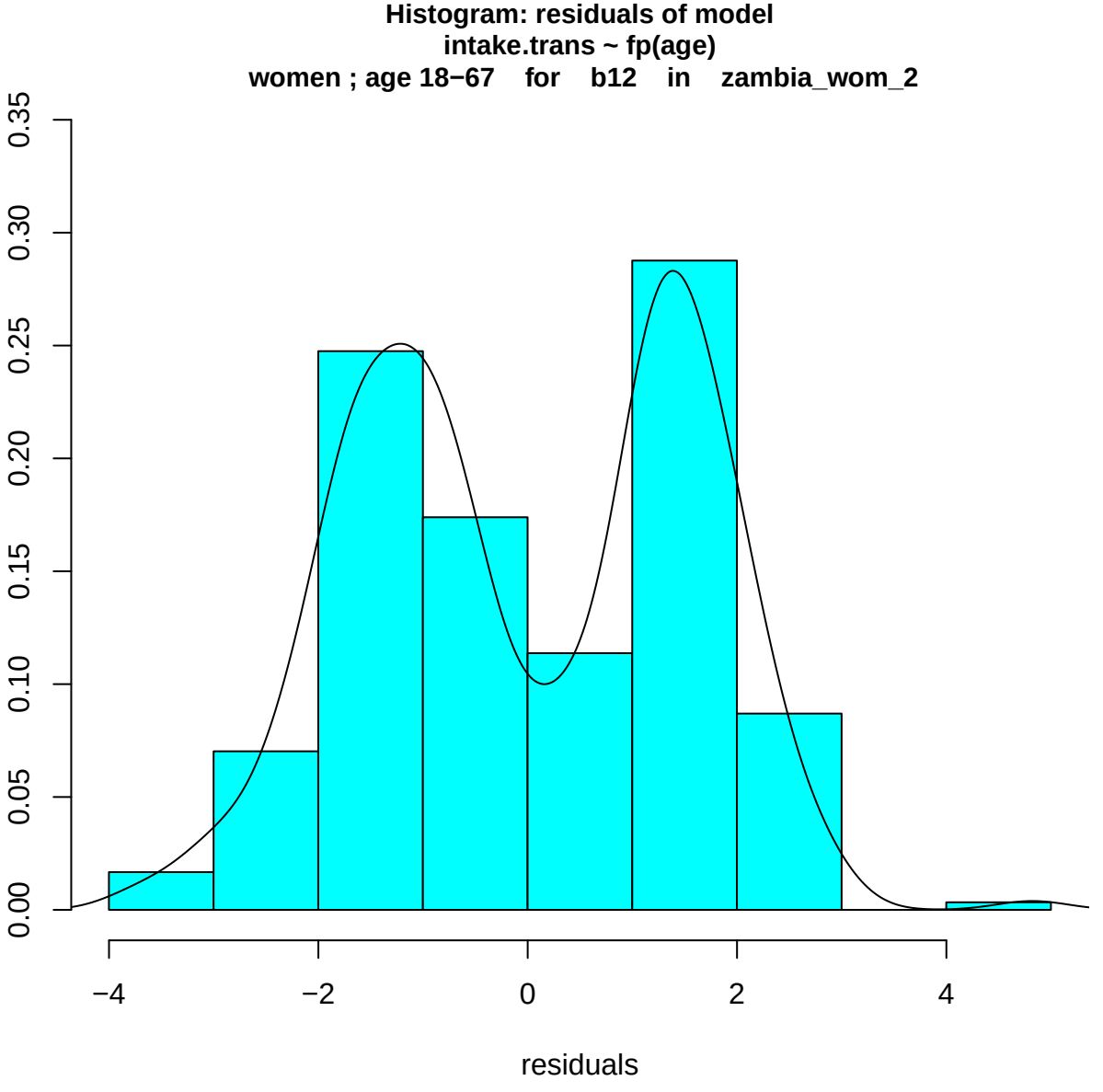


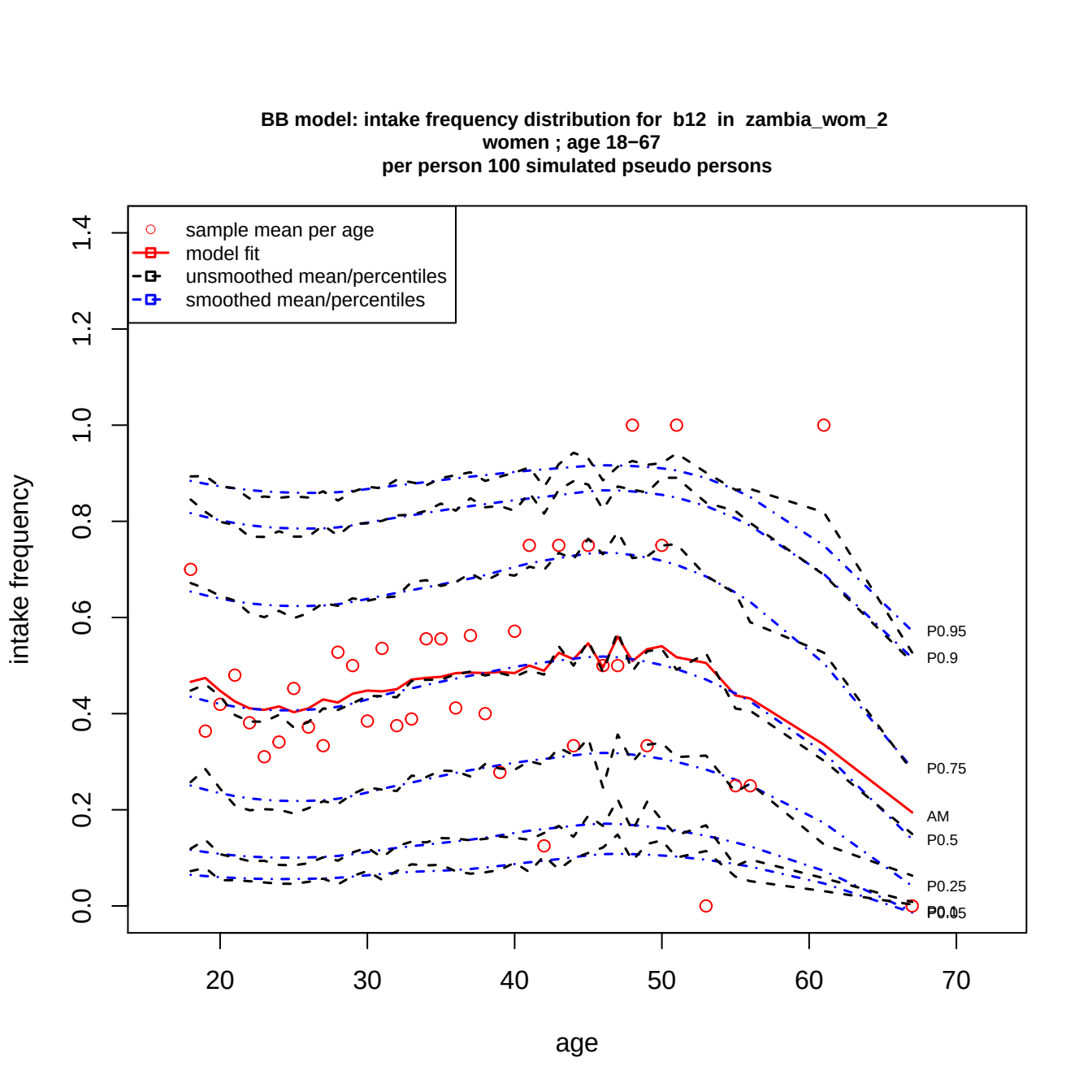


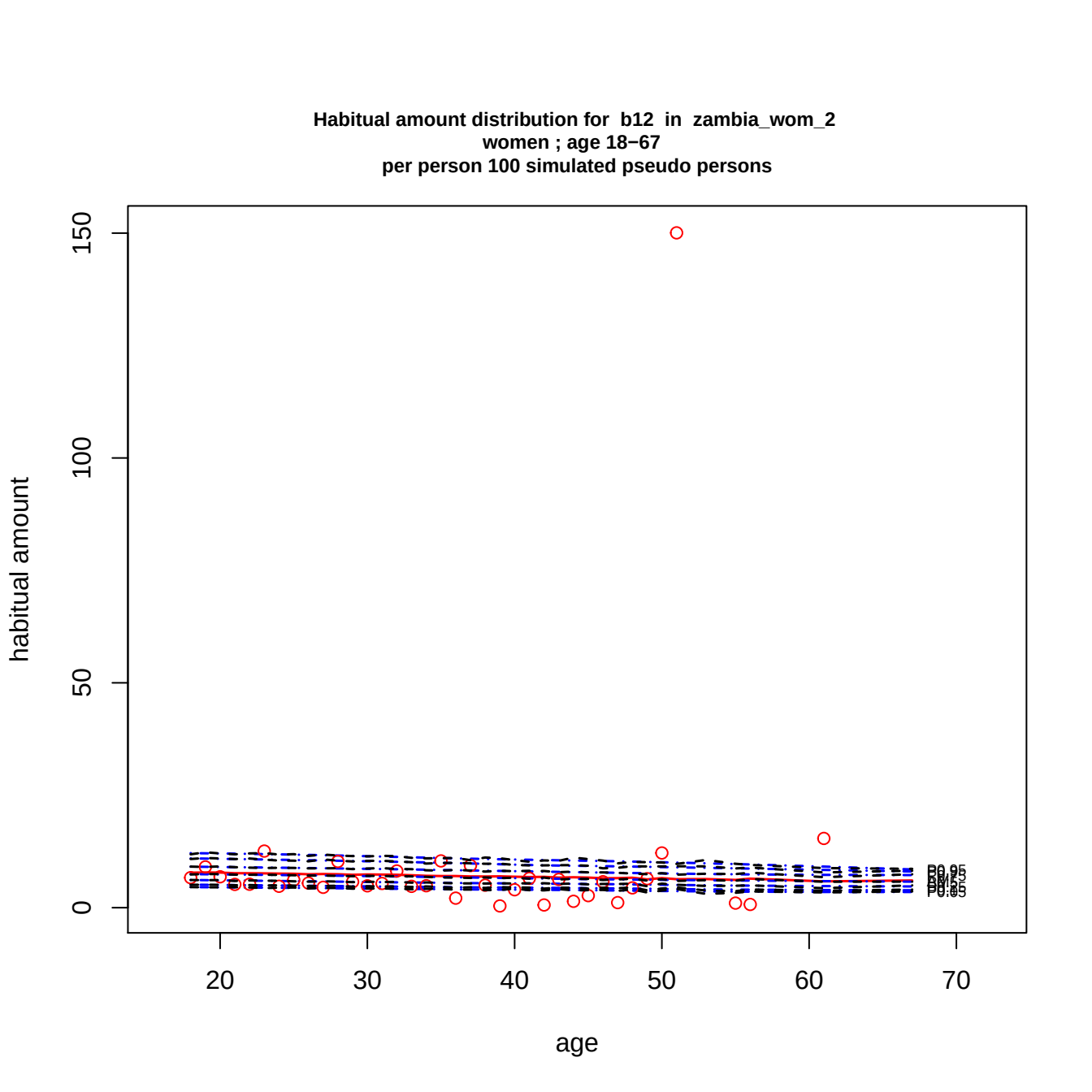


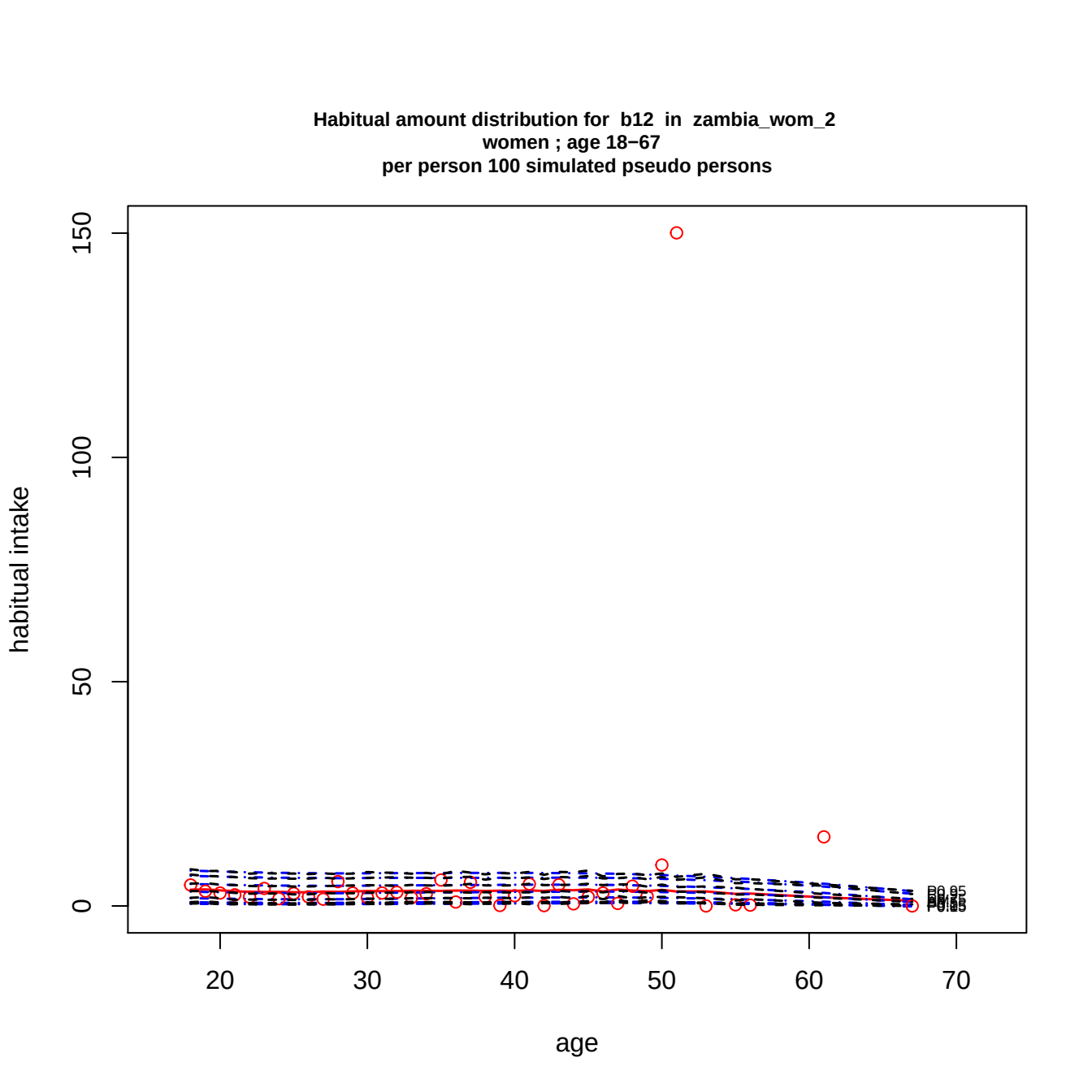

Transformed data for b12 in zambia_wom_2
women ; age 18−67 lambda = 0.052
Transformed intakes
6
4
2
0
−2
20
30
40
50
60
age


QQ−normal: residuals of model
intake.trans ~ fp(age)
women ; age 18−67 for b12 in zambia_wom_2
Sample Quantiles
Theoretical Quantiles
−4
−2
0
2
4
−3
−2
−1
0
1
2
3


Histogram: residuals of model
intake.trans ~ fp(age)
women ; age 18−67 for b12 in zambia_wom_2
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
−4
−2
0
2
4
residuals


BB model: intake frequency distribution for b12 in zambia_wom_2
women ; age 18−67
per person 100 simulated pseudo persons
sample mean per age
model fit
unsmoothed mean/percentiles
smoothed mean/percentiles
intake frequency
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
20
30
40
50
60
70
age
P0.95
P0.9
P0.75
AM
P0.5
P0.25
P0.05
P0.0


Habitual amount distribution for b12 in zambia_wom_2
women ; age 18−67
per person 100 simulated pseudo persons
habitual amount
0
50
100
150
20
30
40
50
60
70
age
P0.95
P0.75
P0.5
P0.25
P0.05


Habitual amount distribution for b12 in zambia_wom_2
women ; age 18−67
per person 100 simulated pseudo persons
habitual intake
0
50
100
150
20
30
40
50
60
70
age
P0.95