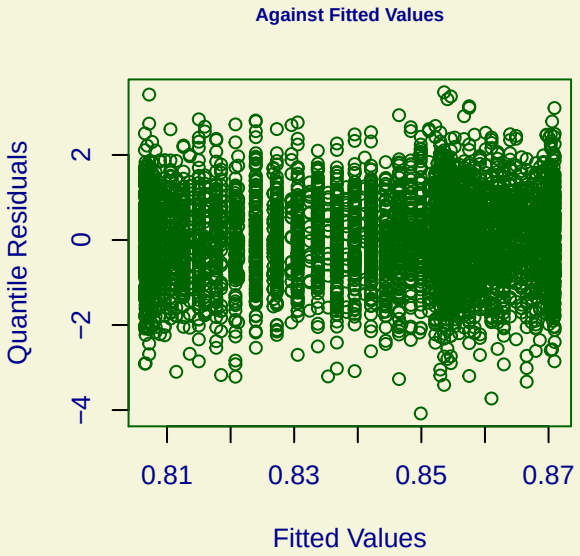
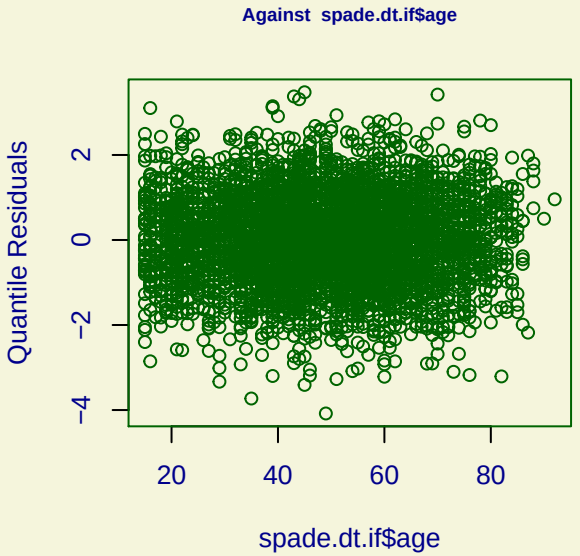
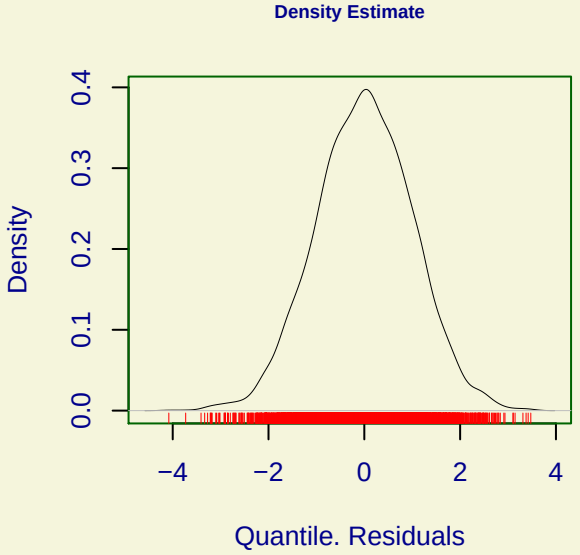
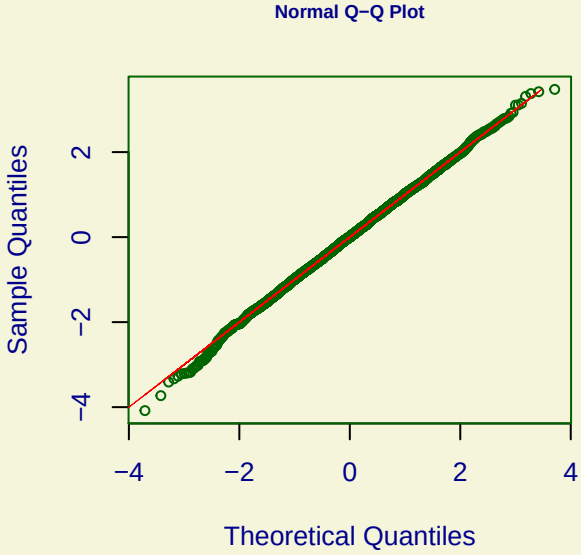
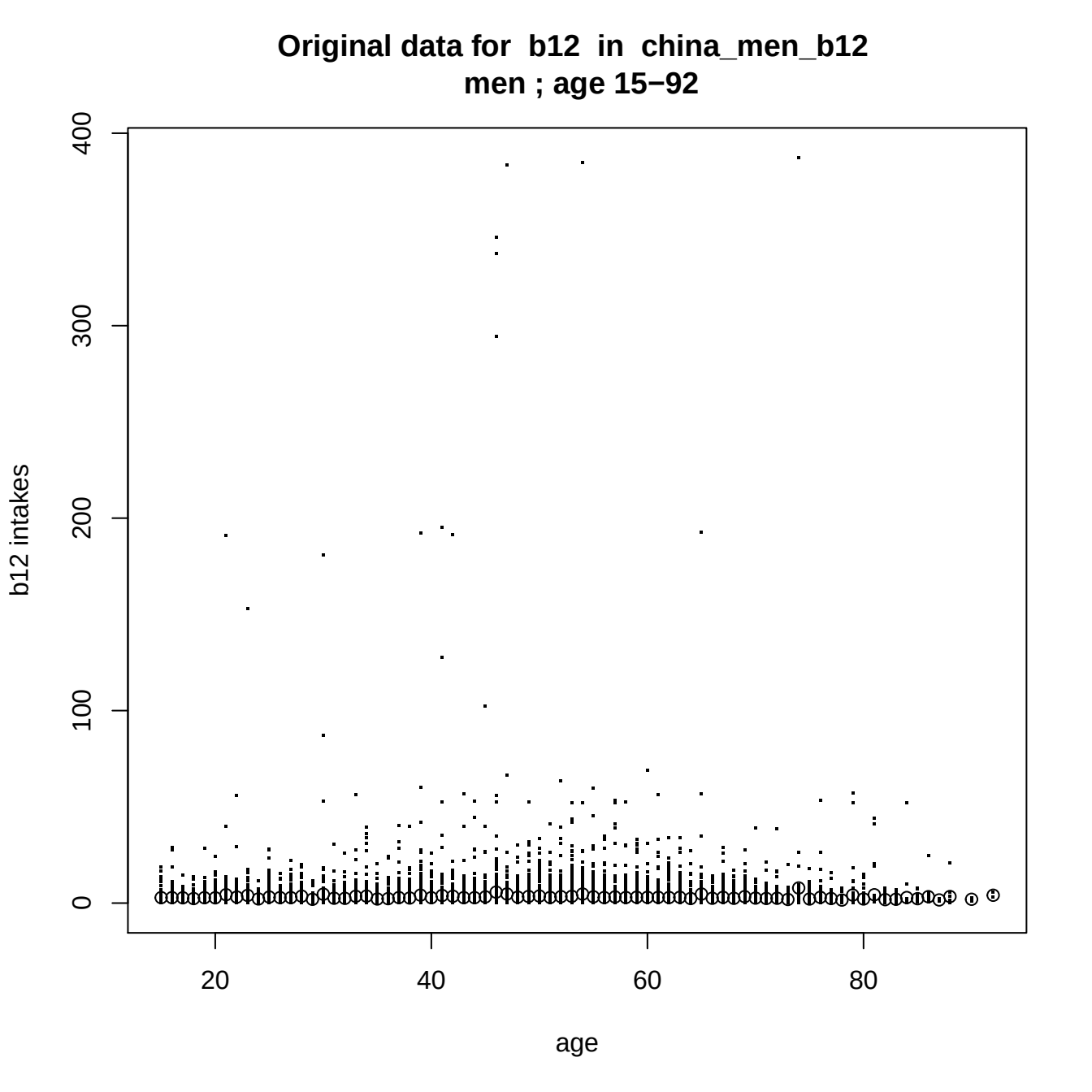
Diagnostic plot for Beta−Binomial model fit of
b12 in china_men_b12 men age 15 − 92

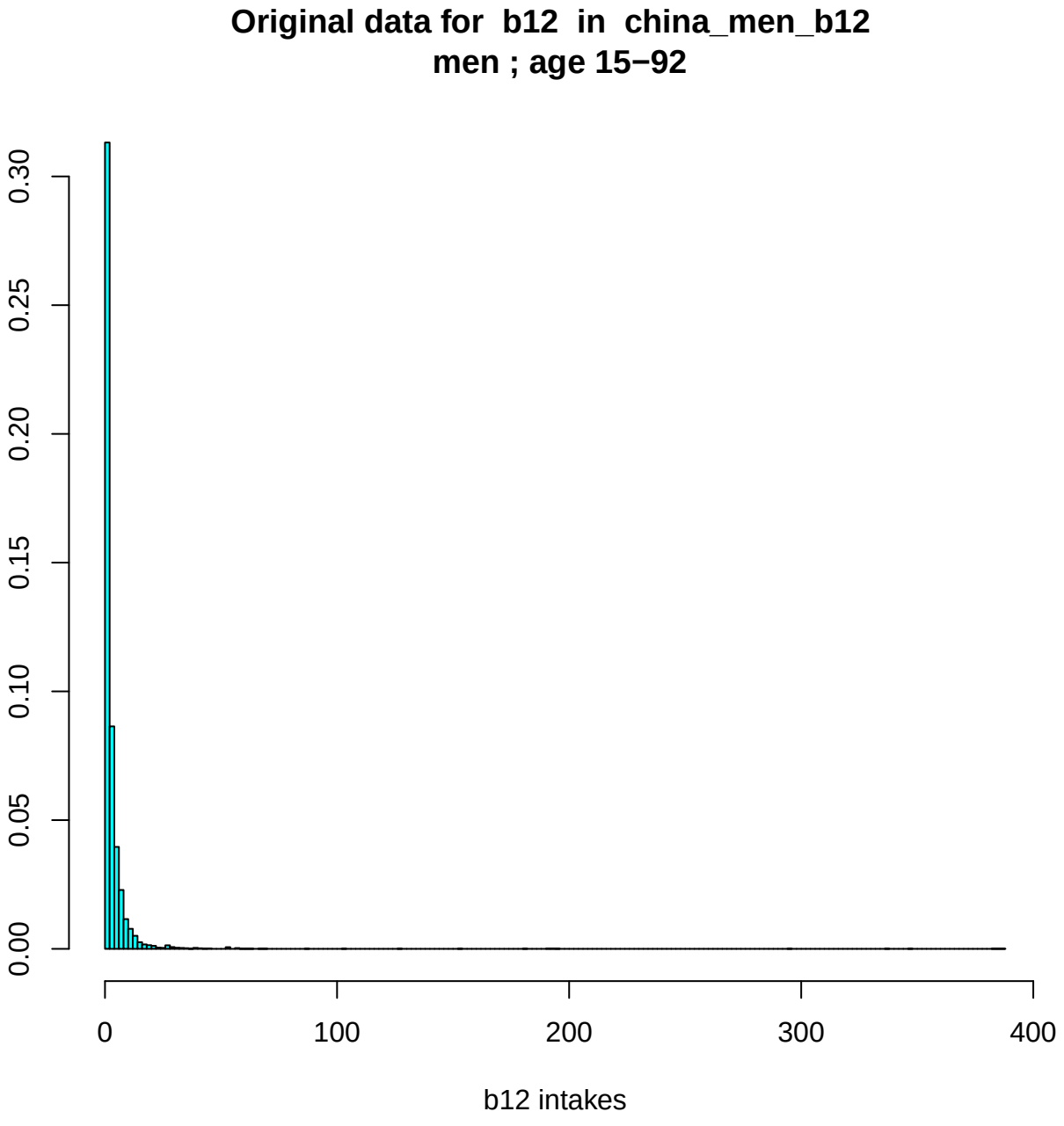


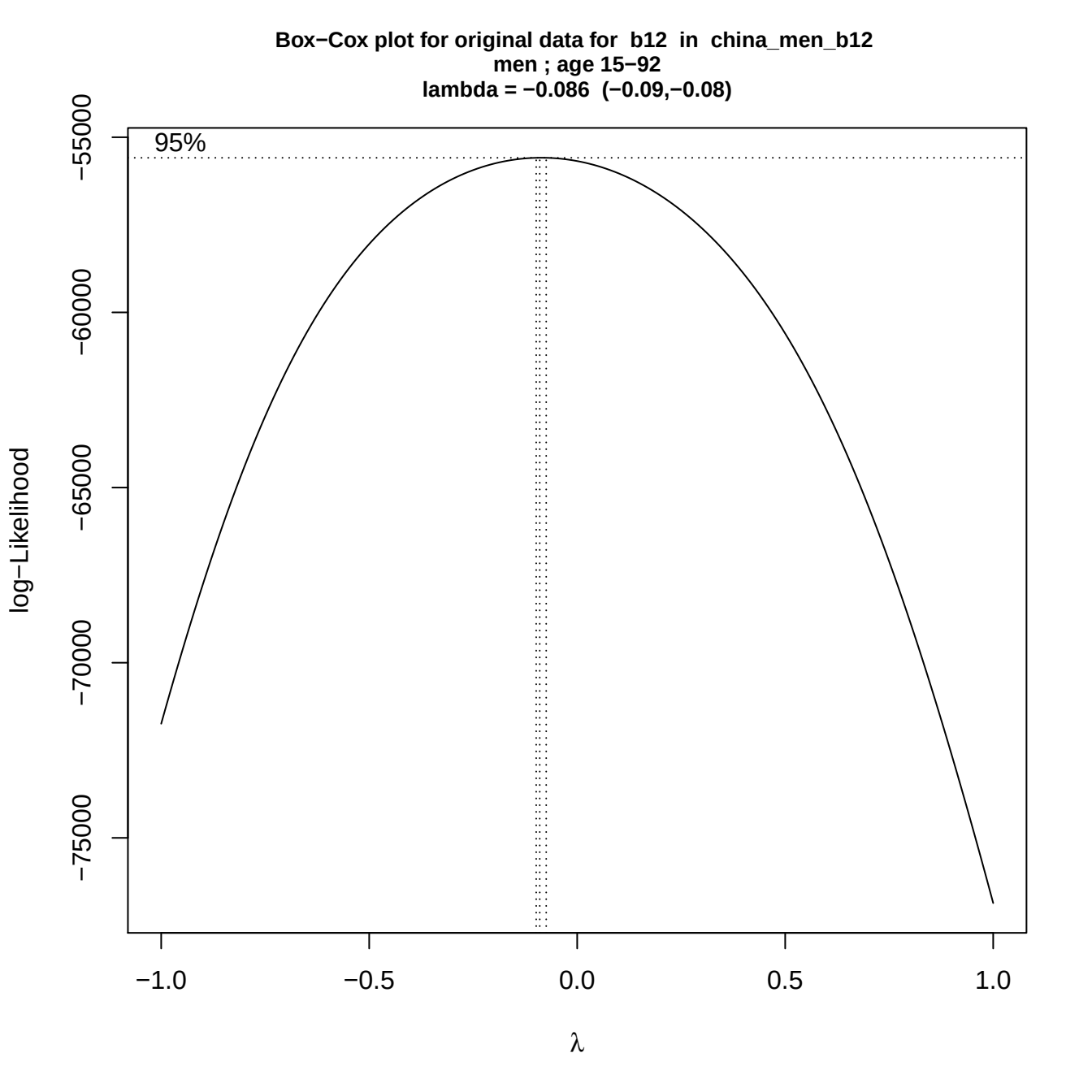



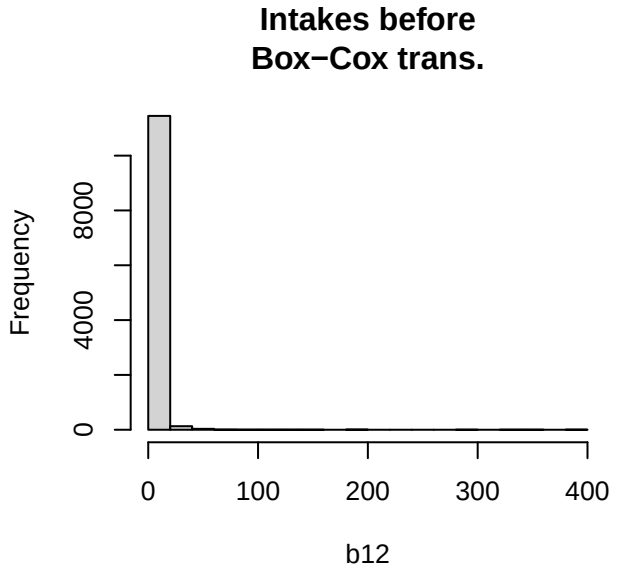



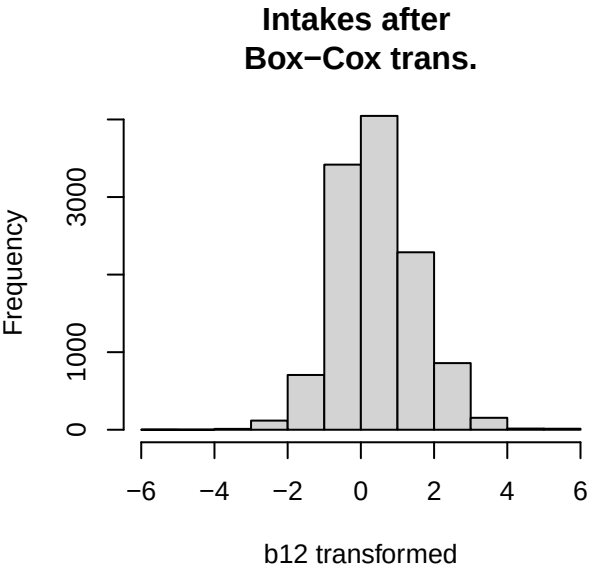

Original data for b12 in china_men_b12
men ; age 15−92
b12 intakes
0
100
200
300
400
20
40
60
80
age

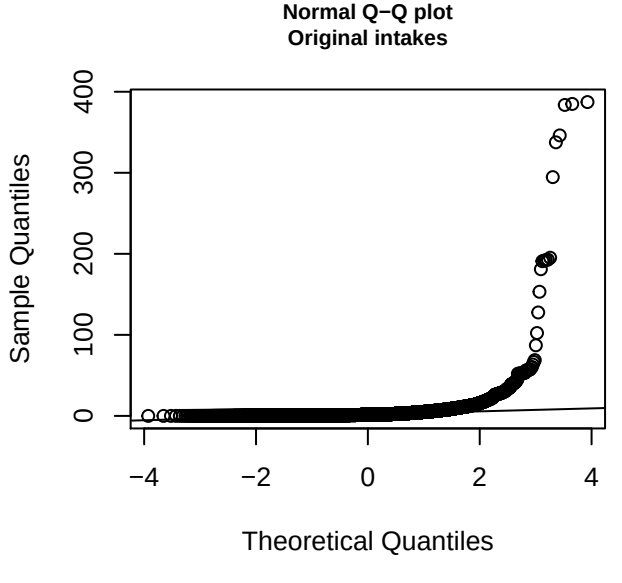

Original data for b12 in china_men_b12
men ; age 15−92
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
100
200
300
400
b12 intakes

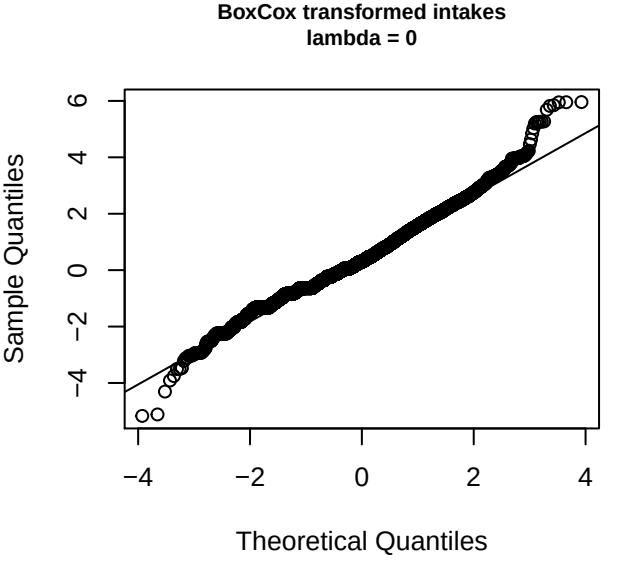

Box−Cox plot for original data for b12 in china_men_b12
men ; age 15−92
lambda = −0.086 (−0.09,−0.08)
95%
log−Likelihood
−55000
−60000
−65000
−70000
−75000
−1.0
−0.5
0.0
0.5
1.0
λ

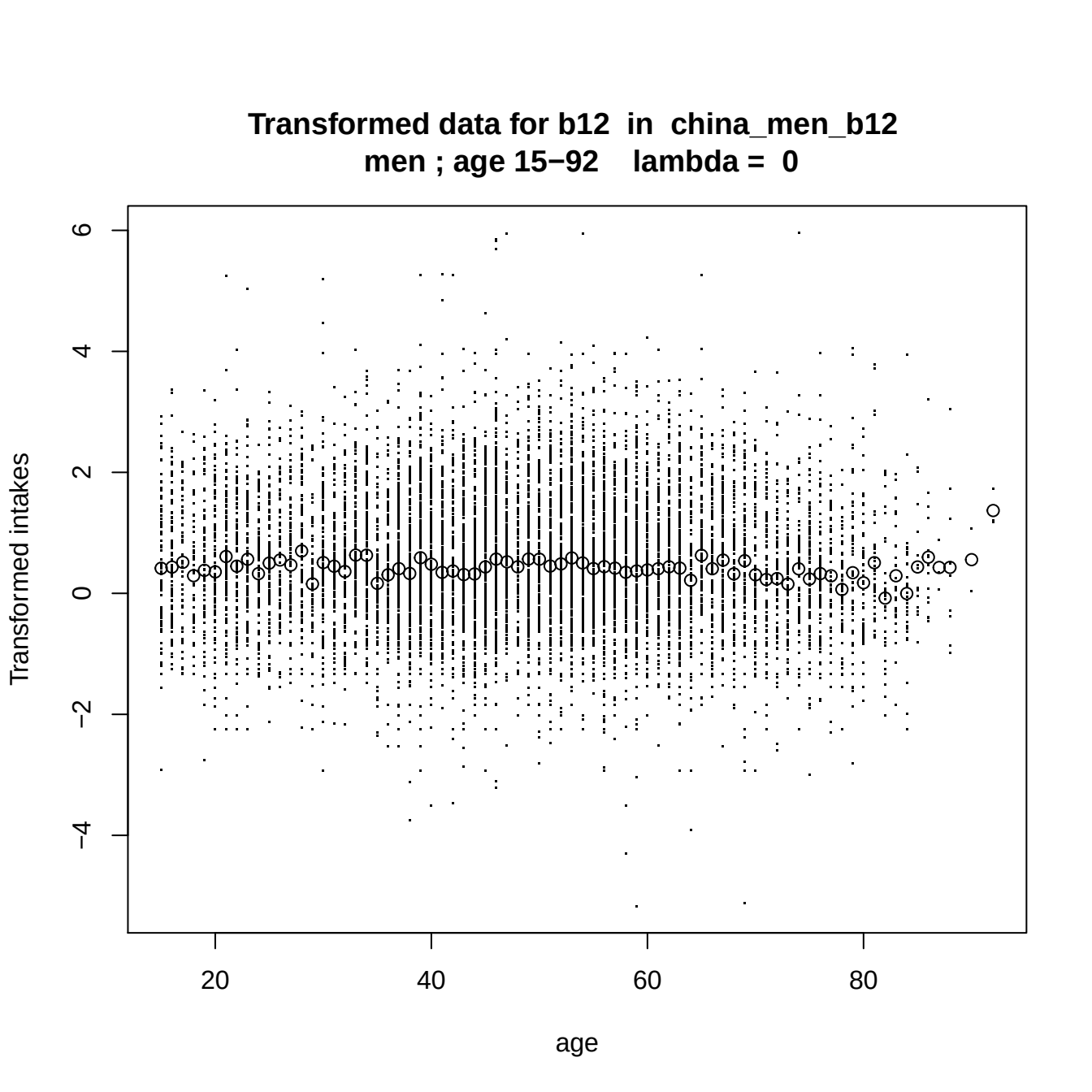
Diagnostic plots for b12 in china_men_b12
men ; age 15−92

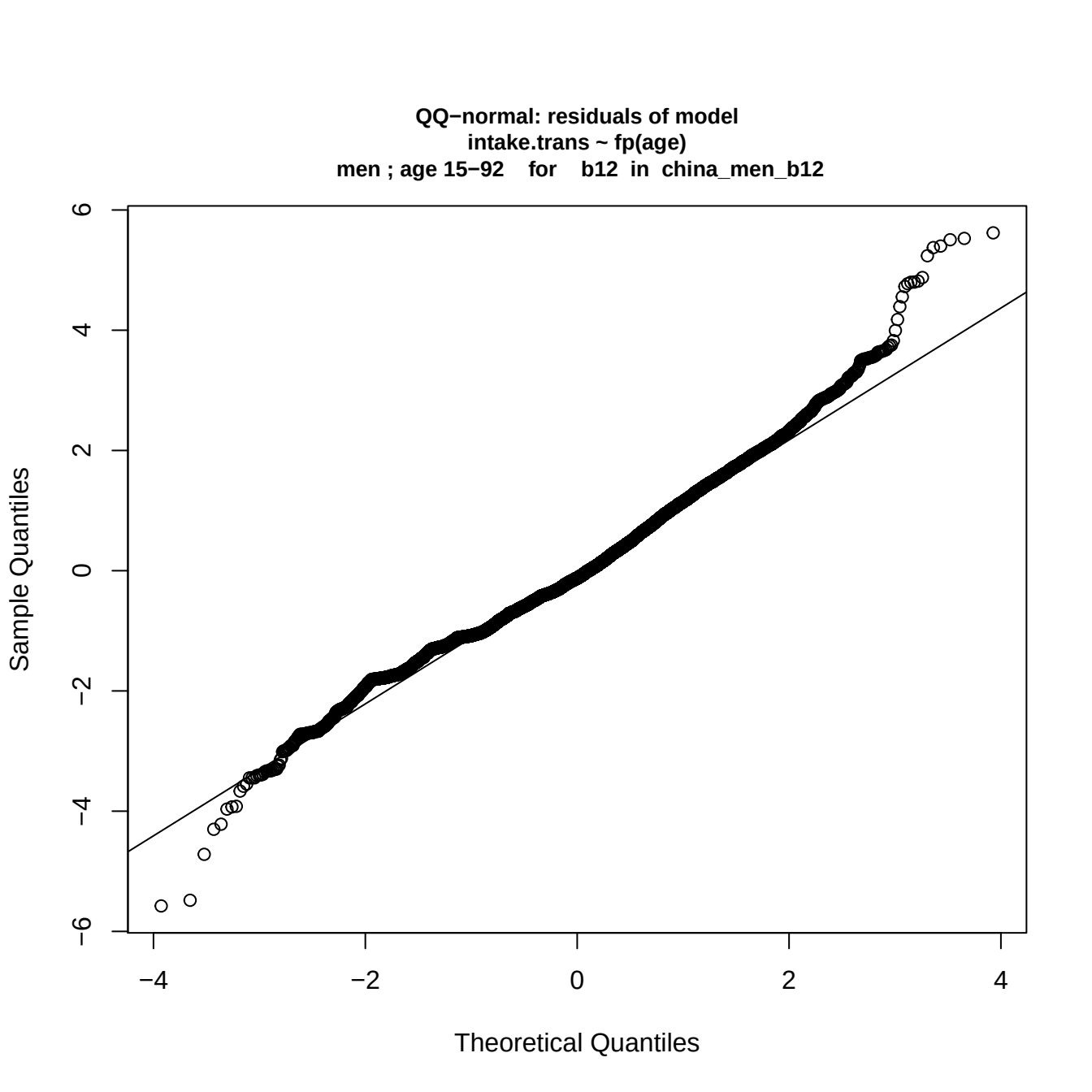


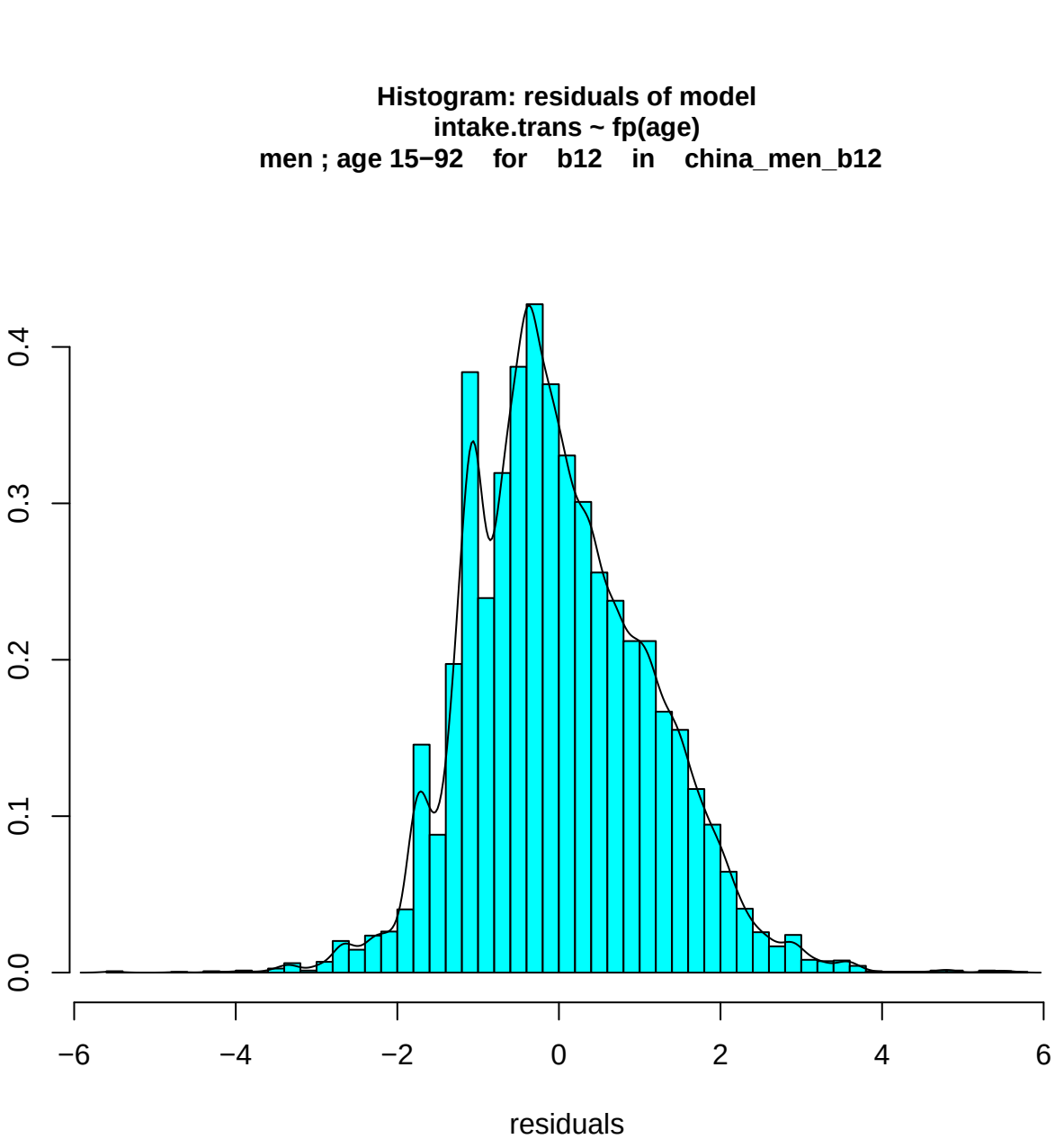



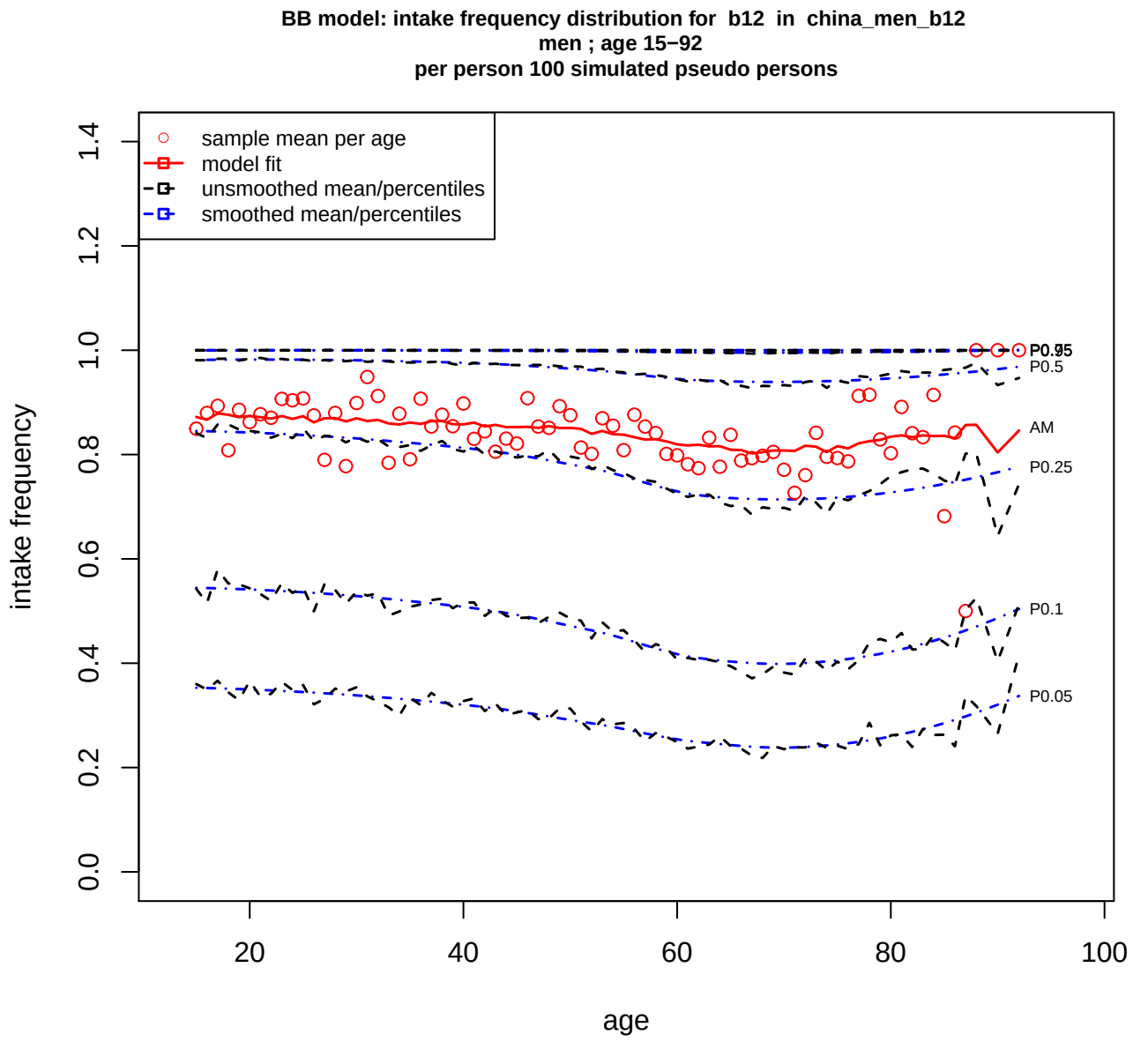



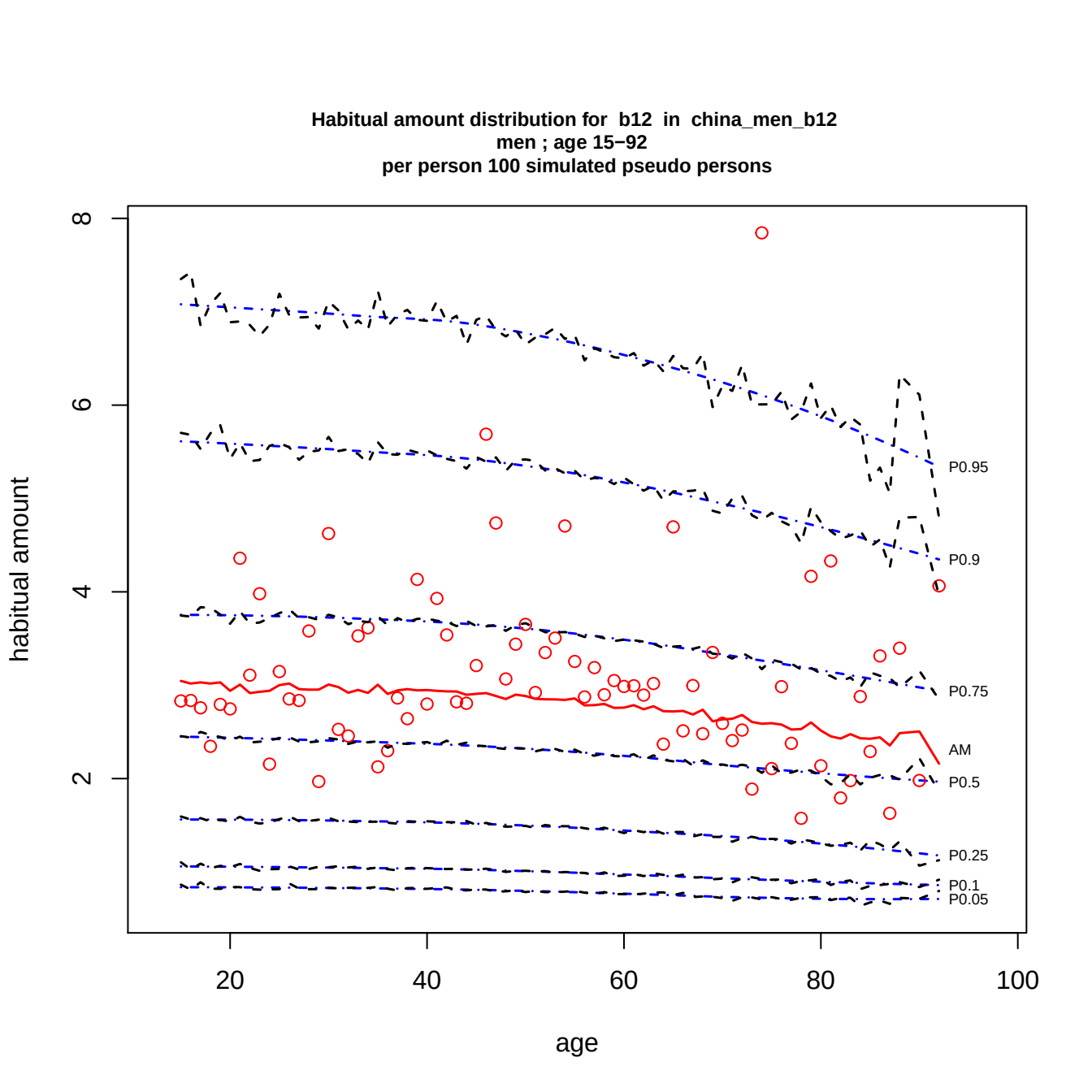



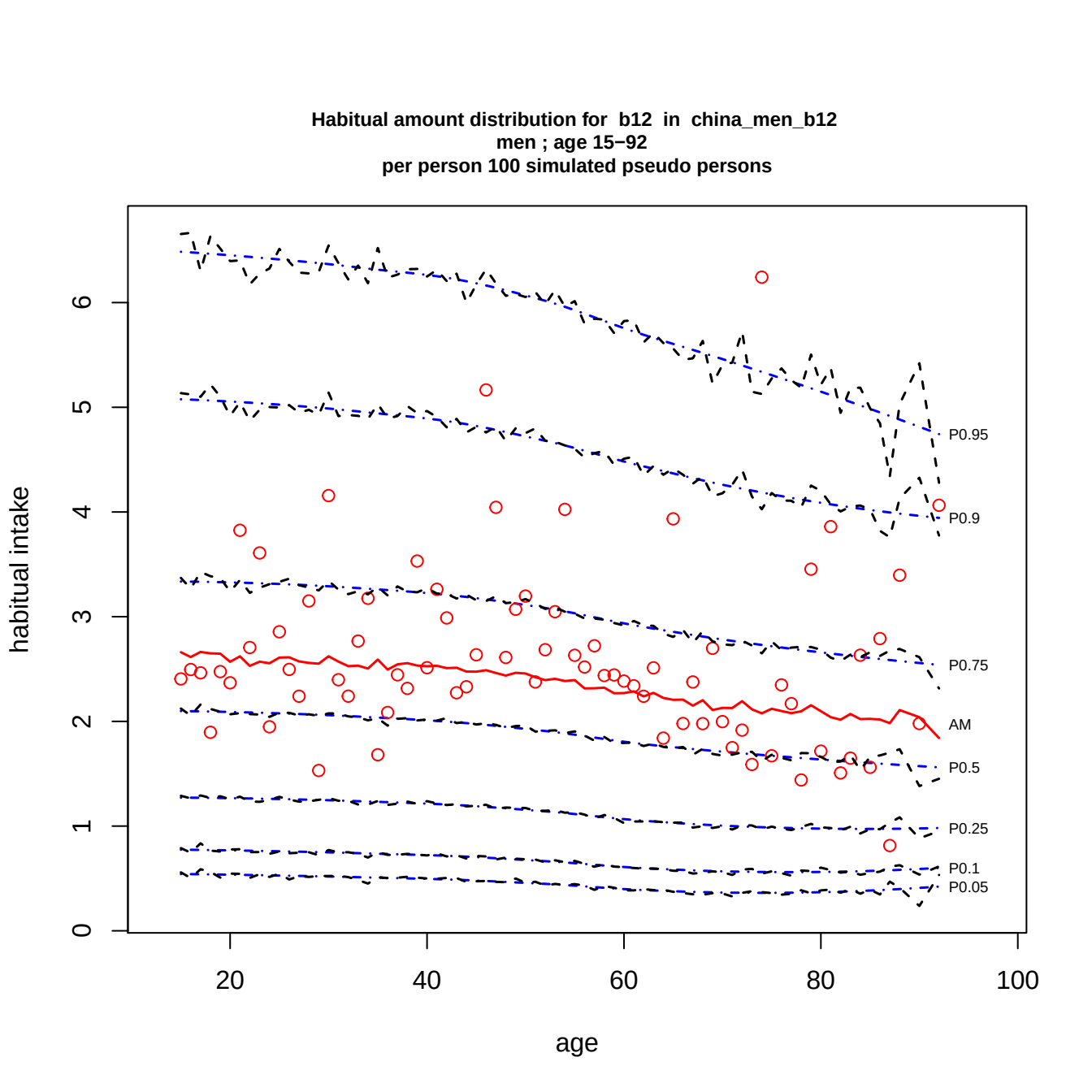

Transformed data for b12 in china_men_b12
men ; age 15−92 lambda = 0
Transformed intakes
6
4
2
0
−2
−4
20
40
60
80
age


QQ−normal: residuals of model
intake.trans ~ fp(age)
men ; age 15−92 for b12 in china_men_b12
Sample Quantiles
Theoretical Quantiles
6
4
2
0
−2
−4
−6
−4
−2
0
2
4


Histogram: residuals of model
intake.trans ~ fp(age)
men ; age 15−92 for b12 in china_men_b12
0.0
0.1
0.2
0.3
0.4
−6
−4
−2
0
2
4
6
residuals


BB model: intake frequency distribution for b12 in china_men_b12
men ; age 15−92
per person 100 simulated pseudo persons
sample mean per age
model fit
unsmoothed mean/percentiles
smoothed mean/percentiles
P0.95
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
40
60
80
100
age


Habitual amount distribution for b12 in china_men_b12
men ; age 15−92
per person 100 simulated pseudo persons
habitual amount
2
4
6
8
20
40
60
80
100
age
P0.95
P0.9
P0.75
AM
P0.5
P0.25
P0.1
P0.05


Habitual amount distribution for b12 in china_men_b12
men ; age 15−92
per person 100 simulated pseudo persons
habitual intake
age
0
1
2
3
4
5
6
20
40
60
80
100
P0.95
P0.9
P0.75
AM
P0.5
P0.25
P0.1
P0.05