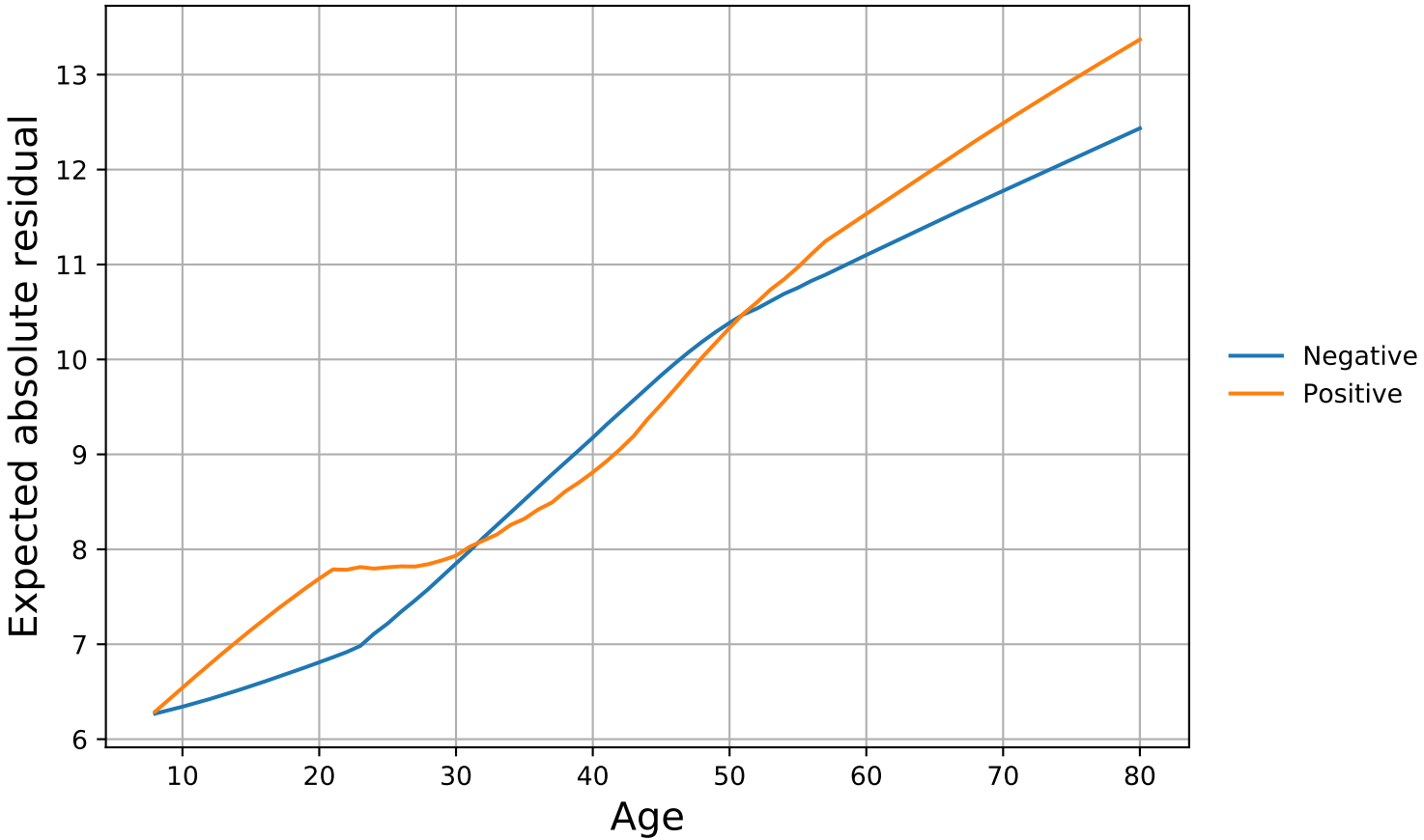
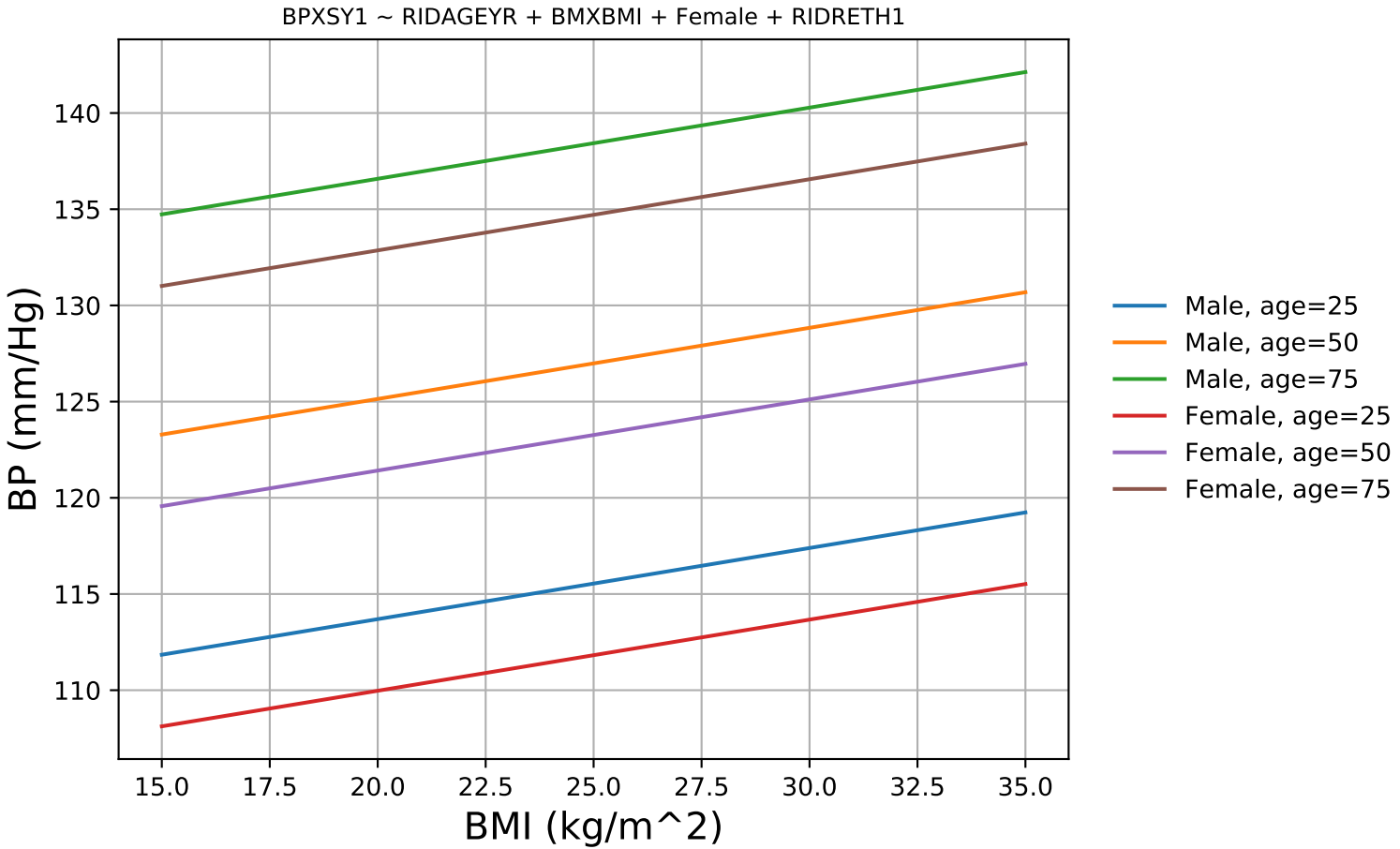
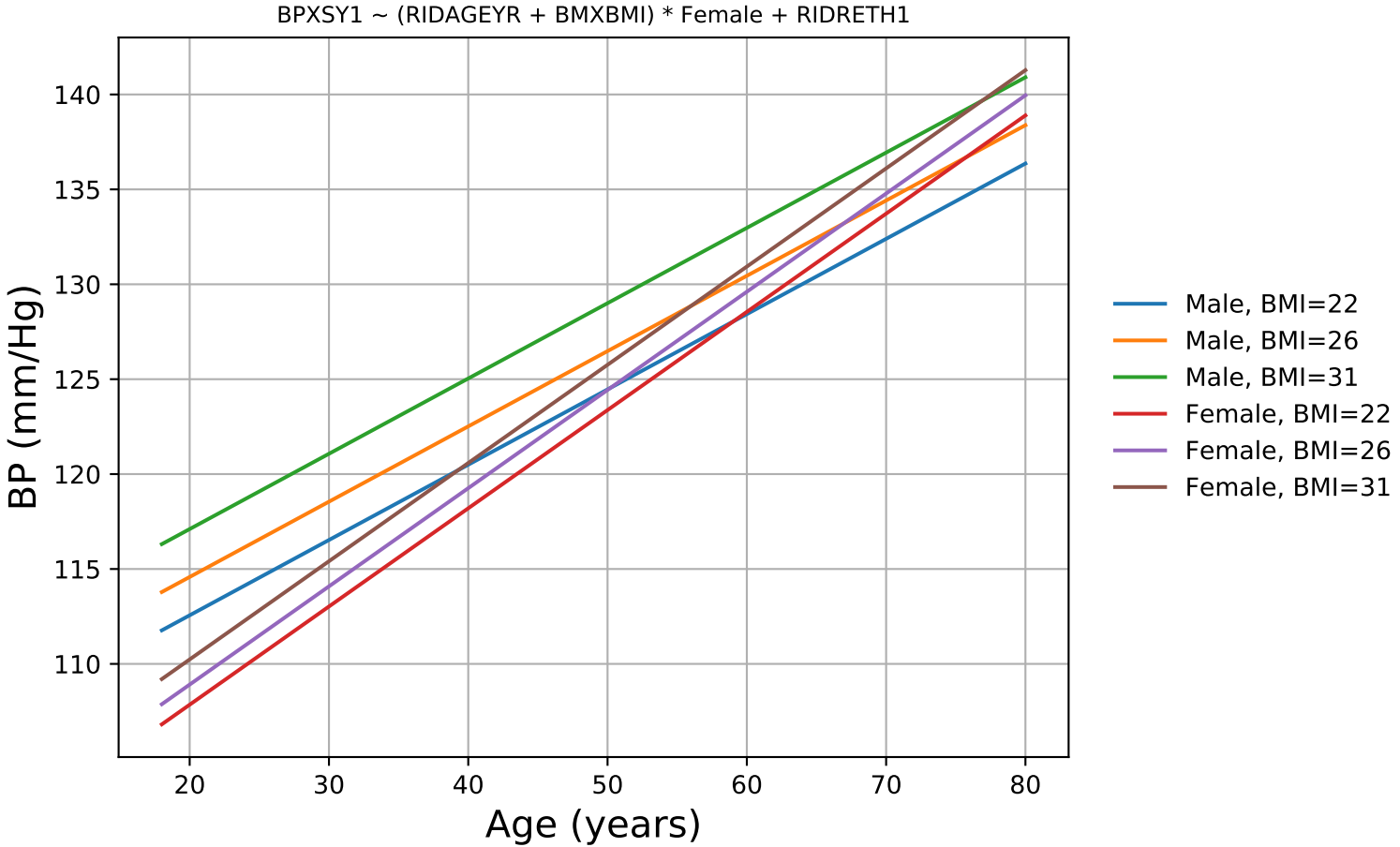
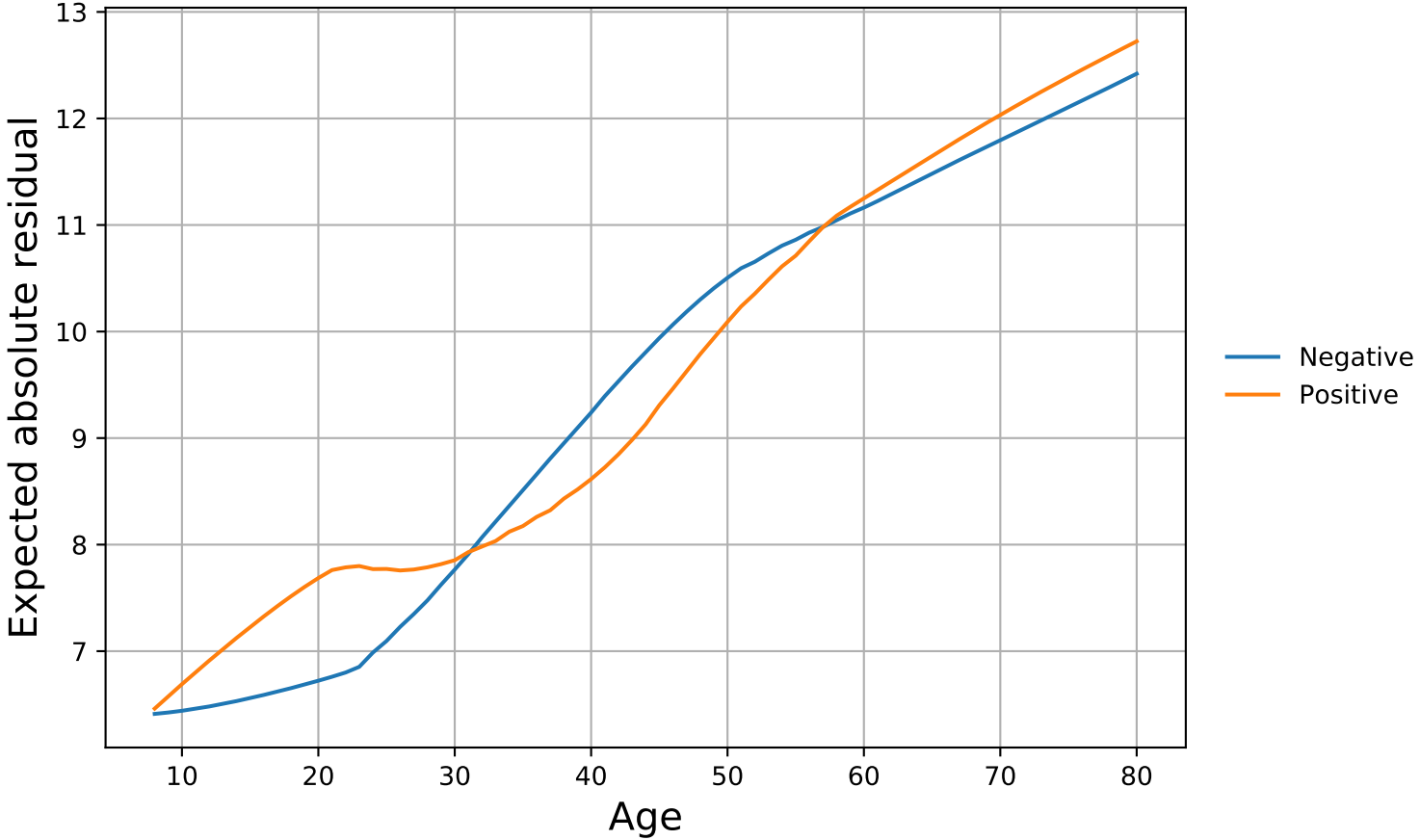
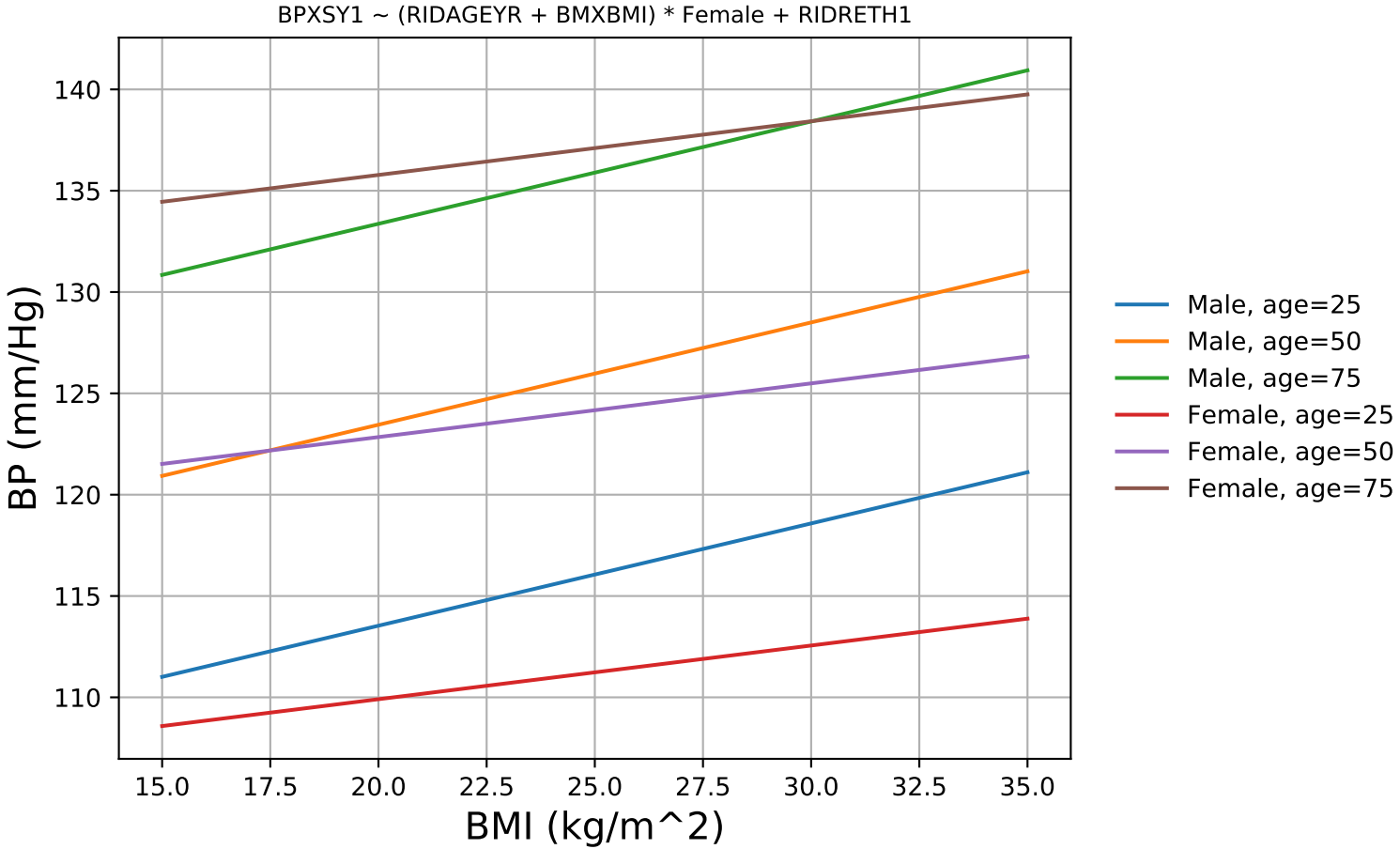

BPXSY1 ~ RIDAGEYR + BMXBMI + Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
20
30
40
50
60
70
80
Age (years)
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

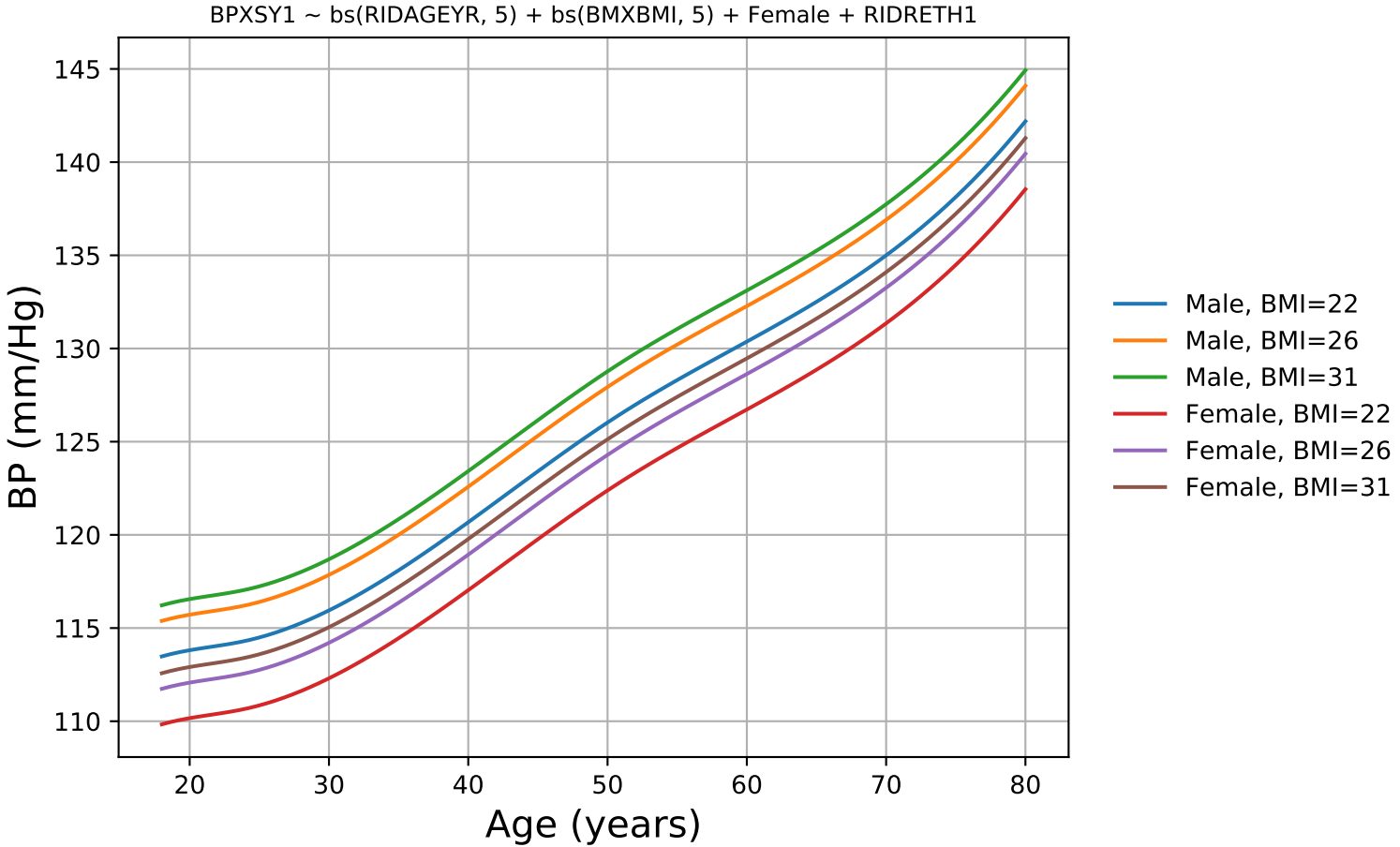

Expected absolute residual
13
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive

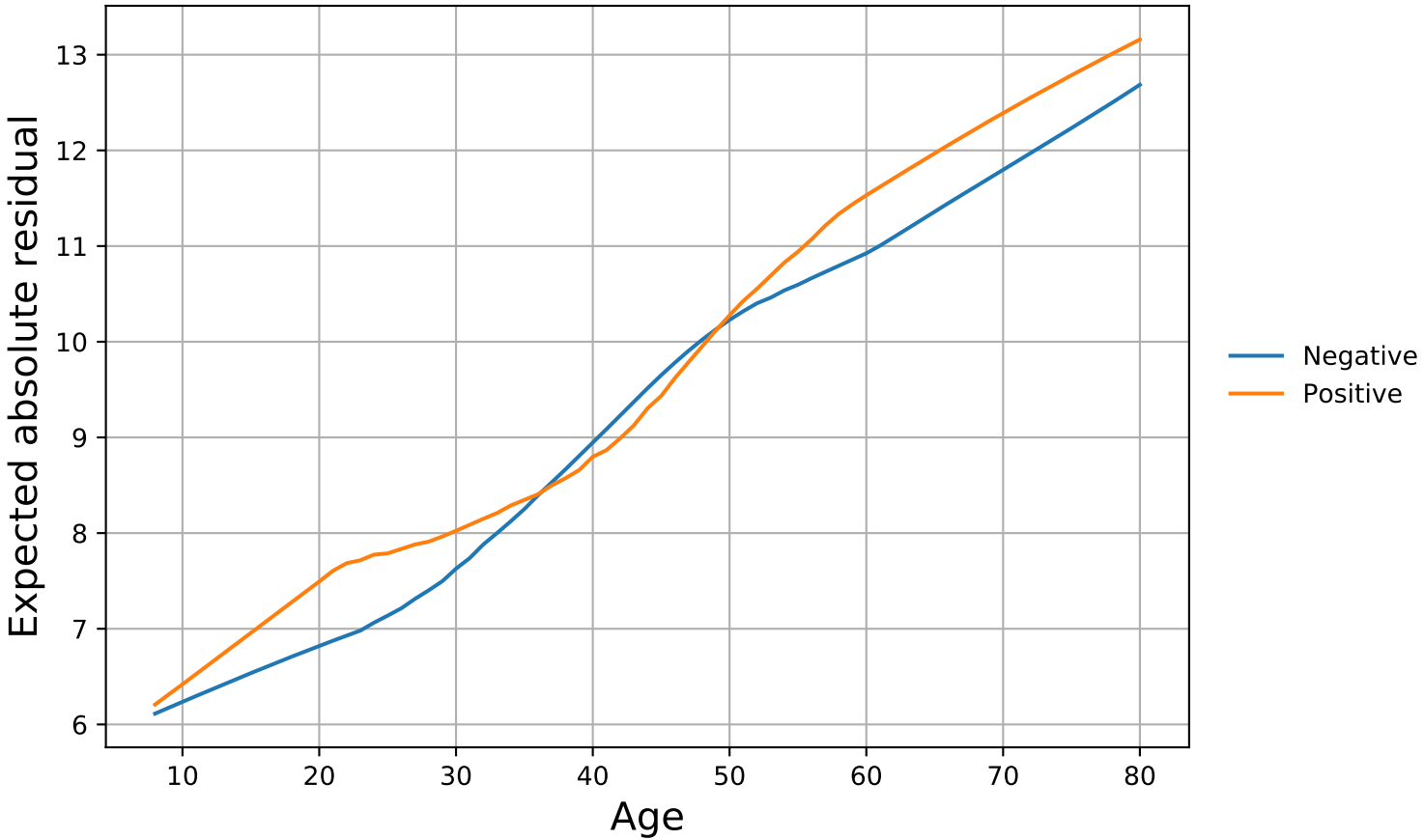

BPXSY1 ~ RIDAGEYR + BMXBMI + Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

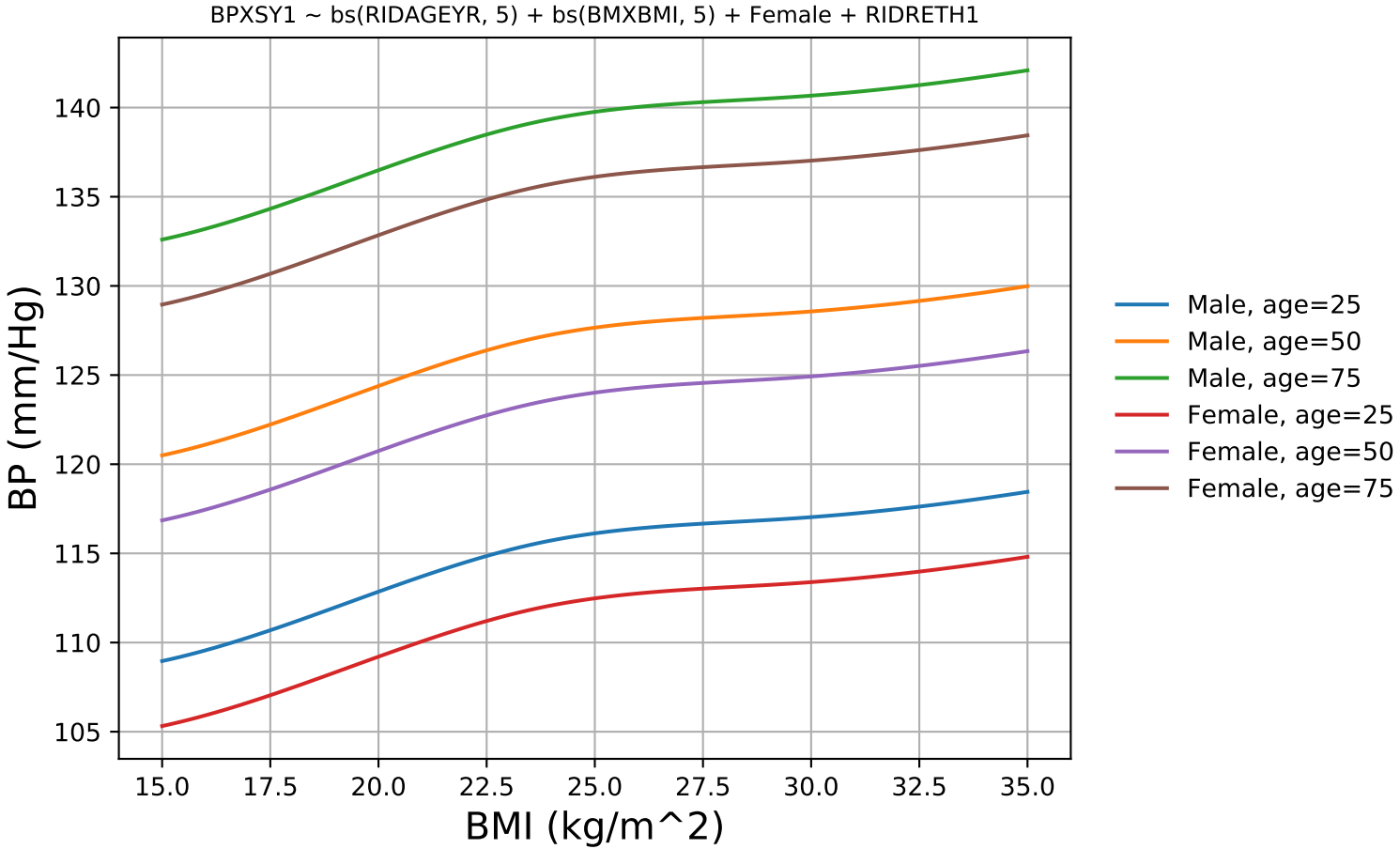

BPXSY1 ~ (RIDAGEYR + BMXBMI) * Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
20
30
40
50
60
70
80
Age (years)
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

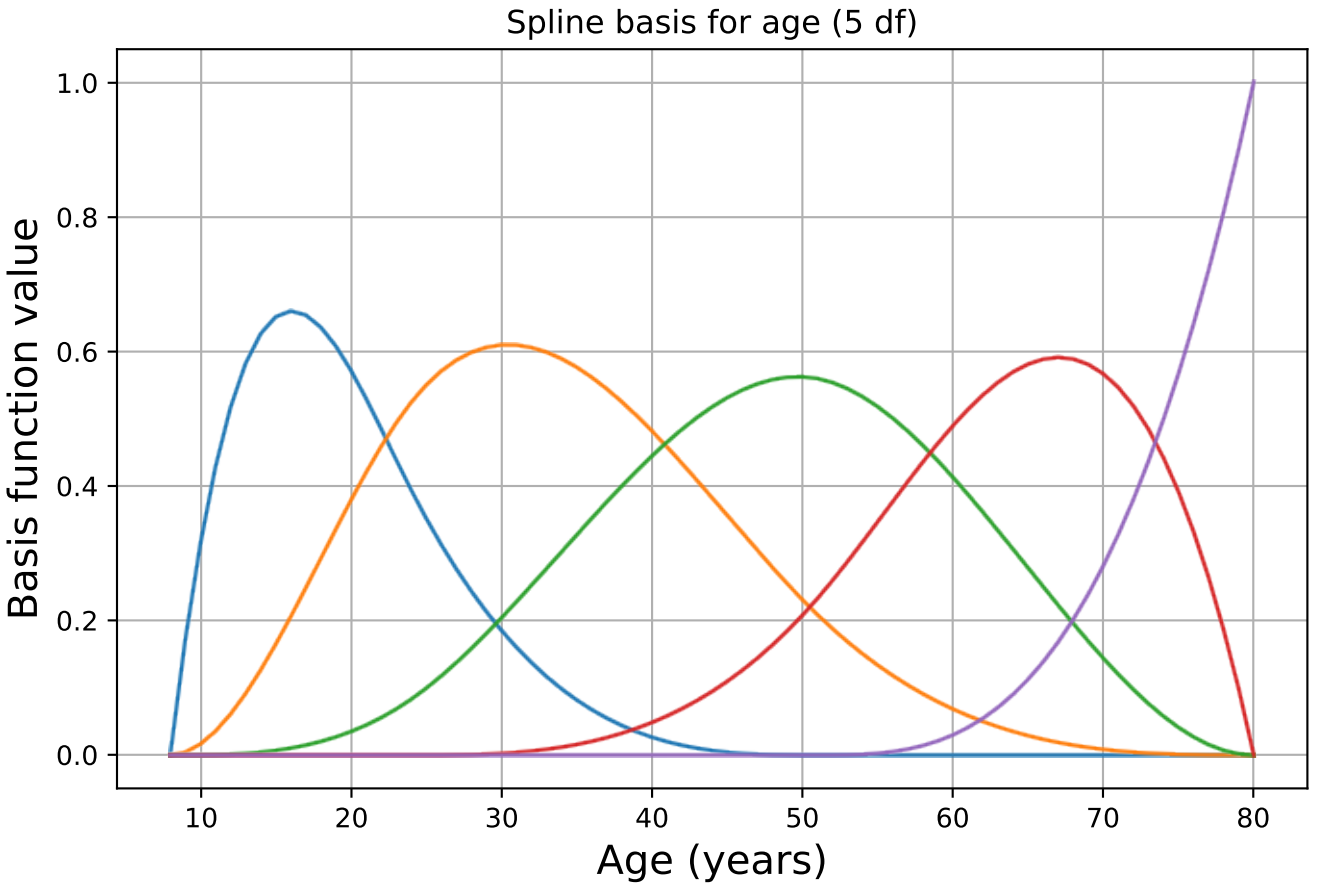

Expected absolute residual
13
12
11
10
9
8
7
10
20
30
40
50
60
70
80
Age
Negative
Positive

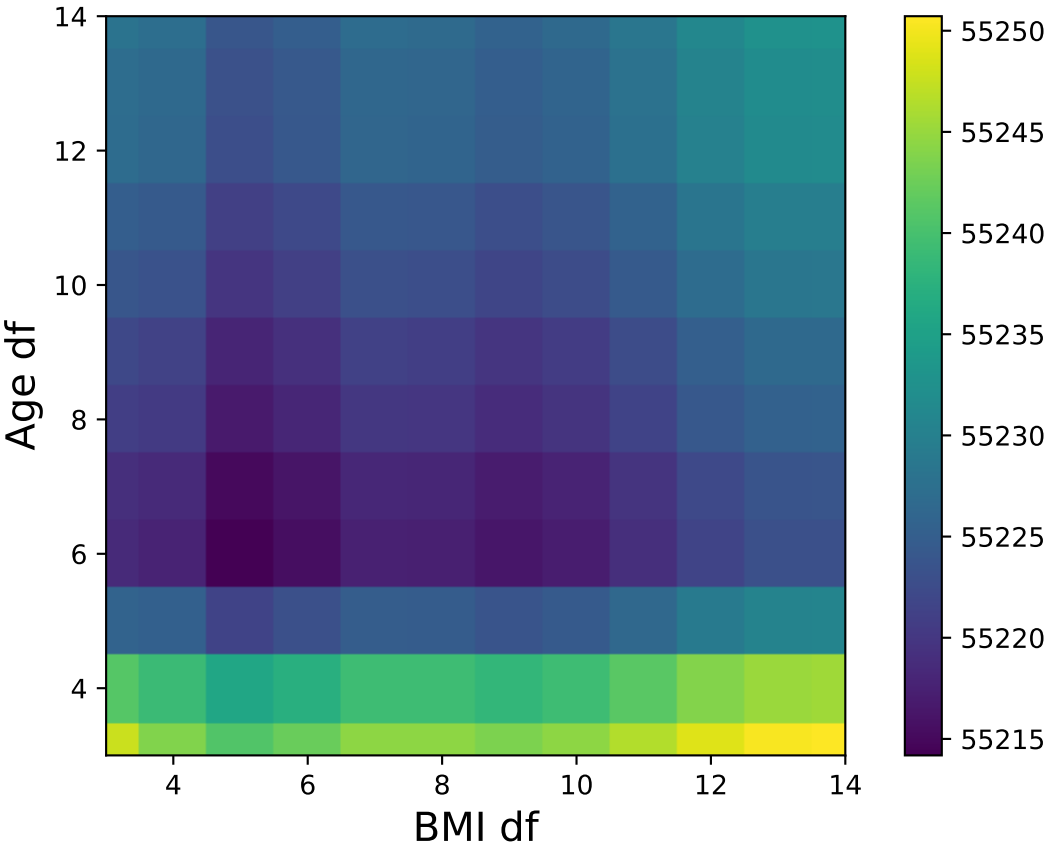

BPXSY1 ~ (RIDAGEYR + BMXBMI) * Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

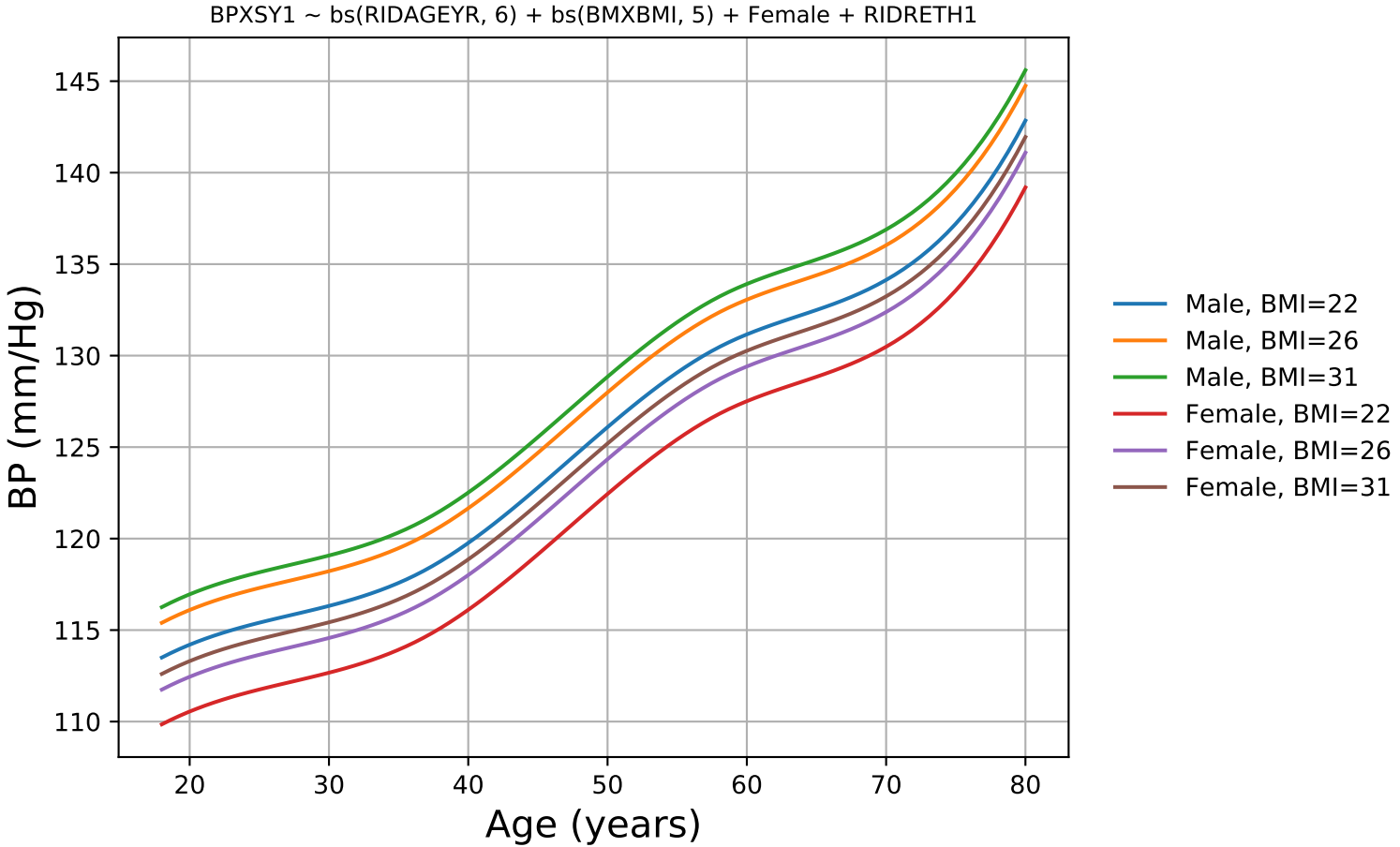

BPXSY1 ~ bs(RIDAGEYR, 5) + bs(BMXBMI, 5) + Female + RIDRETH1
BP (mm/Hg)
Age (years)
110
115
120
125
130
135
140
145
20
30
40
50
60
70
80
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

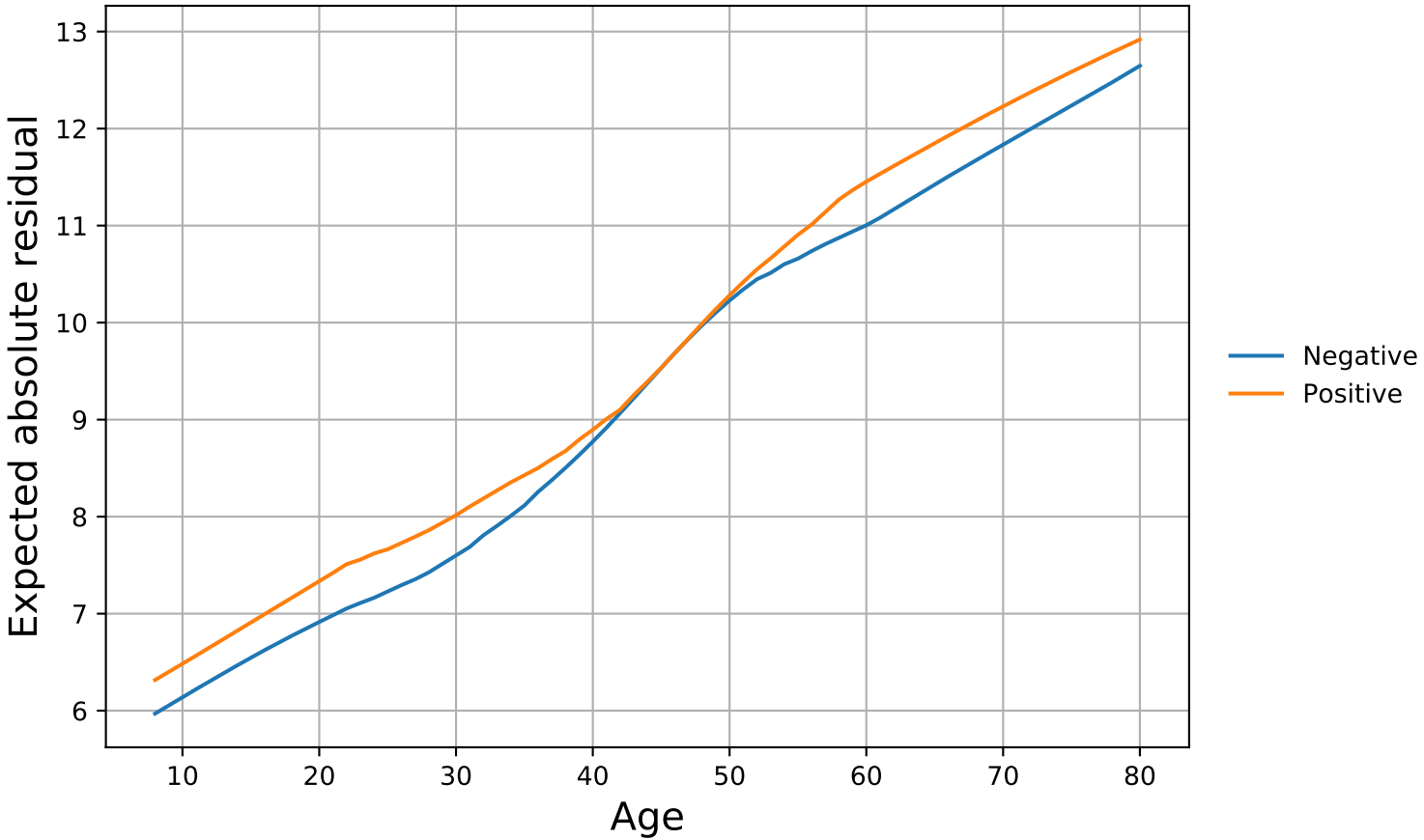

Expected absolute residual
13
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive

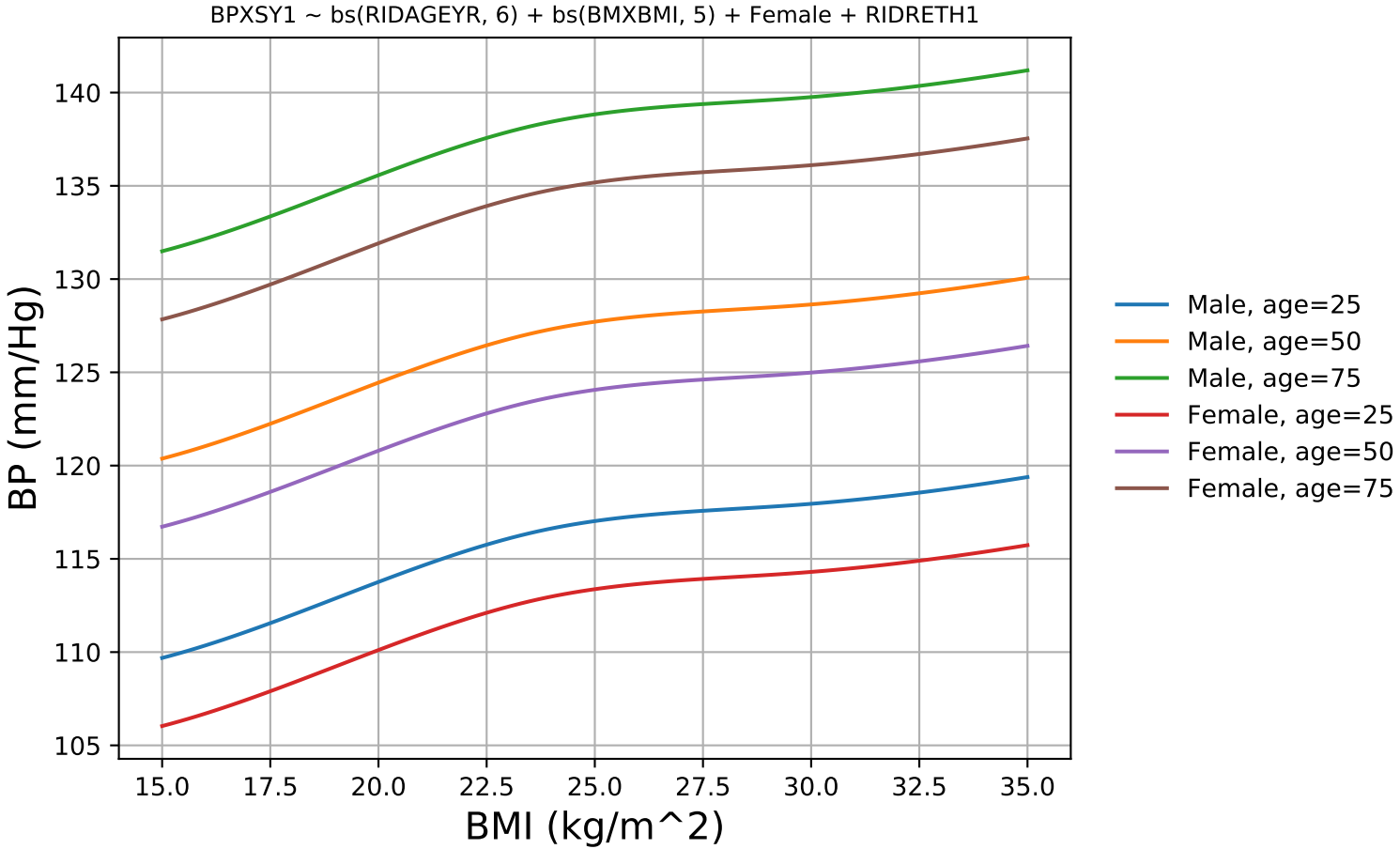

BPXSY1 ~ bs(RIDAGEYR, 5) + bs(BMXBMI, 5) + Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
105
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

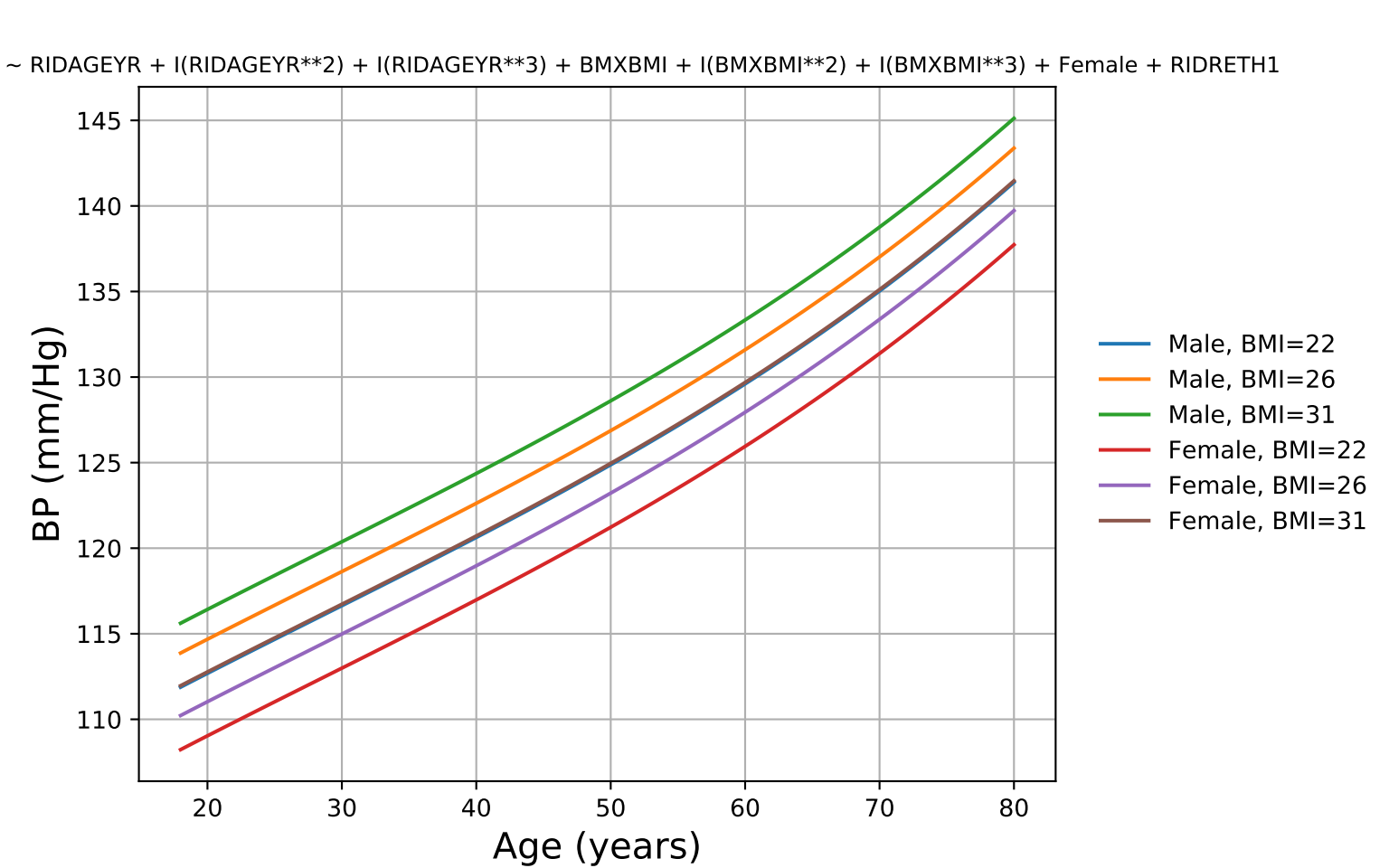

Spline basis for age (5 df)
Basis function value
1.0
0.8
0.6
0.4
0.2
0.0
10
20
30
40
50
60
70
80
Age (years)

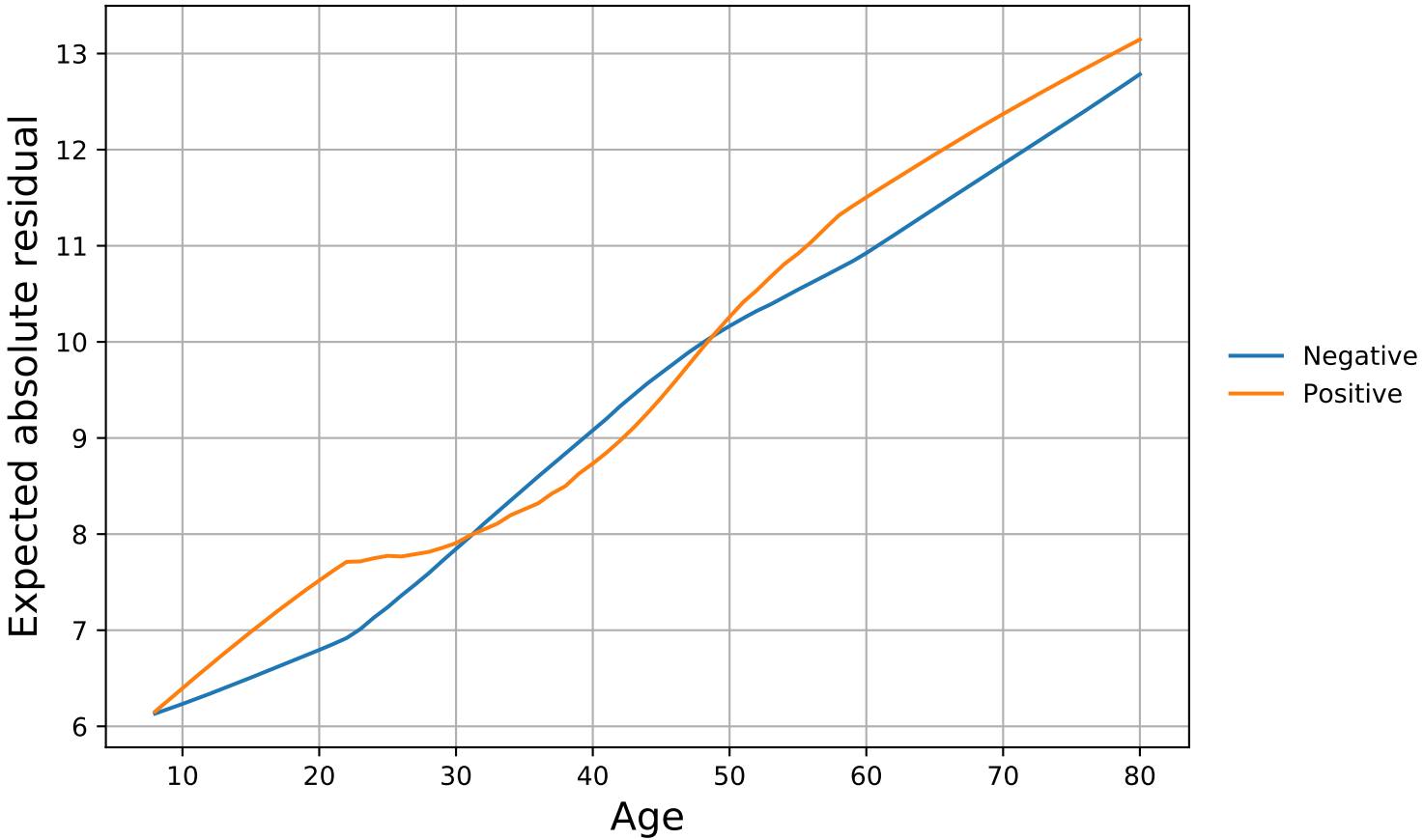

14
12
10
8
6
4
Age df
4
6
8
10
12
14
BMI df
55250
55245
55240
55235
55230
55225
55220
55215

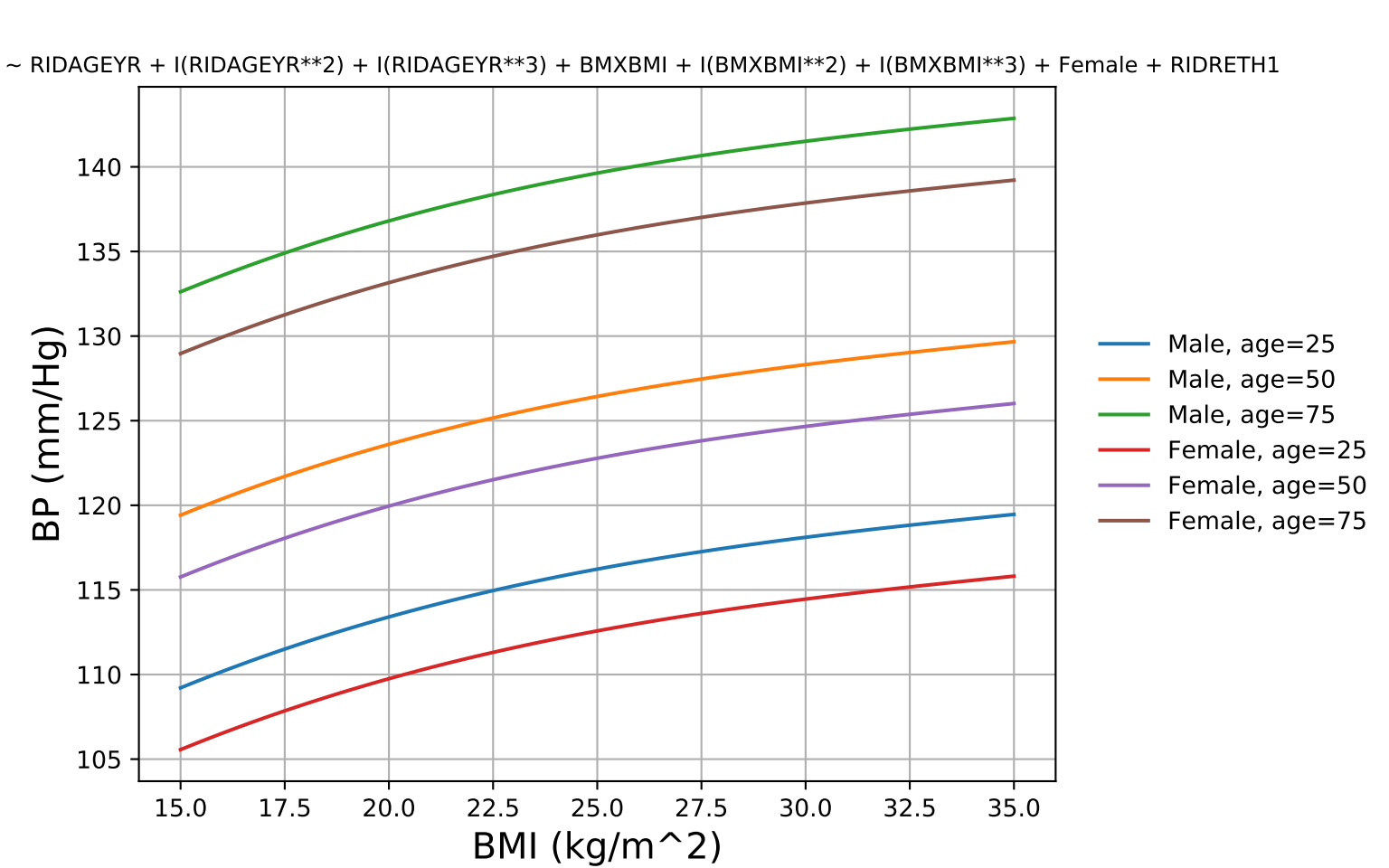

BPXSY1 ~ bs(RIDAGEYR, 6) + bs(BMXBMI, 5) + Female + RIDRETH1
BP (mm/Hg)
Age (years)
110
115
120
125
130
135
140
145
20
30
40
50
60
70
80
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

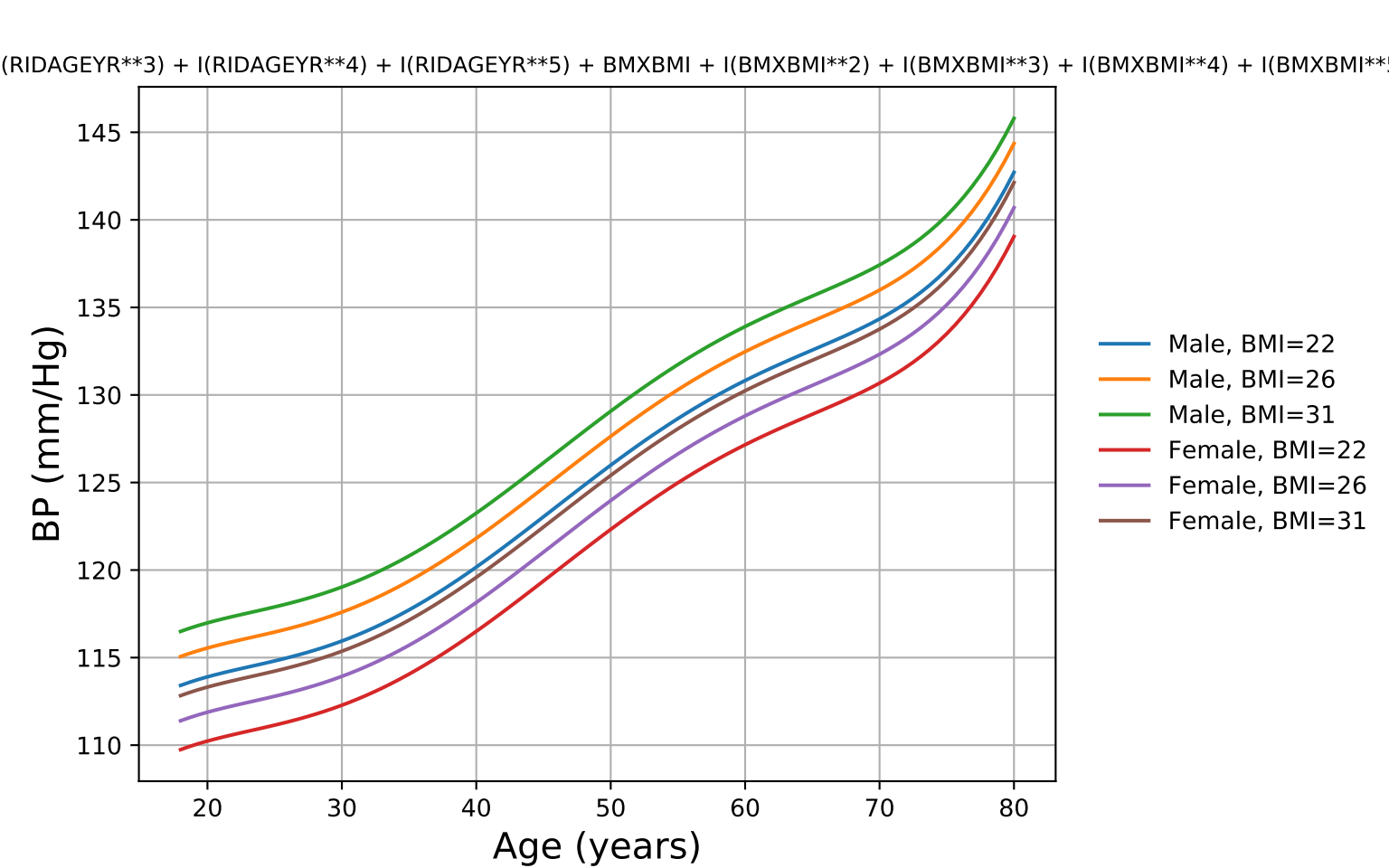

Expected absolute residual
13
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive

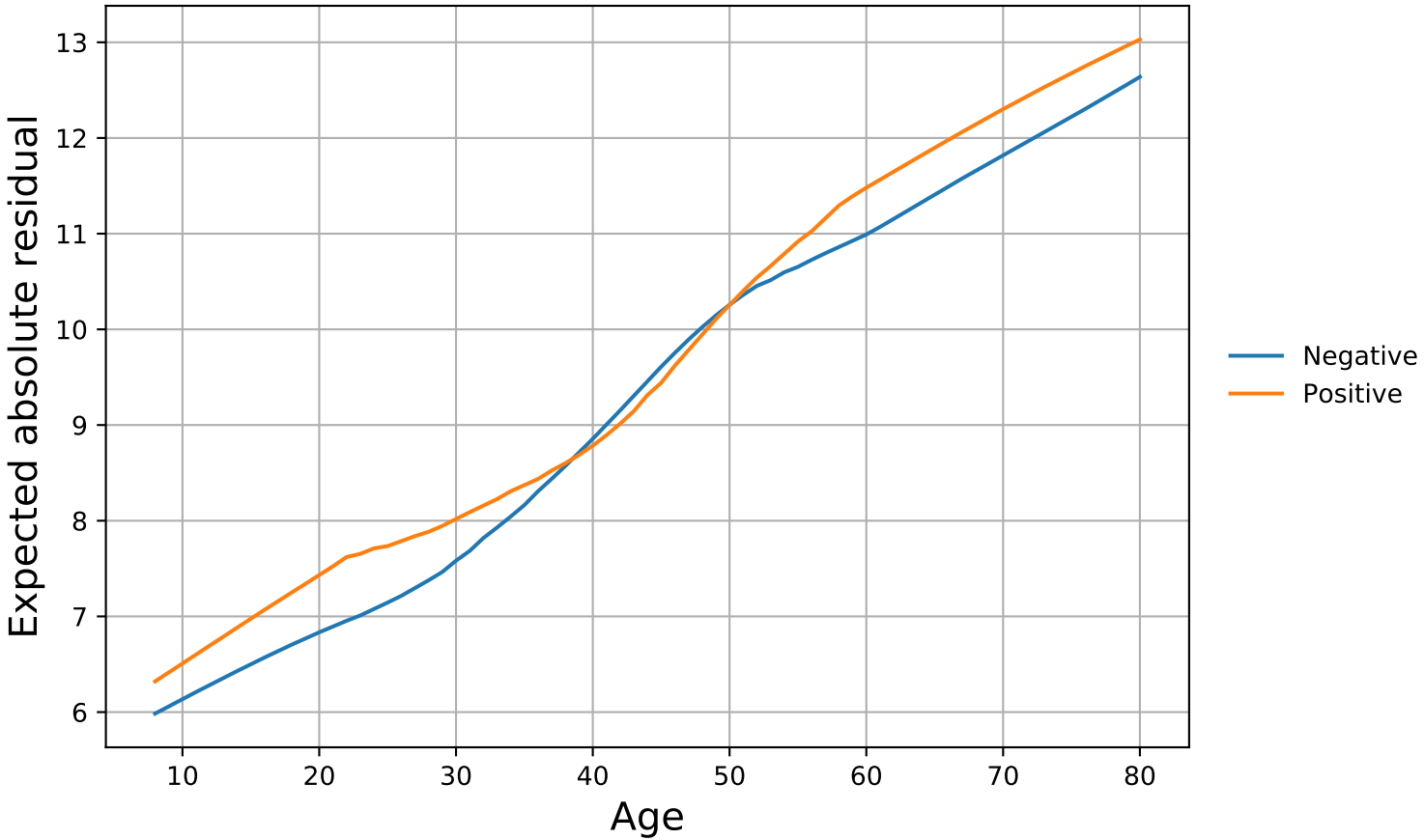

BPXSY1 ~ bs(RIDAGEYR, 6) + bs(BMXBMI, 5) + Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
105
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

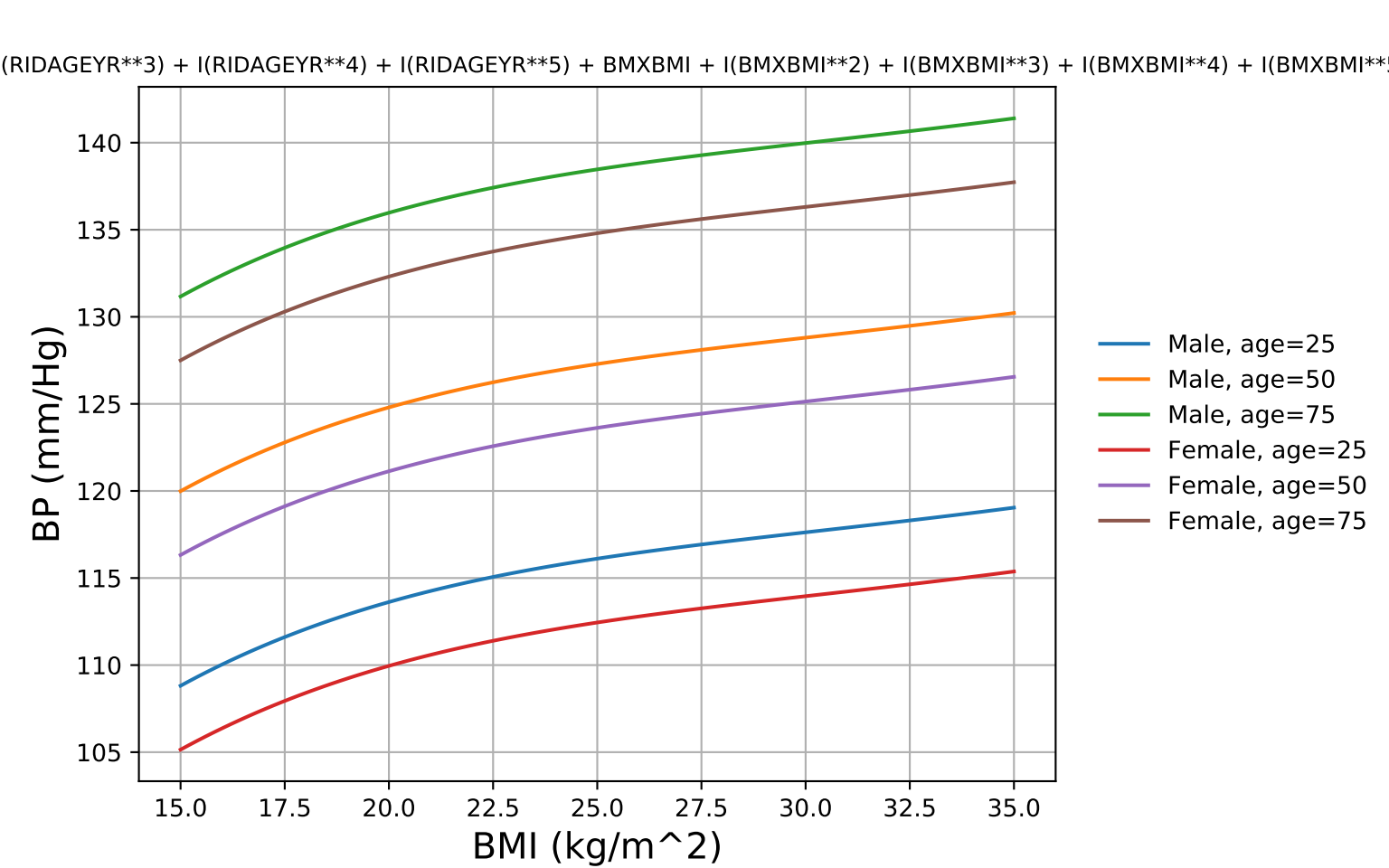

~ RIDAGEYR + I(RIDAGEYR**2) + I(RIDAGEYR**3) + BMXBMI + I(BMXBMI**2) + I(BMXBMI**3) + Female + RIDRETH1
BP (mm/Hg)
Age (years)
110
115
120
125
130
135
140
145
20
30
40
50
60
70
80
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

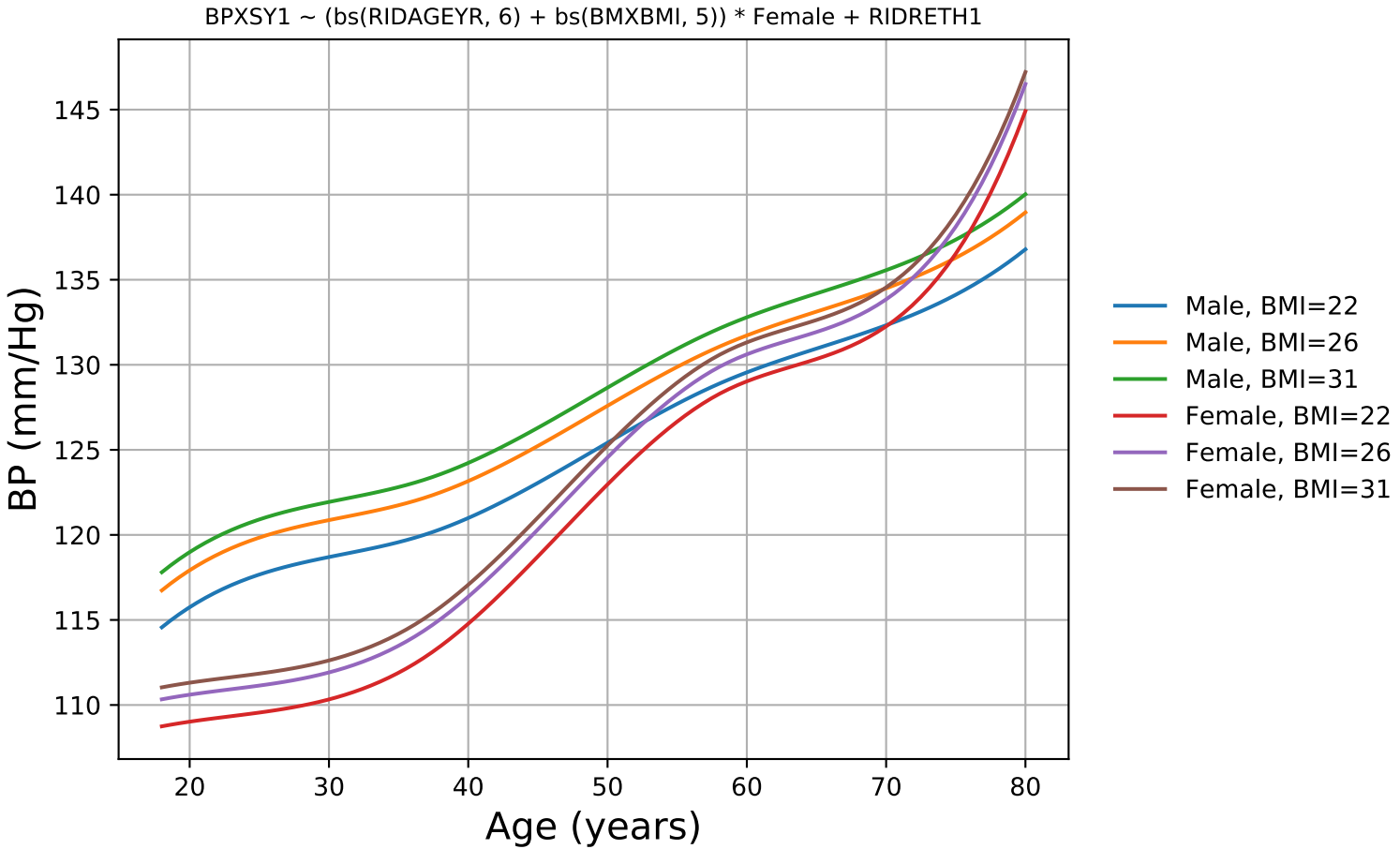

Expected absolute residual
13
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive

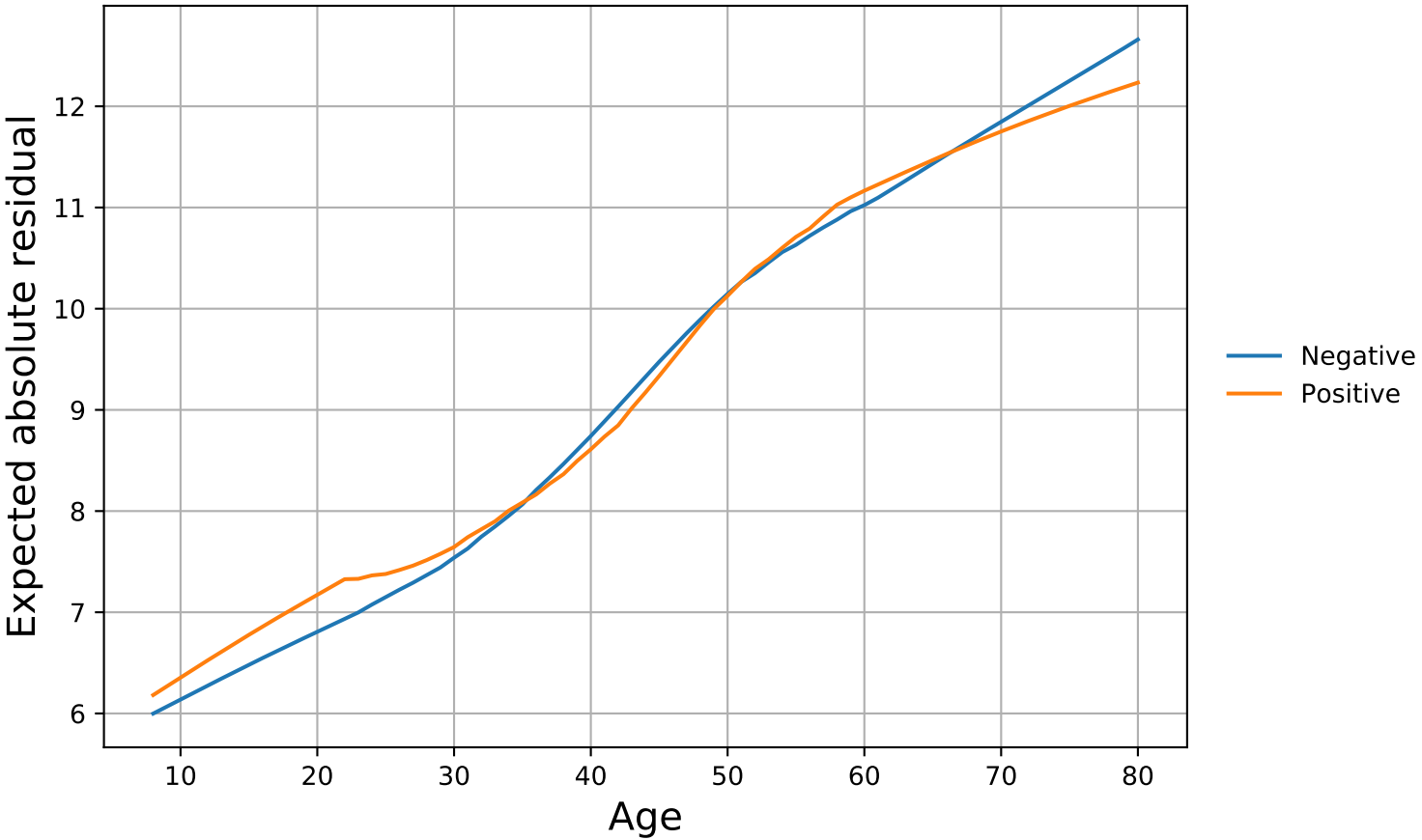

~ RIDAGEYR + I(RIDAGEYR**2) + I(RIDAGEYR**3) + BMXBMI + I(BMXBMI**2) + I(BMXBMI**3) + Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
105
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

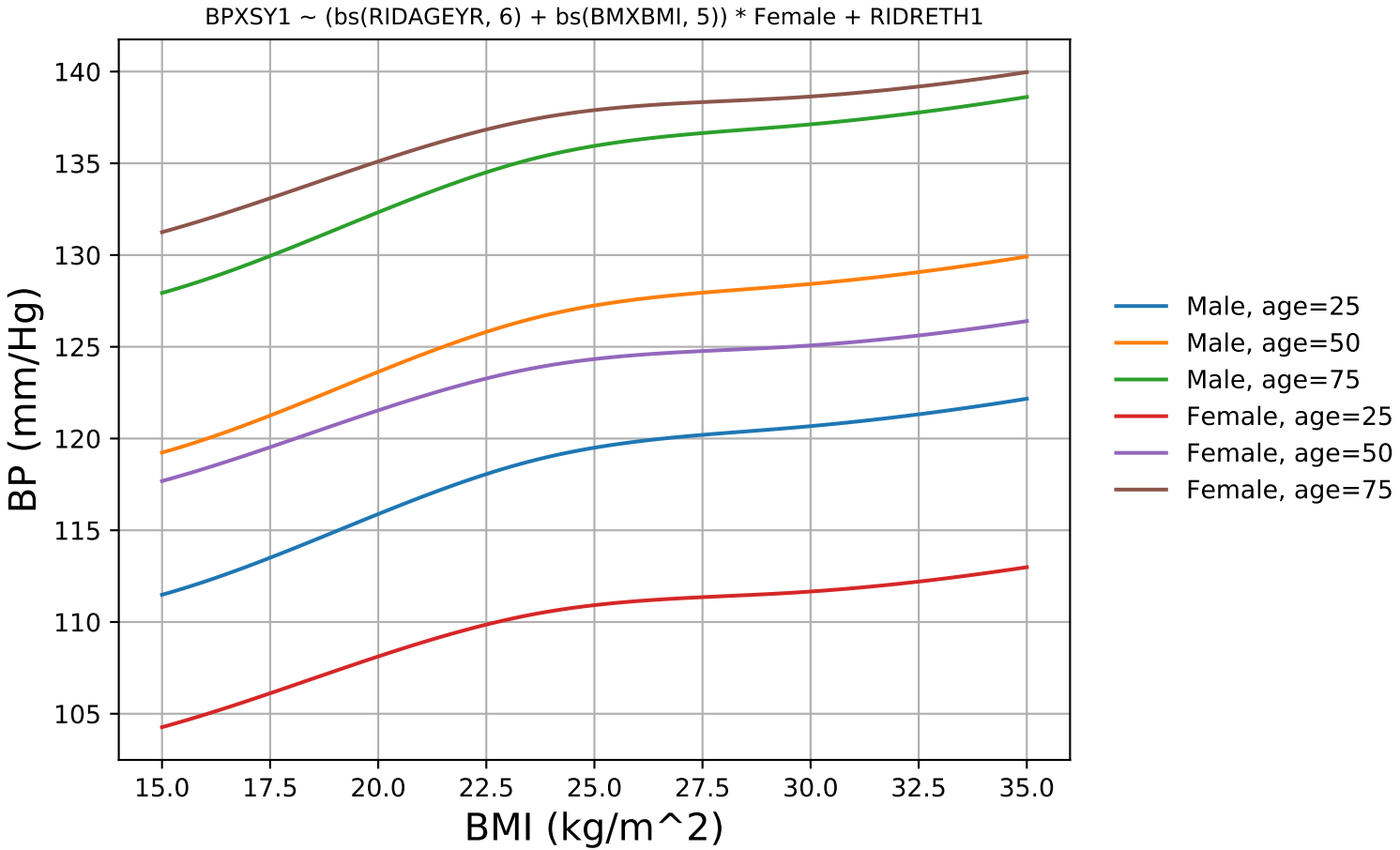

(RIDAGEYR**3) + I(RIDAGEYR**4) + I(RIDAGEYR**5) + BMXBMI + I(BMXBMI**2) + I(BMXBMI**3) + I(BMXBMI**4) + I(BMXBMI**
145
140
135
130
125
120
115
110
BP (mm/Hg)
20
30
40
50
60
70
80
Age (years)
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

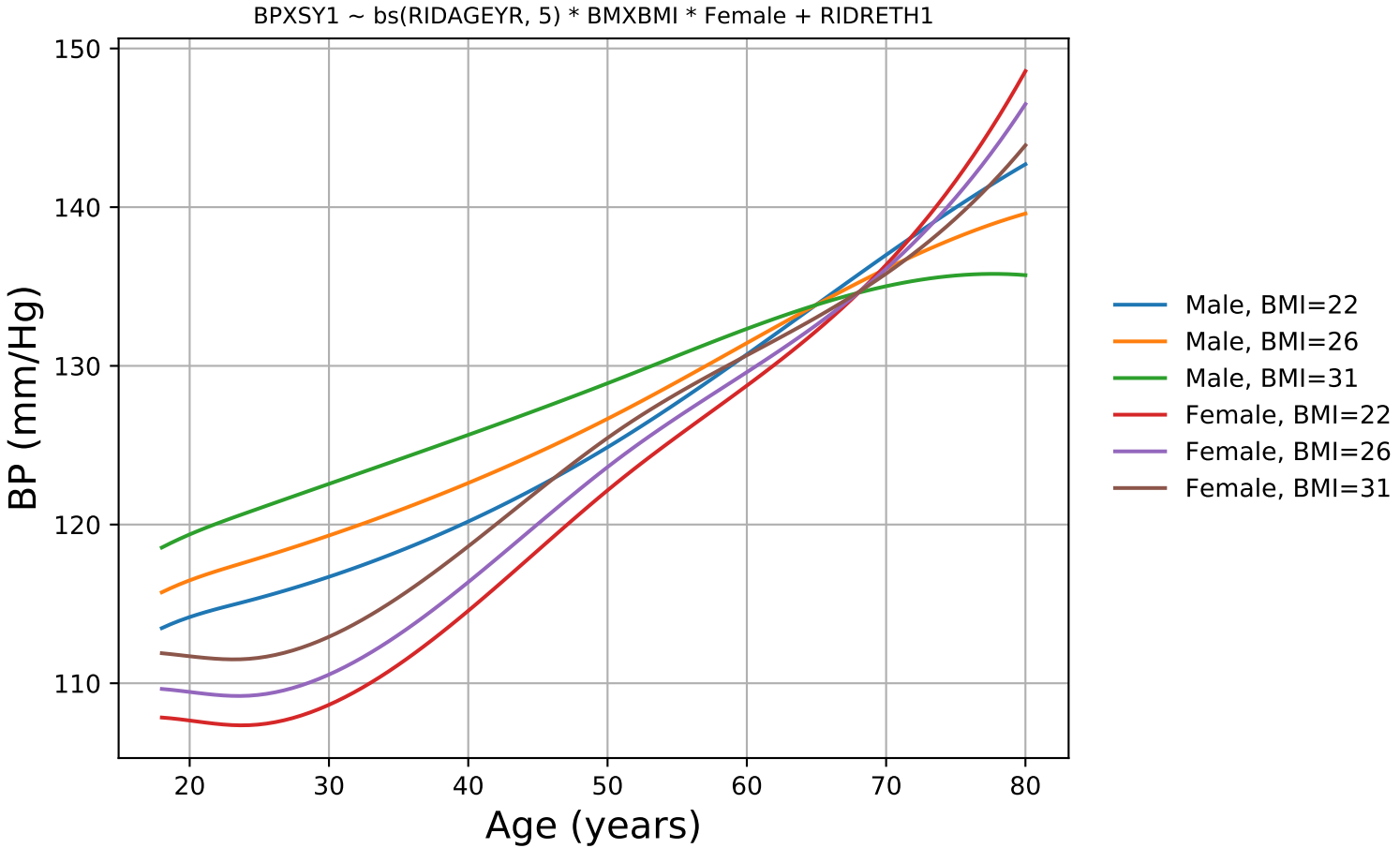

Expected absolute residual
13
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive

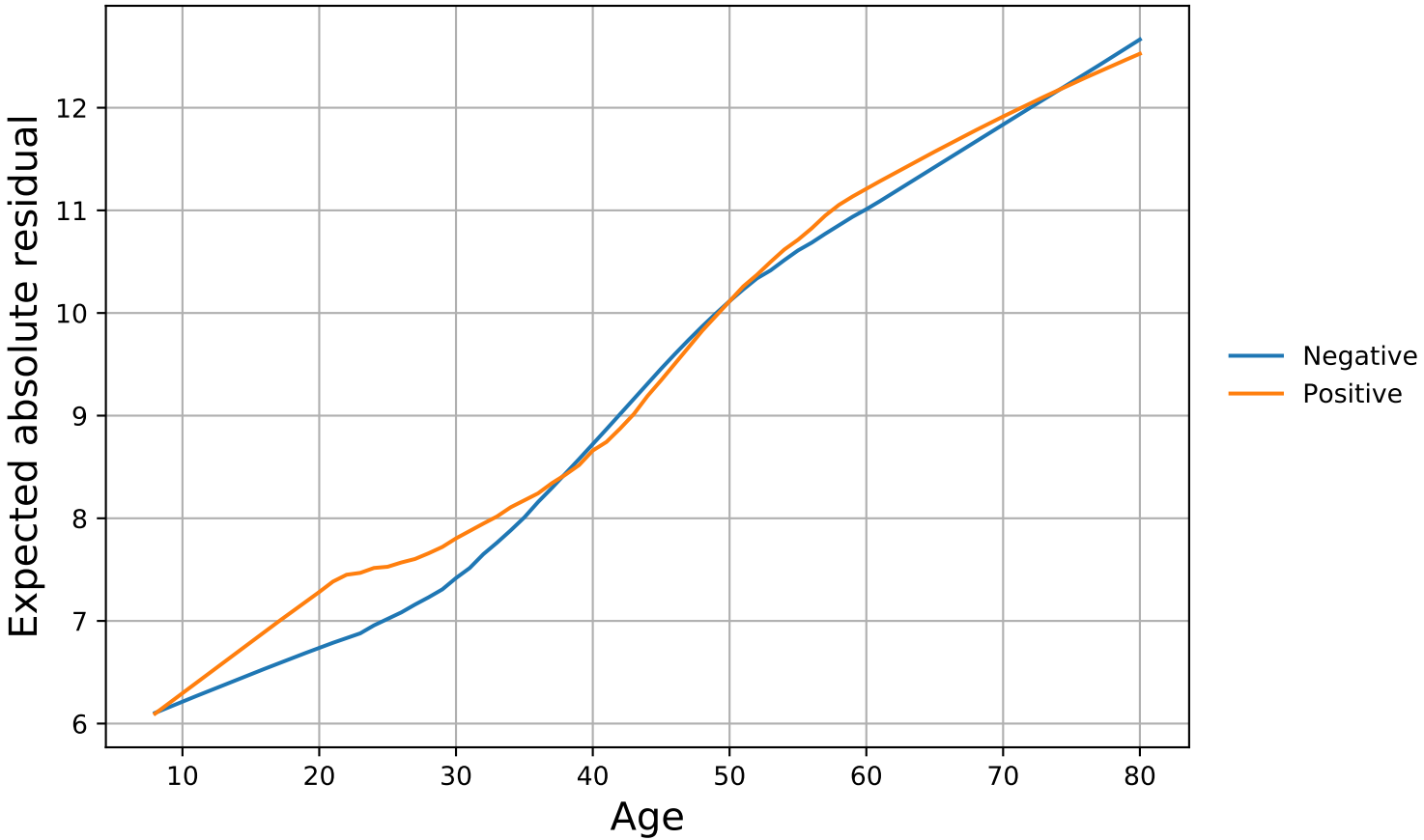

(RIDAGEYR**3) + I(RIDAGEYR**4) + I(RIDAGEYR**5) + BMXBMI + I(BMXBMI**2) + I(BMXBMI**3) + I(BMXBMI**4) + I(BMXBMI**
140
135
130
125
120
115
110
105
BP (mm/Hg)
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

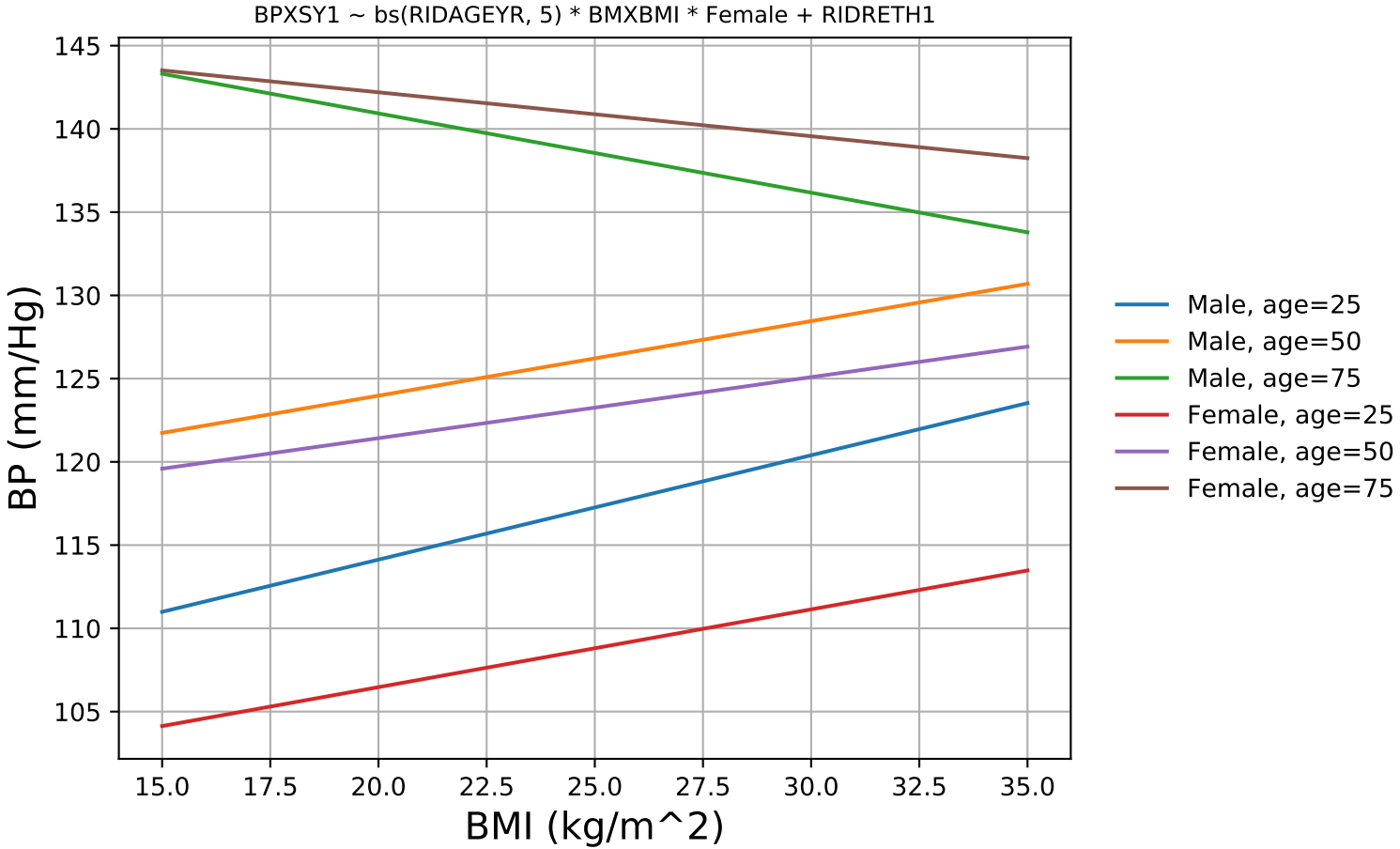

BPXSY1 ~ (bs(RIDAGEYR, 6) + bs(BMXBMI, 5)) * Female + RIDRETH1
BP (mm/Hg)
Age (years)
110
115
120
125
130
135
140
145
20
30
40
50
60
70
80
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

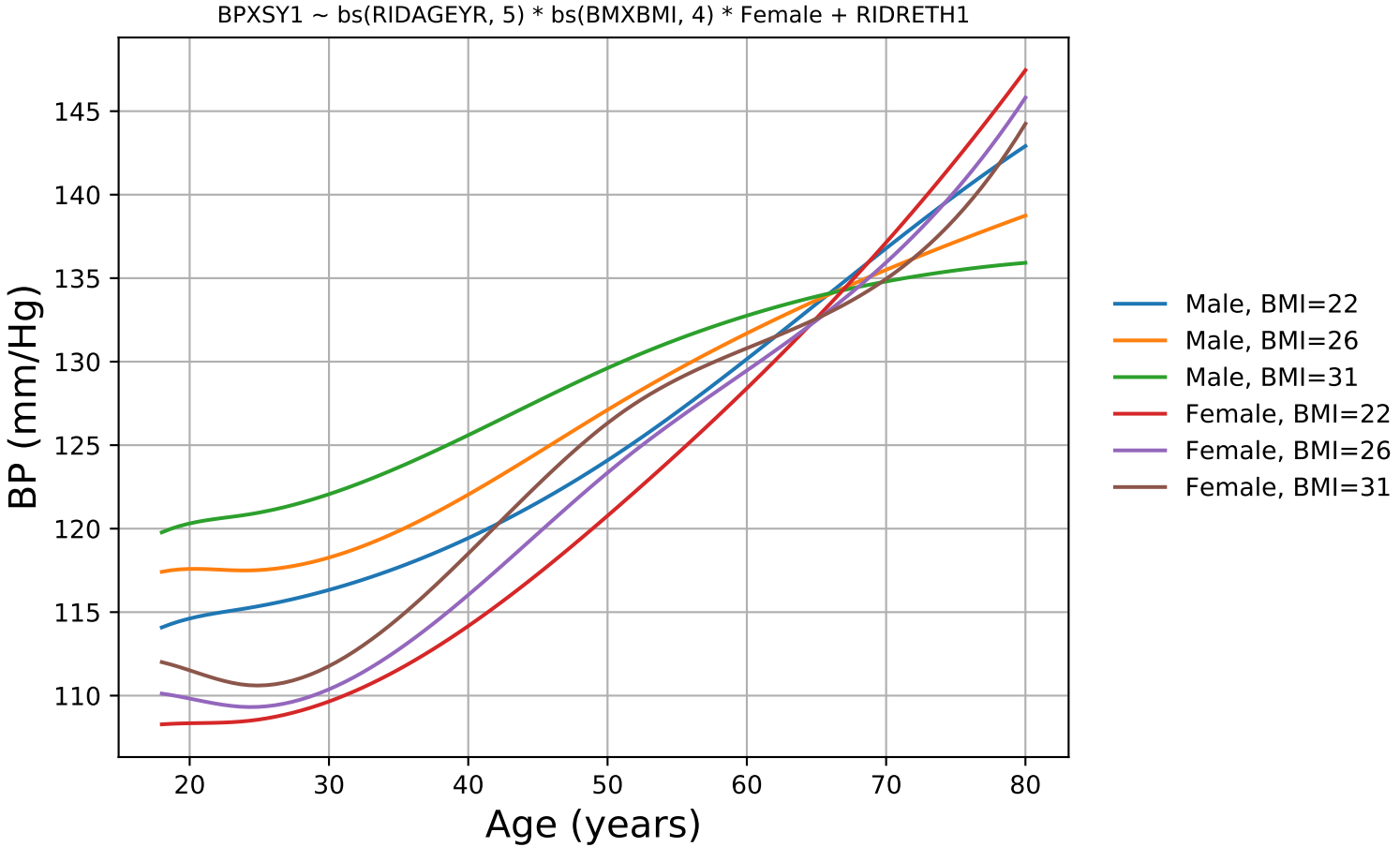

Expected absolute residual
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive

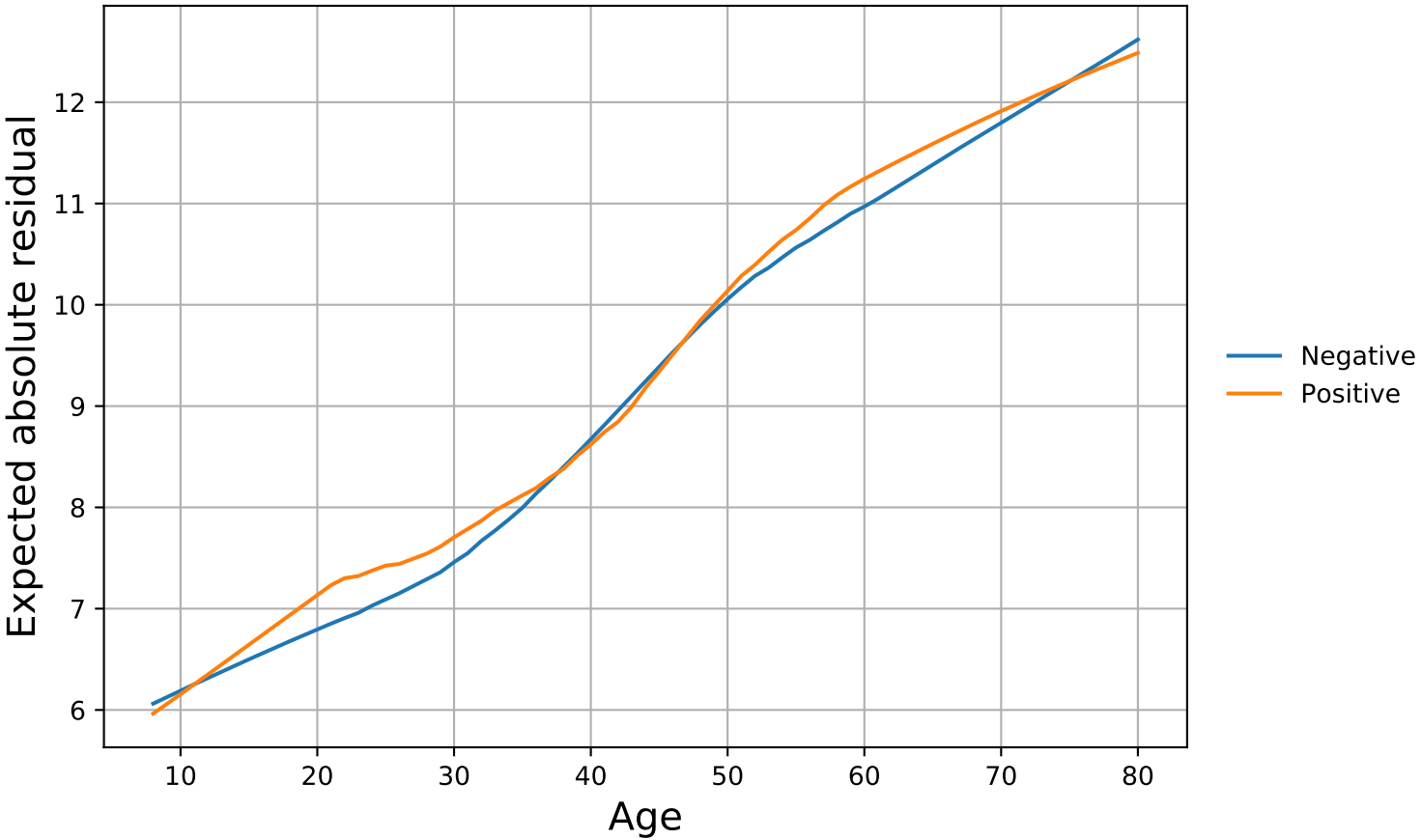

BPXSY1 ~ (bs(RIDAGEYR, 6) + bs(BMXBMI, 5)) * Female + RIDRETH1
BP (mm/Hg)
140
135
130
125
120
115
110
105
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75

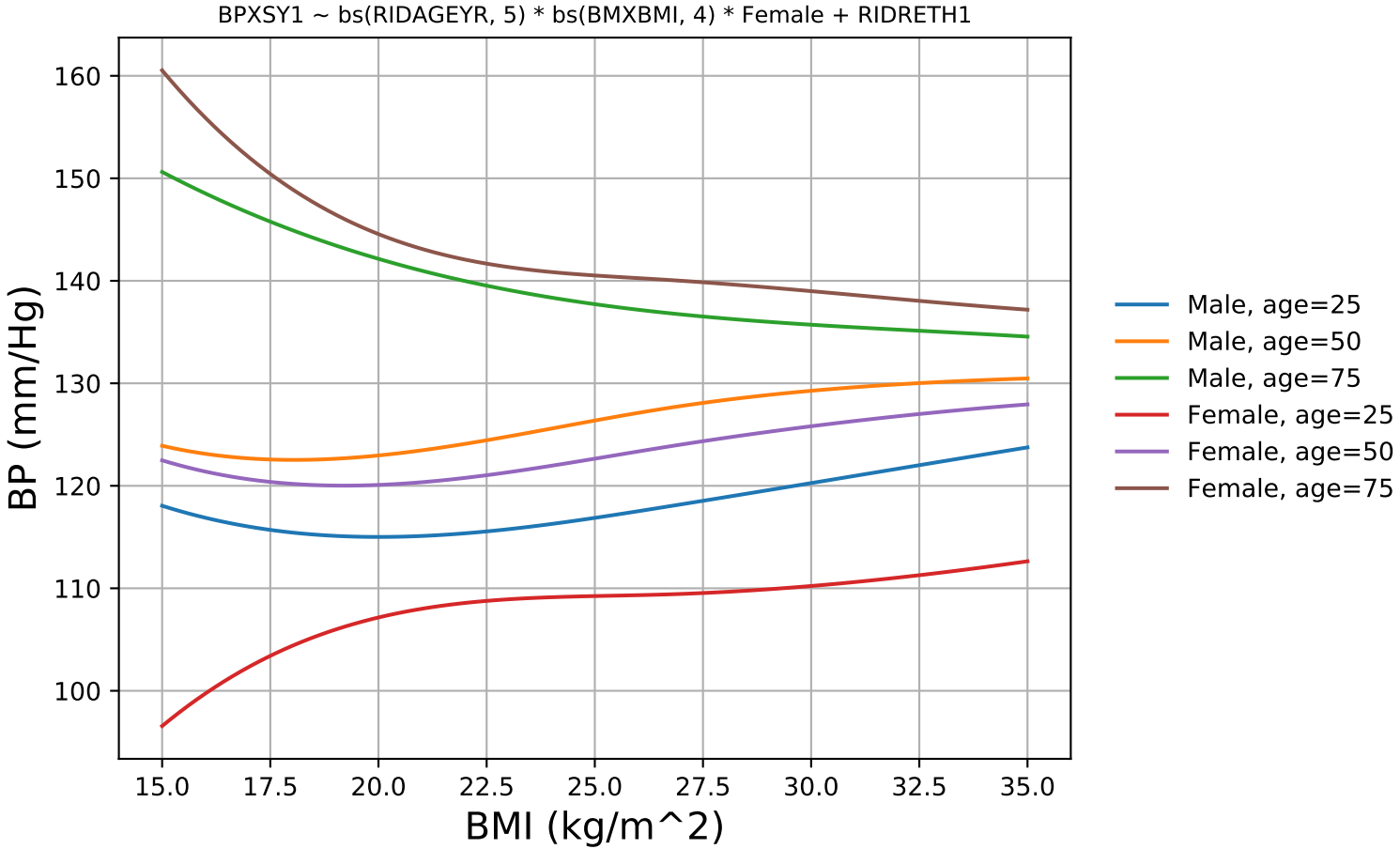

BPXSY1 ~ bs(RIDAGEYR, 5) * BMXBMI * Female + RIDRETH1
BP (mm/Hg)
Age (years)
150
140
130
120
110
20
30
40
50
60
70
80
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31

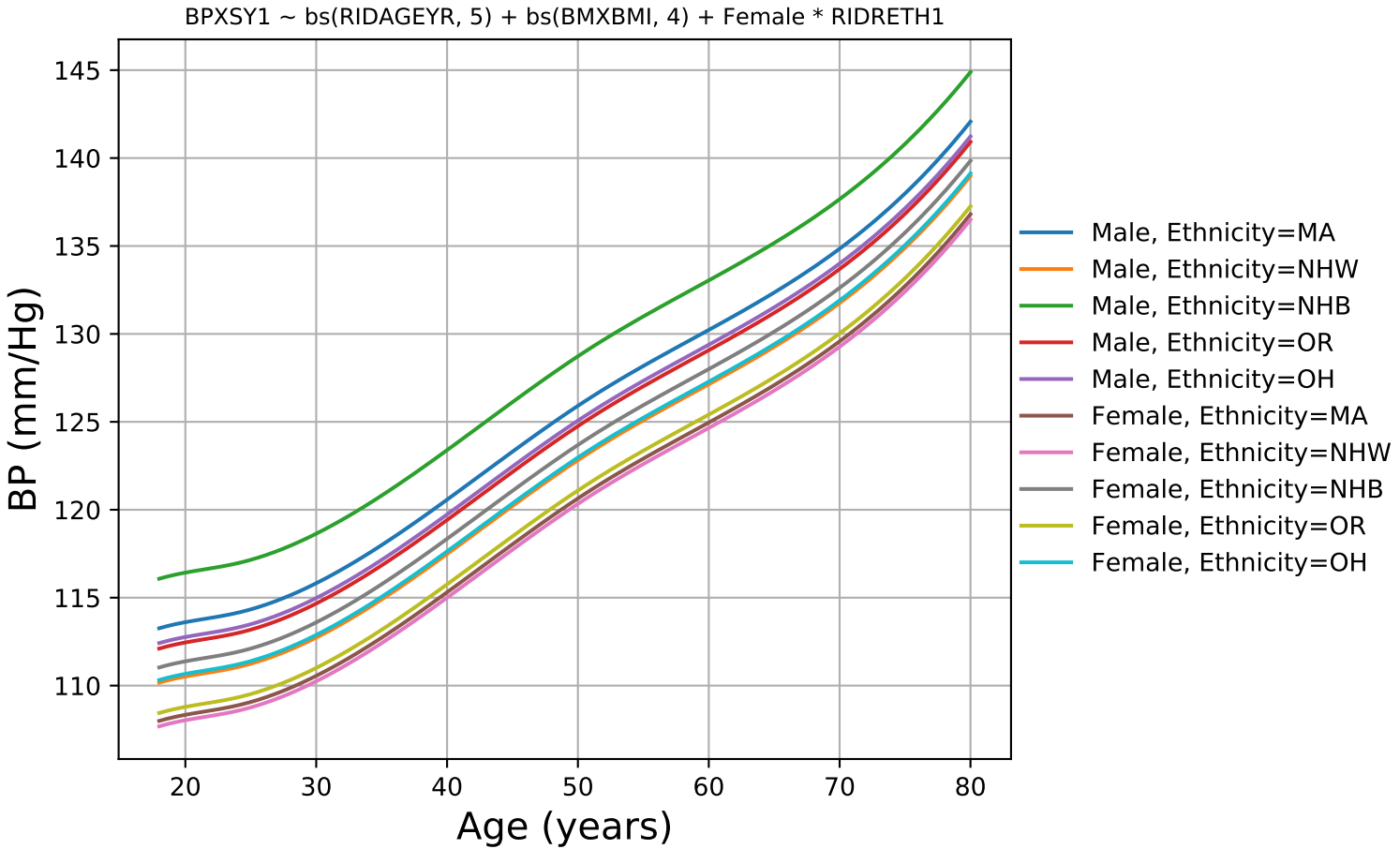

Expected absolute residual
6
7
8
9
10
11
12
10
20
30
40
50
60
70
80
Age
Negative
Positive

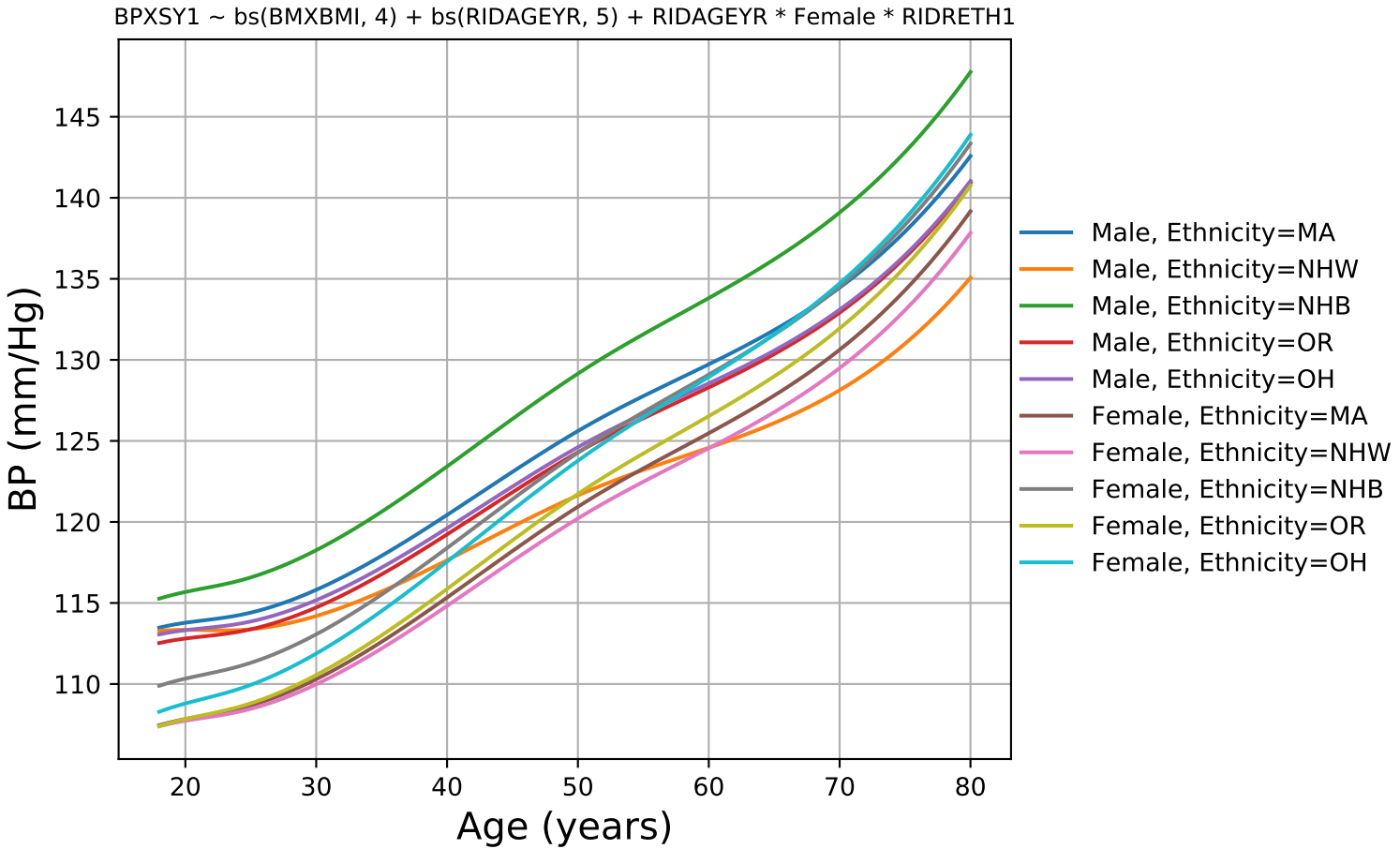

BPXSY1 ~ bs(RIDAGEYR, 5) * BMXBMI * Female + RIDRETH1
BP (mm/Hg)
145
140
135
130
125
120
115
110
105
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75


BPXSY1 ~ bs(RIDAGEYR, 5) * bs(BMXBMI, 4) * Female + RIDRETH1
BP (mm/Hg)
Age (years)
110
115
120
125
130
135
140
145
20
30
40
50
60
70
80
Male, BMI=22
Male, BMI=26
Male, BMI=31
Female, BMI=22
Female, BMI=26
Female, BMI=31


Expected absolute residual
12
11
10
9
8
7
6
10
20
30
40
50
60
70
80
Age
Negative
Positive


BPXSY1 ~ bs(RIDAGEYR, 5) * bs(BMXBMI, 4) * Female + RIDRETH1
BP (mm/Hg)
160
150
140
130
120
110
100
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5
35.0
BMI (kg/m^2)
Male, age=25
Male, age=50
Male, age=75
Female, age=25
Female, age=50
Female, age=75


BPXSY1 ~ bs(RIDAGEYR, 5) + bs(BMXBMI, 4) + Female * RIDRETH1
BP (mm/Hg)
Age (years)
145
140
135
130
125
120
115
110
20
30
40
50
60
70
80
Male, Ethnicity=MA
Male, Ethnicity=NHW
Male, Ethnicity=NHB
Male, Ethnicity=OR
Male, Ethnicity=OH
Female, Ethnicity=MA
Female, Ethnicity=NHW
Female, Ethnicity=NHB
Female, Ethnicity=OR
Female, Ethnicity=OH


BPXSY1 ~ bs(BMXBMI, 4) + bs(RIDAGEYR, 5) + RIDAGEYR * Female * RIDRETH1
BP (mm/Hg)
Age (years)
110
115
120
125
130
135
140
145
20
30
40
50
60
70
80
Male, Ethnicity=MA
Male, Ethnicity=NHW
Male, Ethnicity=NHB
Male, Ethnicity=OR
Male, Ethnicity=OH
Female, Ethnicity=MA
Female, Ethnicity=NHW
Female, Ethnicity=NHB
Female, Ethnicity=OR
Female, Ethnicity=OH