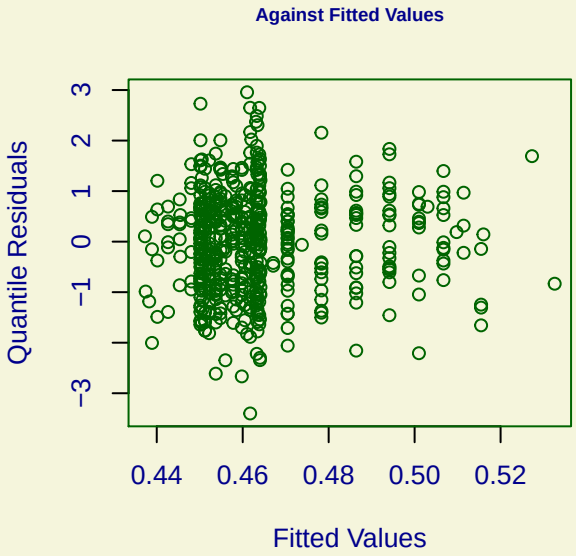
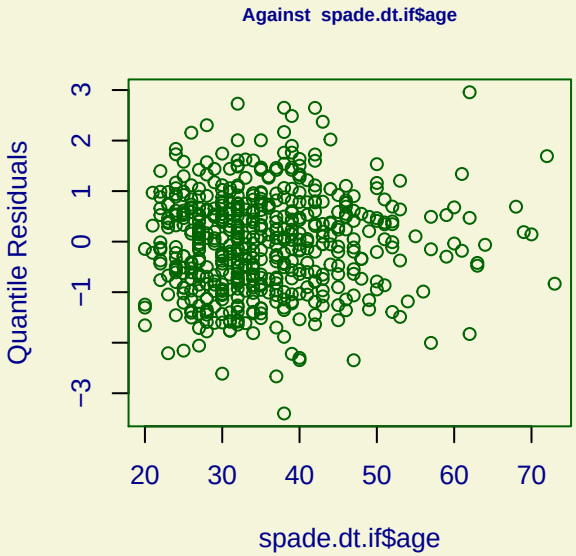
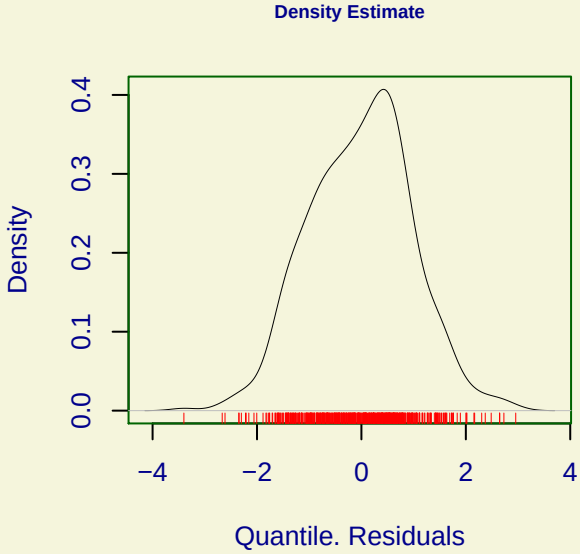
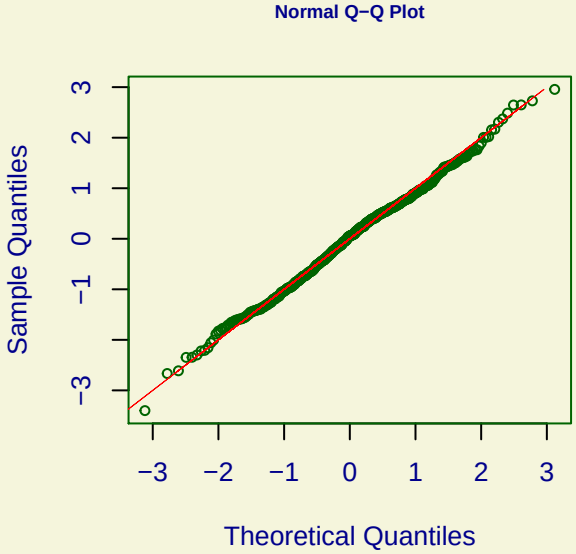
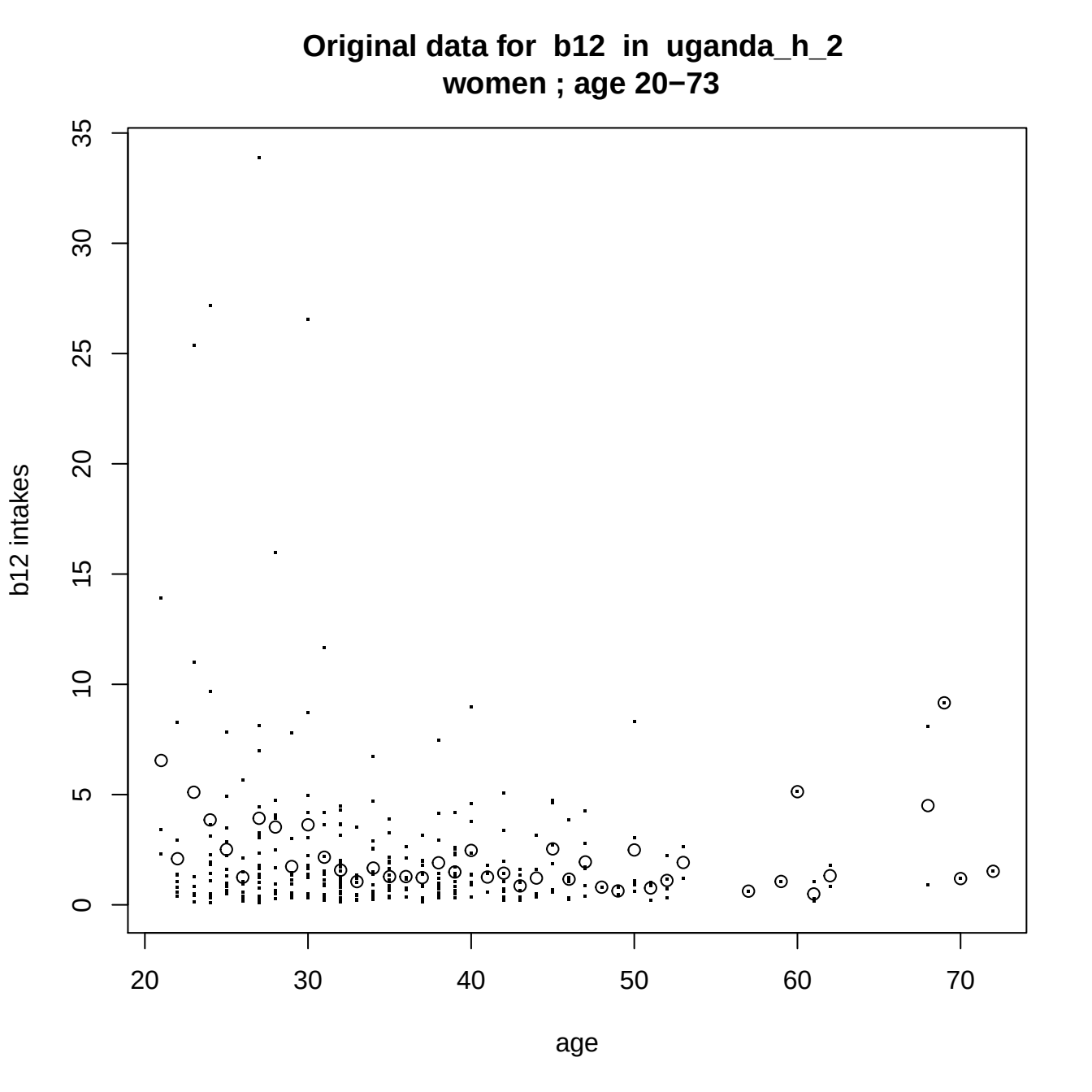
Diagnostic plot for Beta−Binomial model fit of
b12 in uganda_h_2 women age 20 − 73

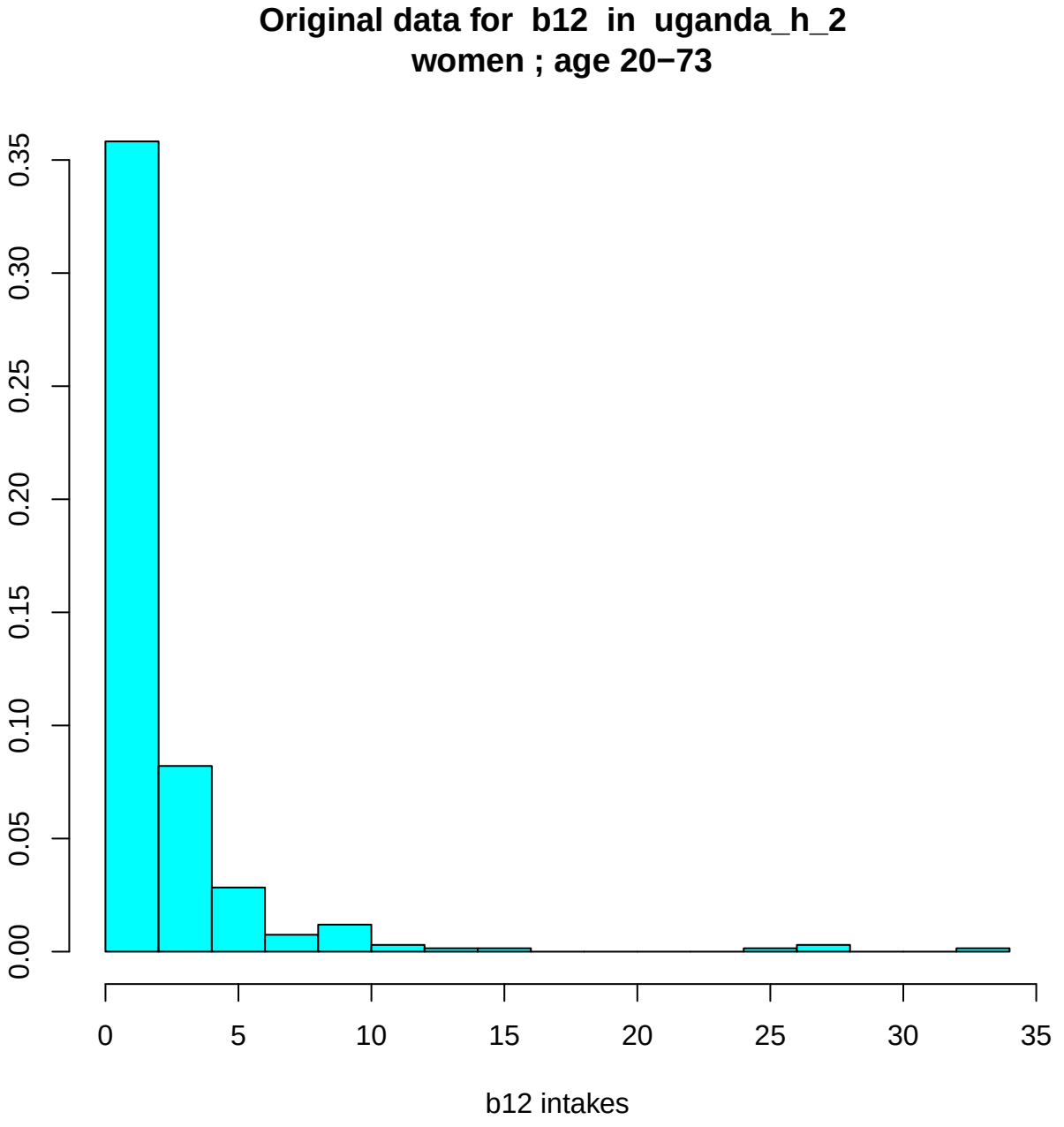


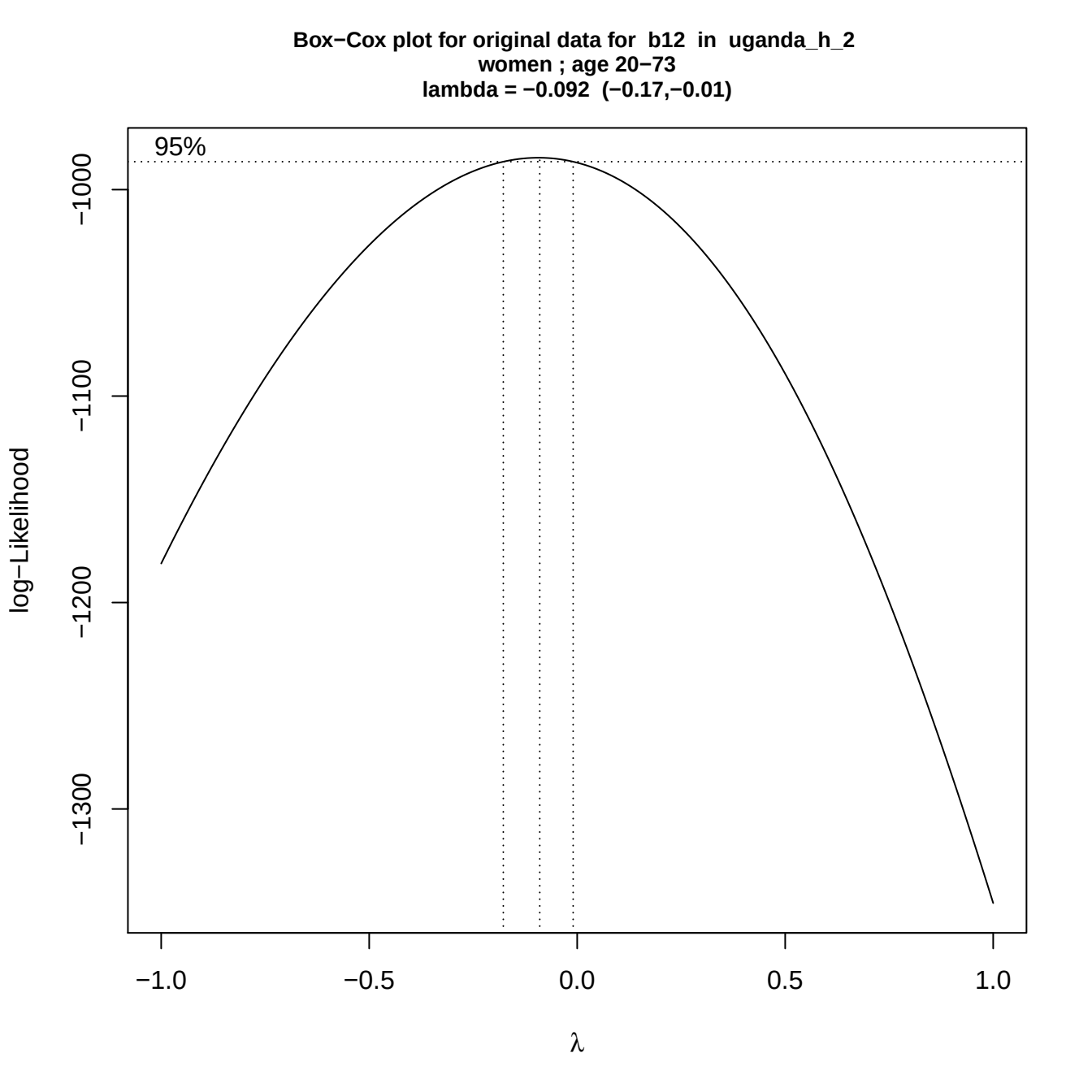




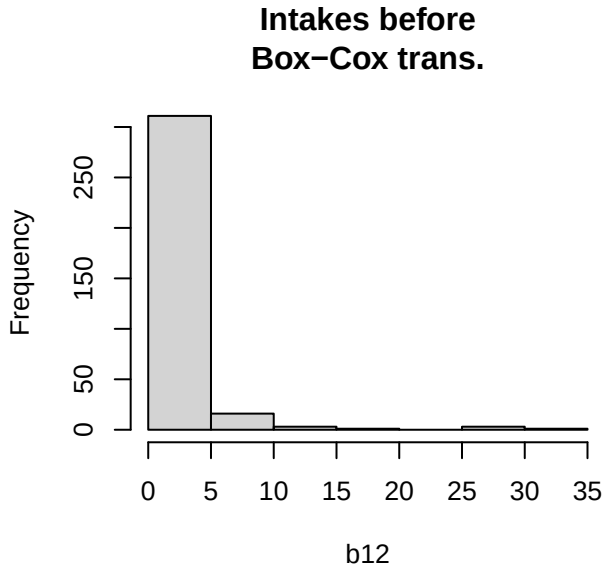


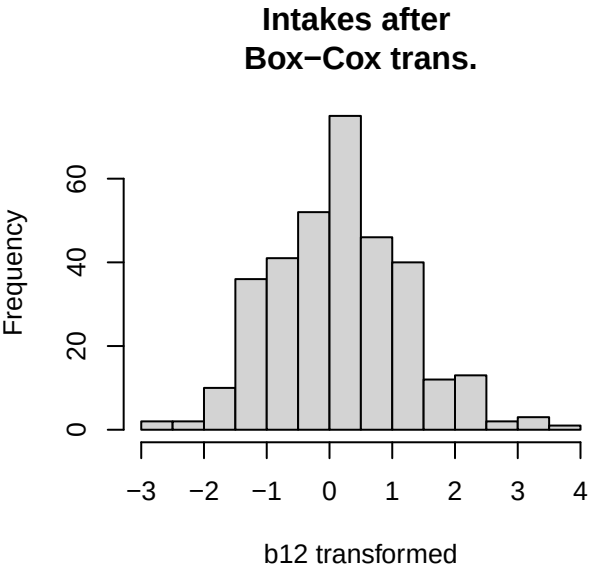

Original data for b12 in uganda_h_2
women ; age 20−73
b12 intakes
0
5
10
15
20
25
30
35
20
30
40
50
60
70
age

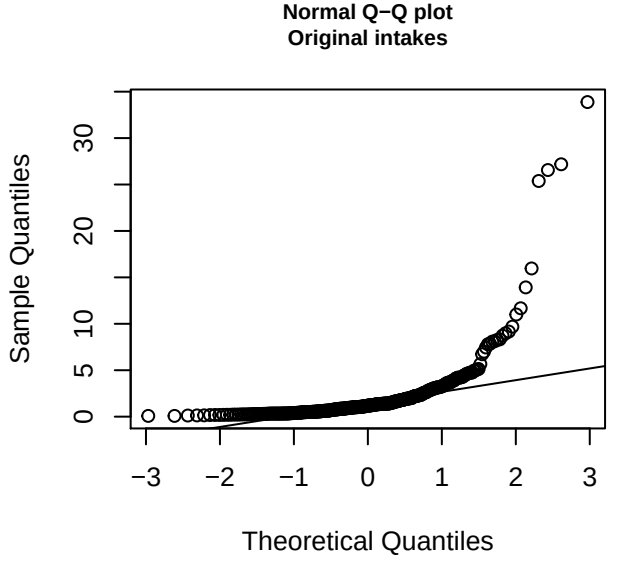

Original data for b12 in uganda_h_2
women ; age 20−73
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0
5
10
15
20
25
30
35
b12 intakes

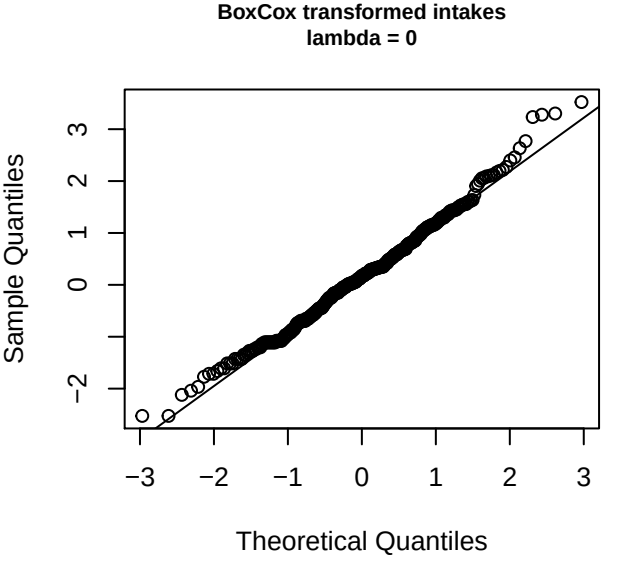

Box−Cox plot for original data for b12 in uganda_h_2
women ; age 20−73
lambda = −0.092 (−0.17,−0.01)
95%
log−Likelihood
−1000
−1100
−1200
−1300
−1.0
−0.5
0.0
0.5
1.0
λ

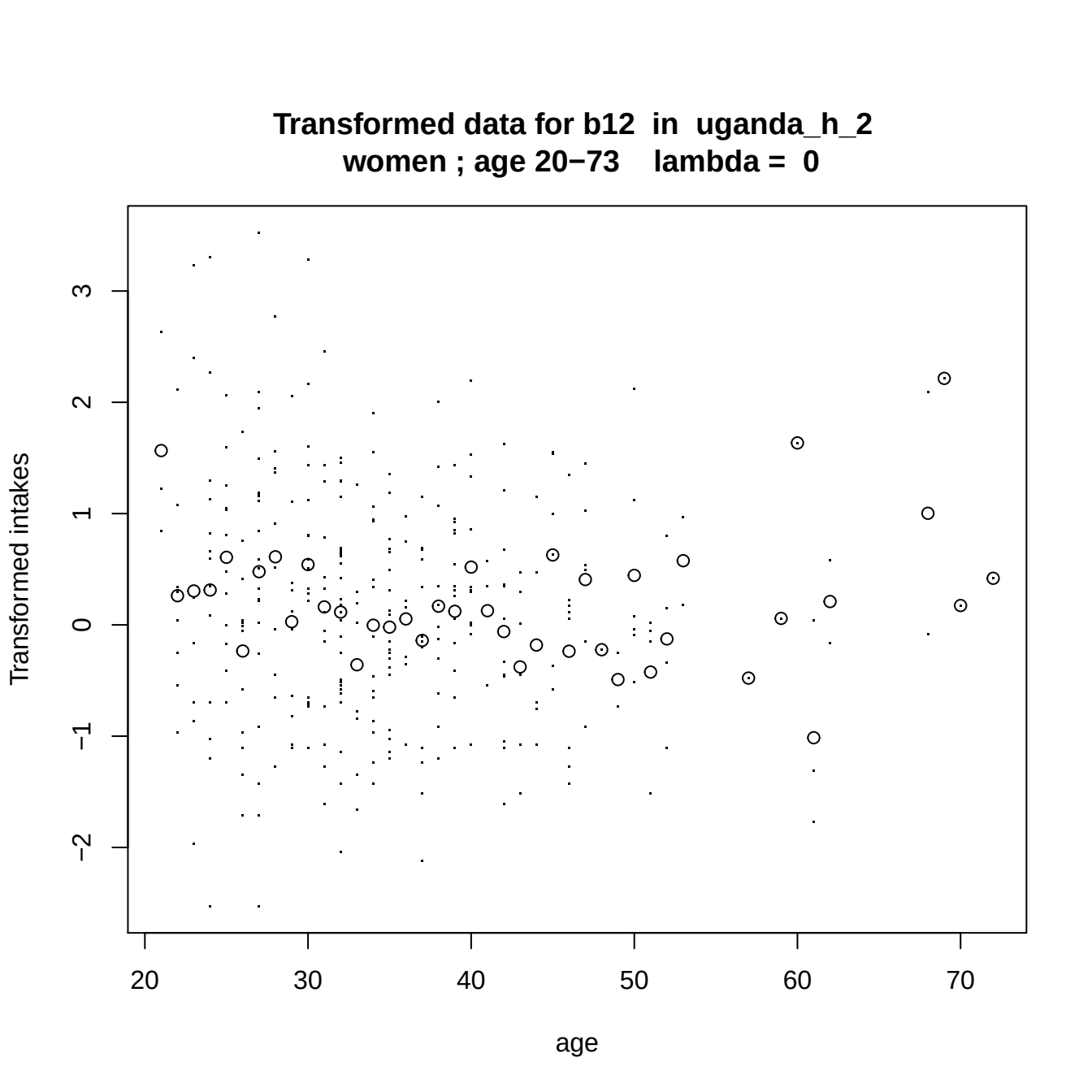
Diagnostic plots for b12 in uganda_h_2
women ; age 20−73

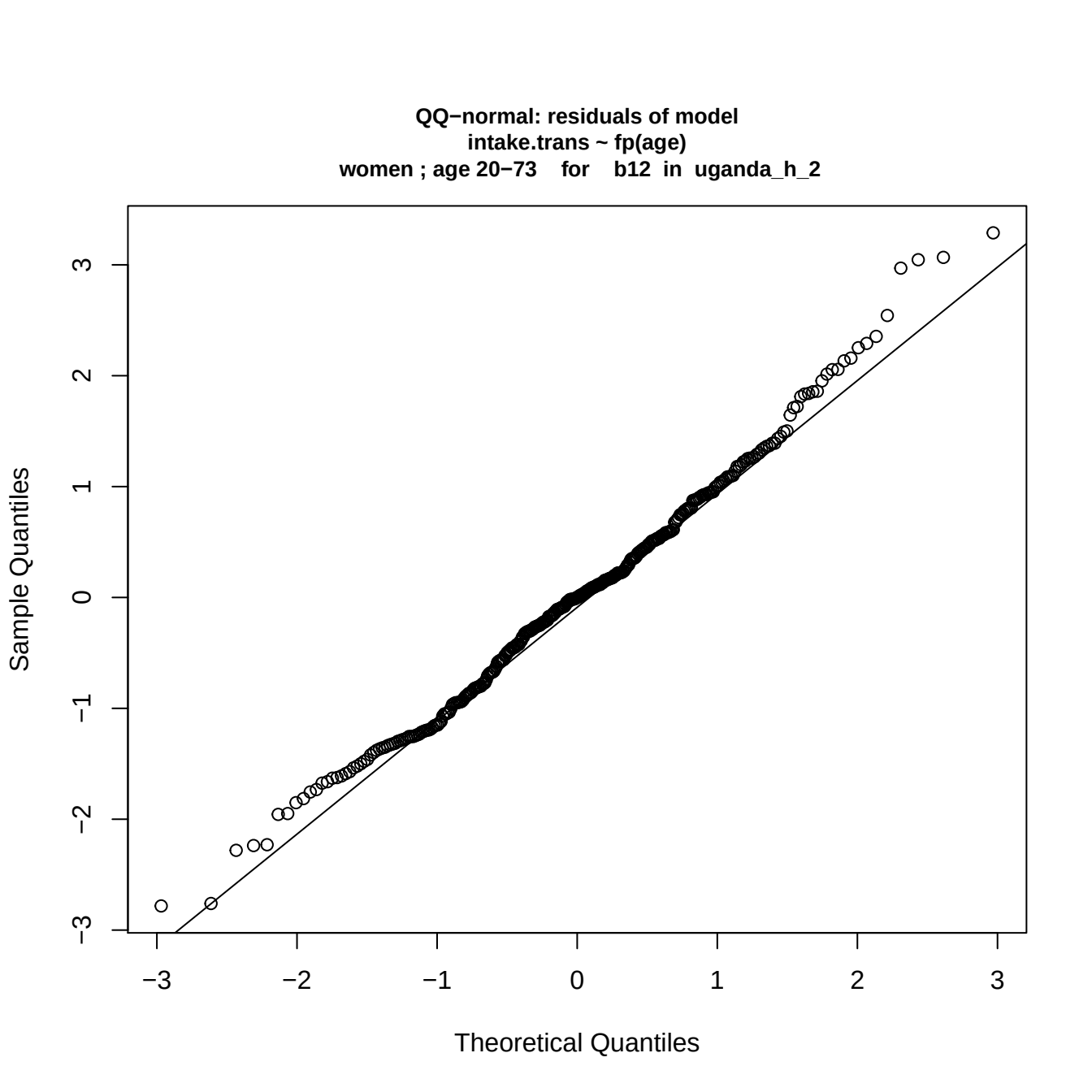


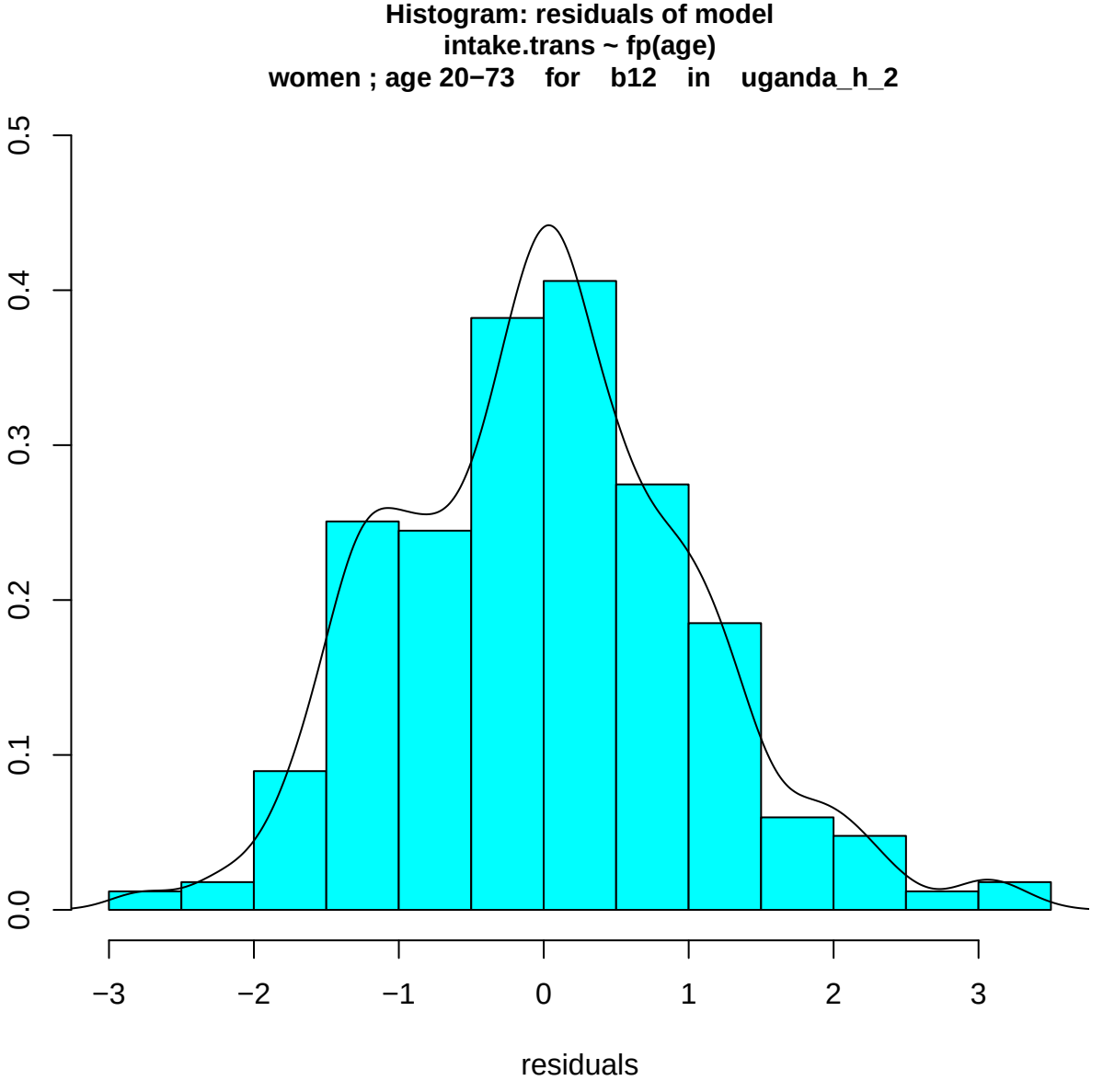


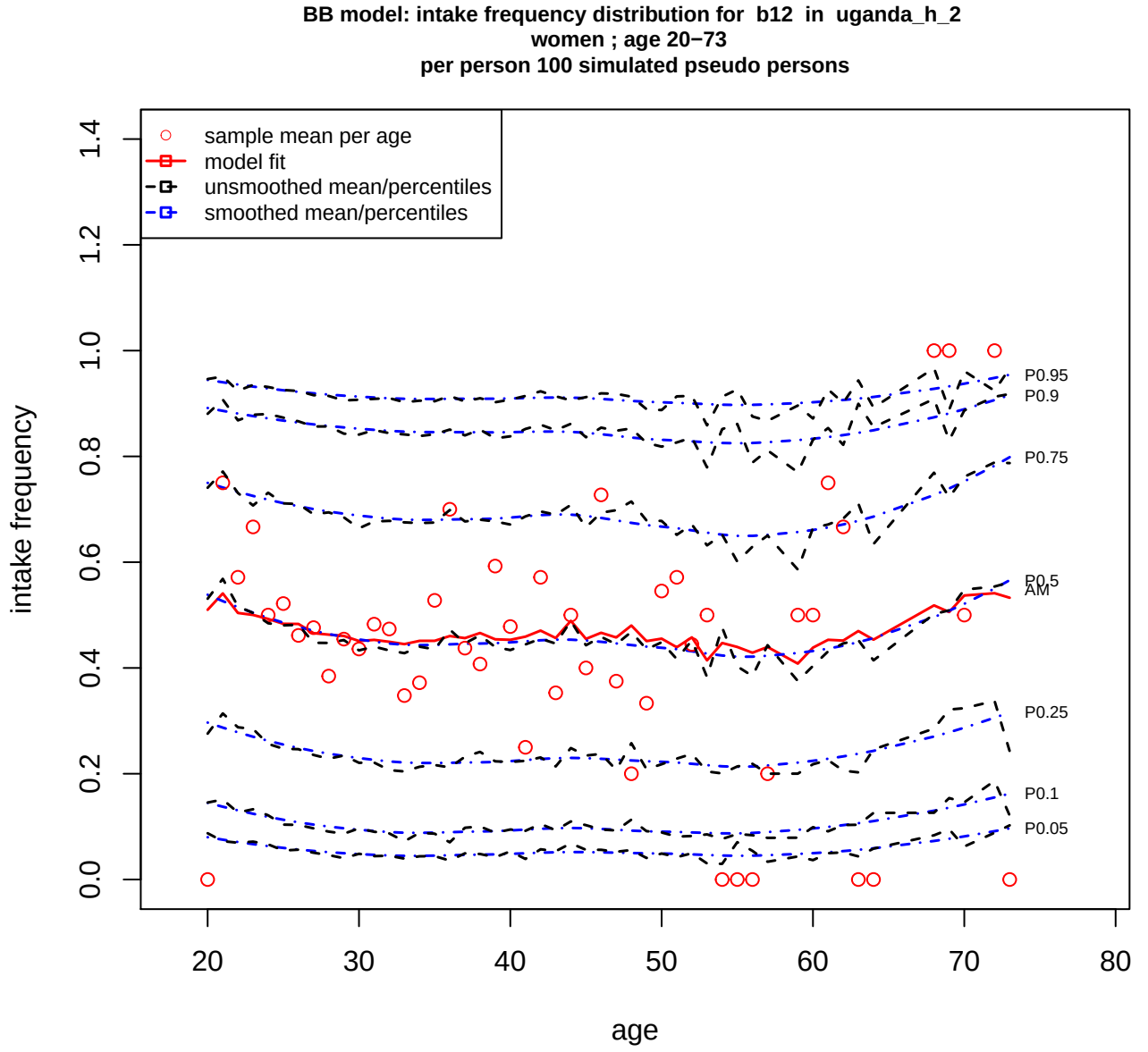


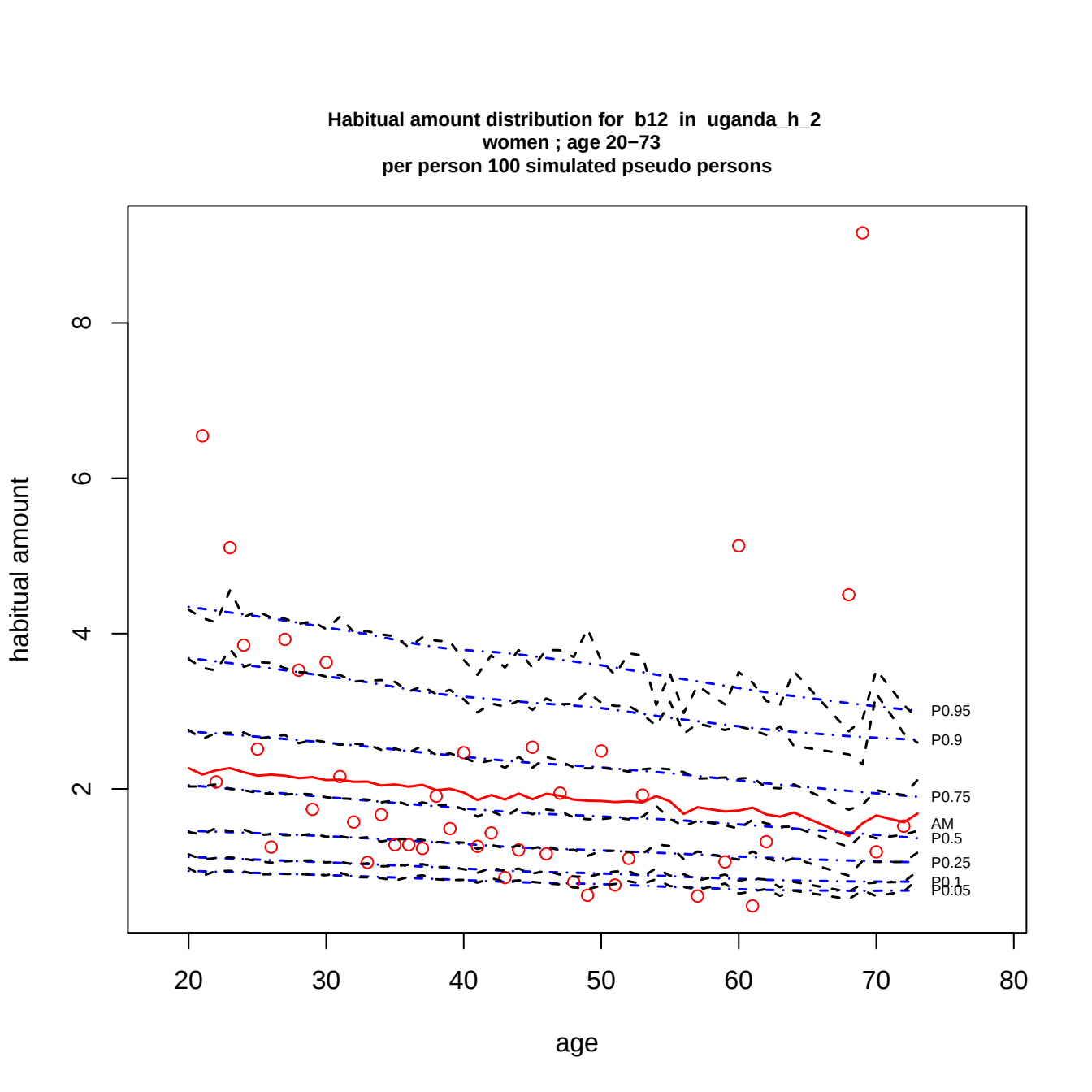


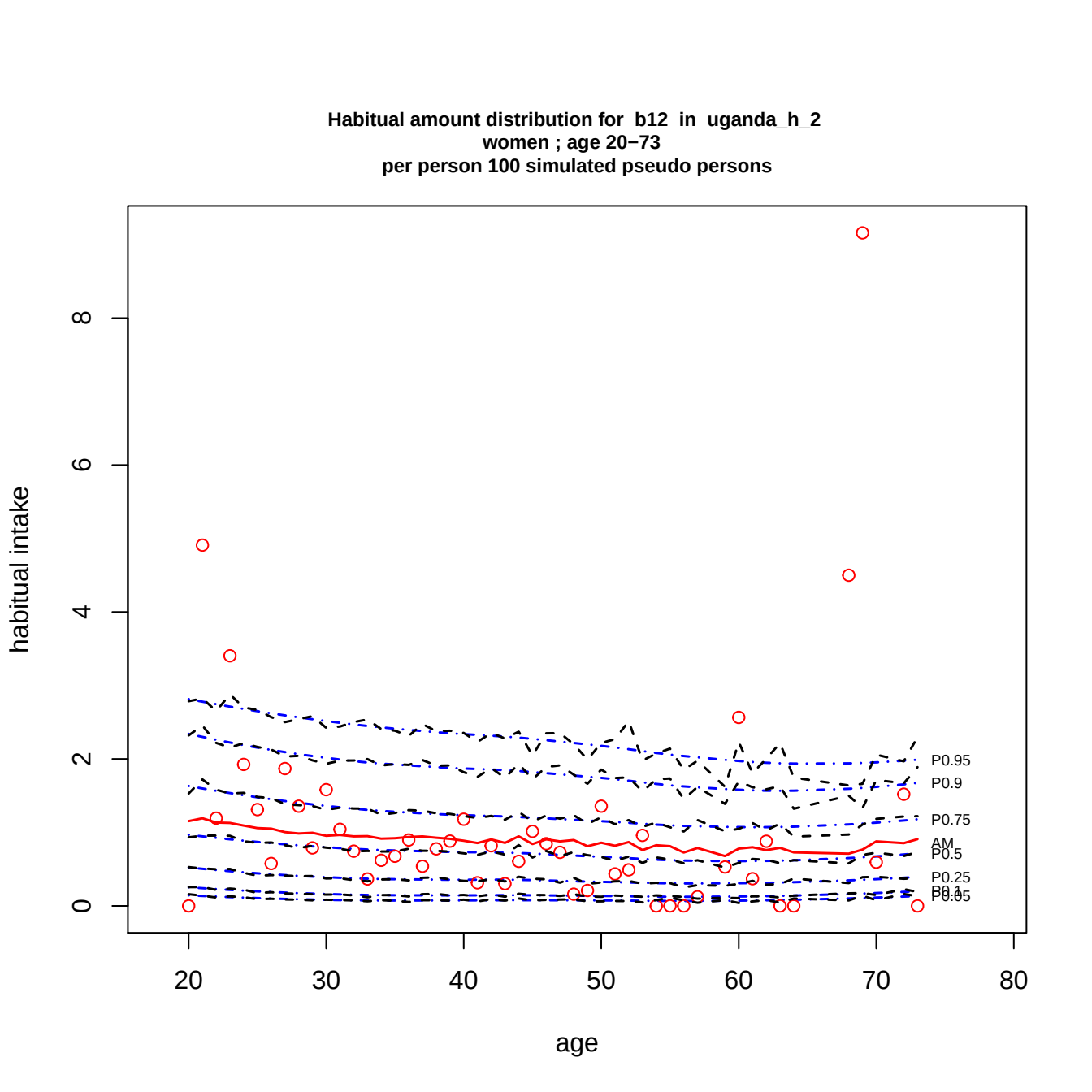

Transformed data for b12 in uganda_h_2
women ; age 20−73 lambda = 0
Transformed intakes
3
2
1
0
−1
−2
20
30
40
50
60
70
age

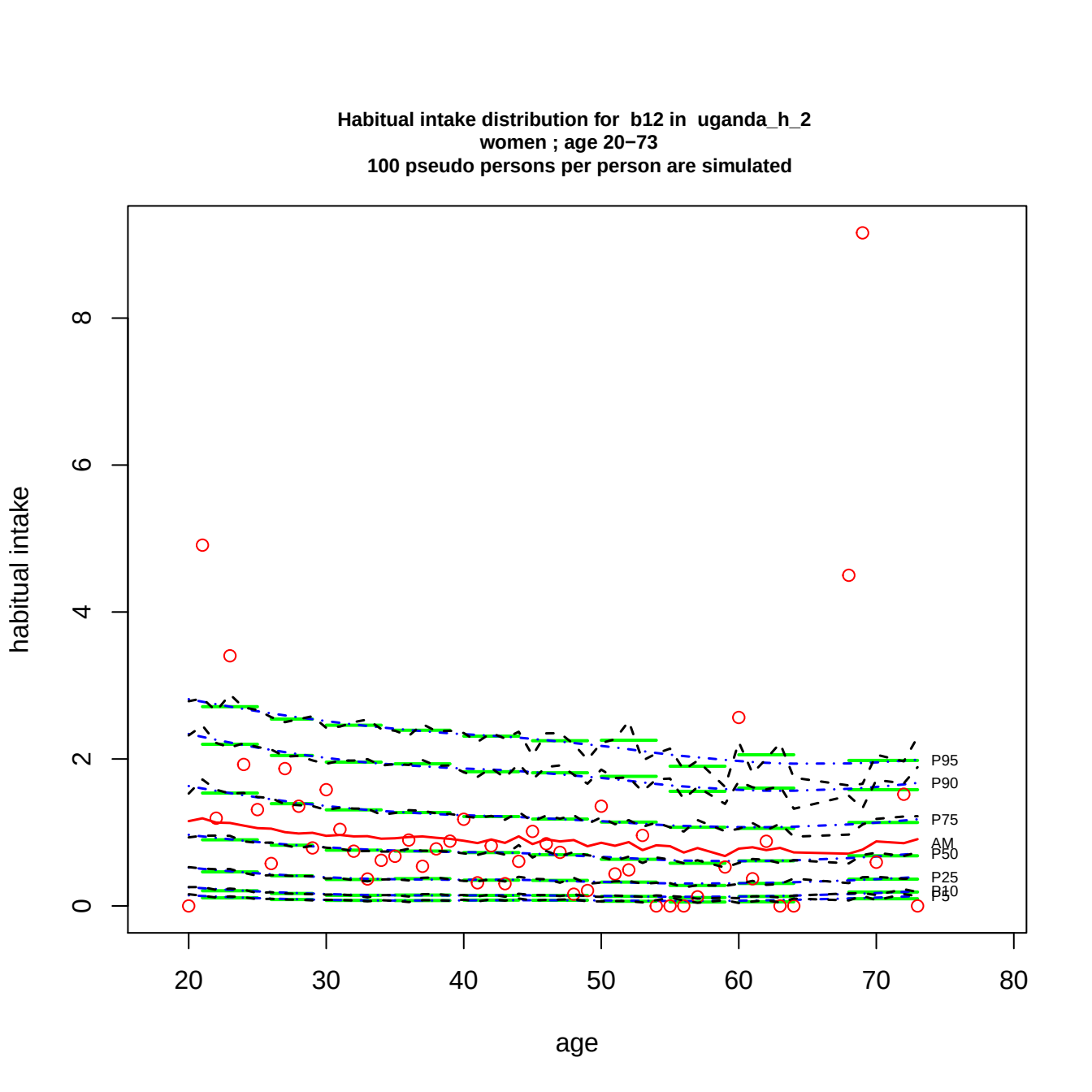

QQ−normal: residuals of model
intake.trans ~ fp(age)
women ; age 20−73 for b12 in uganda_h_2
Sample Quantiles
Theoretical Quantiles
−3
−2
−1
0
1
2
3


Histogram: residuals of model
intake.trans ~ fp(age)
women ; age 20−73 for b12 in uganda_h_2
0.0
0.1
0.2
0.3
0.4
0.5
−3
−2
−1
0
1
2
3
residuals


BB model: intake frequency distribution for b12 in uganda_h_2
women ; age 20−73
per person 100 simulated pseudo persons
sample mean per age
model fit
unsmoothed mean/percentiles
smoothed mean/percentiles
P0.95
P0.9
P0.75
P0.5
AM
P0.25
P0.1
P0.05
intake frequency
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
20
30
40
50
60
70
80
age


Habitual amount distribution for b12 in uganda_h_2
women ; age 20−73
per person 100 simulated pseudo persons
habitual amount
2
4
6
8
20
30
40
50
60
70
80
age
P0.95
P0.9
P0.75
AM
P0.5
P0.25
P0.1
P0.05


Habitual amount distribution for b12 in uganda_h_2
women ; age 20−73
per person 100 simulated pseudo persons
habitual intake
0
2
4
6
8
20
30
40
50
60
70
80
age
P0.95
P0.9
P0.75
AM
P0.5
P0.25
P0.1
P0.05


Habitual intake distribution for b12 in uganda_h_2
women ; age 20−73
100 pseudo persons per person are simulated
habitual intake
0
2
4
6
8
20
30
40
50
60
70
80
age
P95
P90
P75
AM
P50
P25
P10
P5