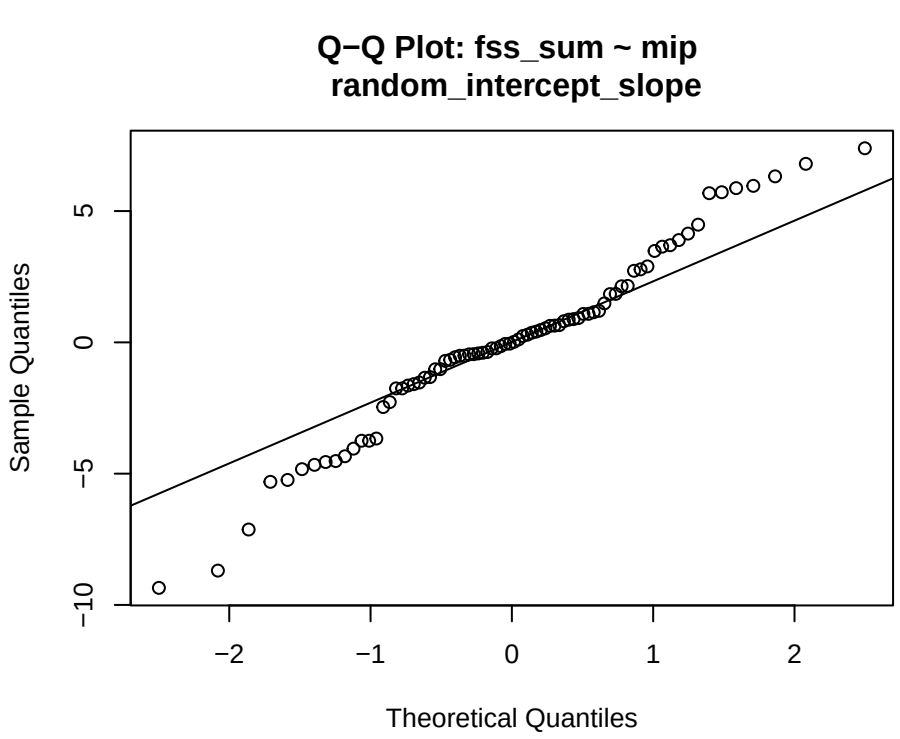
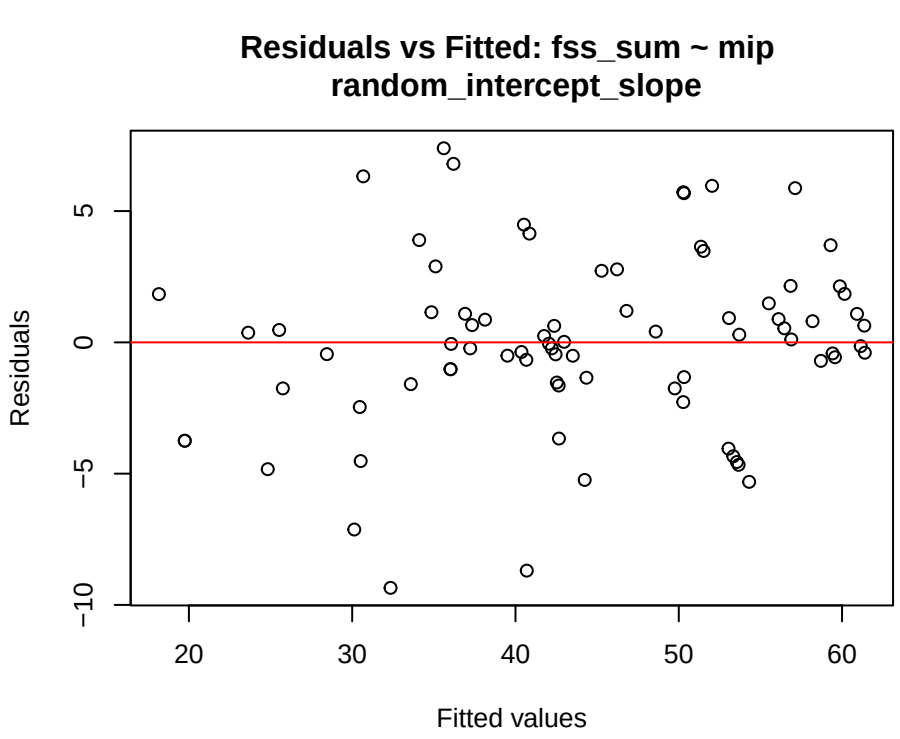
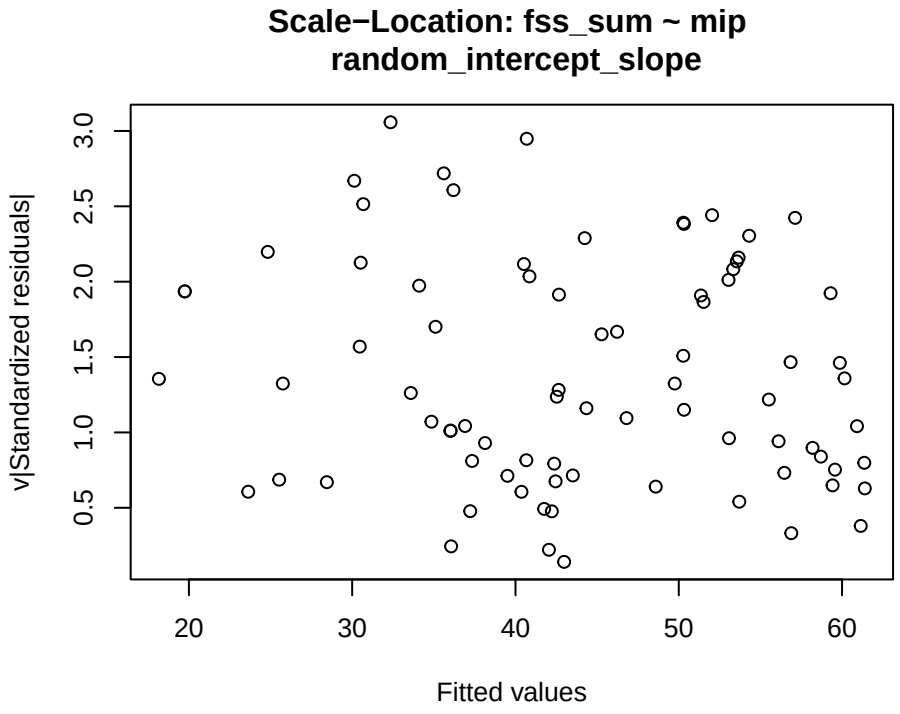
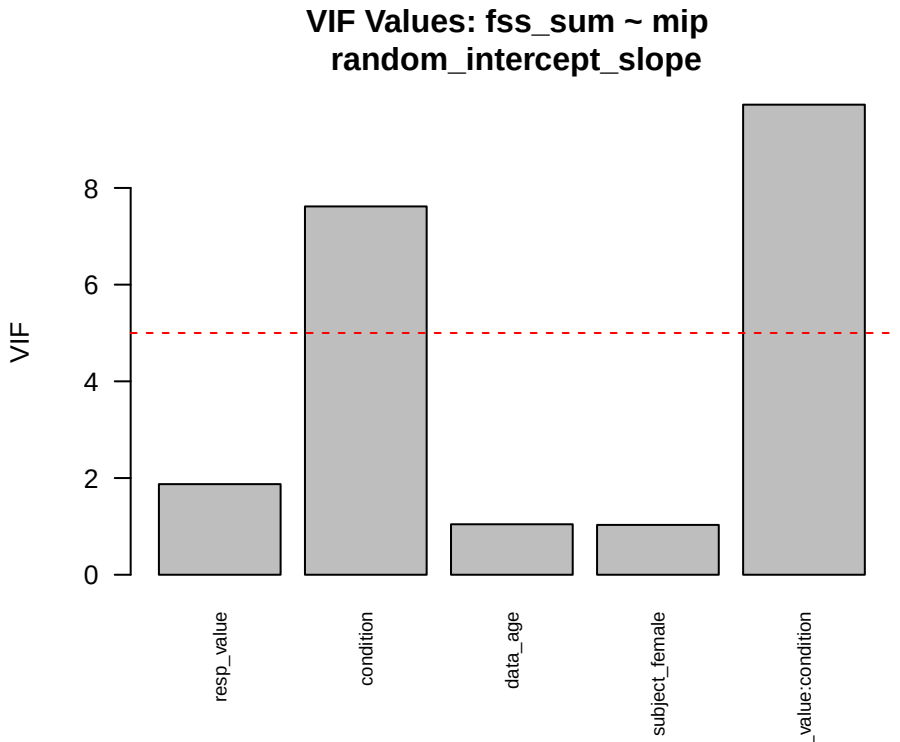
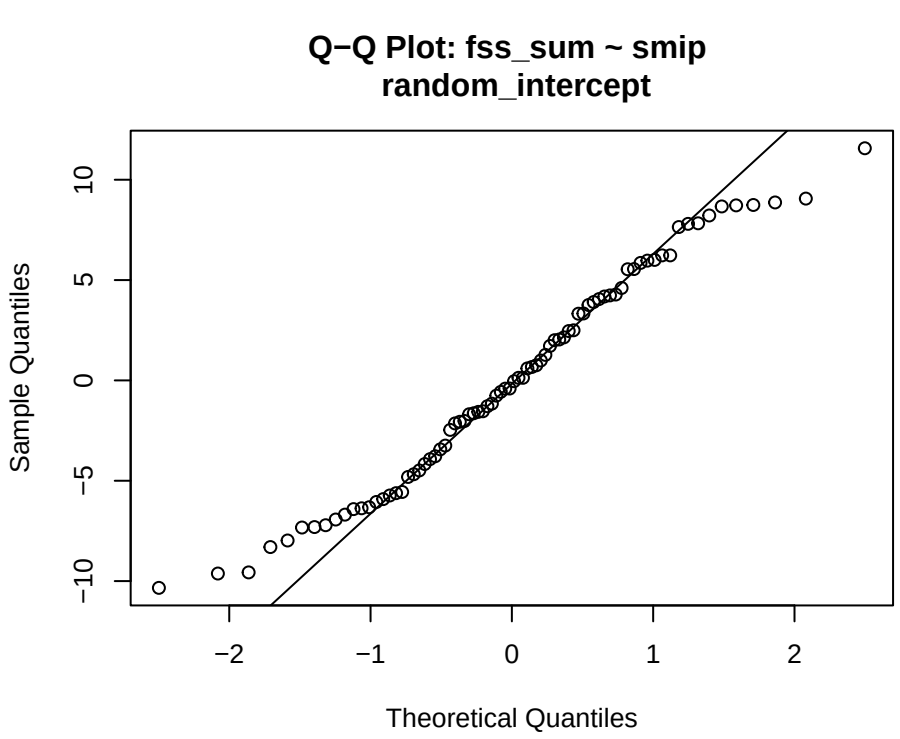
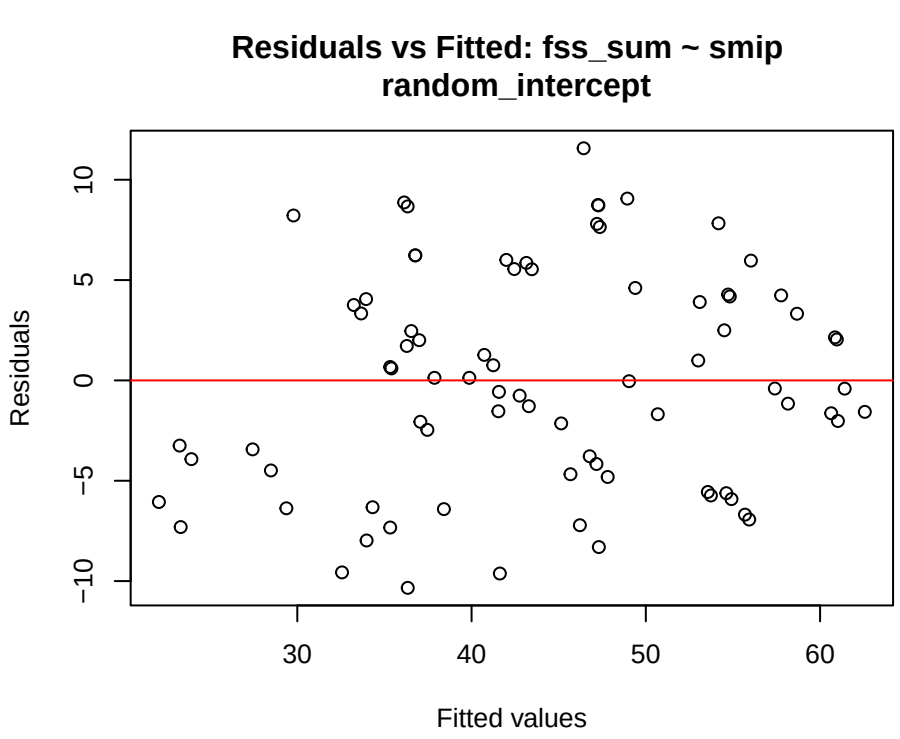

Q−Q Plot: fss_sum ~ mip
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
−2
−1
0
1
2


Residuals vs Fitted: fss_sum ~ mip
random_intercept_slope
Residuals
Fitted values
−10
−5
0
5
20
30
40
50
60


Scale−Location: fss_sum ~ mip
random_intercept_slope
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
20
30
40
50
60


VIF Values: fss_sum ~ mip
random_intercept_slope
VIF
0
2
4
6
8
resp_value
condition
data_age
subject_female
value:condition


Q−Q Plot: fss_sum ~ smip
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2


Residuals vs Fitted: fss_sum ~ smip
random_intercept
Residuals
Fitted values
−10
−5
0
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10
30
40
50
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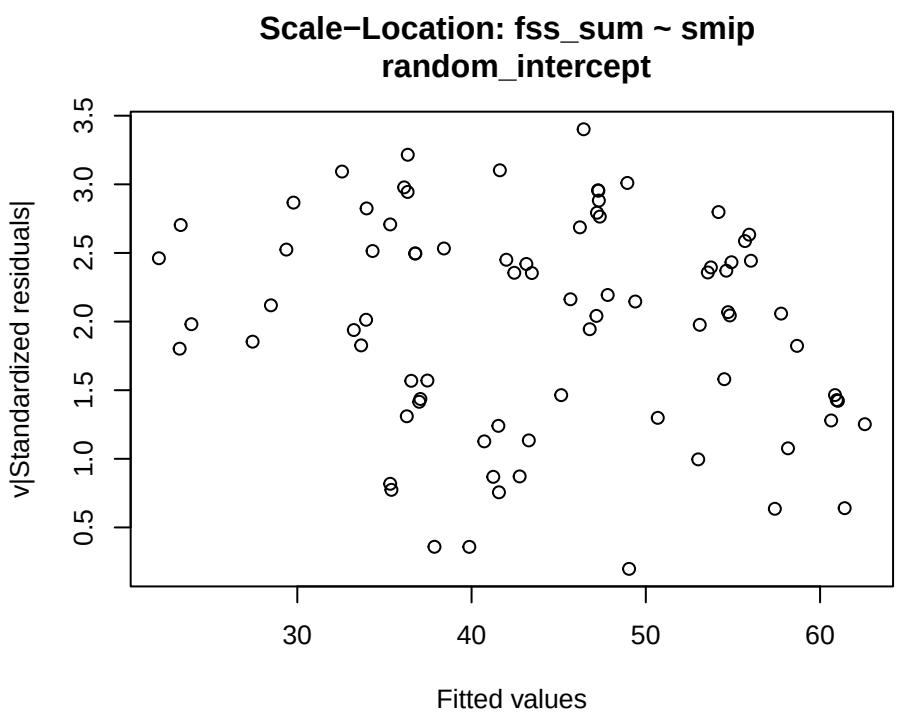
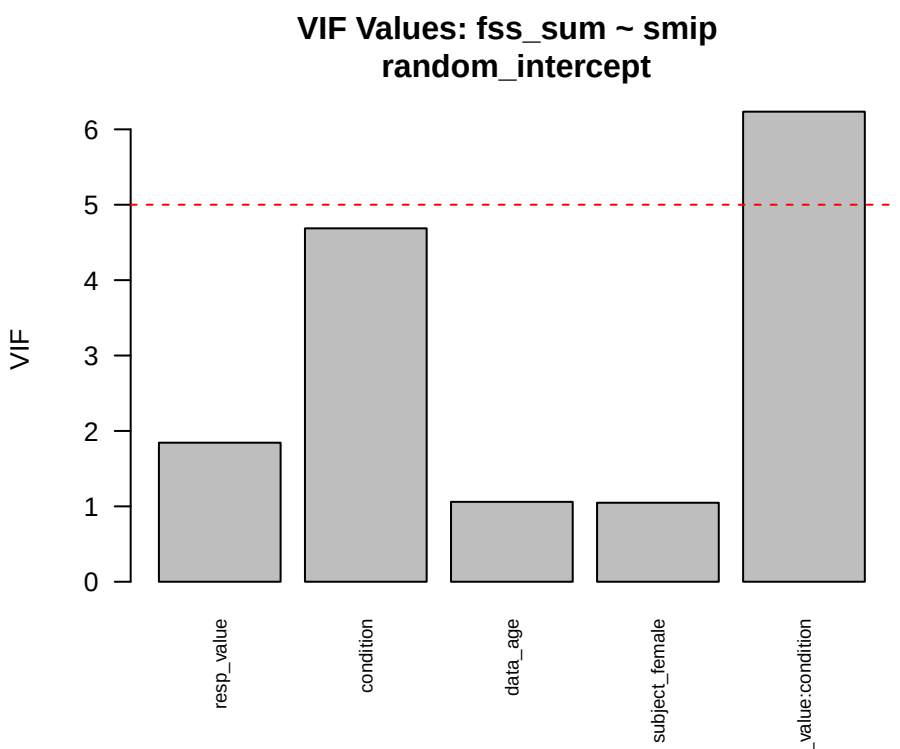
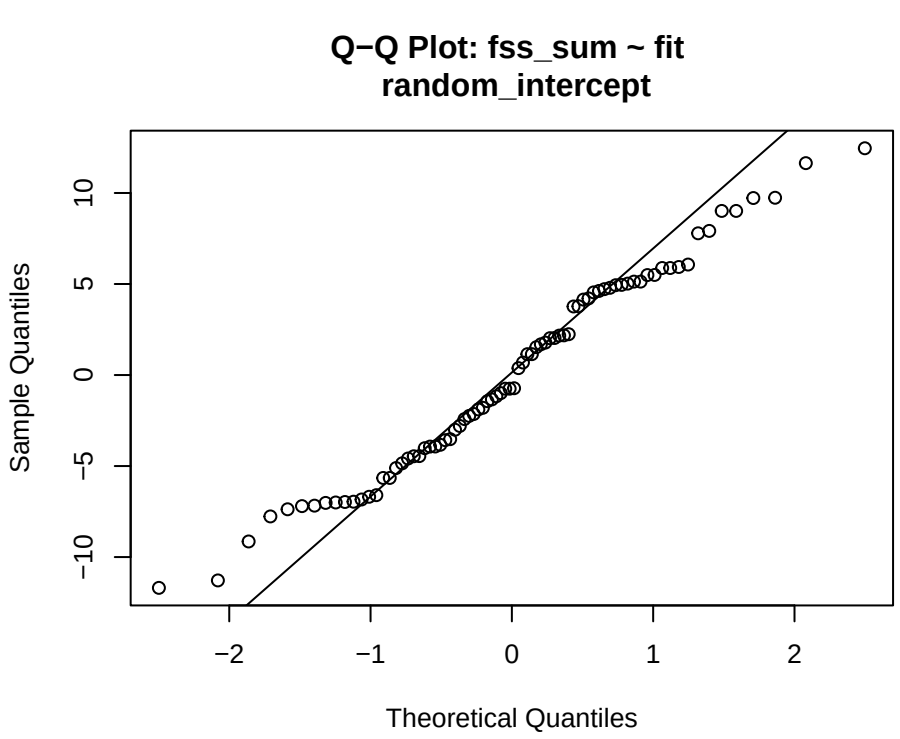
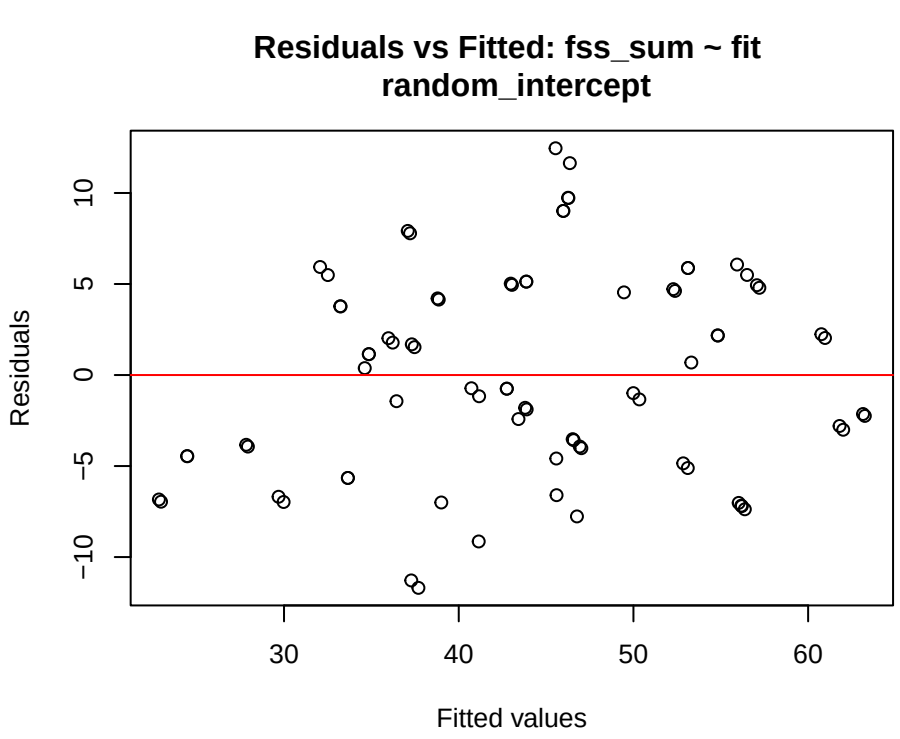

Scale−Location: fss_sum ~ smip
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
3.5
30
40
50
60


VIF Values: fss_sum ~ smip
random_intercept
VIF
0
1
2
3
4
5
6
resp_value
condition
data_age
subject_female
value:condition


Q−Q Plot: fss_sum ~ fit
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2


Residuals vs Fitted: fss_sum ~ fit
random_intercept
Residuals
Fitted values
−10
−5
0
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10
30
40
50
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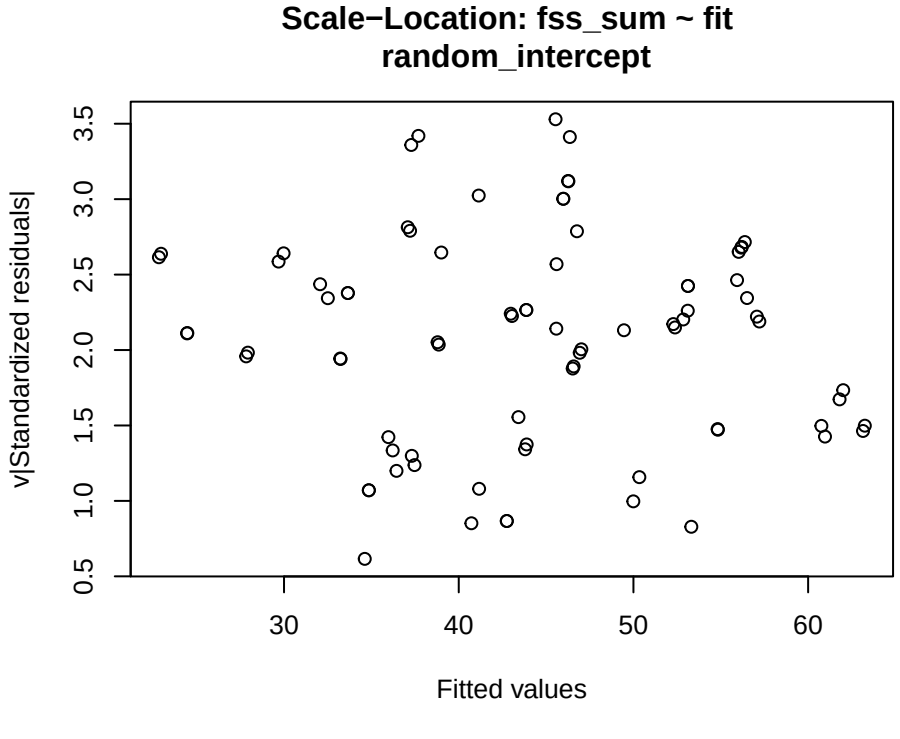
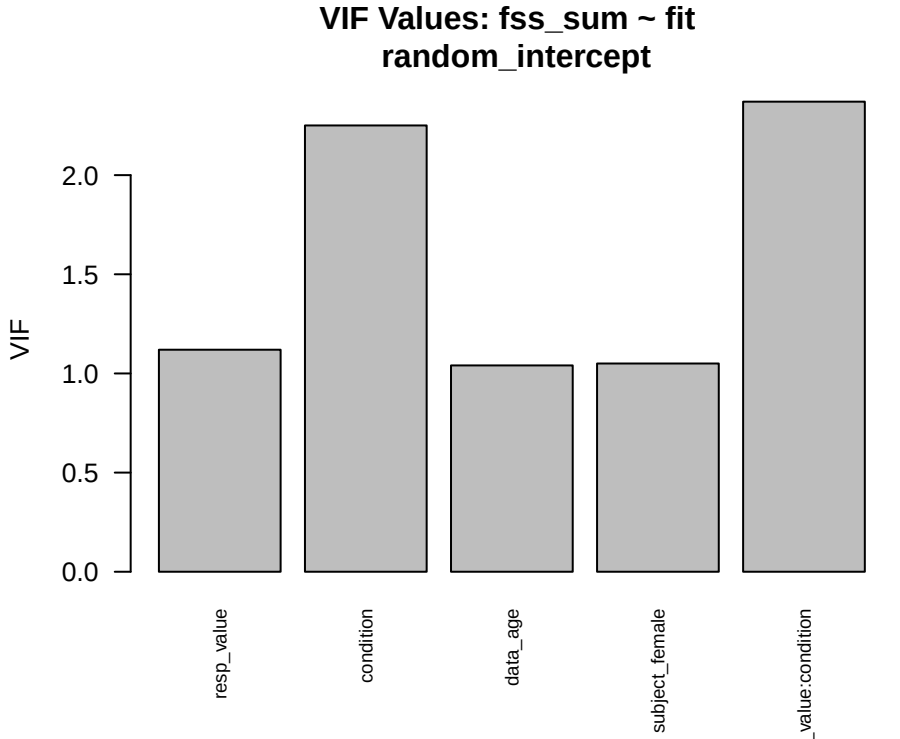
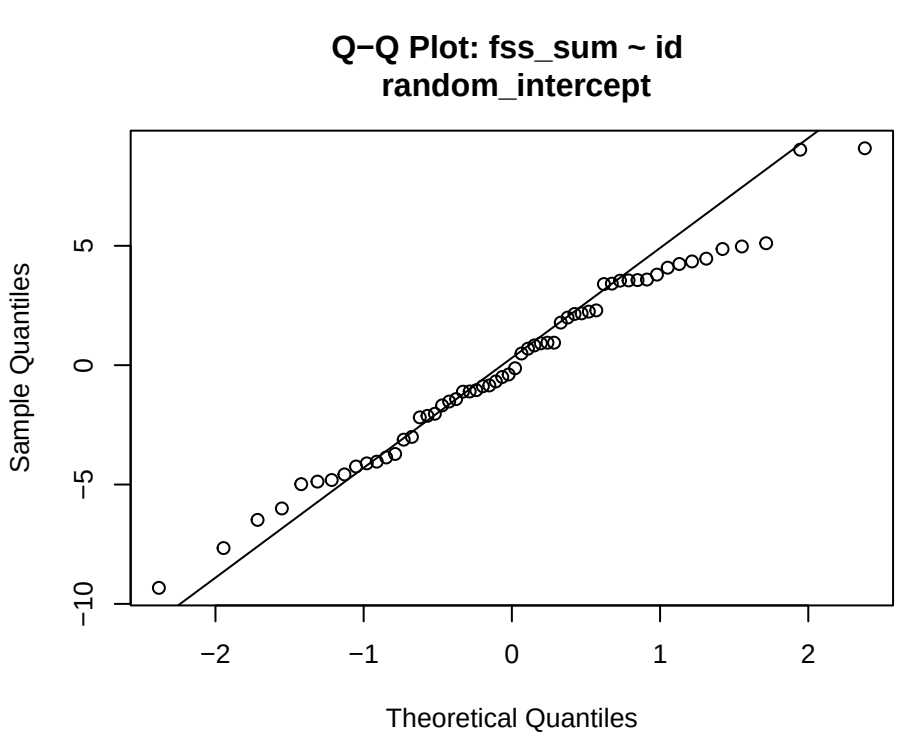
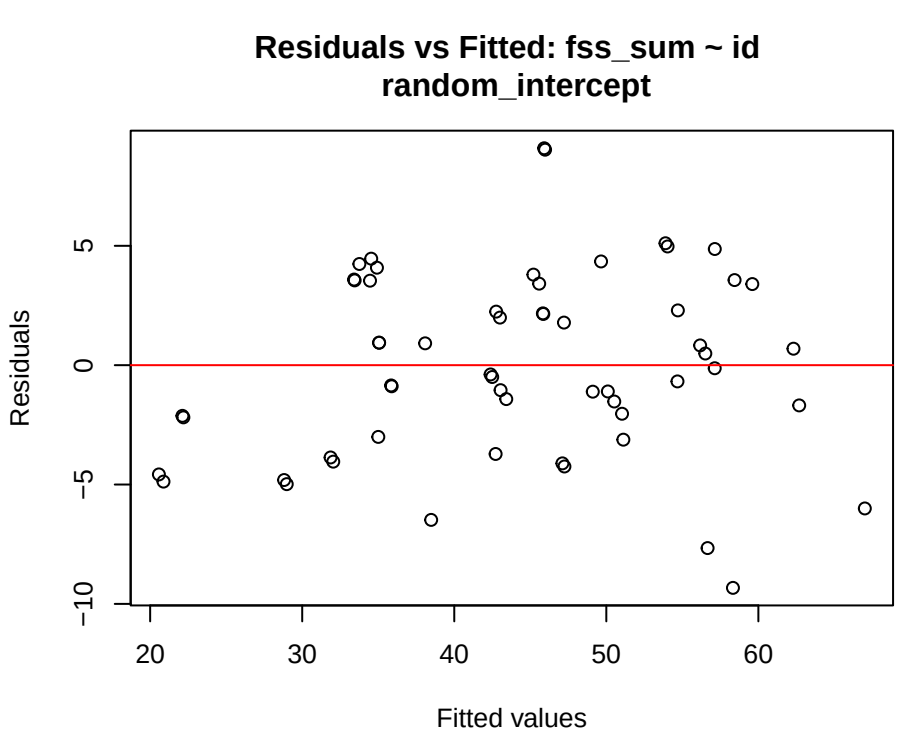

Scale−Location: fss_sum ~ fit
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
3.5
30
40
50
60


VIF Values: fss_sum ~ fit
random_intercept
VIF
0.0
0.5
1.0
1.5
2.0
resp_value
condition
data_age
subject_female
value:condition


Q−Q Plot: fss_sum ~ id
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
−2
−1
0
1
2


Residuals vs Fitted: fss_sum ~ id
random_intercept
Residuals
Fitted values
−10
−5
0
5
20
30
40
50
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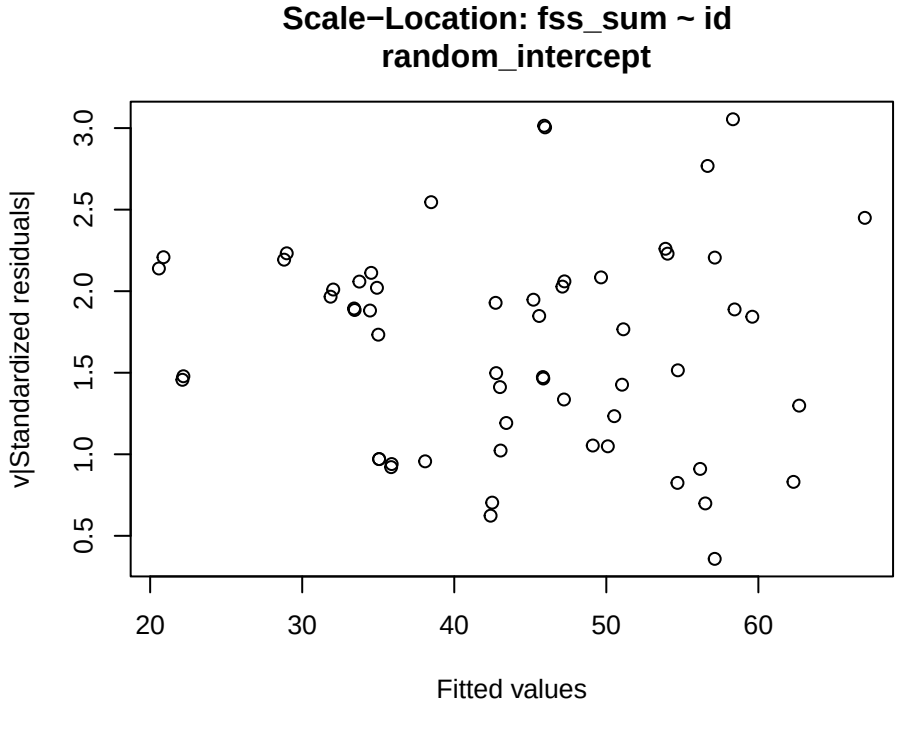
Scale−Location: fss_sum ~ id
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
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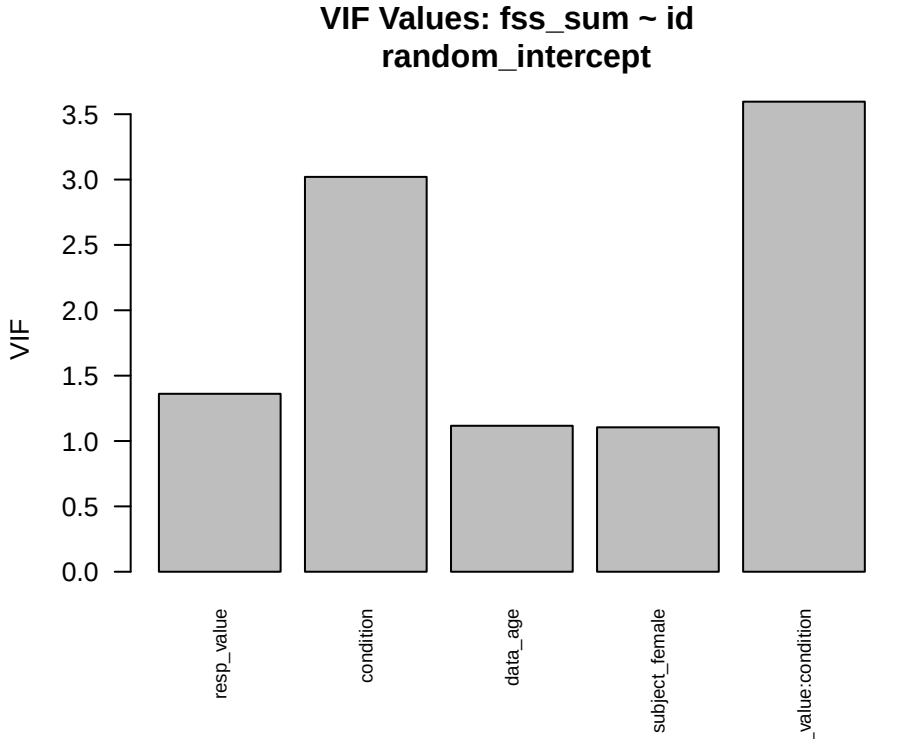
30
40
50
60


VIF Values: fss_sum ~ id
random_intercept
VIF
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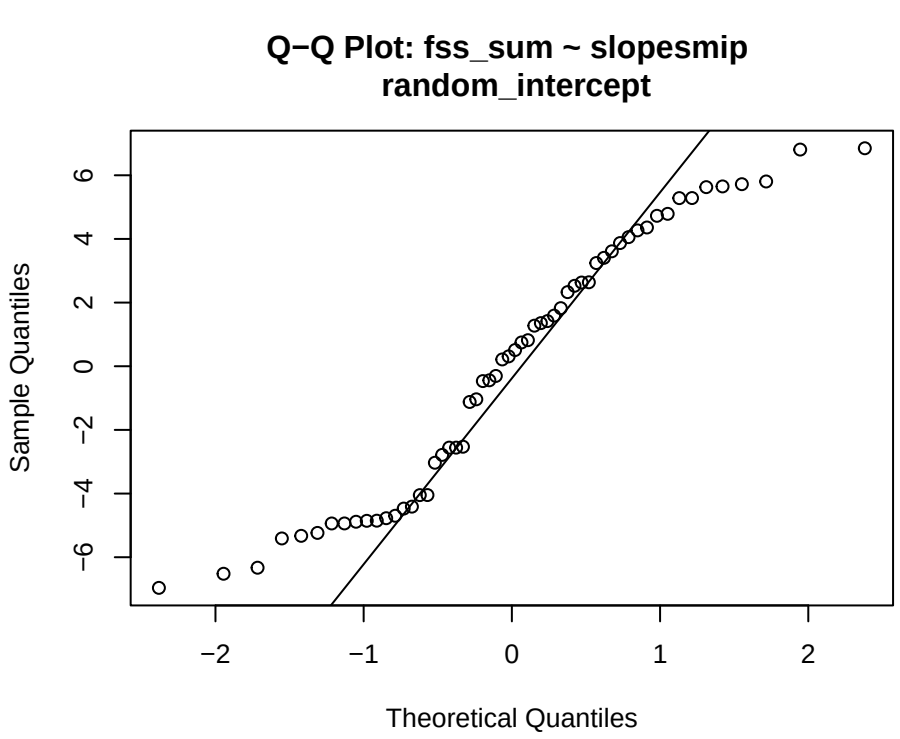
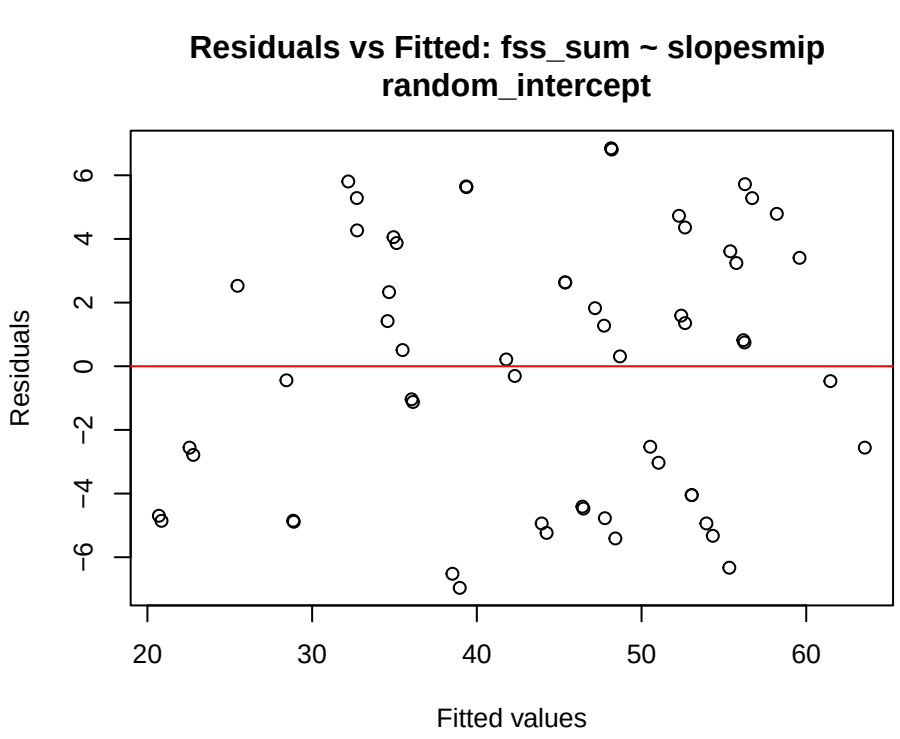
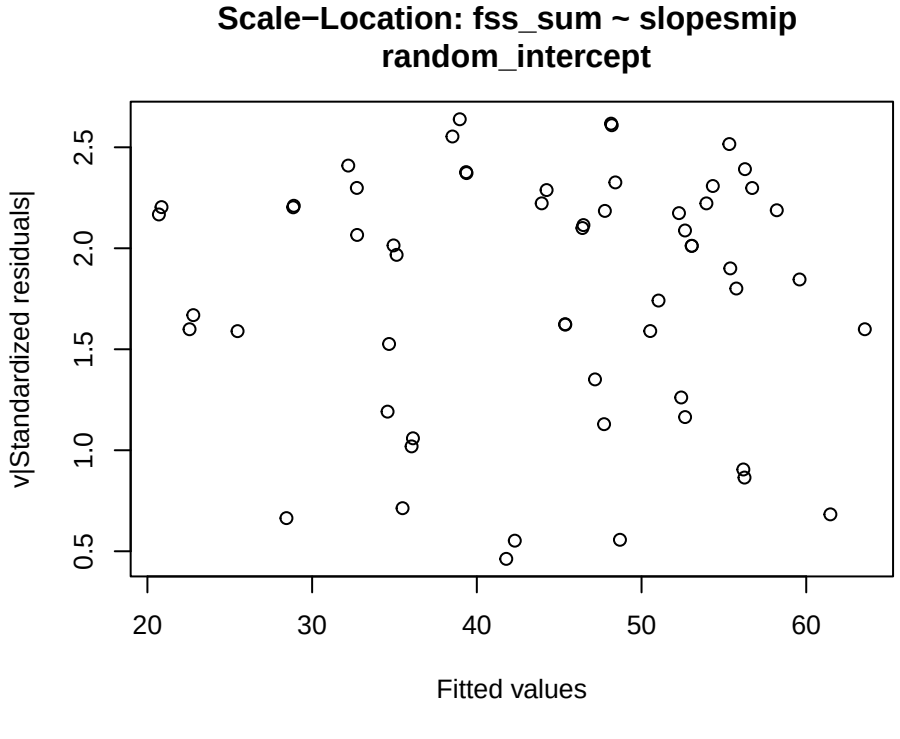
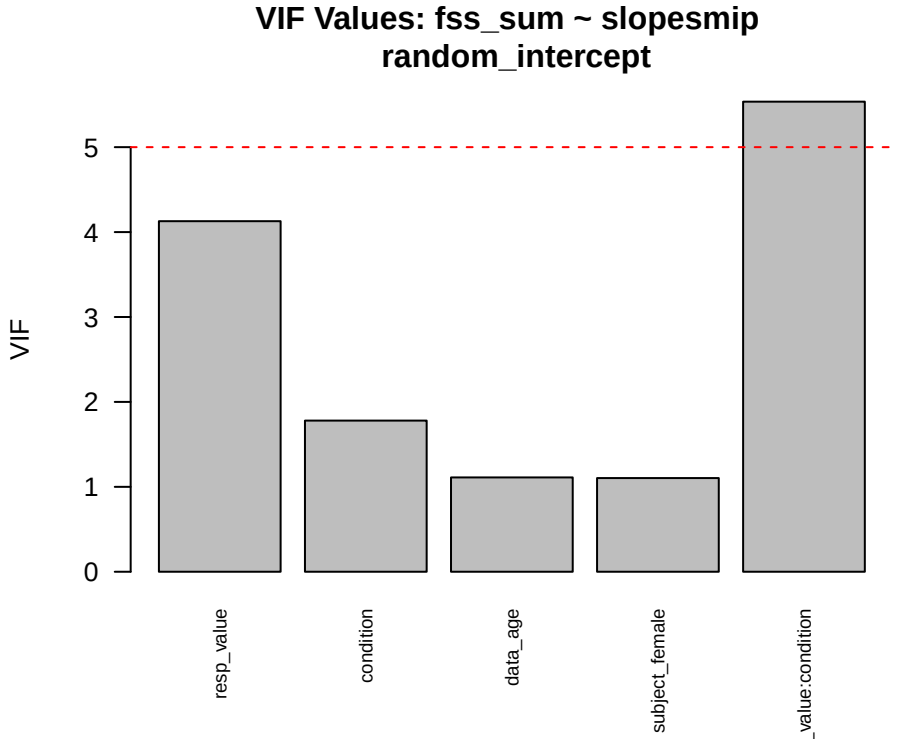
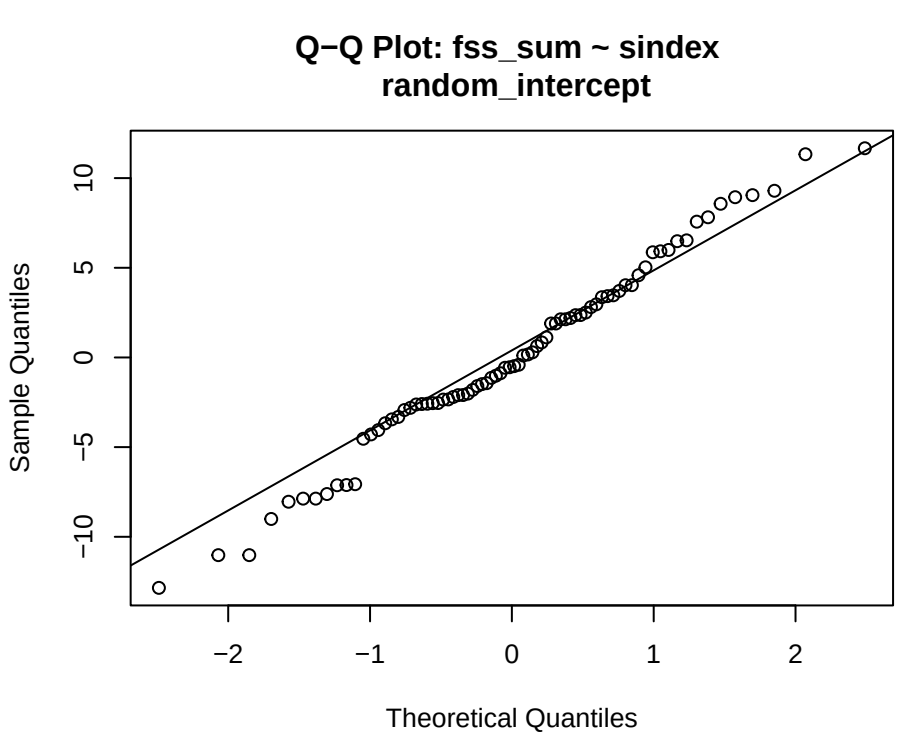
0.5
1.0
1.5
2.0
2.5
3.0
3.5
resp_value
condition
data_age
subject_female
value:condition

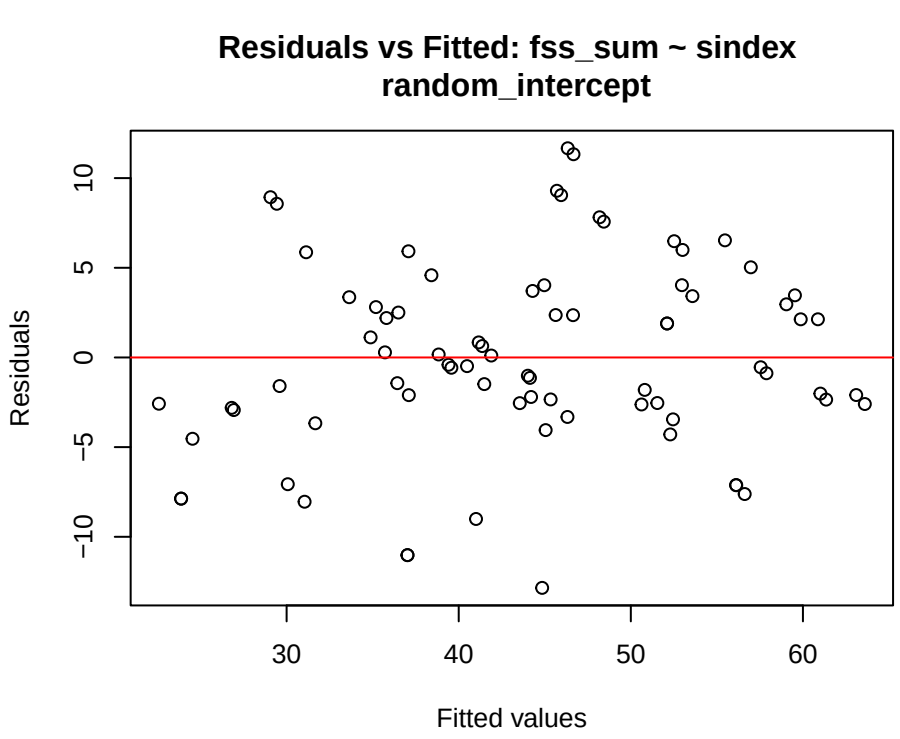

Q−Q Plot: fss_sum ~ slopesmip
random_intercept
Sample Quantiles
Theoretical Quantiles
−6
−4
−2
0
2
4
6
−2
−1
0
1
2

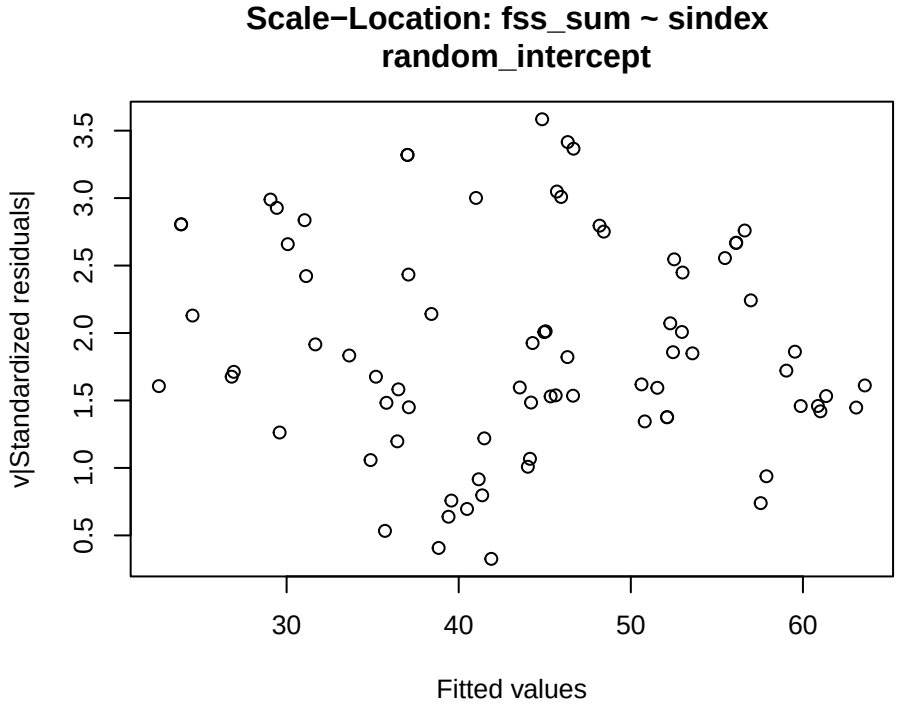

Residuals vs Fitted: fss_sum ~ slopesmip
random_intercept
Residuals
Fitted values
−6
−4
−2
0
2
4
6
20
30
40
50
60


Scale−Location: fss_sum ~ slopesmip
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
20
30
40
50
60


VIF Values: fss_sum ~ slopesmip
random_intercept
VIF
0
1
2
3
4
5
resp_value
condition
data_age
subject_female
value:condition


Q−Q Plot: fss_sum ~ sindex
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2


Residuals vs Fitted: fss_sum ~ sindex
random_intercept
Residuals
Fitted values
−10
−5
0
5
10
30
40
50
60


Scale−Location: fss_sum ~ sindex
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
3.5
30
40
50
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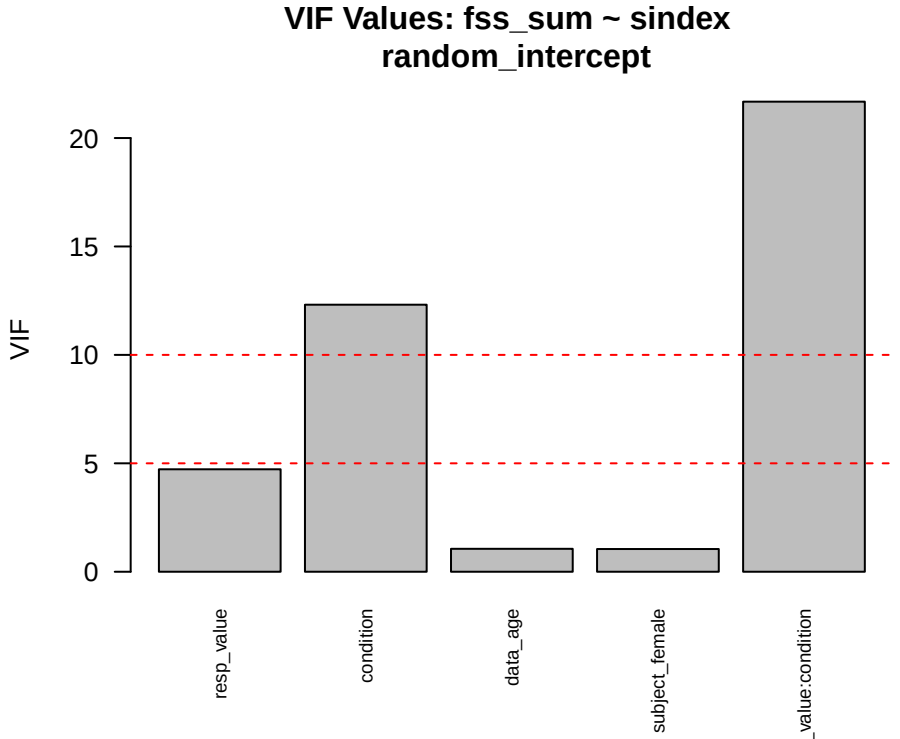
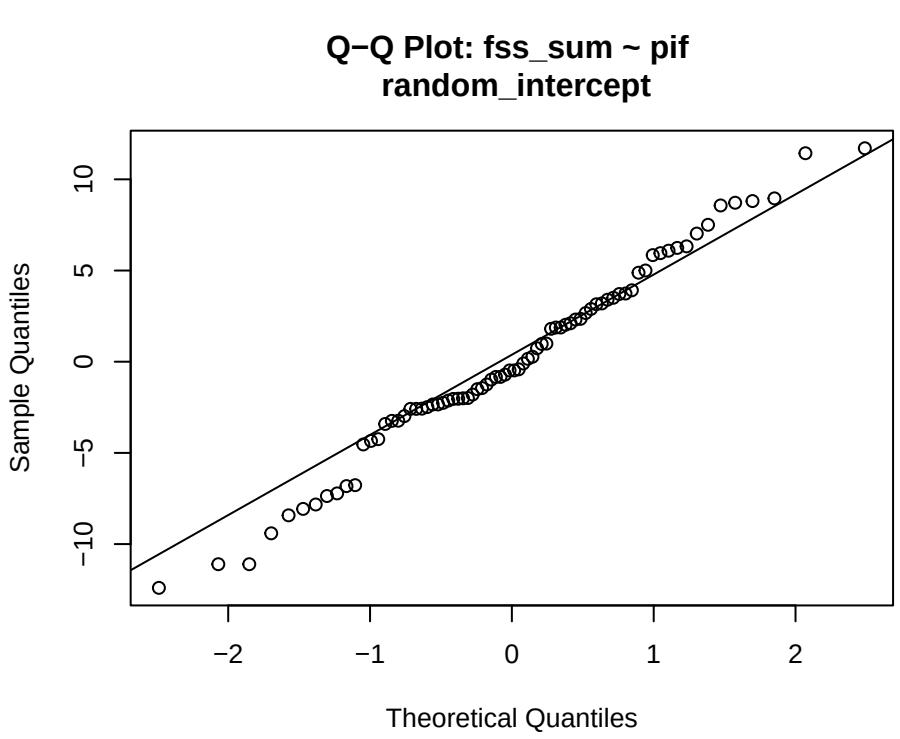
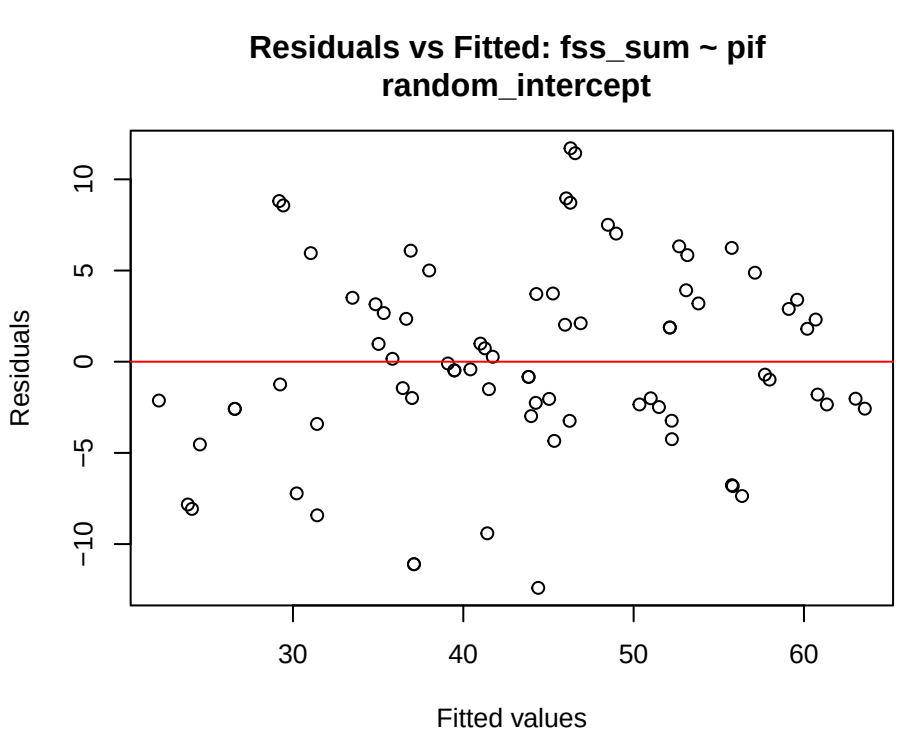
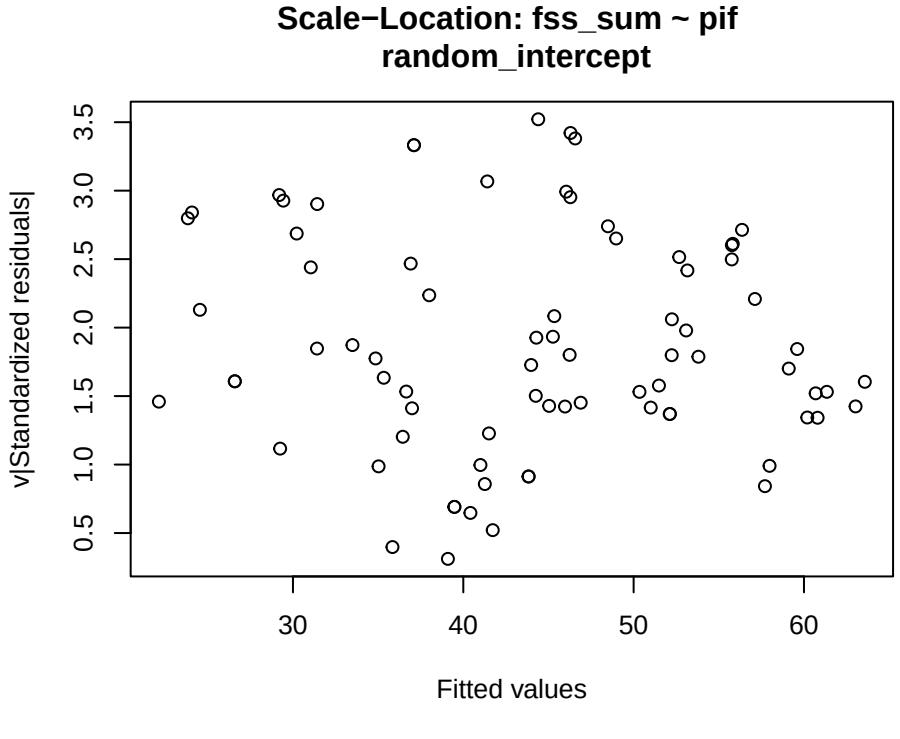
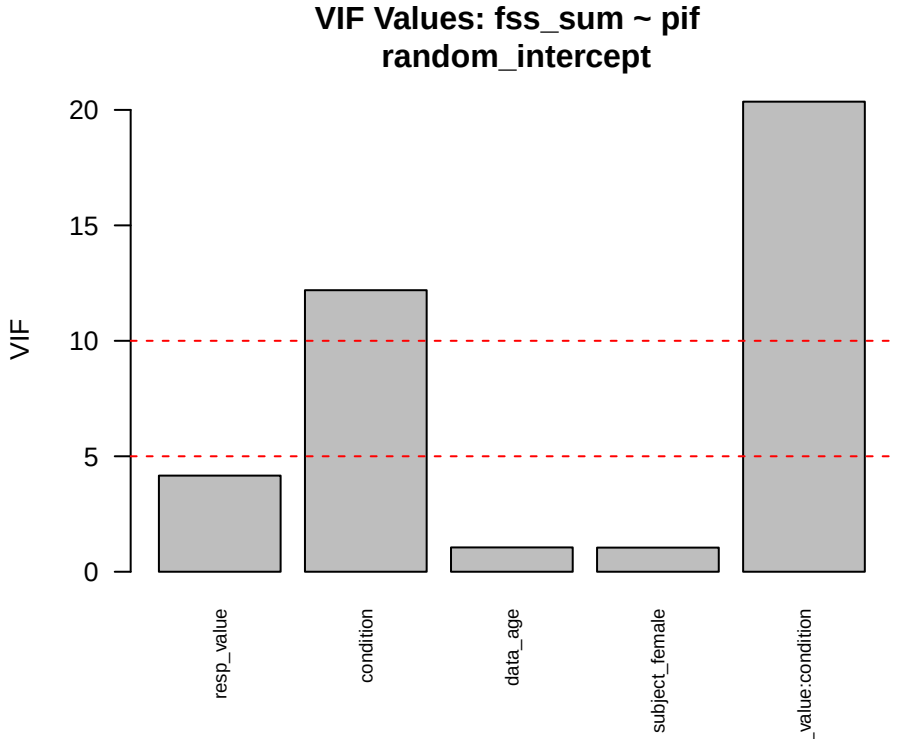
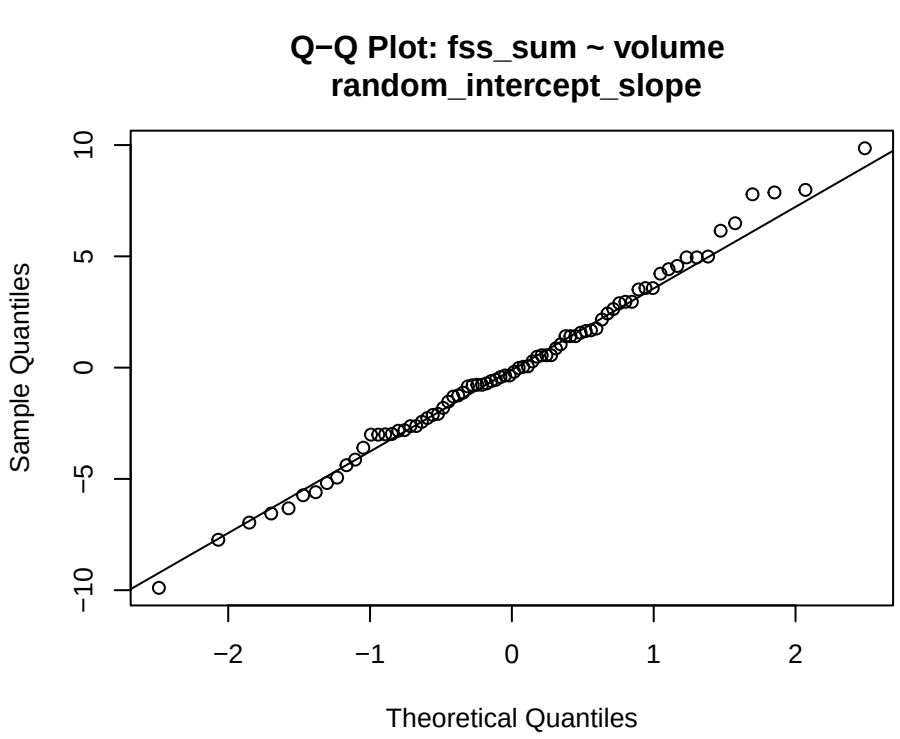

VIF Values: fss_sum ~ sindex
random_intercept
VIF
0
5
10
15
20
resp_value
condition
data_age
subject_female
value:condition

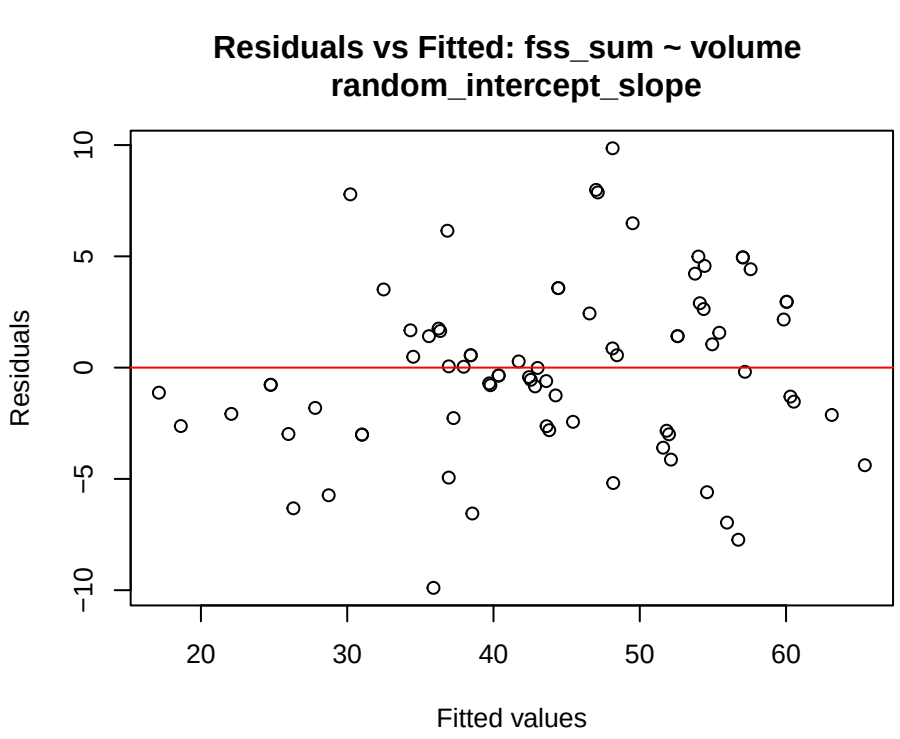

Q−Q Plot: fss_sum ~ pif
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2

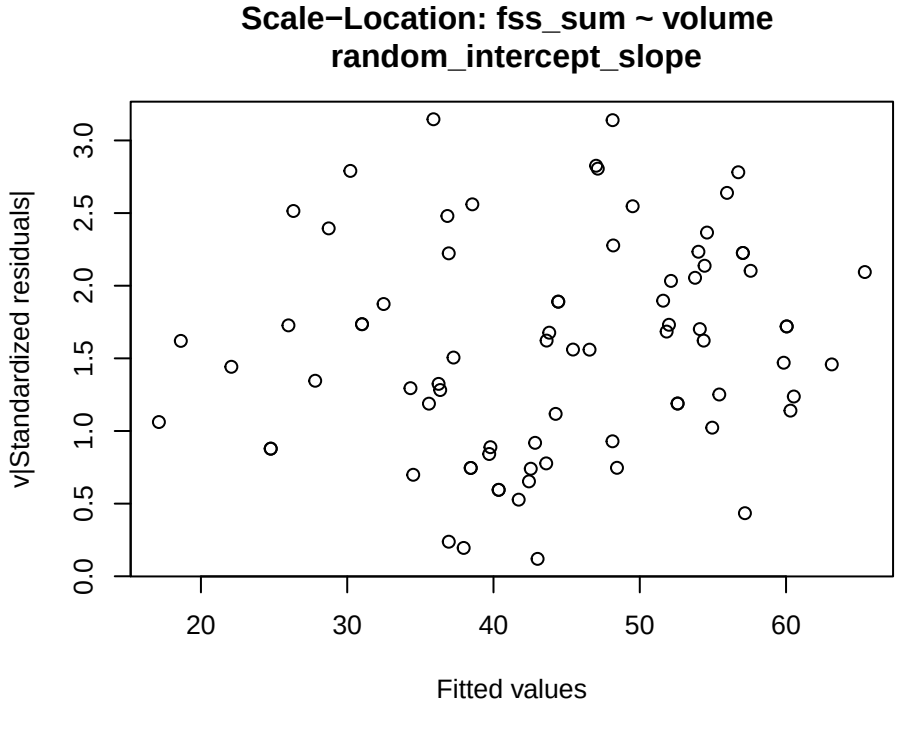

Residuals vs Fitted: fss_sum ~ pif
random_intercept
Residuals
Fitted values
−10
−5
0
5
10
30
40
50
60

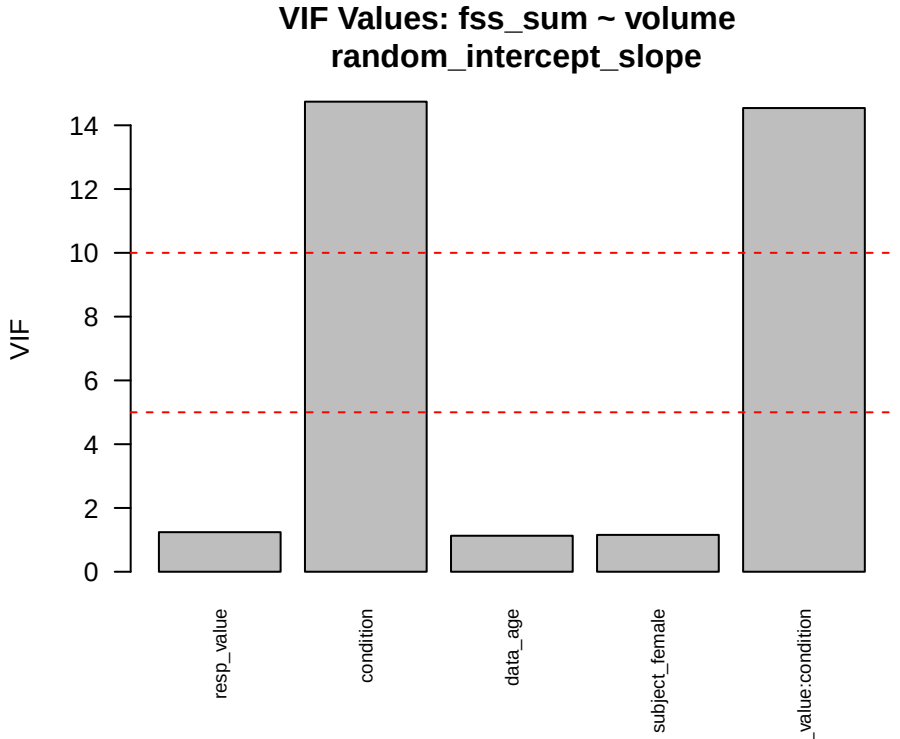

Scale−Location: fss_sum ~ pif
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
3.5
30
40
50
60

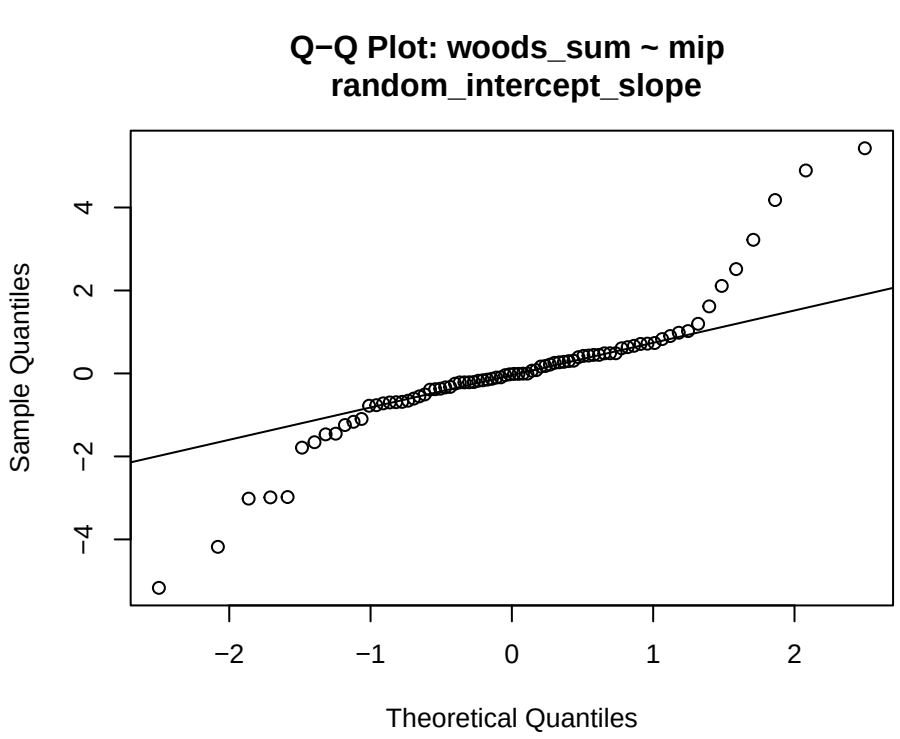

VIF Values: fss_sum ~ pif
random_intercept
VIF
0
5
10
15
20
resp_value
condition
data_age
subject_female
value:condition

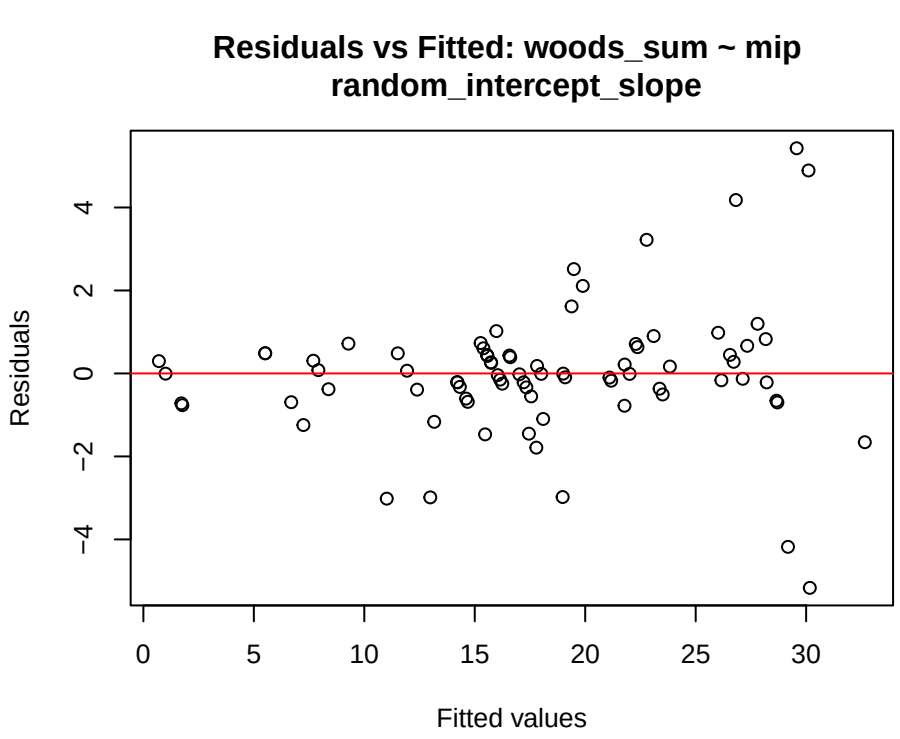

Q−Q Plot: fss_sum ~ volume
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2

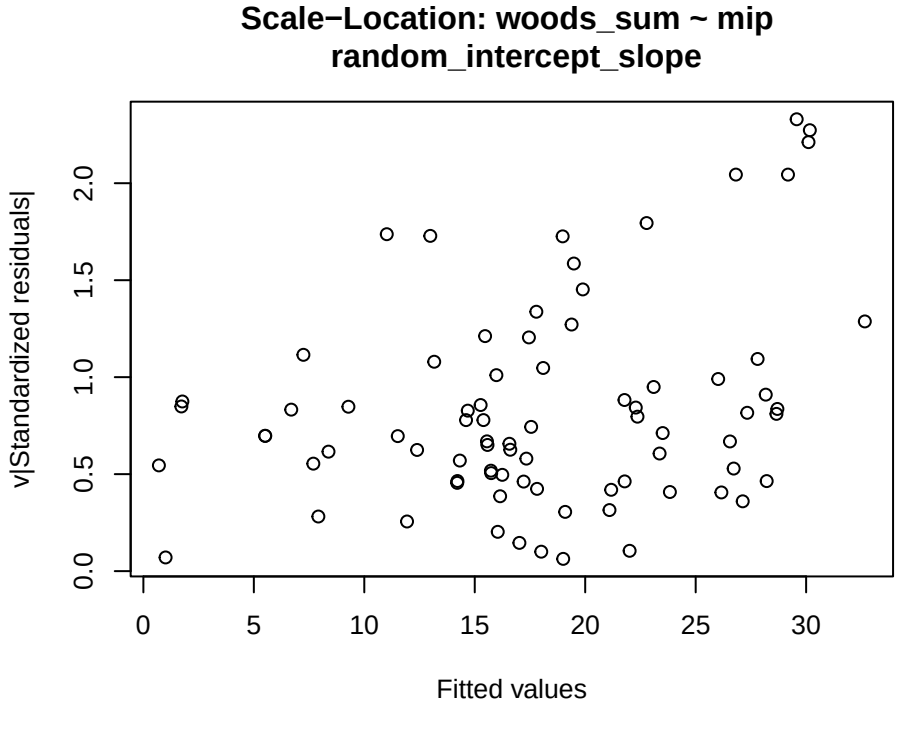

Residuals vs Fitted: fss_sum ~ volume
random_intercept_slope
Residuals
Fitted values
−10
−5
0
5
10
20
30
40
50
60

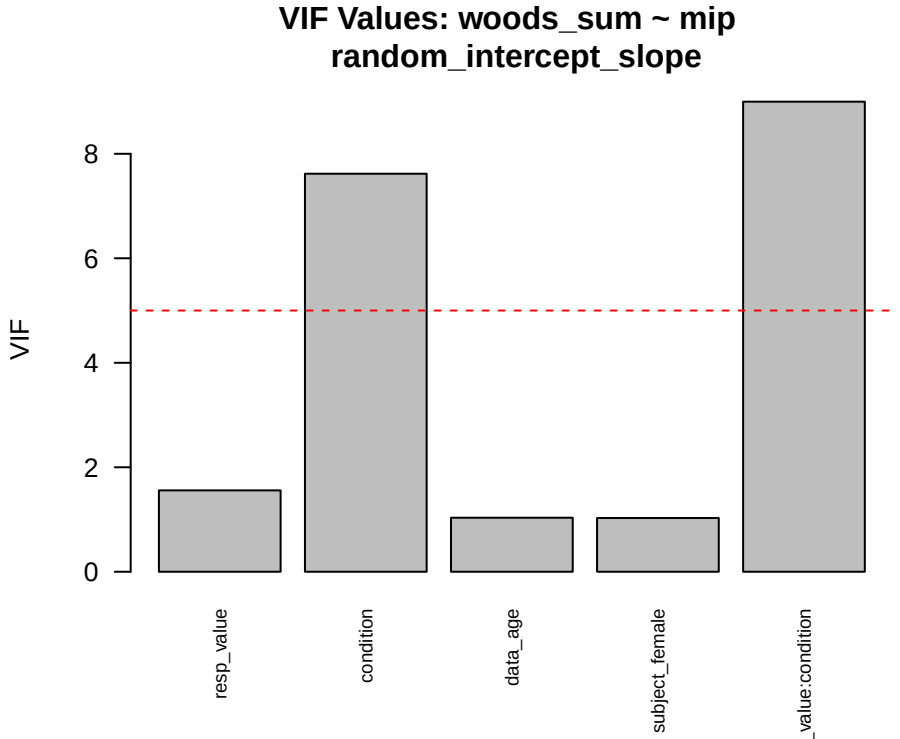

Scale−Location: fss_sum ~ volume
random_intercept_slope
√|Standardized residuals|
Fitted values
0.0
0.5
1.0
1.5
2.0
2.5
3.0
20
30
40
50
60

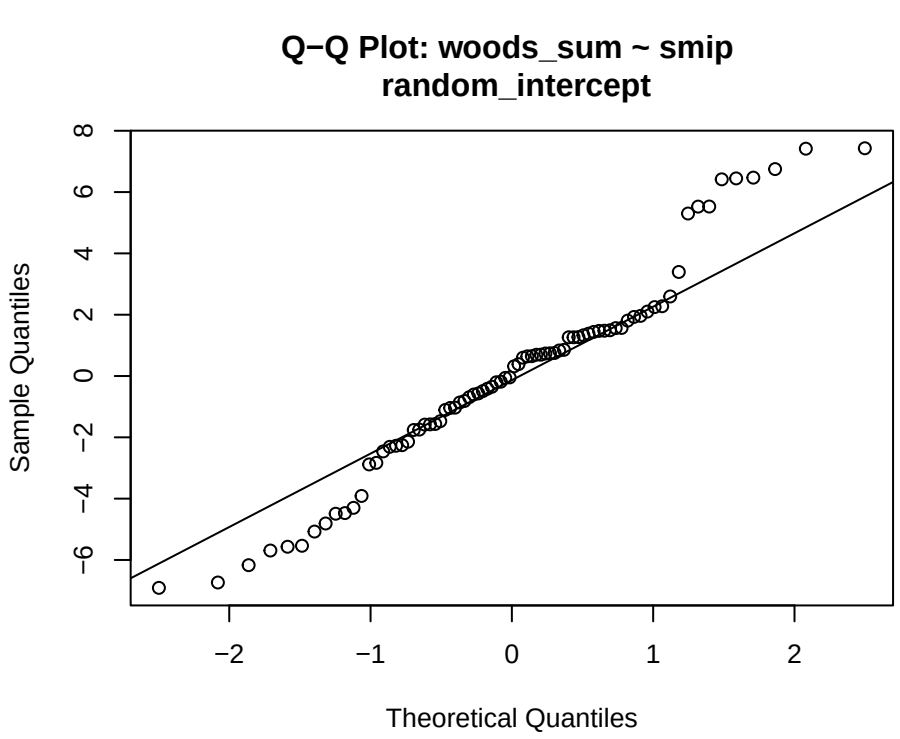

VIF Values: fss_sum ~ volume
random_intercept_slope
VIF
0
2
4
6
8
10
12
14
resp_value
condition
data_age
subject_female
value:condition

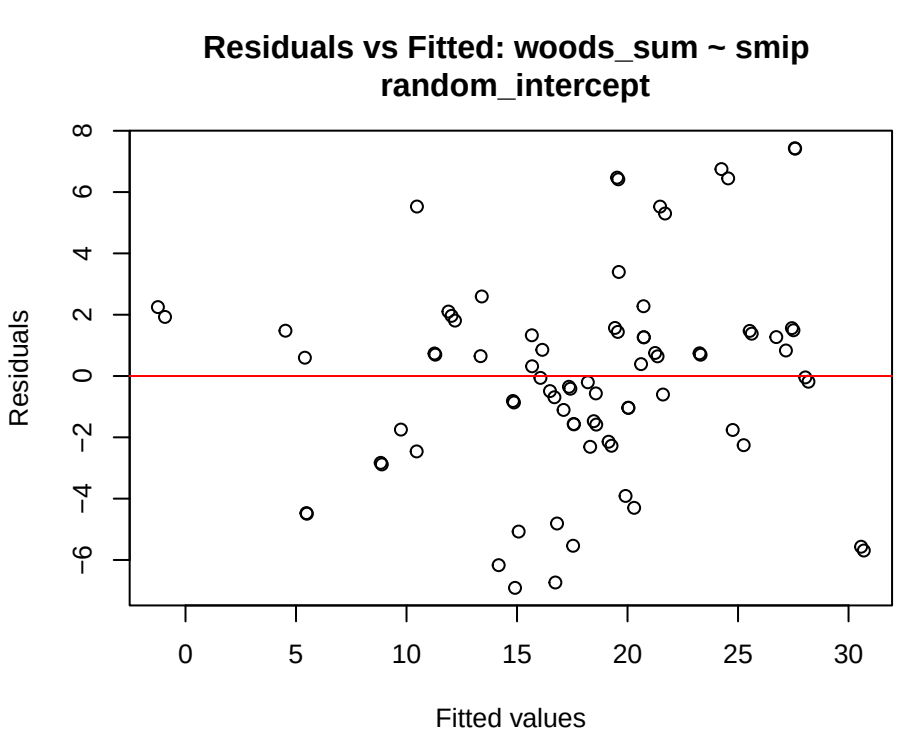

Q−Q Plot: woods_sum ~ mip
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−4
−2
0
2
4
−2
−1
0
1
2

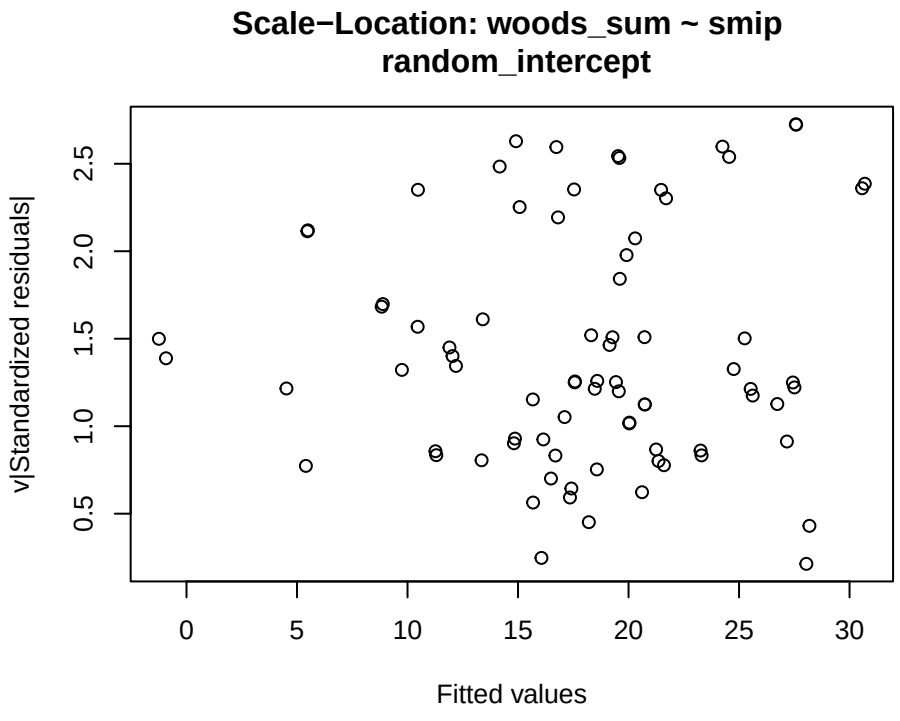

Residuals vs Fitted: woods_sum ~ mip
random_intercept_slope
Residuals
Fitted values
−4
−2
0
2
4
0
5
10
15
20
25
30

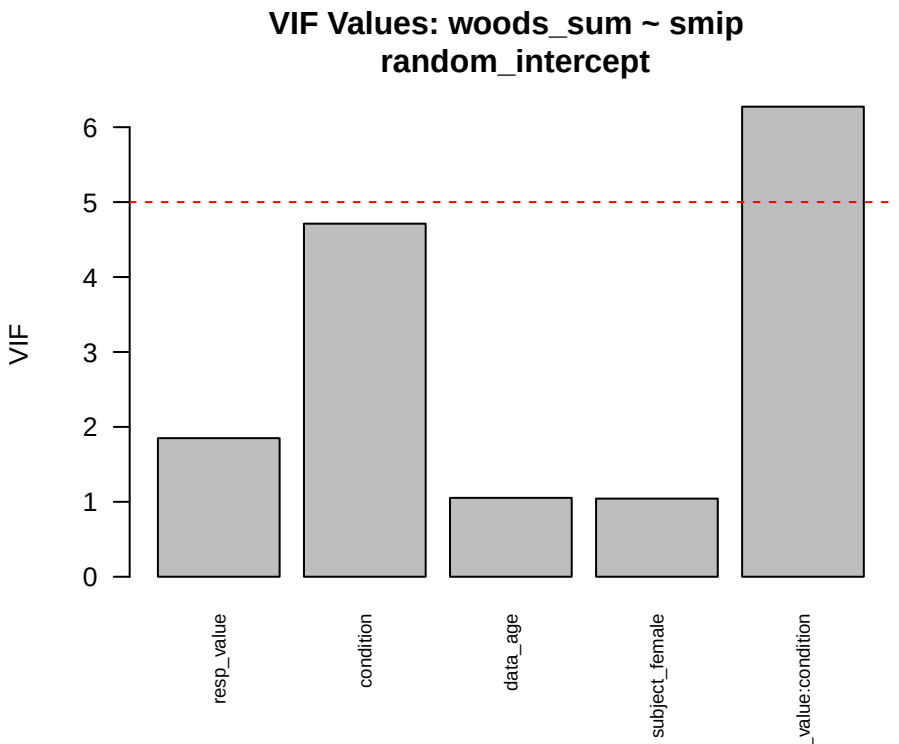

Scale−Location: woods_sum ~ mip
random_intercept_slope
√|Standardized residuals|
Fitted values
0.0
0.5
1.0
1.5
2.0
0
5
10
15
20
25
30

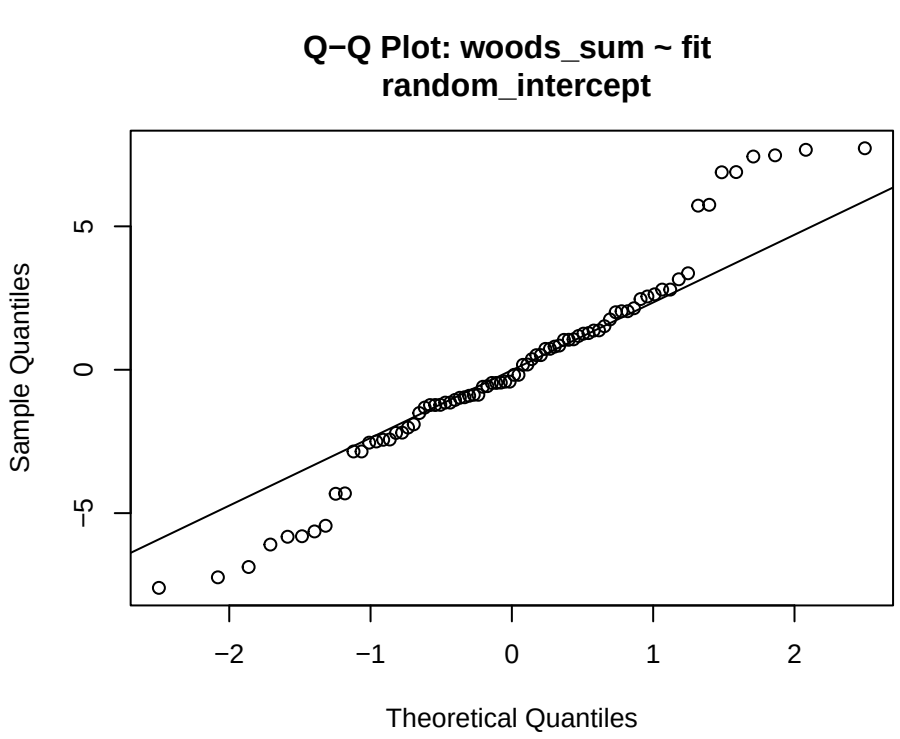

VIF Values: woods_sum ~ mip
random_intercept_slope
VIF
0
2
4
6
8
resp_value
condition
data_age
subject_female
value:condition

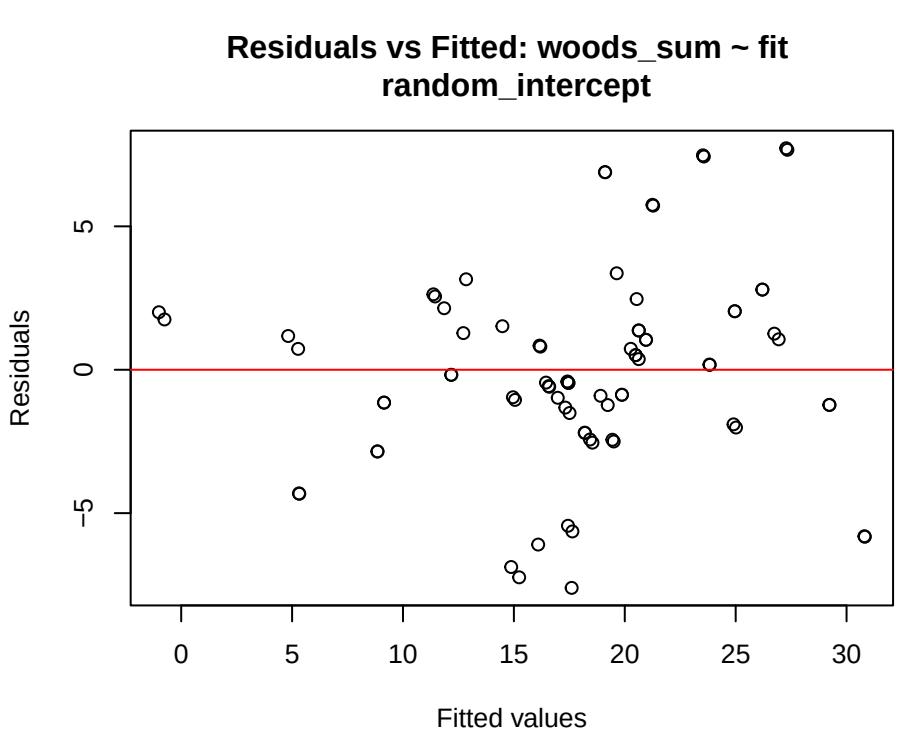

Q−Q Plot: woods_sum ~ smip
random_intercept
Sample Quantiles
Theoretical Quantiles
−6
−4
−2
0
2
4
6
8
−2
−1
0
1
2

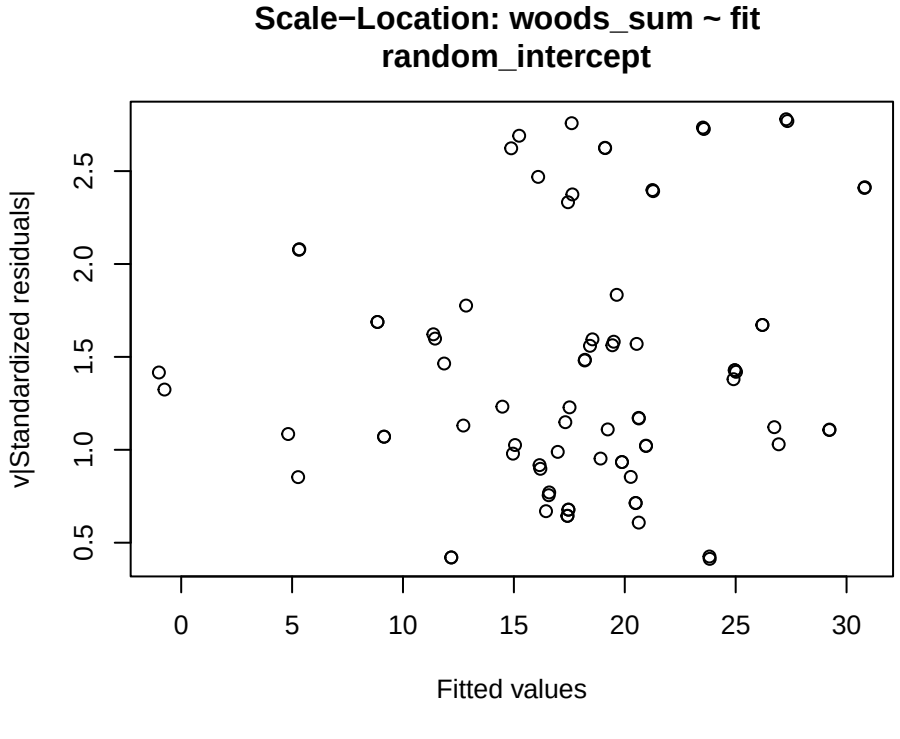

Residuals vs Fitted: woods_sum ~ smip
random_intercept
Residuals
Fitted values
−6
−4
−2
0
2
4
6
8
0
5
10
15
20
25
30

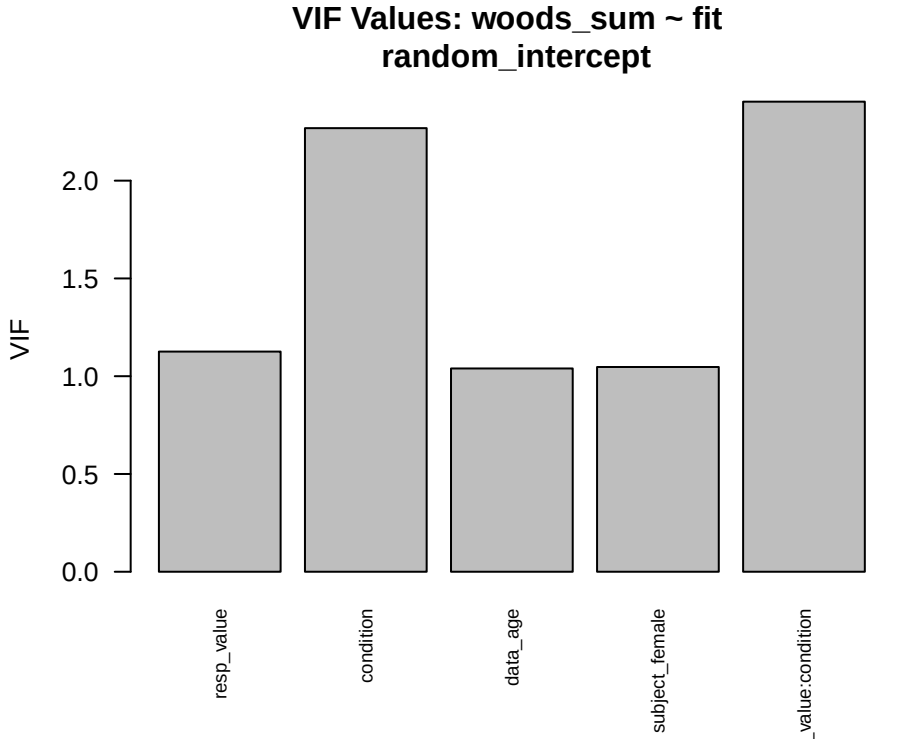

Scale−Location: woods_sum ~ smip
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
0
5
10
15
20
25
30

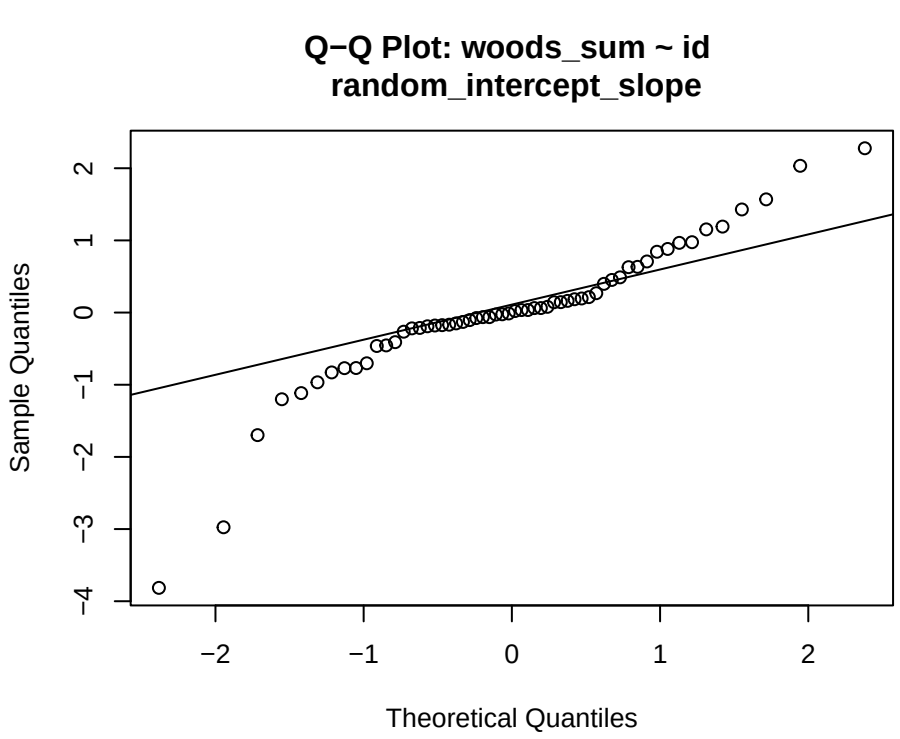

VIF Values: woods_sum ~ smip
random_intercept
VIF
0
1
2
3
4
5
6
resp_value
condition
data_age
subject_female
value:condition

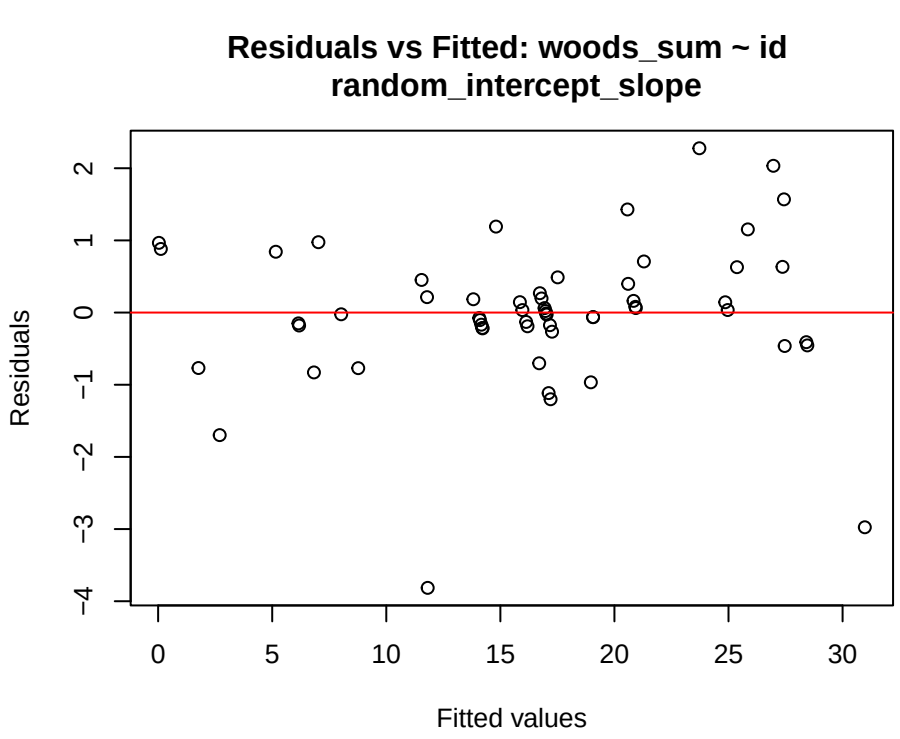

Q−Q Plot: woods_sum ~ fit
random_intercept
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2
−5
0
5

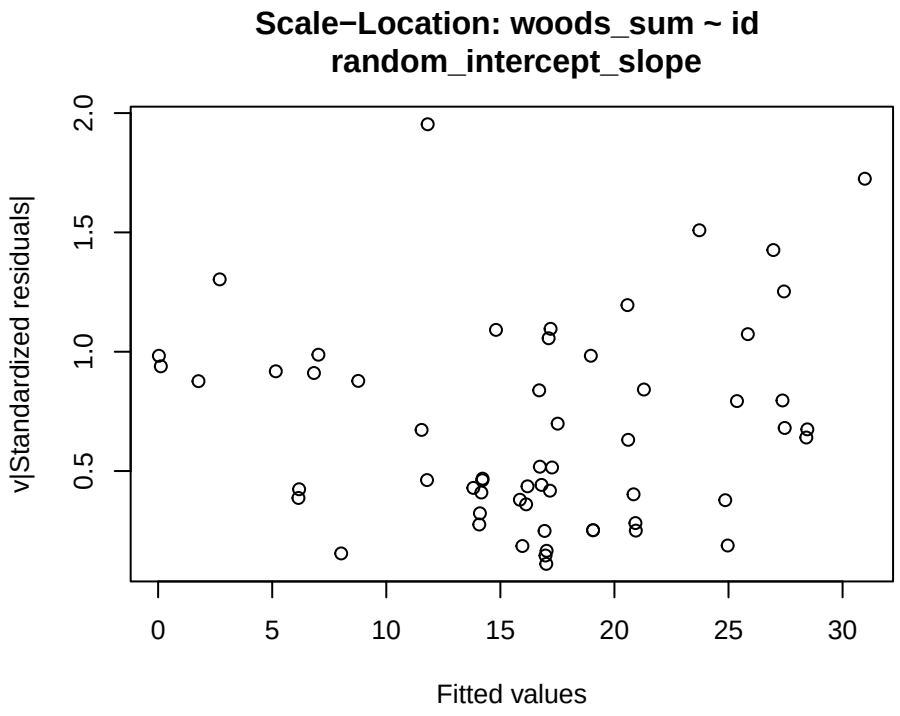

Residuals vs Fitted: woods_sum ~ fit
random_intercept
Residuals
Fitted values
0
5
10
15
20
25
30
−5
0
5

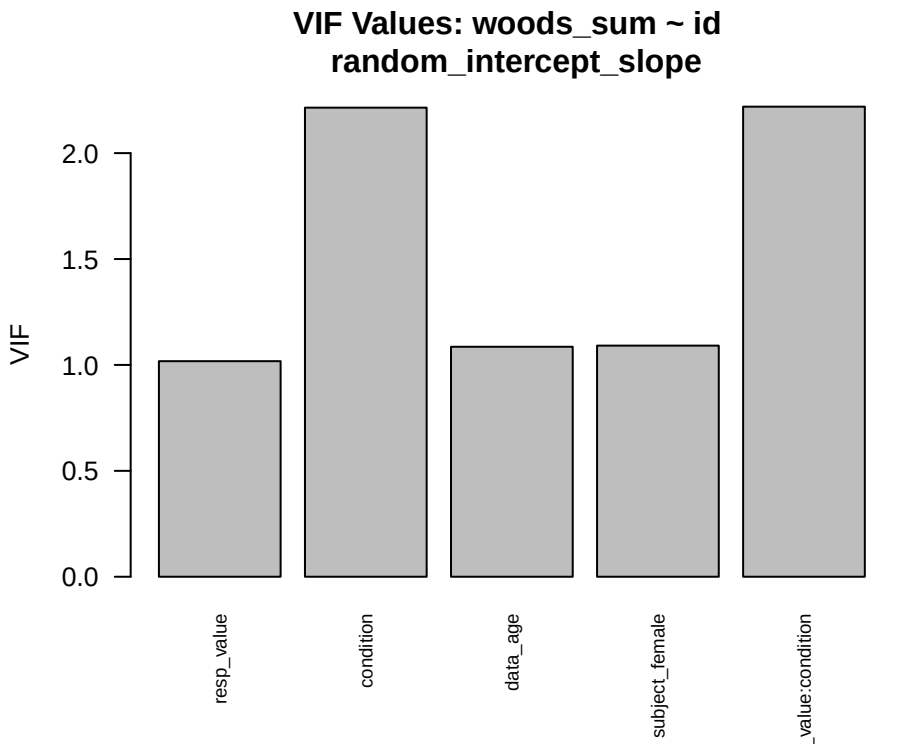

Scale−Location: woods_sum ~ fit
random_intercept
√|Standardized residuals|
Fitted values
0
5
10
15
20
25
30
0.5
1.0
1.5
2.0
2.5

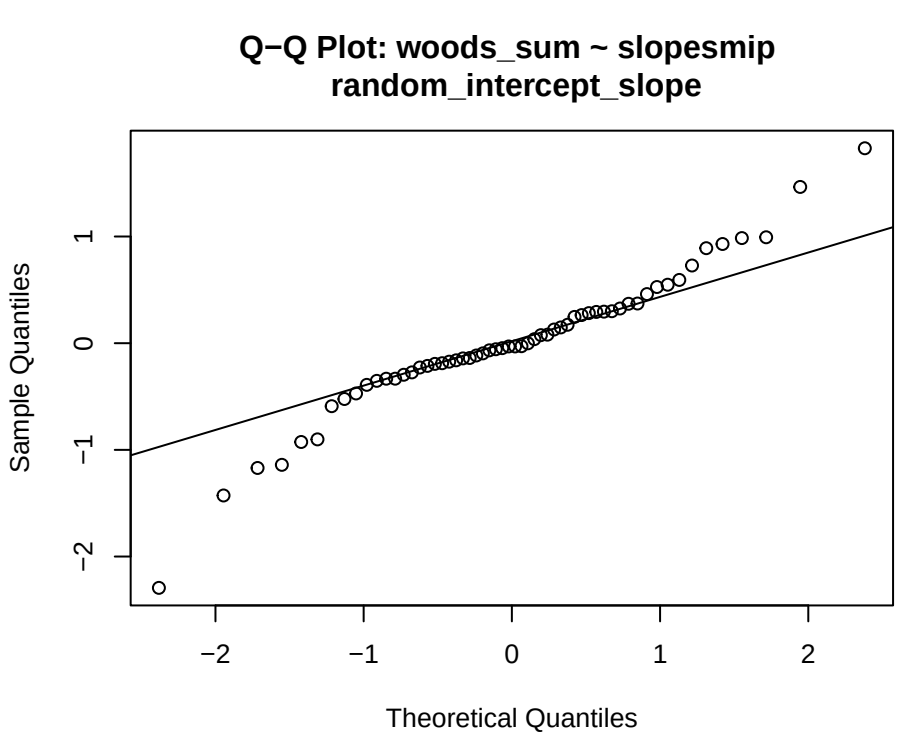

VIF Values: woods_sum ~ fit
random_intercept
VIF
0.0
0.5
1.0
1.5
2.0
resp_value
condition
data_age
subject_female
value:condition

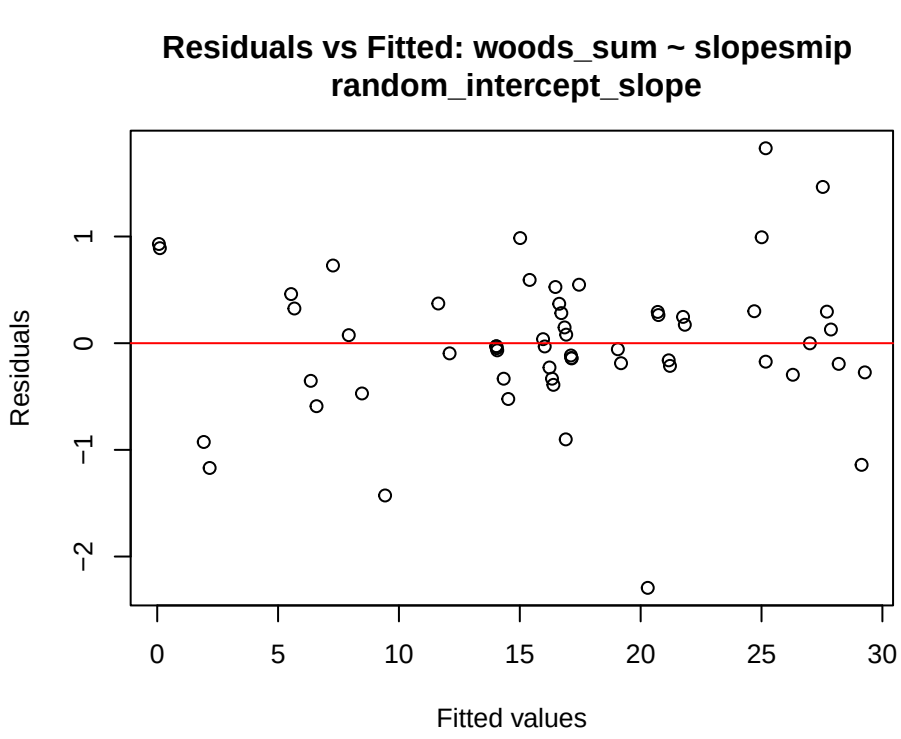

Q−Q Plot: woods_sum ~ id
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−4
−3
−2
−1
0
1
2
−2
−1
0
1
2


Residuals vs Fitted: woods_sum ~ id
random_intercept_slope
Residuals
Fitted values
−4
−3
−2
−1
0
1
2
0
5
10
15
20
25
30

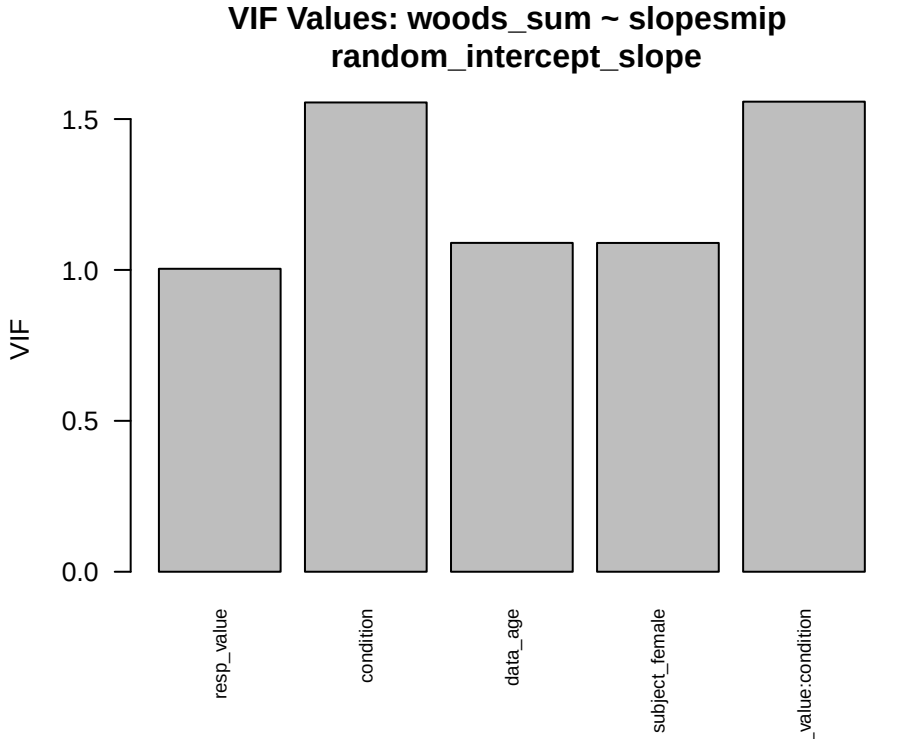

Scale−Location: woods_sum ~ id
random_intercept_slope
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
0
5
10
15
20
25
30

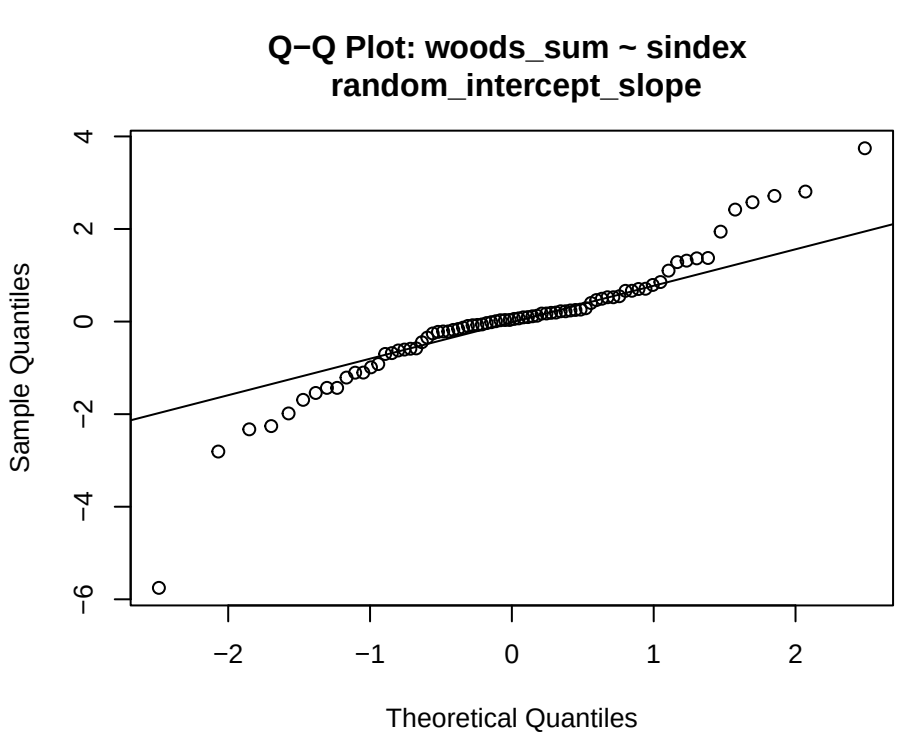

VIF Values: woods_sum ~ id
random_intercept_slope
VIF
0.0
0.5
1.0
1.5
2.0
resp_value
condition
data_age
subject_female
value:condition

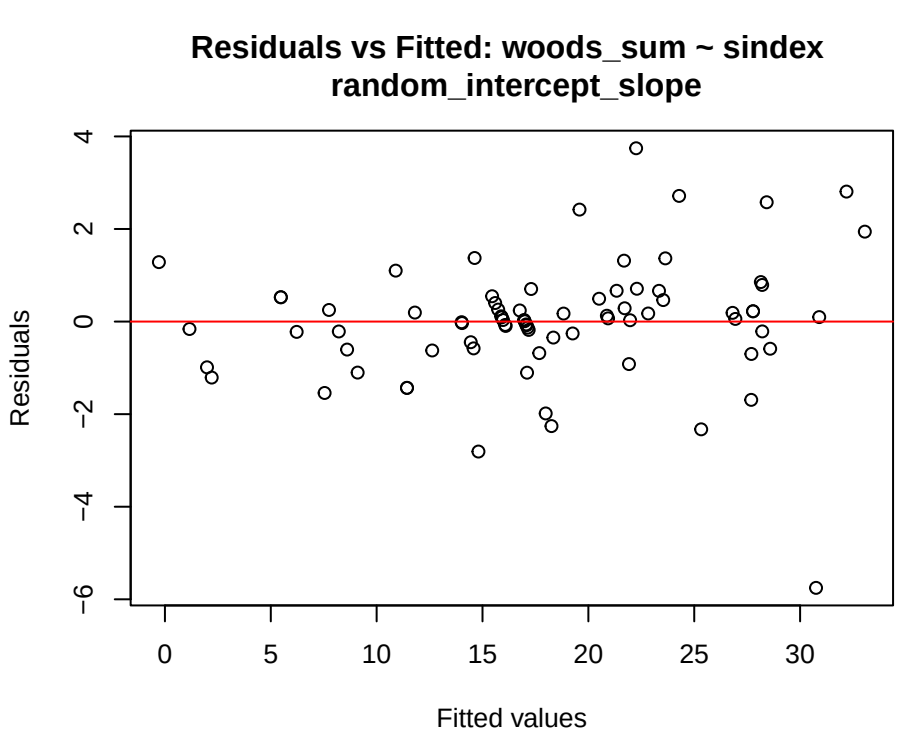

Q−Q Plot: woods_sum ~ slopesmip
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2

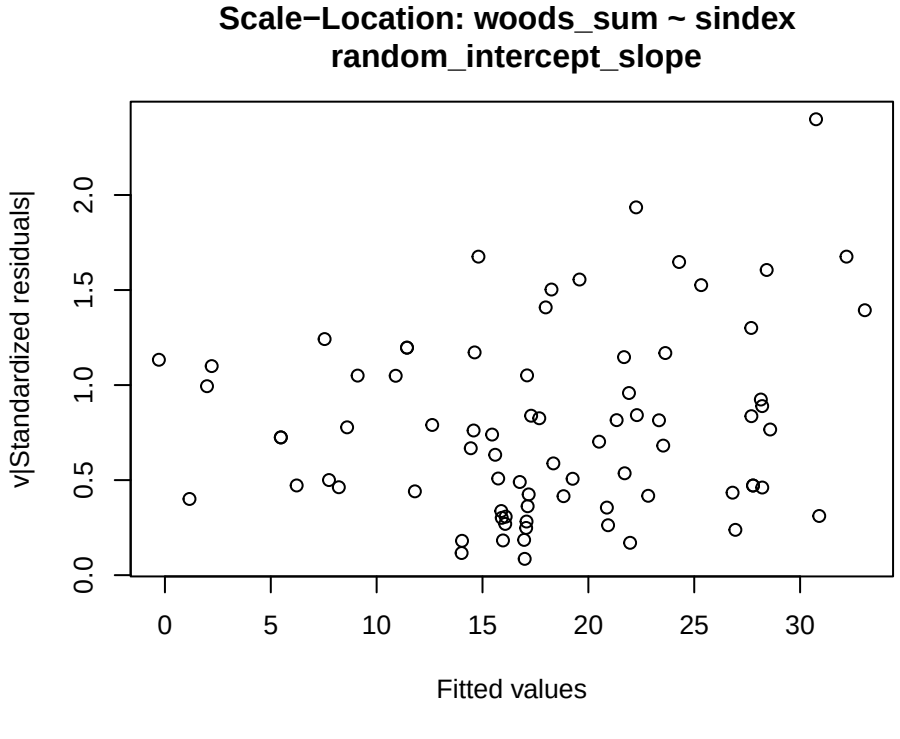

Residuals vs Fitted: woods_sum ~ slopesmip
random_intercept_slope
Residuals
Fitted values
0
5
10
15
20
25
30

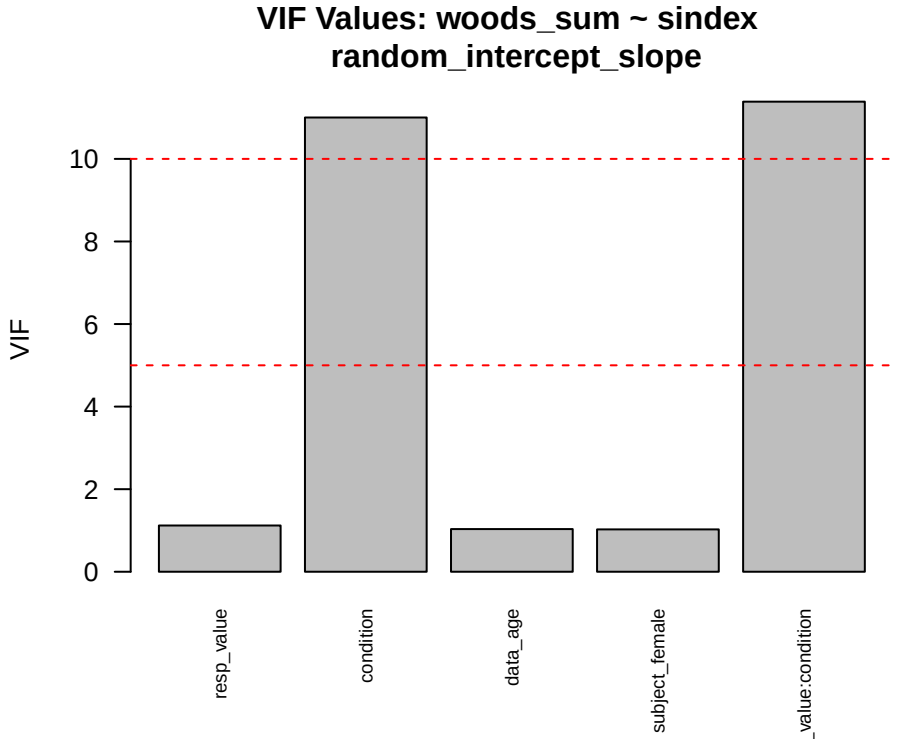
Scale−Location: woods_sum ~ slopesmip
random_intercept_slope
√|Standardized residuals|
Fitted values
0.0
0.5
1.0
1.5

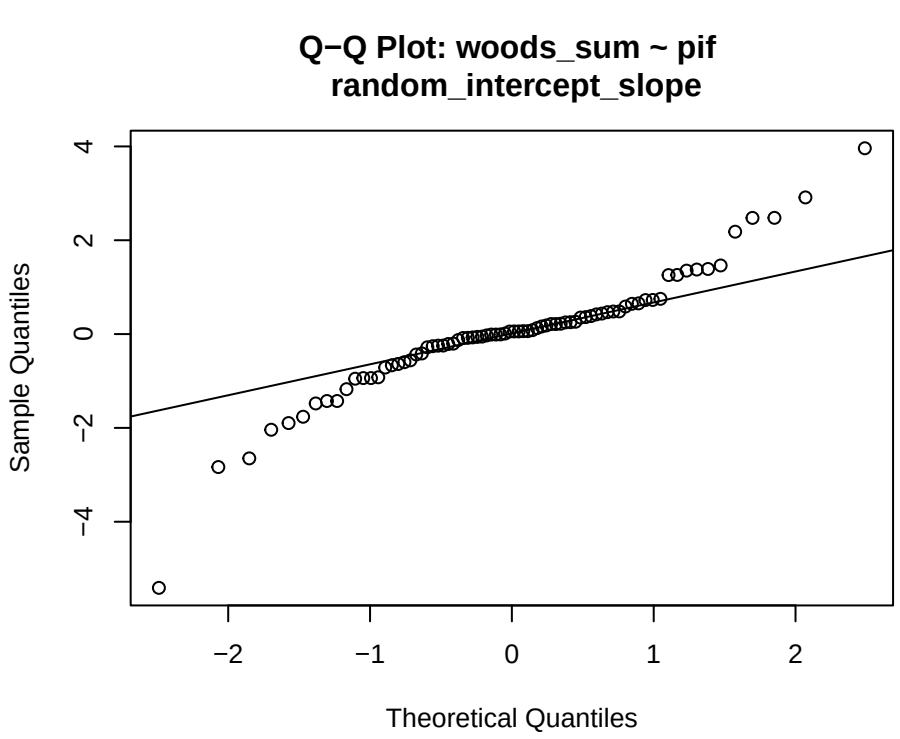

VIF Values: woods_sum ~ slopesmip
random_intercept_slope
VIF
0.0
0.5
1.0
1.5
resp_value
condition
data_age
subject_female
value:condition

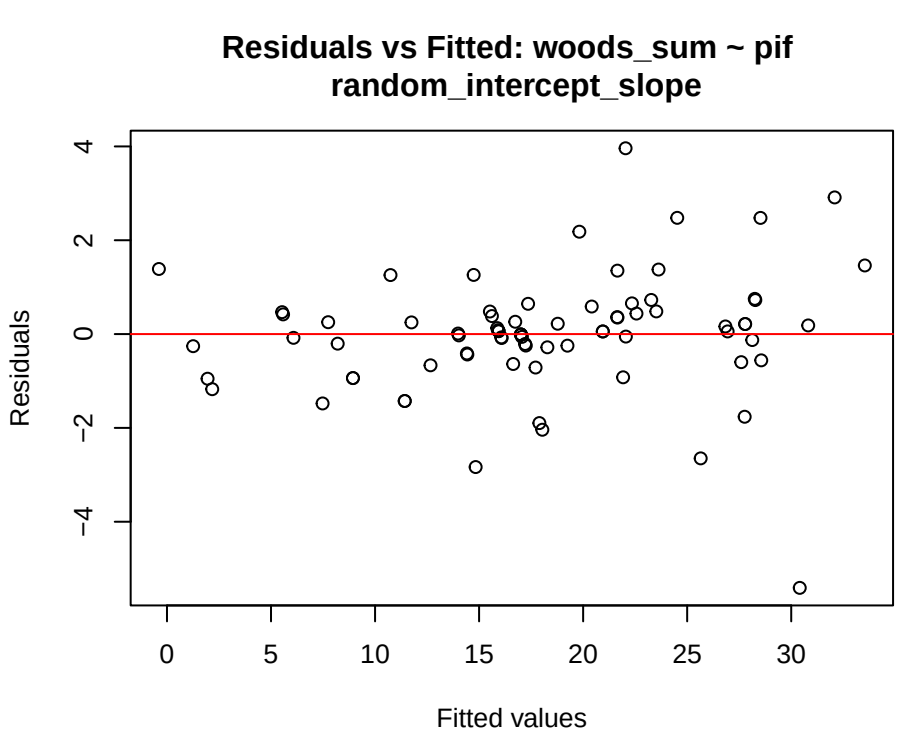

Q−Q Plot: woods_sum ~ sindex
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−6
−4
−2
0
2
4
−2
−1
0
1
2

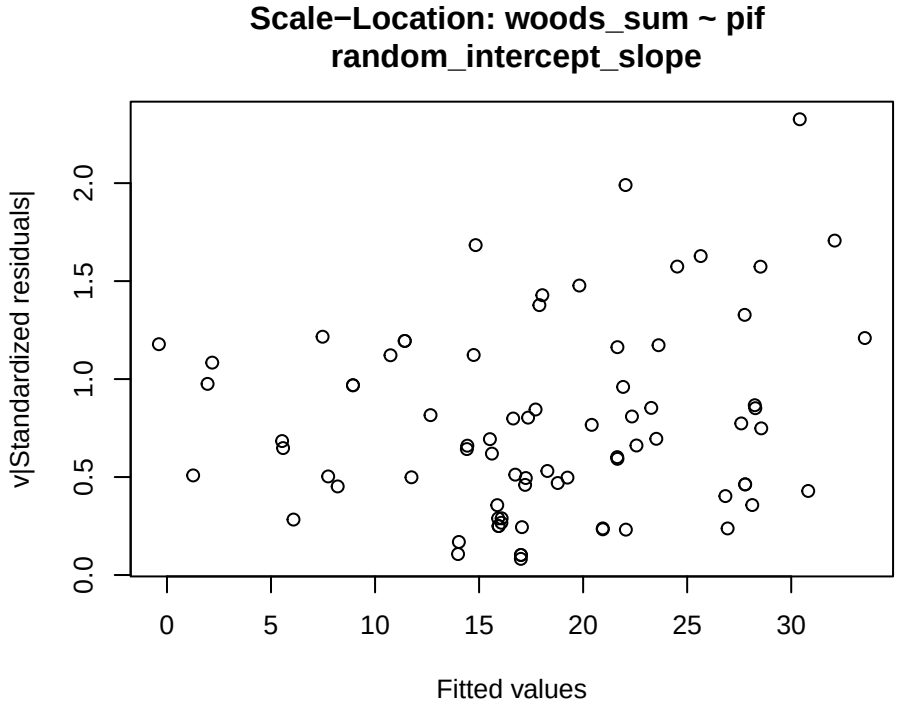

Residuals vs Fitted: woods_sum ~ sindex
random_intercept_slope
Residuals
Fitted values
−6
−4
−2
0
2
4
0
5
10
15
20
25
30

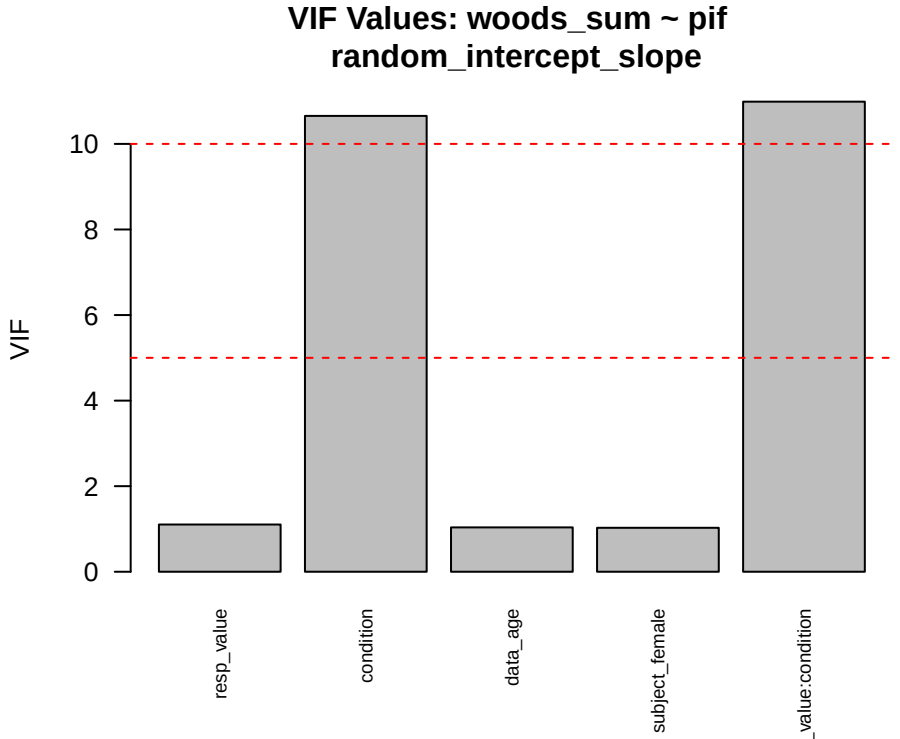

Scale−Location: woods_sum ~ sindex
random_intercept_slope
√|Standardized residuals|
Fitted values
0.0
0.5
1.0
1.5
2.0
0
5
10
15
20
25
30

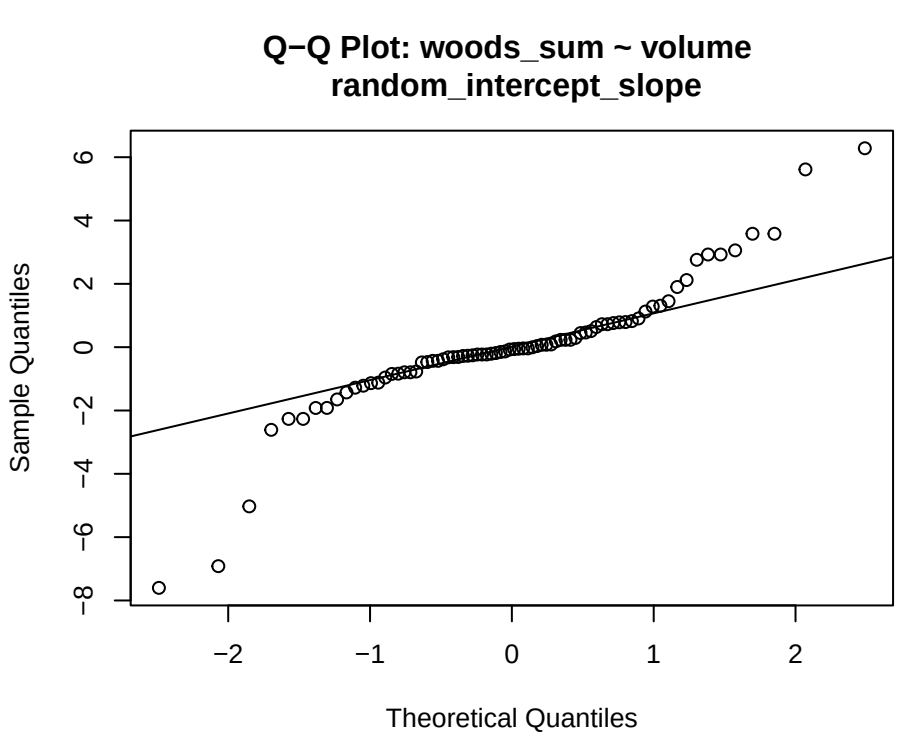

VIF Values: woods_sum ~ sindex
random_intercept_slope
VIF
0
2
4
6
8
10
resp_value
condition
data_age
subject_female
value:condition

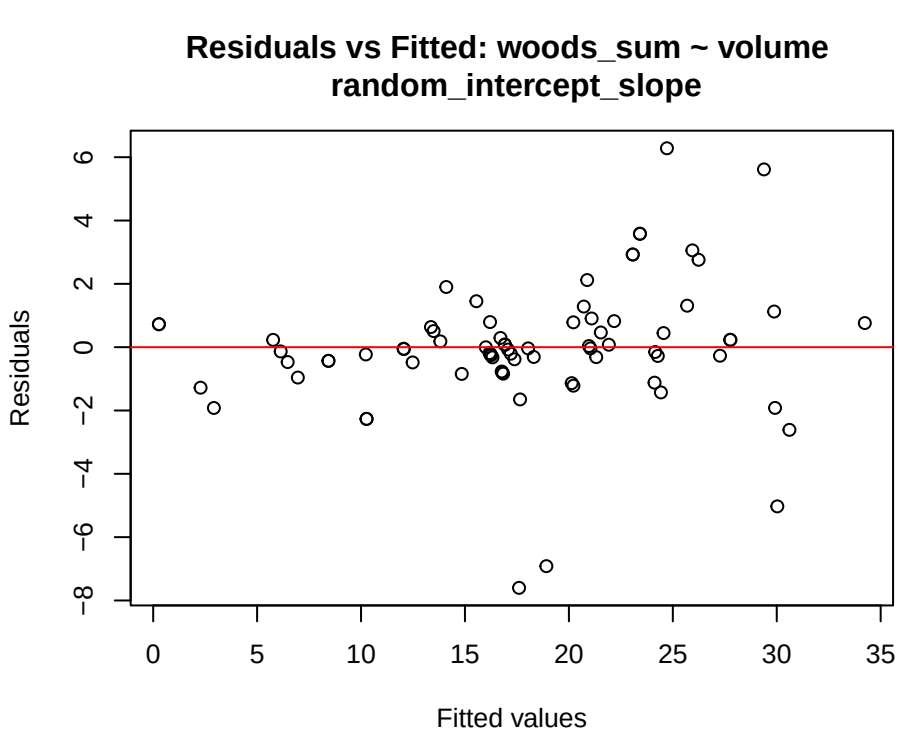

Q−Q Plot: woods_sum ~ pif
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2
−4
−2
0
2
4

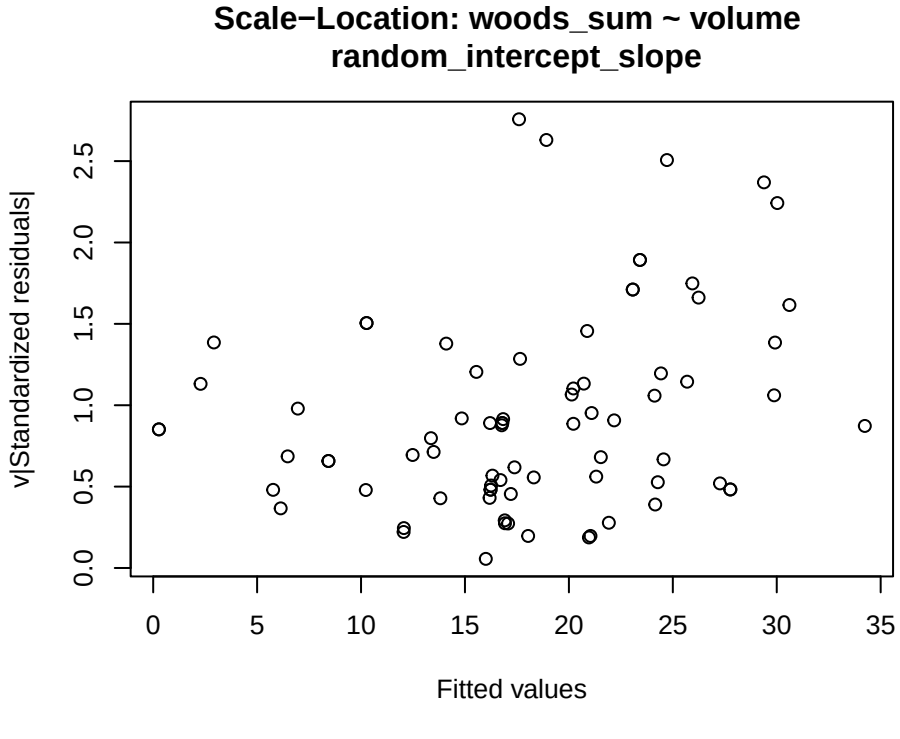

Residuals vs Fitted: woods_sum ~ pif
random_intercept_slope
Residuals
Fitted values
0
5
10
15
20
25
30
−4
−2
0
2
4

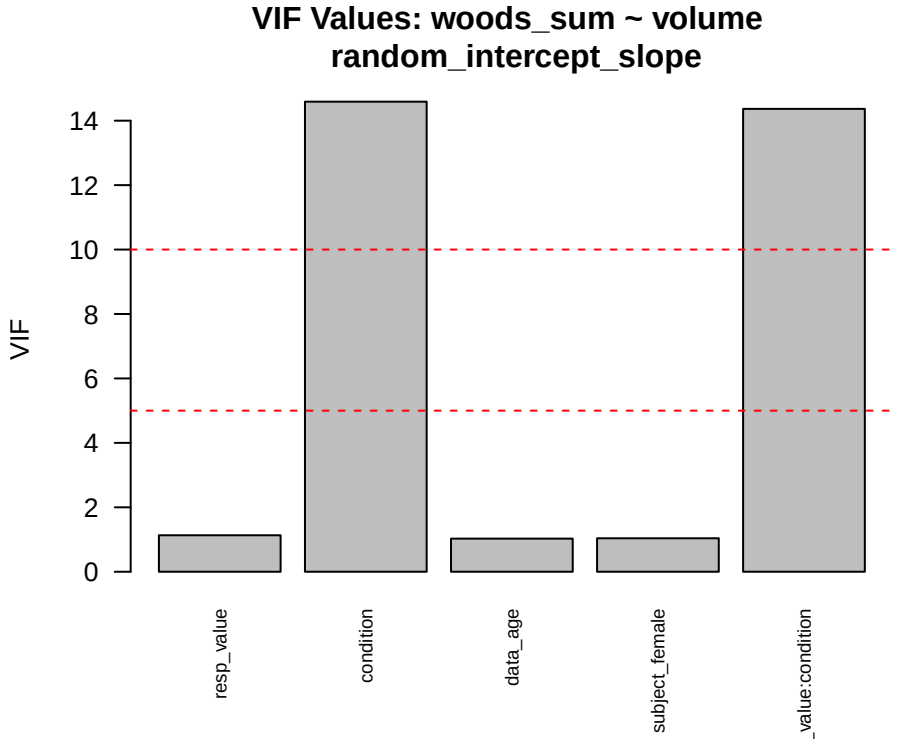

Scale−Location: woods_sum ~ pif
random_intercept_slope
√|Standardized residuals|
Fitted values
0
5
10
15
20
25
30
0.0
0.5
1.0
1.5
2.0

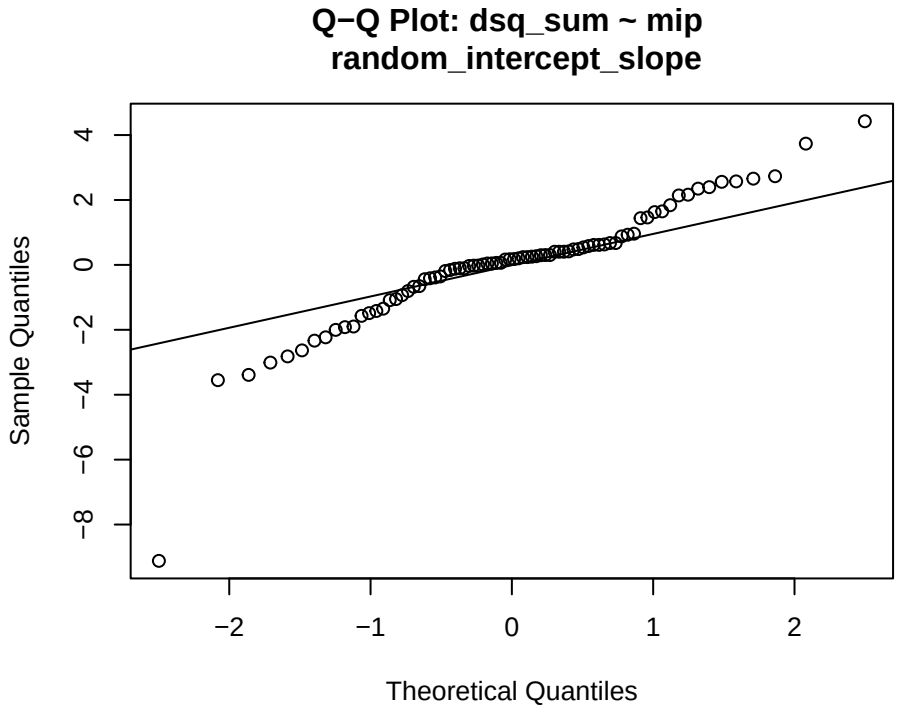

VIF Values: woods_sum ~ pif
random_intercept_slope
VIF
0
2
4
6
8
10
resp_value
condition
data_age
subject_female
value:condition

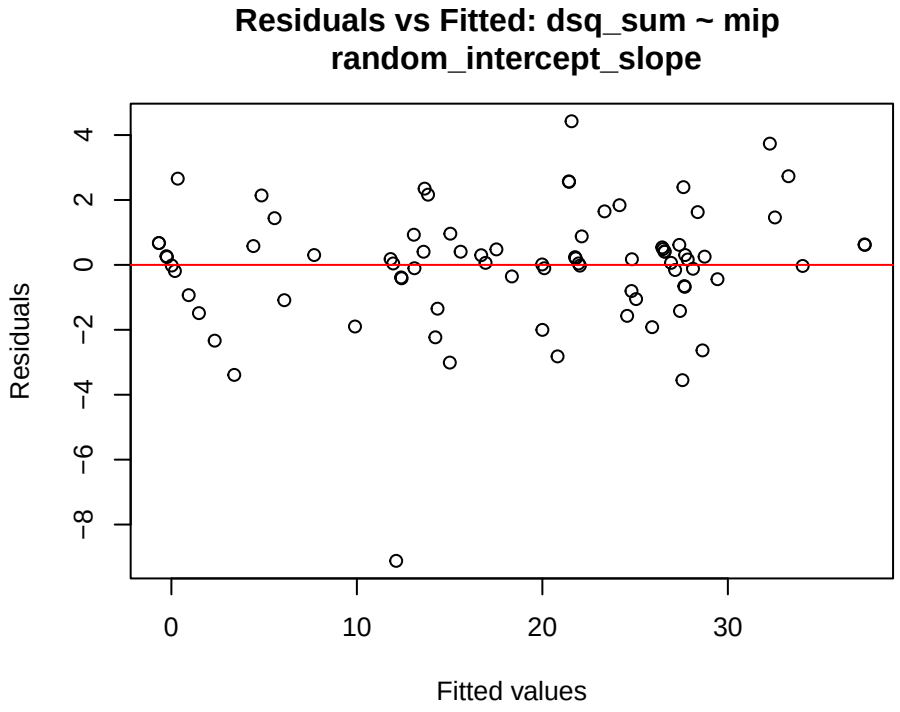

Q−Q Plot: woods_sum ~ volume
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−8
−6
−4
−2
0
2
4
6
−2
−1
0
1
2

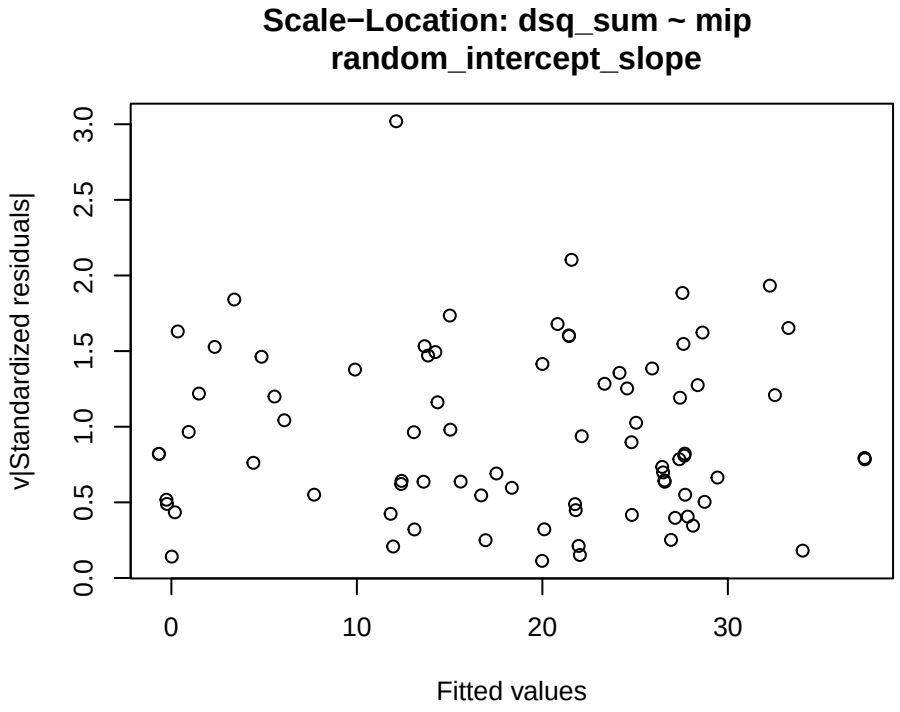

Residuals vs Fitted: woods_sum ~ volume
random_intercept_slope
Residuals
Fitted values
−8
−6
−4
−2
0
2
4
6
0
5
10
15
20
25
30
35

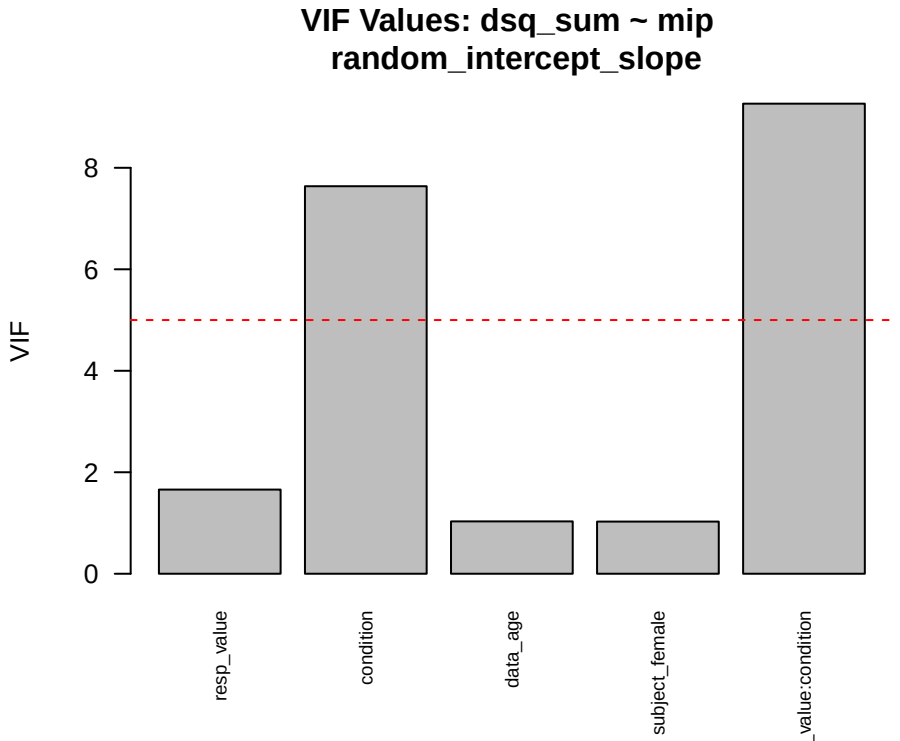

Scale−Location: woods_sum ~ volume
random_intercept_slope
√|Standardized residuals|
Fitted values
0.0
0.5
1.0
1.5
2.0
2.5
0
5
10
15
20
25
30
35

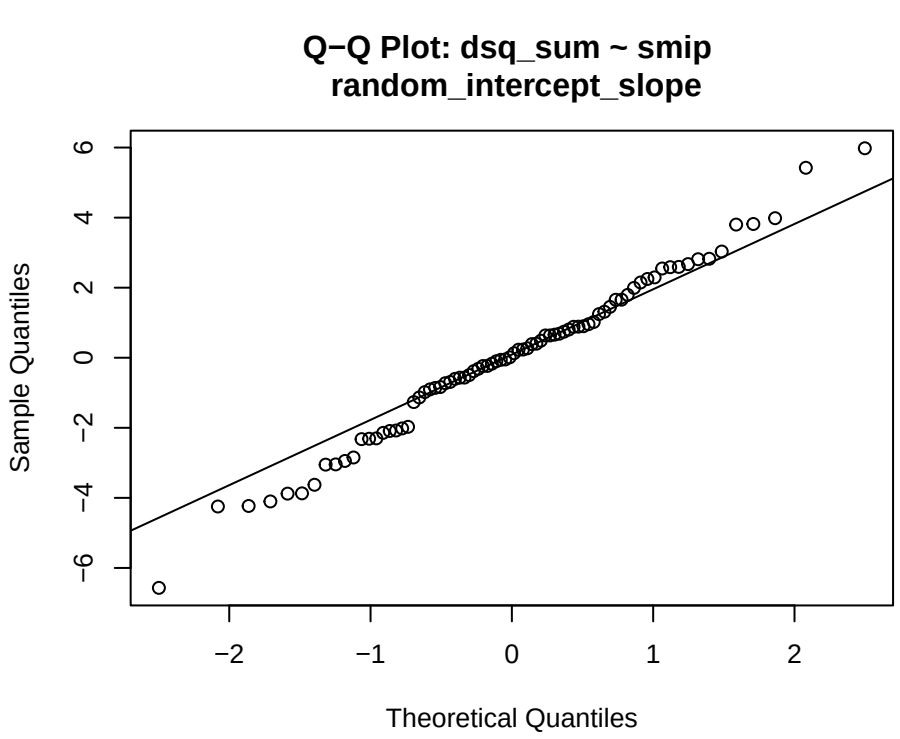

VIF Values: woods_sum ~ volume
random_intercept_slope
VIF
0
2
4
6
8
10
12
14
resp_value
condition
data_age
subject_female
value:condition

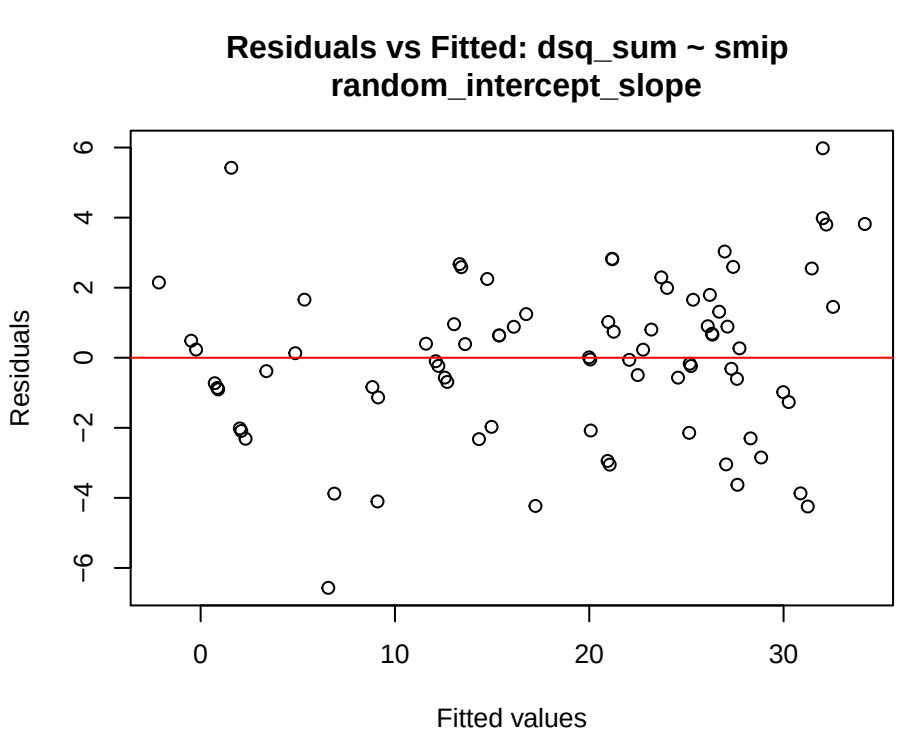

Q−Q Plot: dsq_sum ~ mip
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
4
2
0
−2
−4
−6
−8
−2
−1
0
1
2

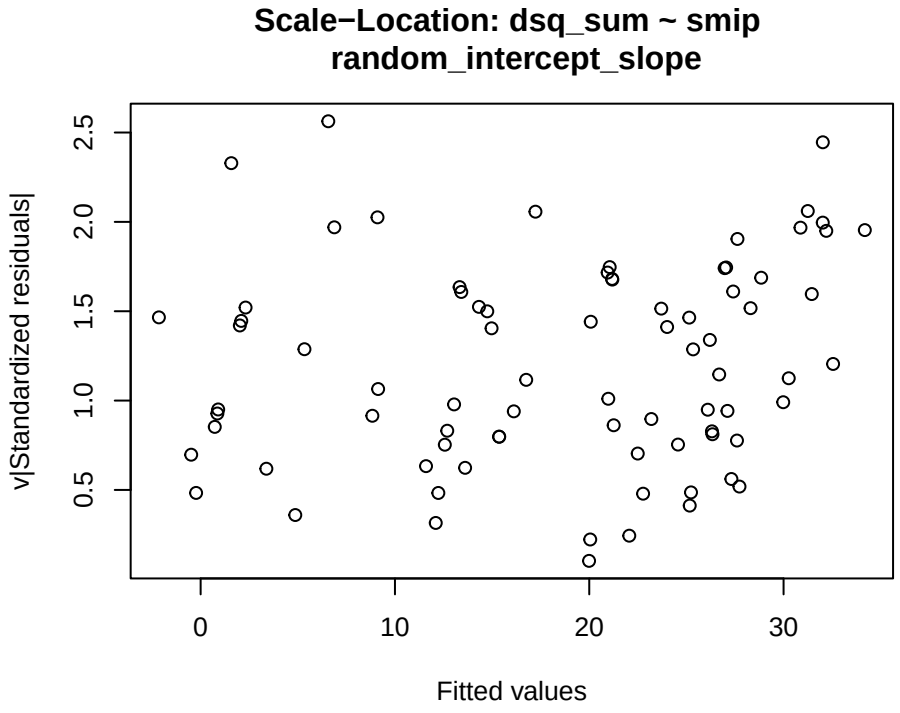

Residuals vs Fitted: dsq_sum ~ mip
random_intercept_slope
Residuals
Fitted values
4
2
0
−2
−4
−6
−8
0
10
20
30

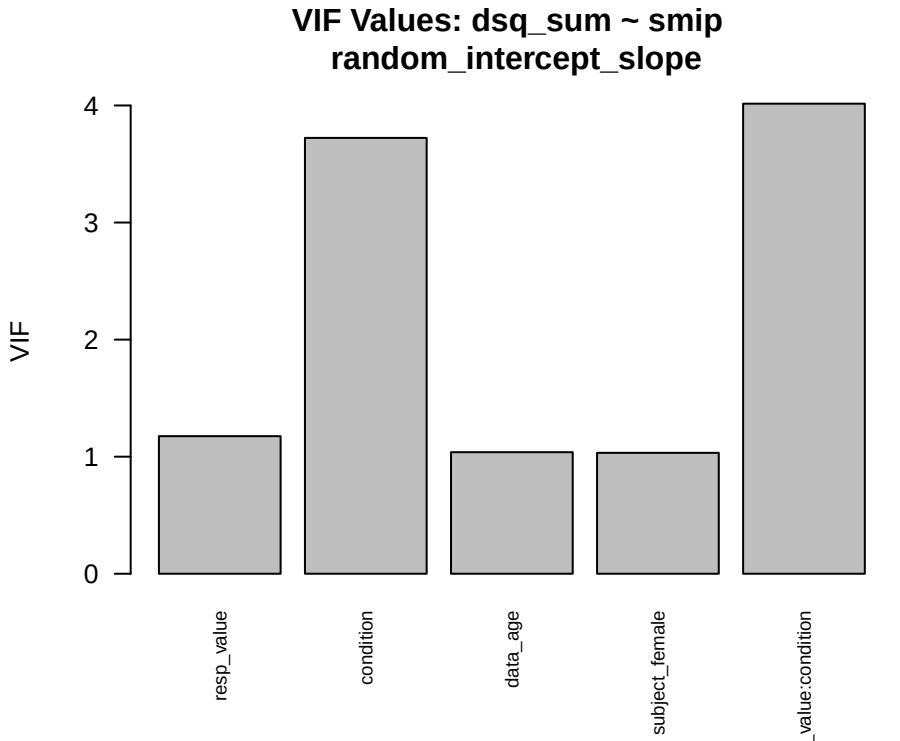

Scale−Location: dsq_sum ~ mip
random_intercept_slope
√|Standardized residuals|
Fitted values
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
10
20
30

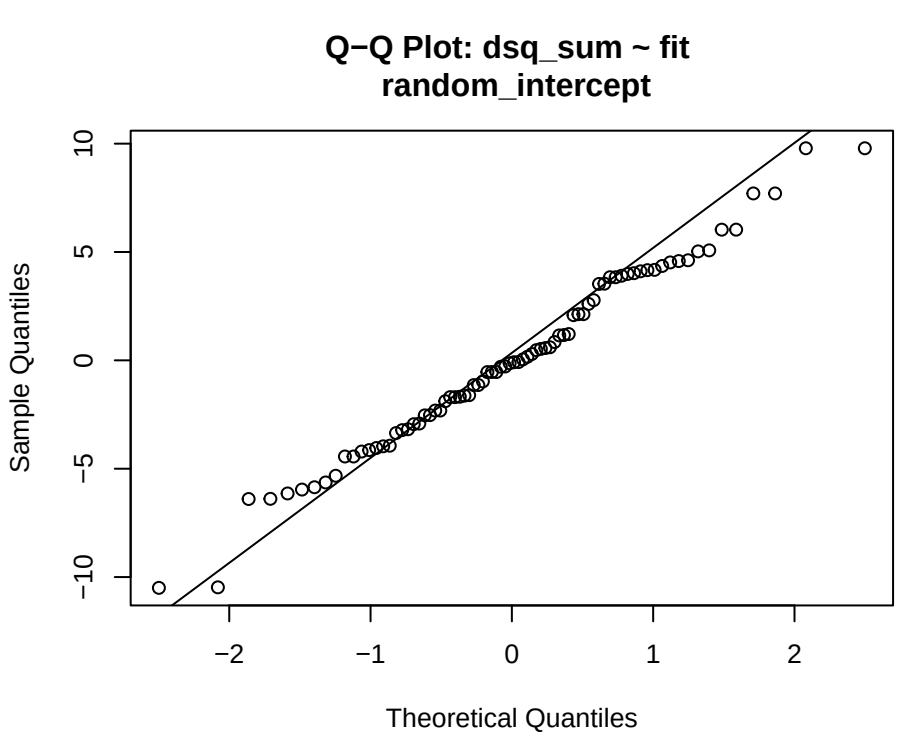

VIF Values: dsq_sum ~ mip
random_intercept_slope
VIF
8
6
4
2
0
resp_value
condition
data_age
subject_female
value:condition

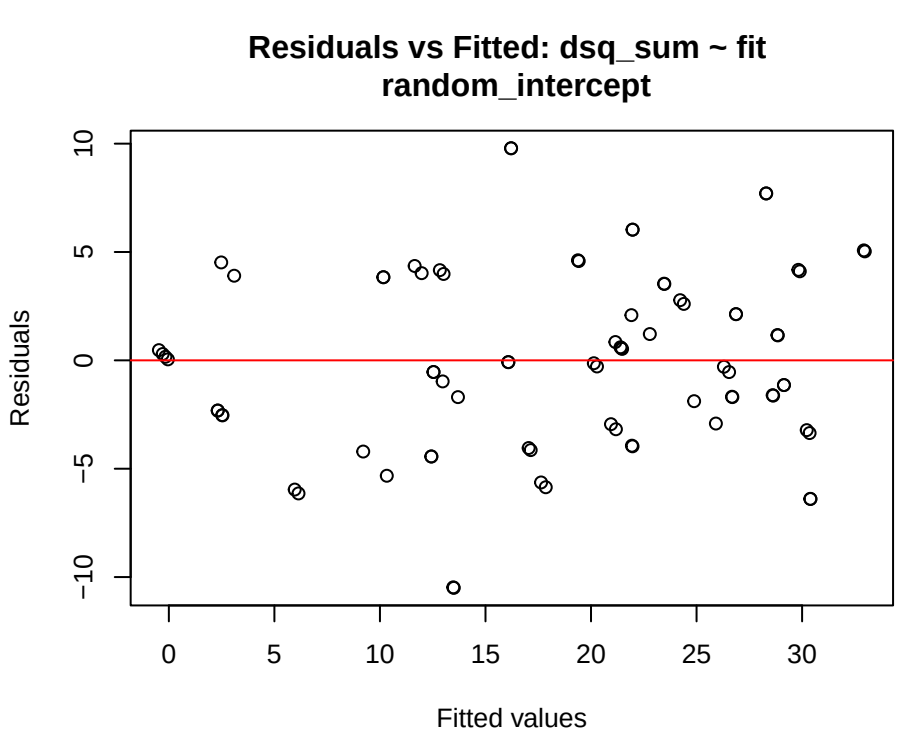

Q−Q Plot: dsq_sum ~ smip
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−6
−4
−2
0
2
4
6
−2
−1
0
1
2

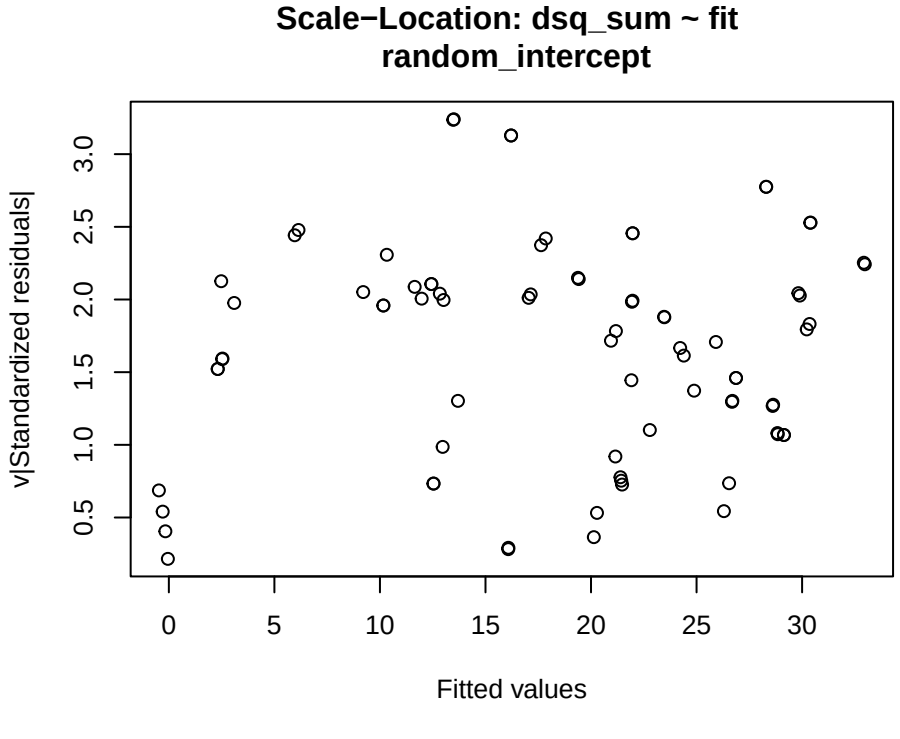

Residuals vs Fitted: dsq_sum ~ smip
random_intercept_slope
Residuals
Fitted values
−6
−4
−2
0
2
4
6
0
10
20
30

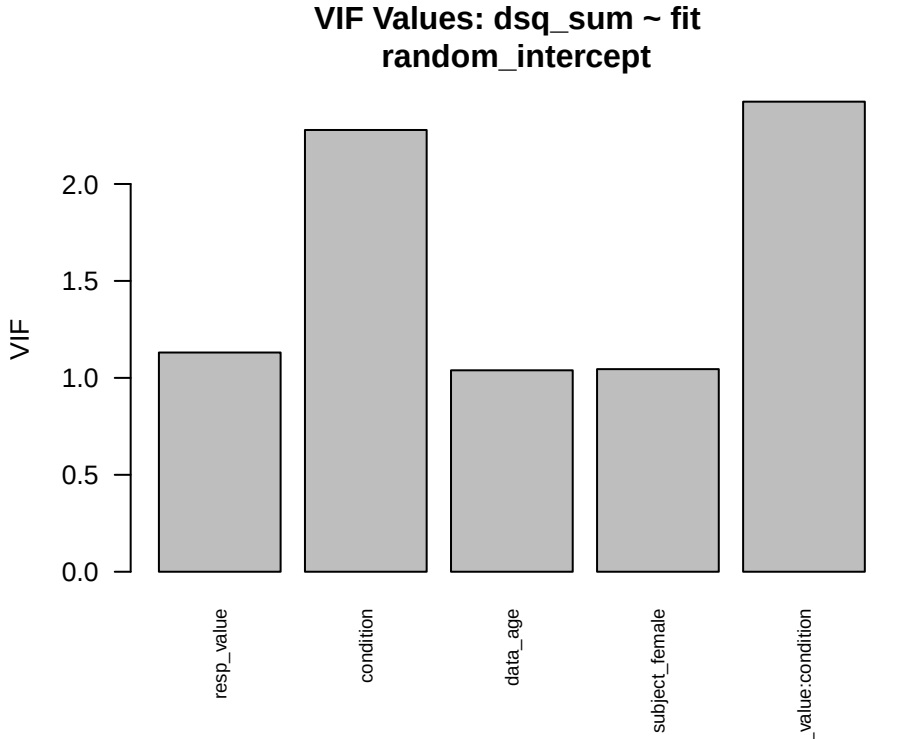

Scale−Location: dsq_sum ~ smip
random_intercept_slope
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
0
10
20
30

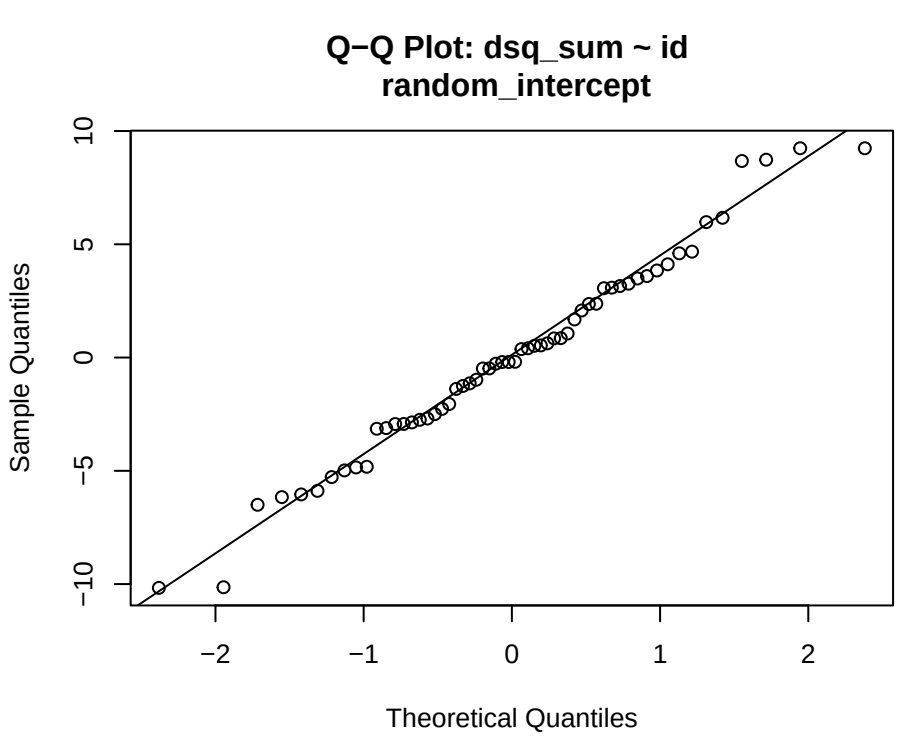

VIF Values: dsq_sum ~ smip
random_intercept_slope
VIF
0
1
2
3
4
resp_value
condition
data_age
subject_female
value:condition

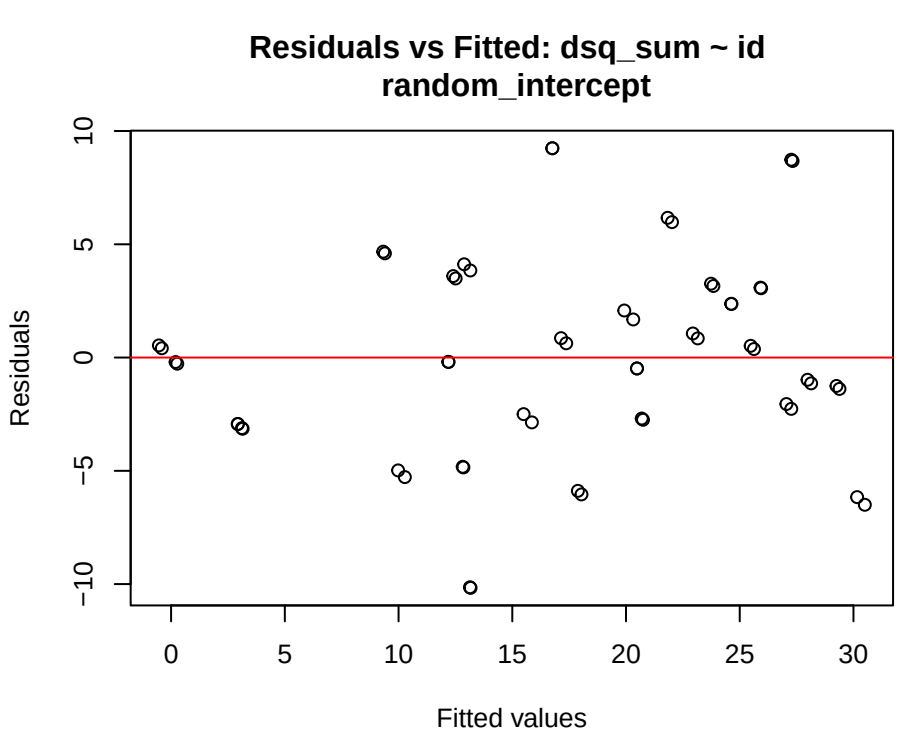

Q−Q Plot: dsq_sum ~ fit
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2

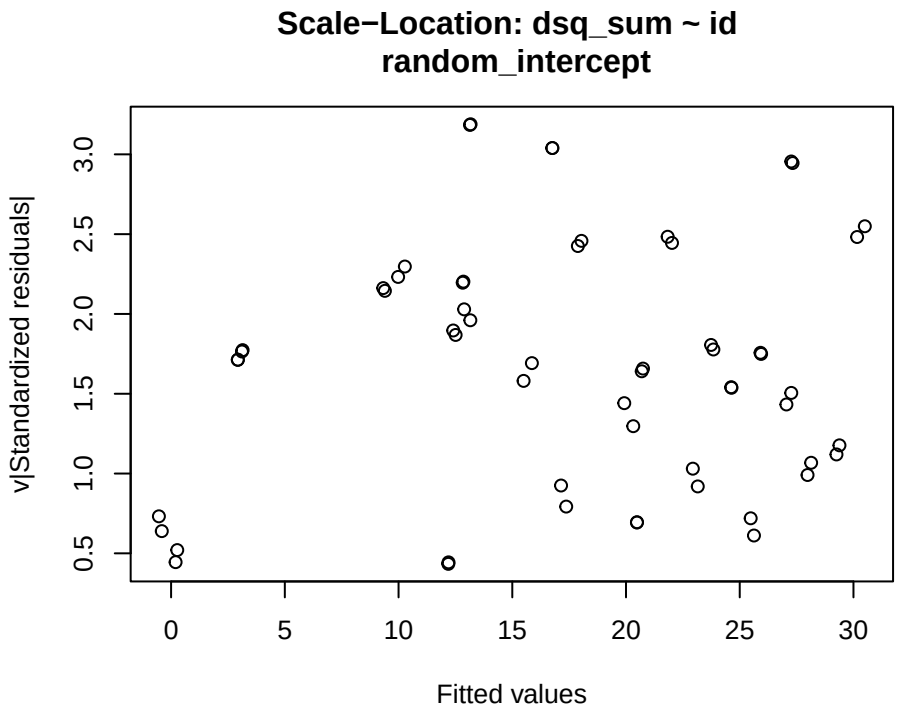

Residuals vs Fitted: dsq_sum ~ fit
random_intercept
Residuals
Fitted values
−10
−5
0
5
10
0
5
10
15
20
25
30

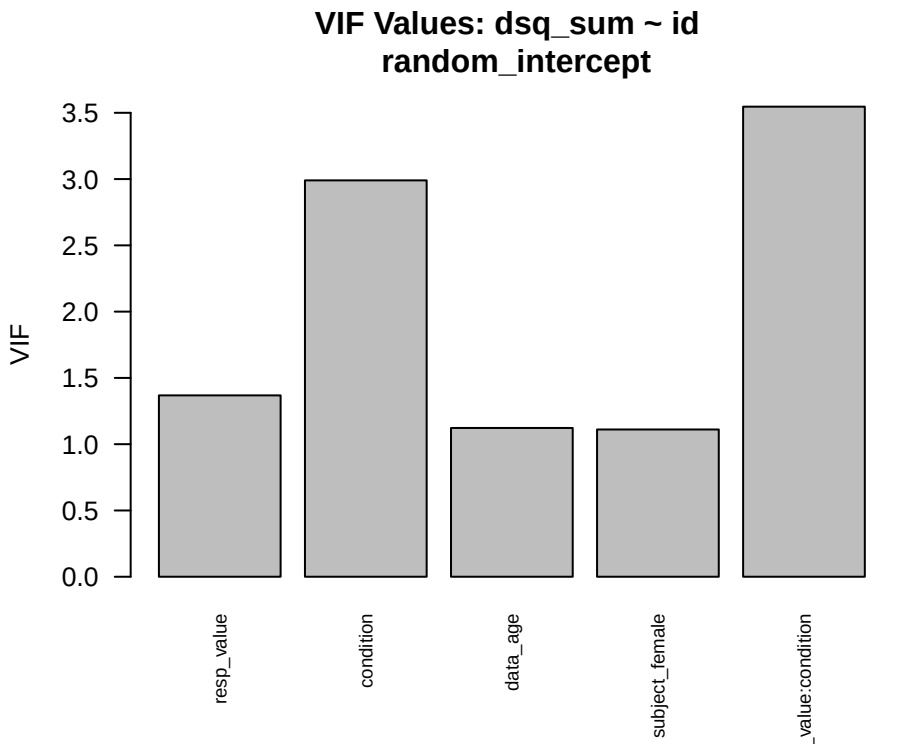

Scale−Location: dsq_sum ~ fit
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
0
5
10
15
20
25
30

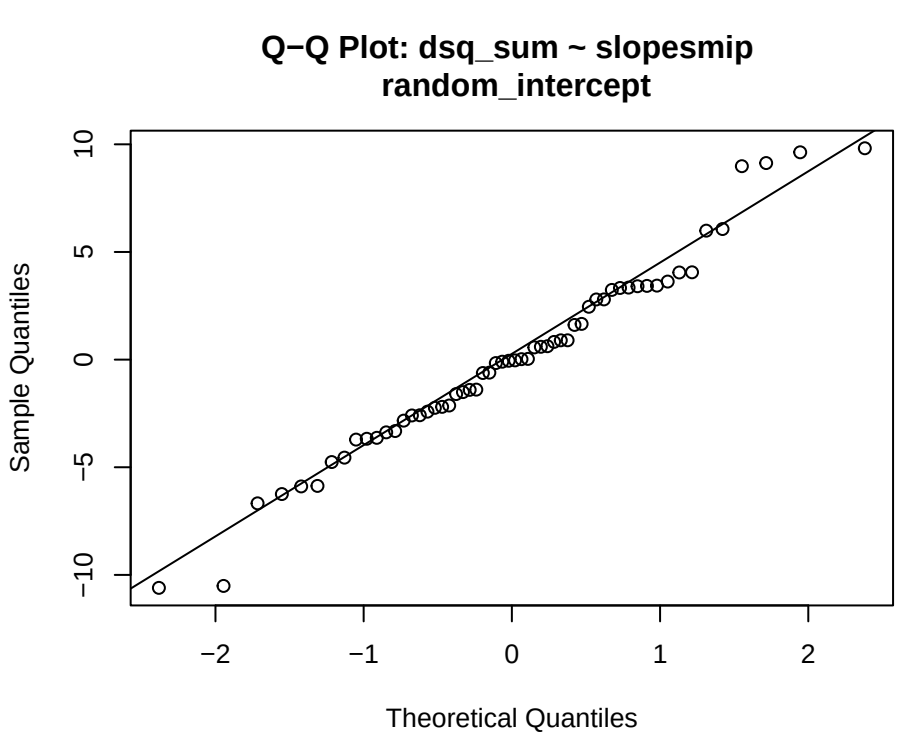

VIF Values: dsq_sum ~ fit
random_intercept
VIF
0.0
0.5
1.0
1.5
2.0
resp_value
condition
data_age
subject_female
value:condition

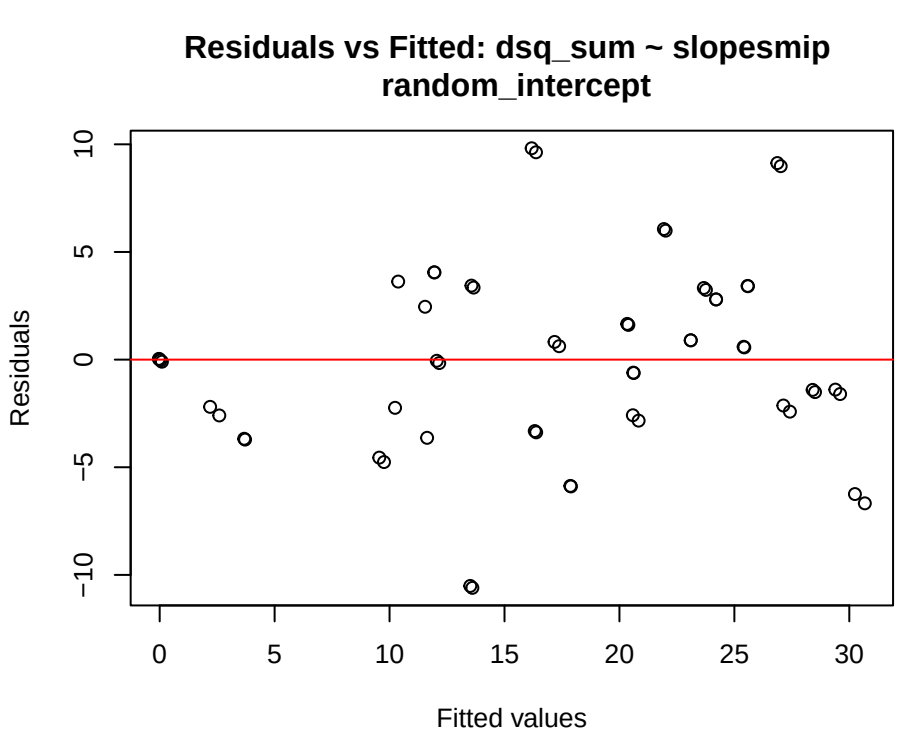

Q−Q Plot: dsq_sum ~ id
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2

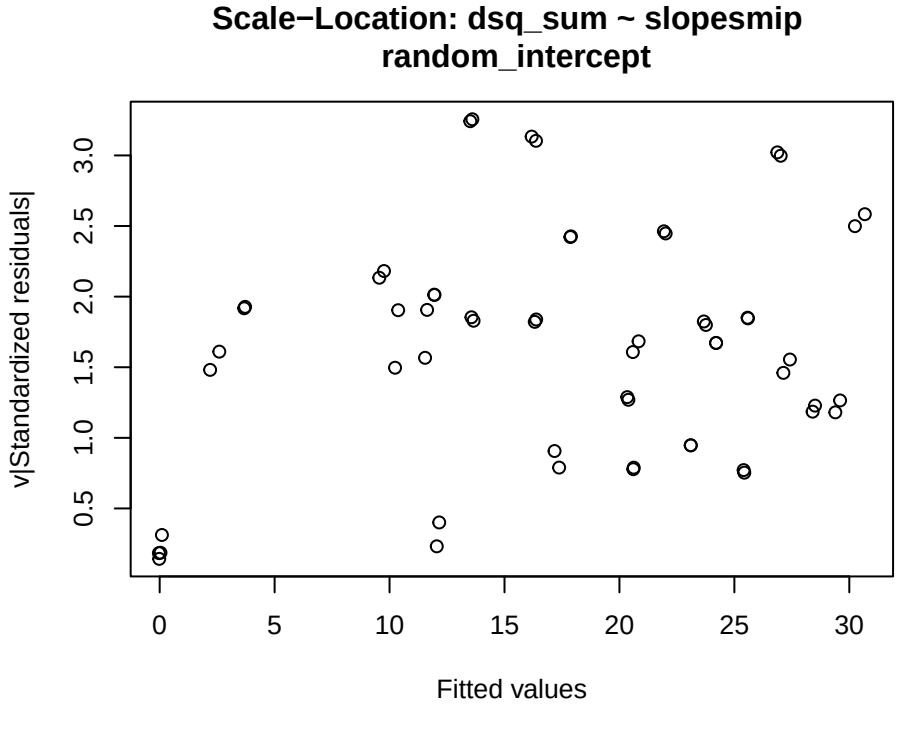

Residuals vs Fitted: dsq_sum ~ id
random_intercept
Residuals
Fitted values
−10
−5
0
5
10
0
5
10
15
20
25
30

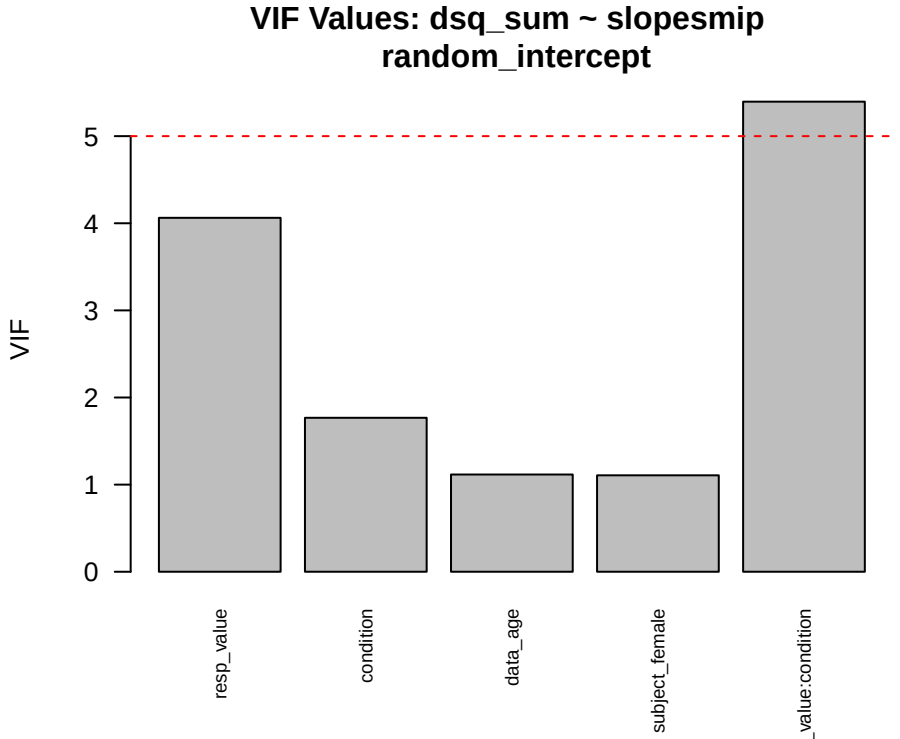

Scale−Location: dsq_sum ~ id
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
0
5
10
15
20
25
30

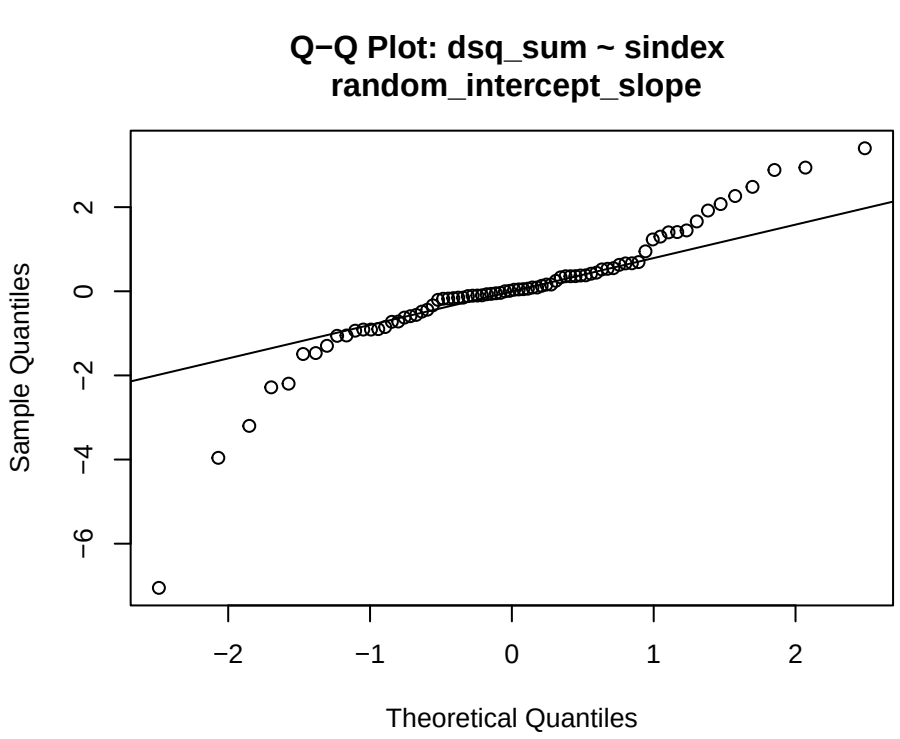

VIF Values: dsq_sum ~ id
random_intercept
VIF
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
resp_value
condition
data_age
subject_female
value:condition

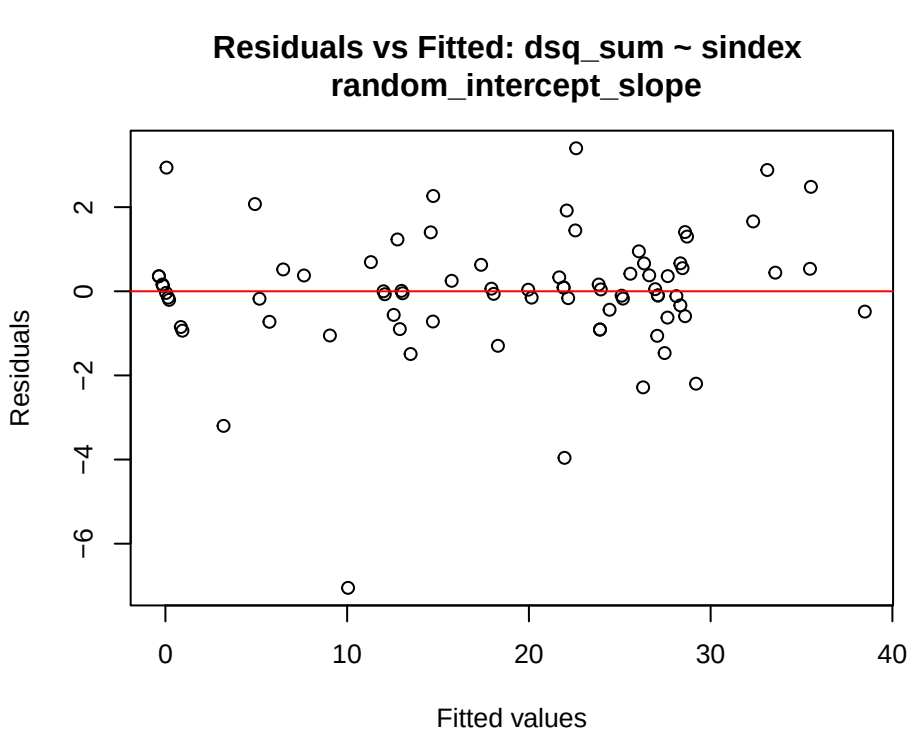

Q−Q Plot: dsq_sum ~ slopesmip
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2

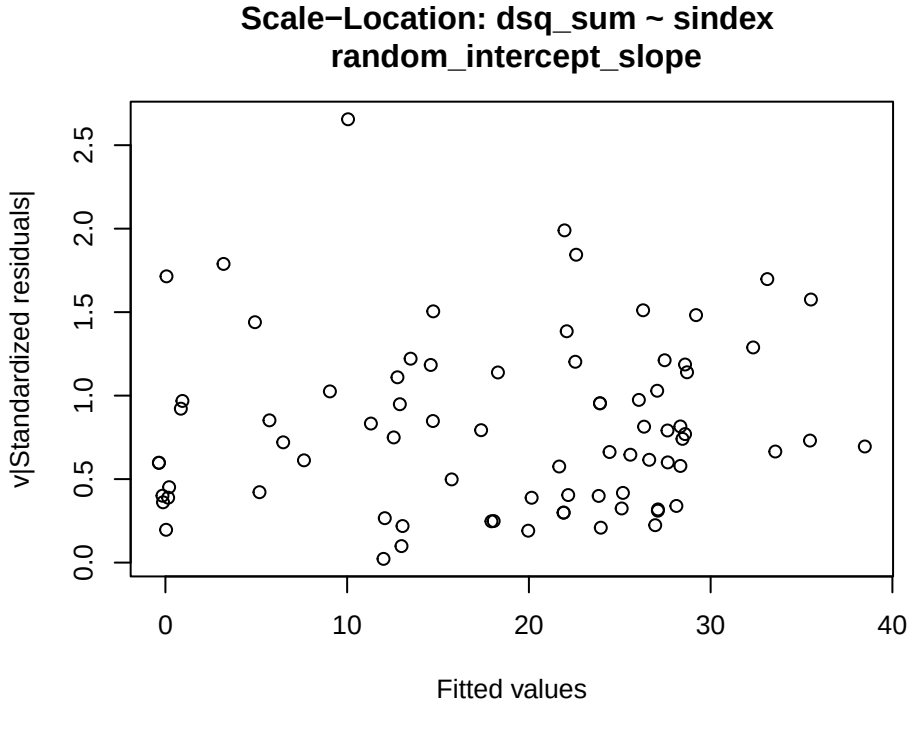

Residuals vs Fitted: dsq_sum ~ slopesmip
random_intercept
Residuals
Fitted values
−10
−5
0
5
10
0
5
10
15
20
25
30

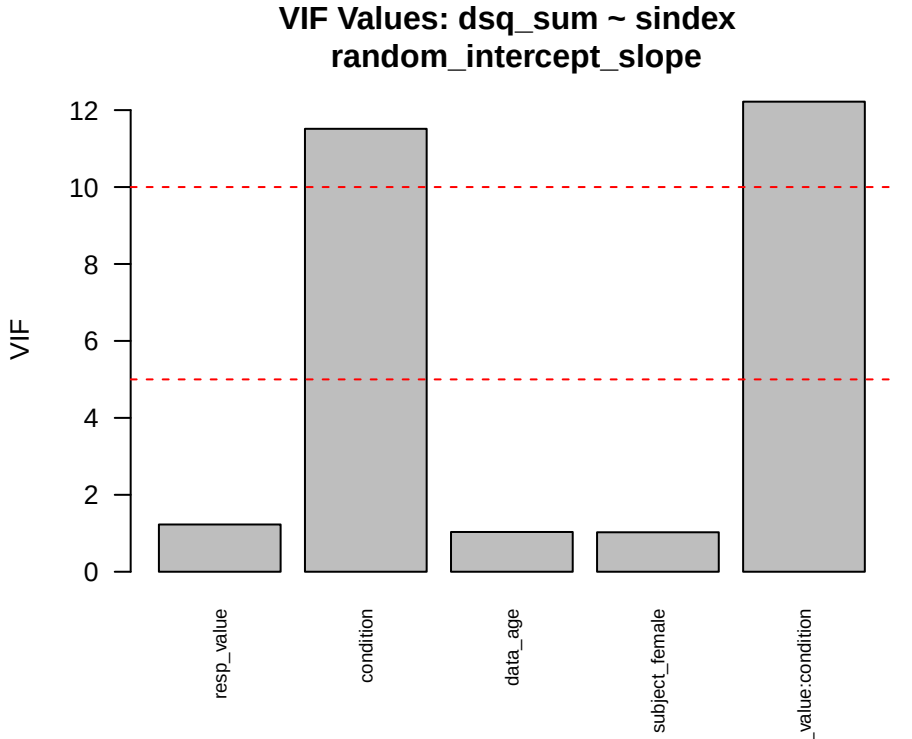

Scale−Location: dsq_sum ~ slopesmip
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
0
5
10
15
20
25
30

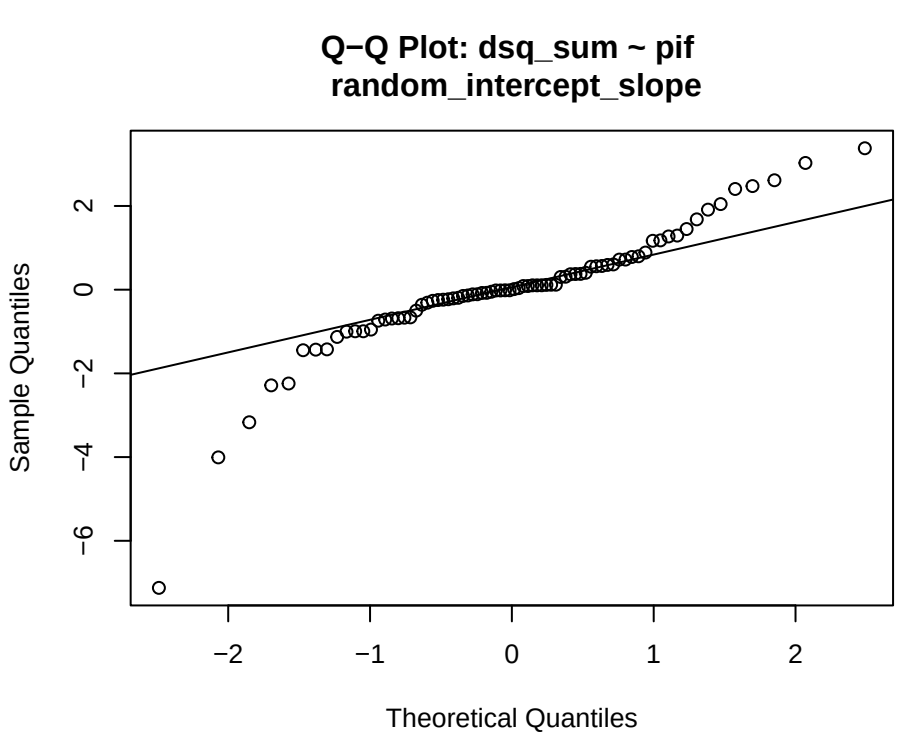

VIF Values: dsq_sum ~ slopesmip
random_intercept
VIF
0
1
2
3
4
5
resp_value
condition
data_age
subject_female
value:condition

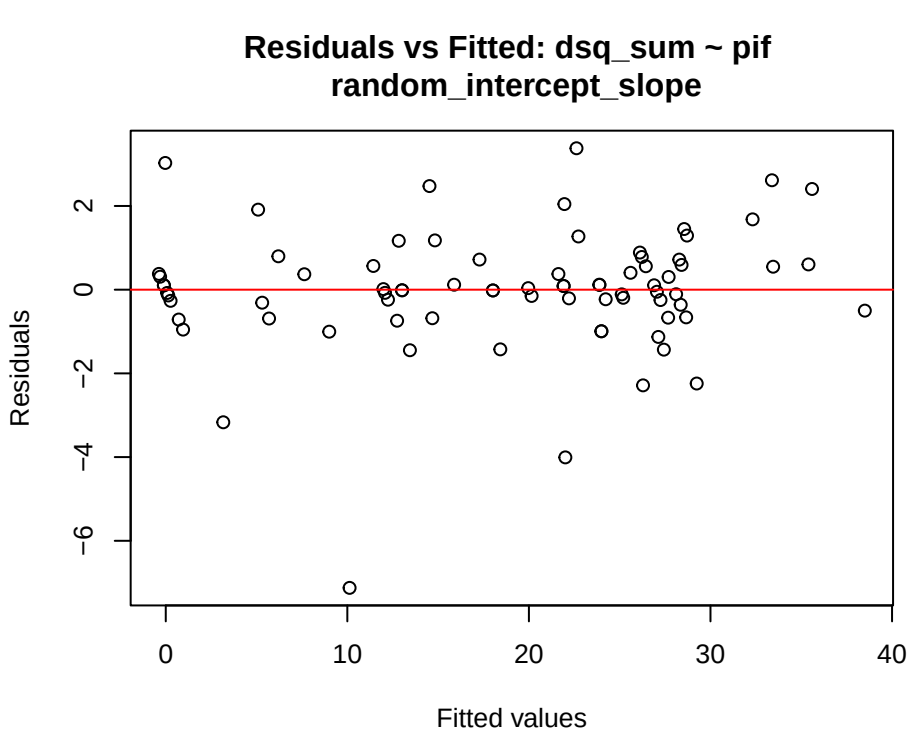

Q−Q Plot: dsq_sum ~ sindex
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2
−6
−4
−2
0
2

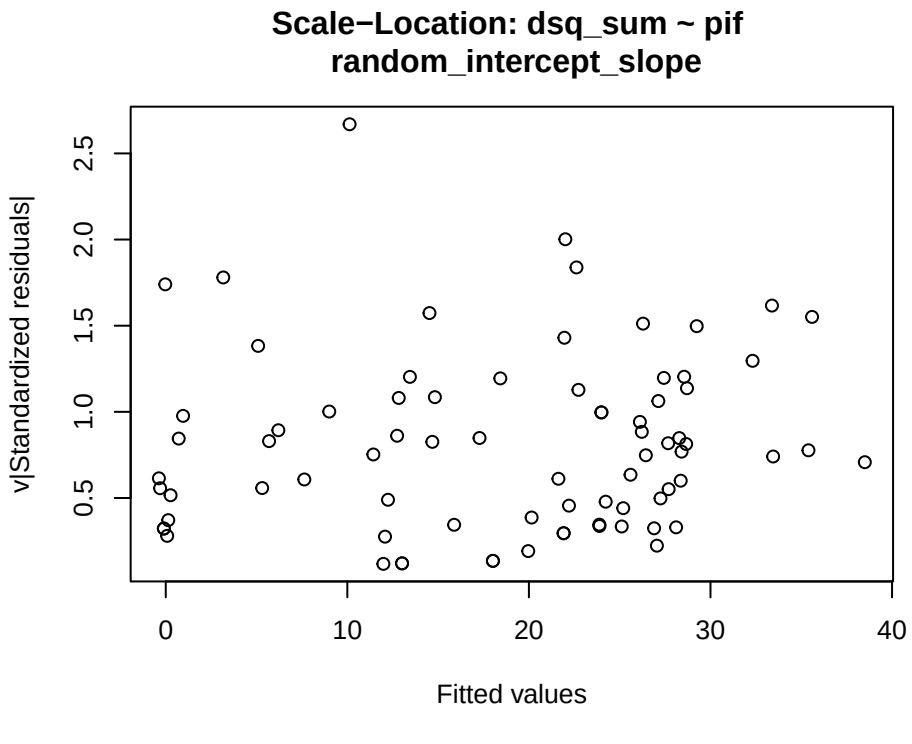

Residuals vs Fitted: dsq_sum ~ sindex
random_intercept_slope
Residuals
Fitted values
0
10
20
30
40
−6
−4
−2
0
2

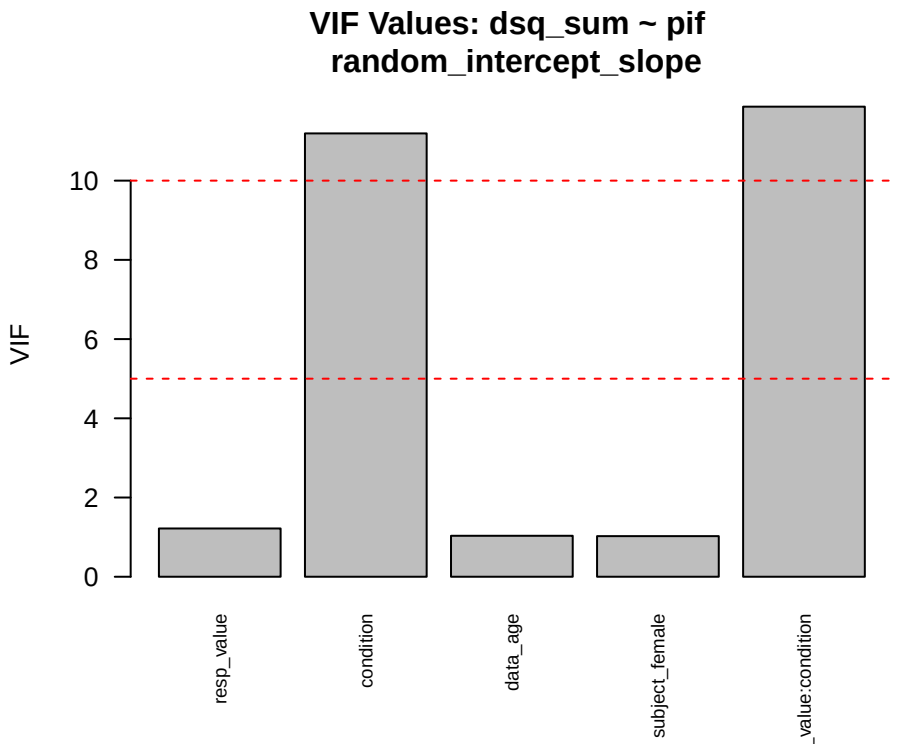

Scale−Location: dsq_sum ~ sindex
random_intercept_slope
√|Standardized residuals|
Fitted values
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5

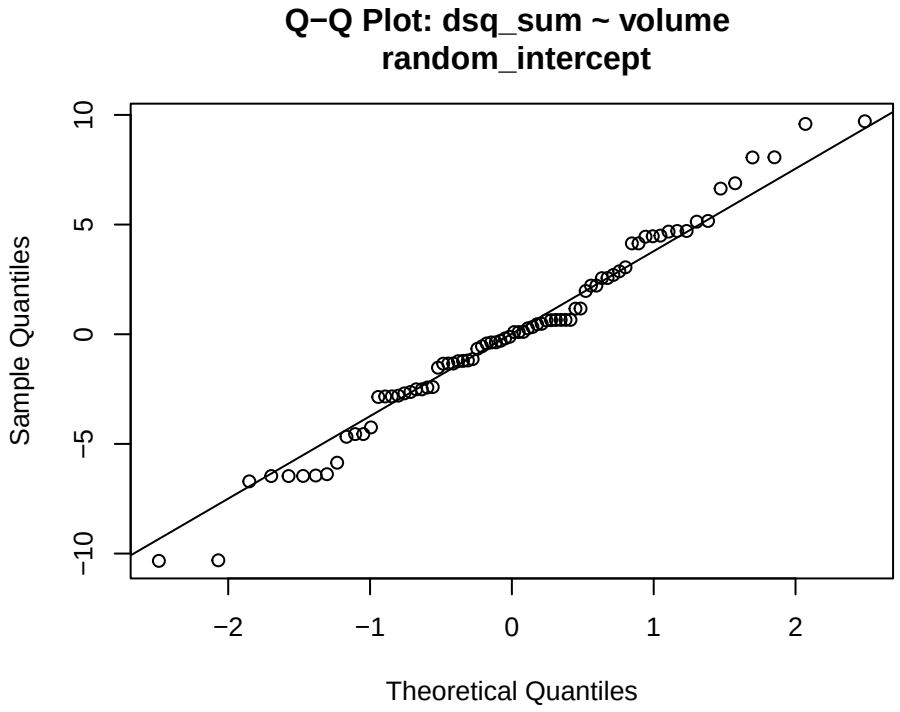

VIF Values: dsq_sum ~ sindex
random_intercept_slope
VIF
0
2
4
6
8
10
12
resp_value
condition
data_age
subject_female
value:condition

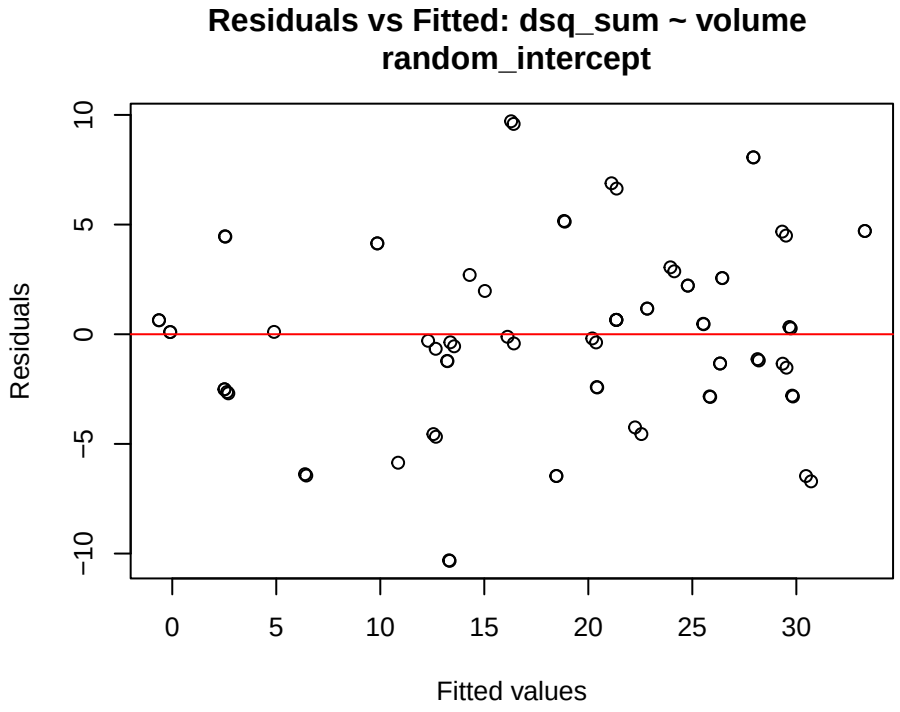

Q−Q Plot: dsq_sum ~ pif
random_intercept_slope
Sample Quantiles
Theoretical Quantiles
−2
−1
0
1
2
−6
−4
−2
0
2

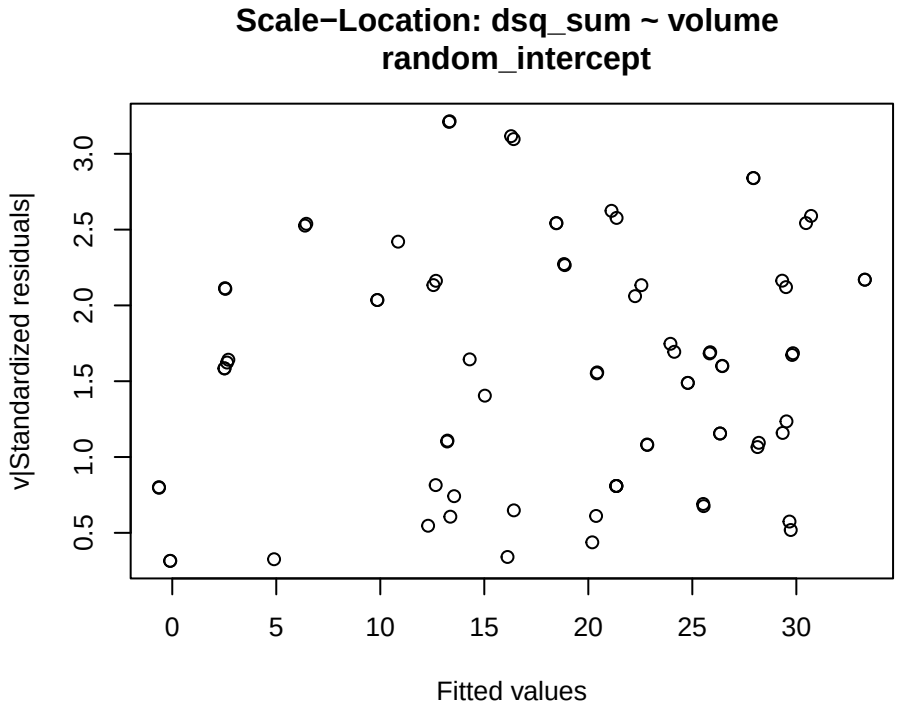

Residuals vs Fitted: dsq_sum ~ pif
random_intercept_slope
Residuals
Fitted values
0
10
20
30
40
−6
−4
−2
0
2

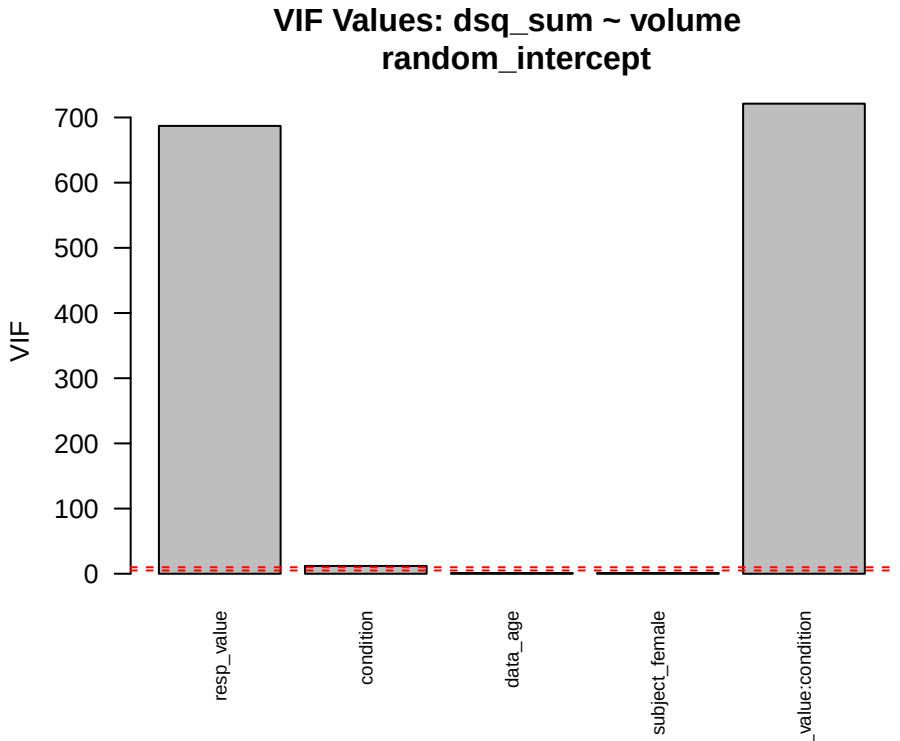

Scale−Location: dsq_sum ~ pif
random_intercept_slope
√|Standardized residuals|
Fitted values
0
10
20
30
40
0.5
1.0
1.5
2.0
2.5


VIF Values: dsq_sum ~ pif
random_intercept_slope
VIF
0
2
4
6
8
10
resp_value
condition
data_age
subject_female
value:condition


Q−Q Plot: dsq_sum ~ volume
random_intercept
Sample Quantiles
Theoretical Quantiles
−10
−5
0
5
10
−2
−1
0
1
2


Residuals vs Fitted: dsq_sum ~ volume
random_intercept
Residuals
Fitted values
−10
−5
0
5
10
0
5
10
15
20
25
30


Scale−Location: dsq_sum ~ volume
random_intercept
√|Standardized residuals|
Fitted values
0.5
1.0
1.5
2.0
2.5
3.0
0
5
10
15
20
25
30


VIF Values: dsq_sum ~ volume
random_intercept
VIF
0
100
200
300
400
500
600
700
resp_value
condition
data_age
subject_female
value:condition