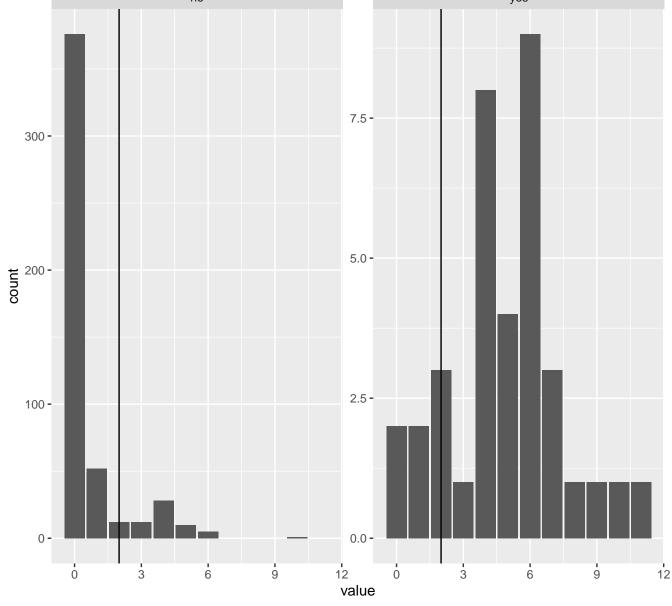
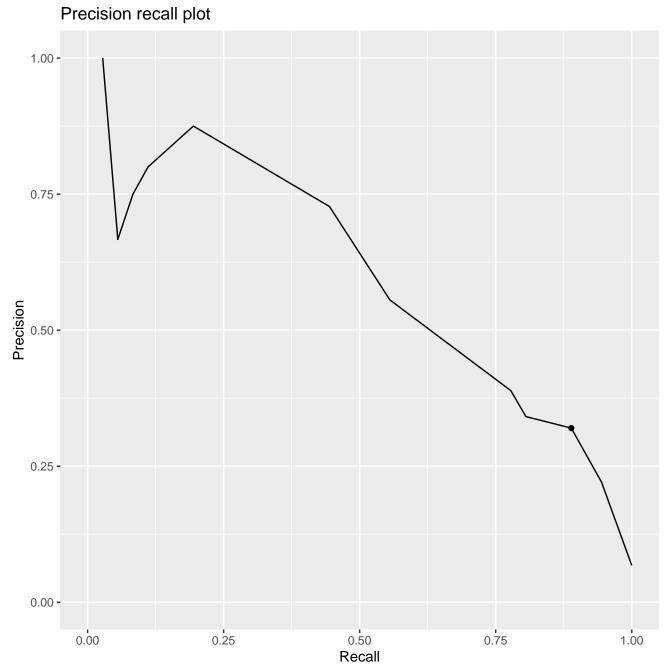
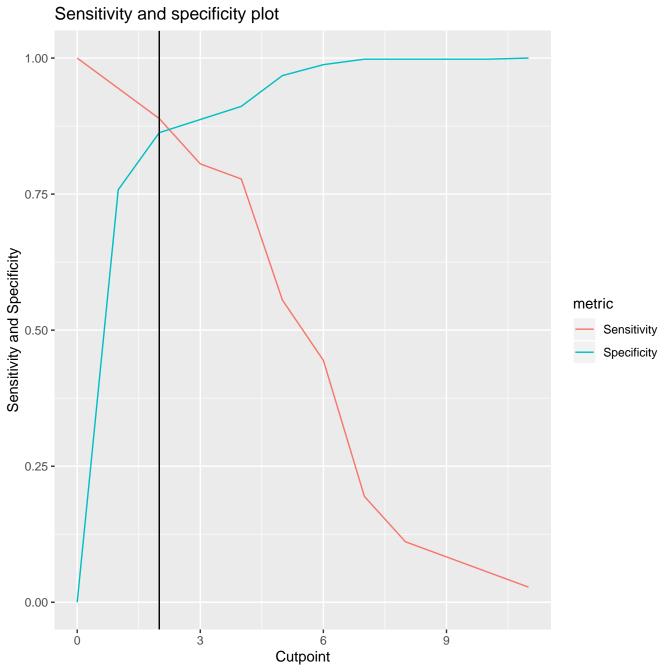


Independent variable optimal cutpoint and distribution by class no yes 7.5 -300 -5.0 -



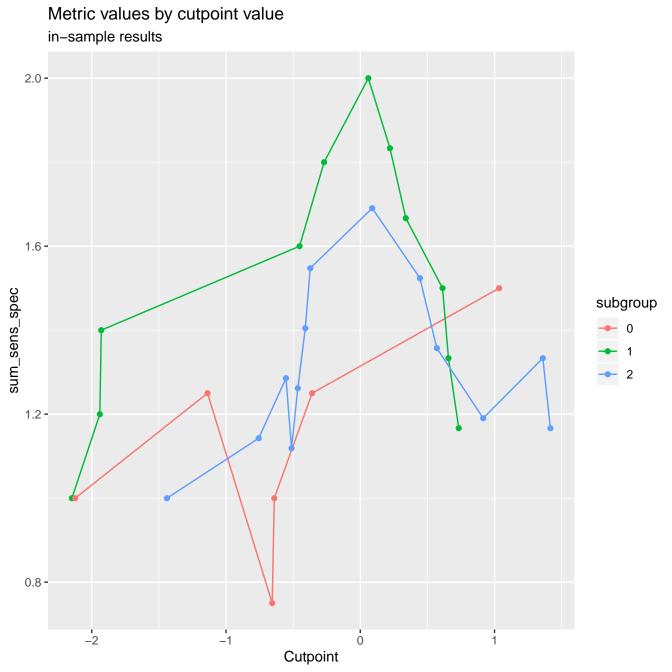


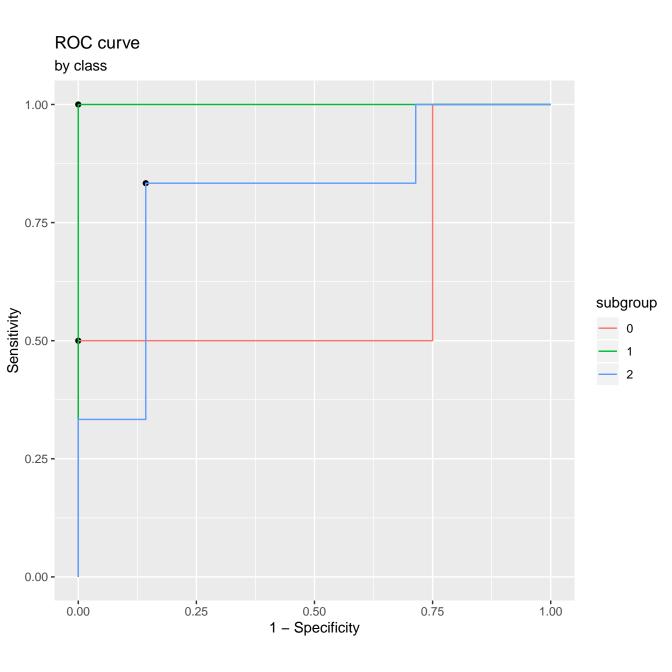


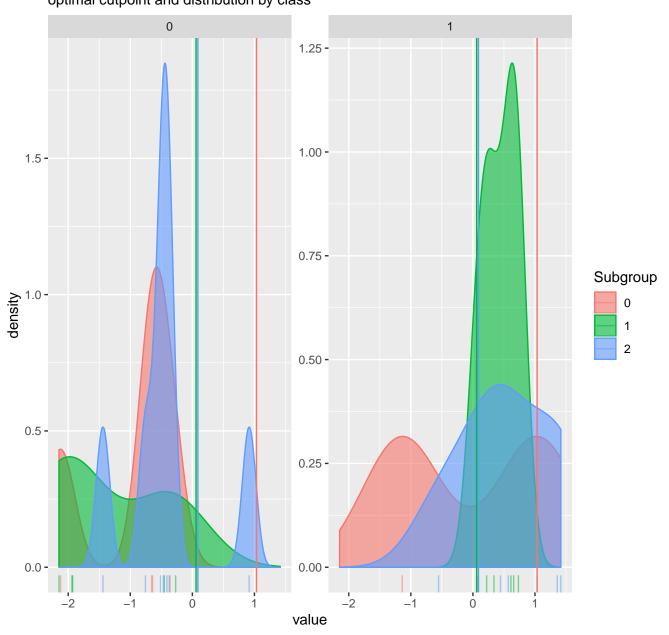
Independent variable optimal cutpoint and distribution by class 0 1.25 -**ROC** curve by class 1.00 -1.5 -1.00 -0.75 **-**0.75 -Sensitivity density 1.0 -0.50 -0.50 -0.25 -0.5 -0.00 -0.25 0.75 1.00 0.00 0.50 0.25 -1 - Specificity 0.0 -0.00 --2 value

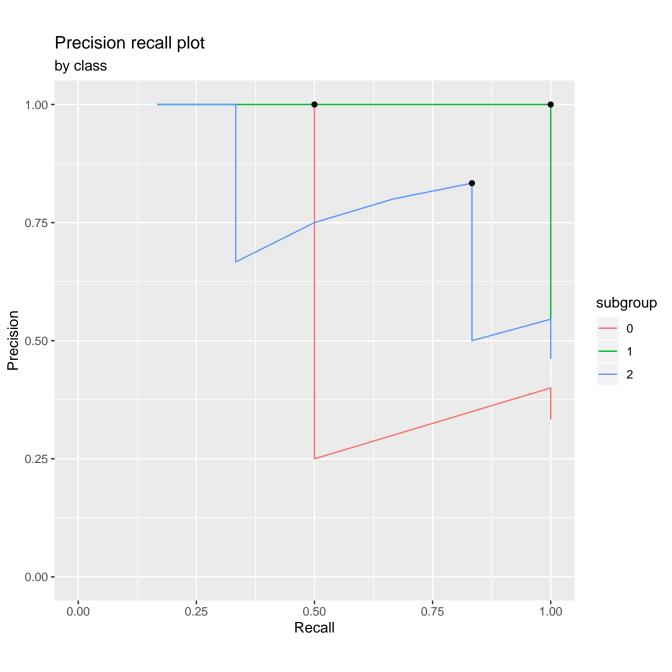
2

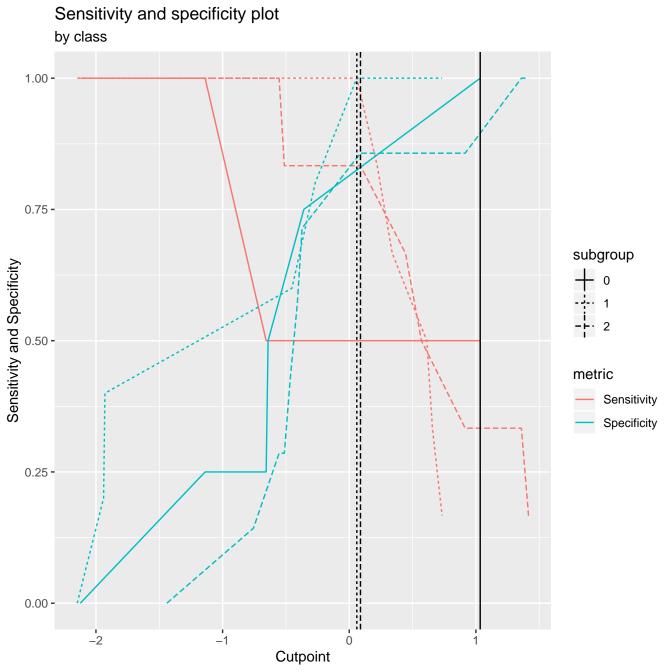
Subgroup







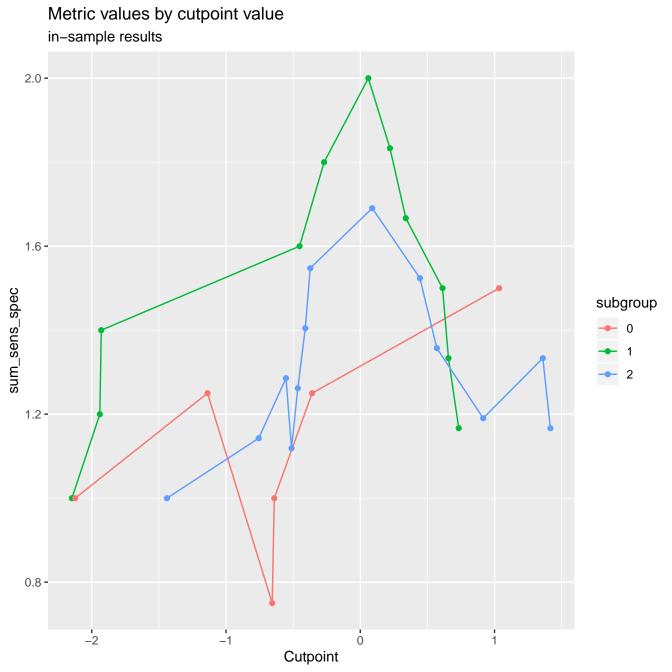


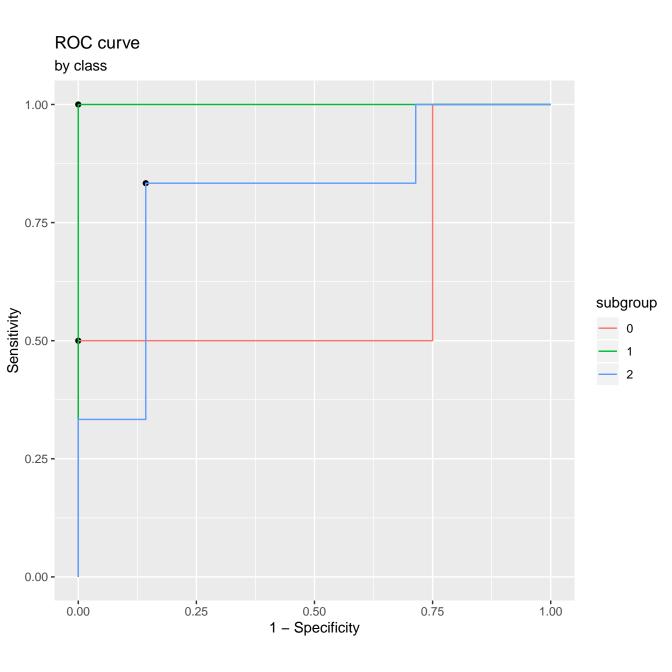


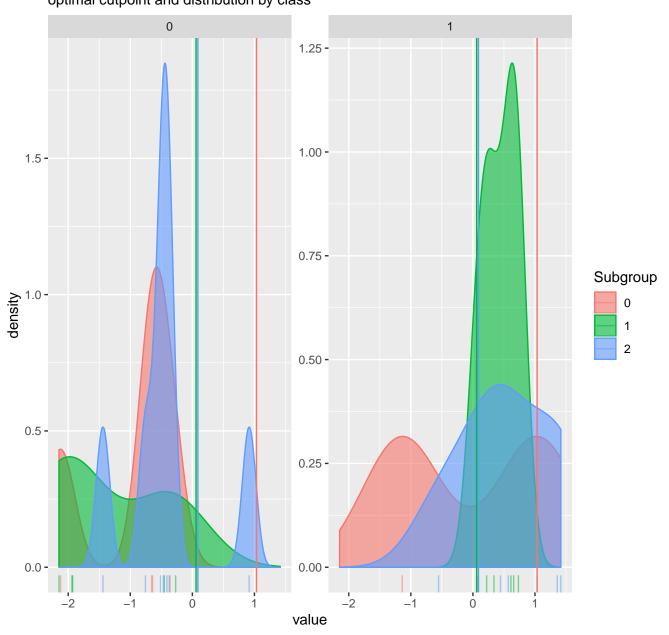
Independent variable optimal cutpoint and distribution by class 0 1.25 -**ROC** curve by class 1.00 -1.5 -1.00 -0.75 **-**0.75 -Sensitivity density 1.0 -0.50 -0.50 -0.25 -0.5 -0.00 -0.25 0.75 1.00 0.00 0.50 0.25 -1 - Specificity 0.0 -0.00 --2 value

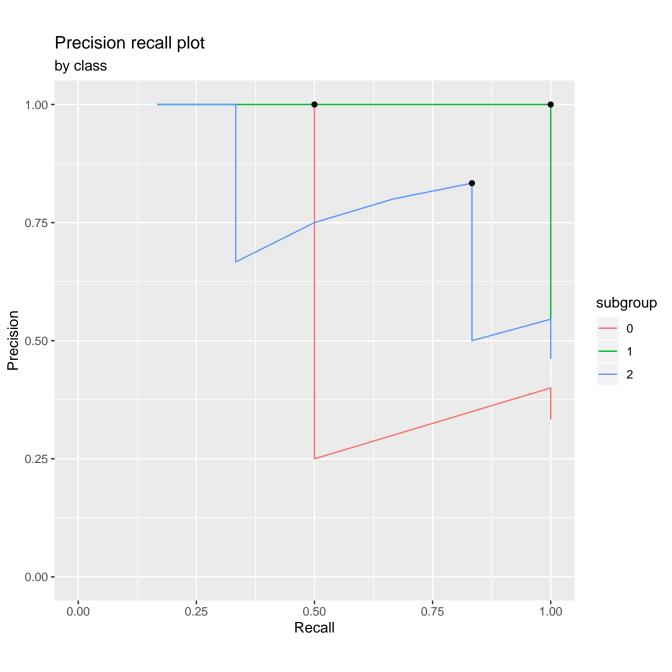
2

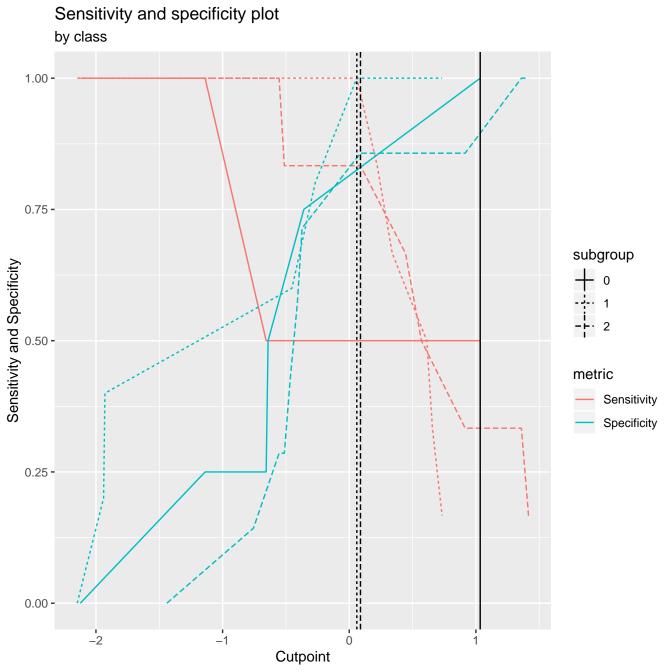
Subgroup







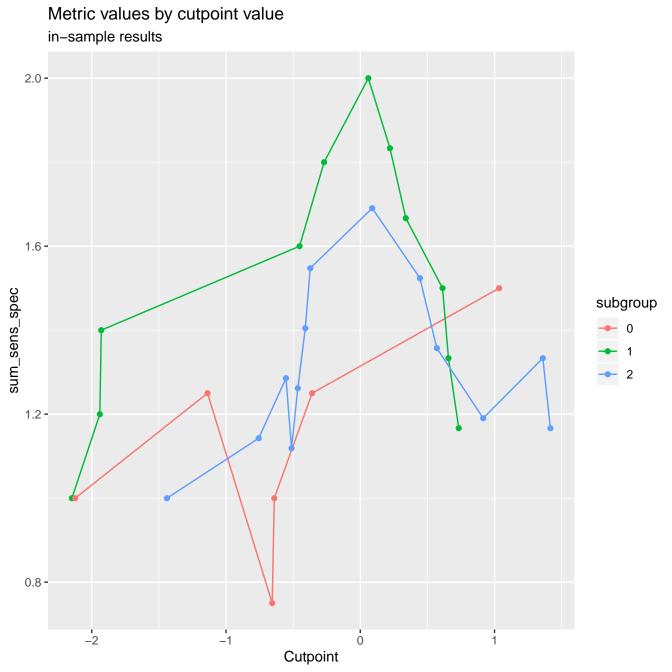


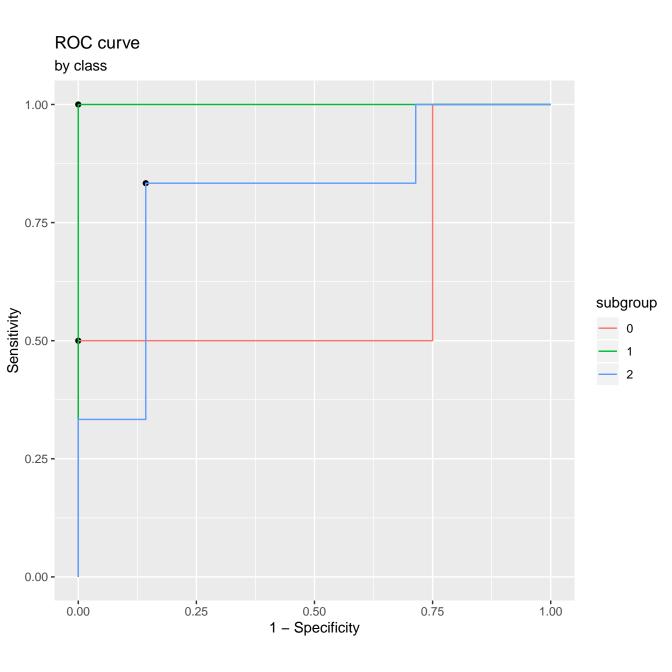


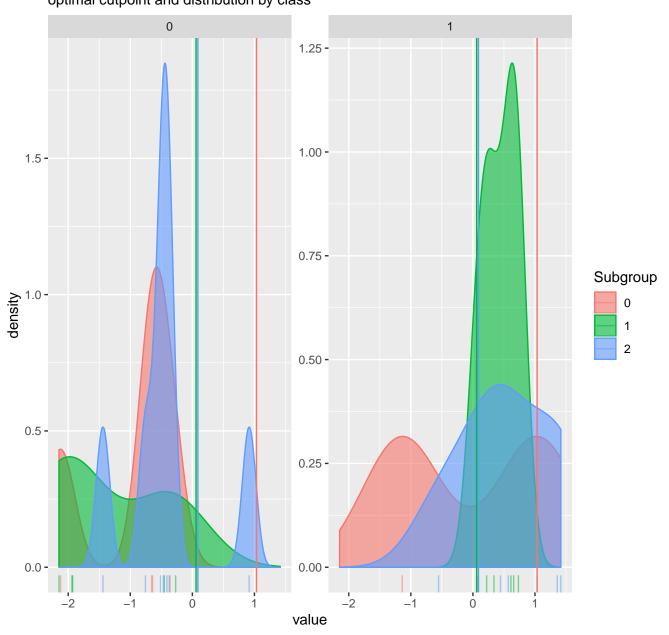
Independent variable optimal cutpoint and distribution by class 0 1.25 -**ROC** curve by class 1.00 -1.5 -1.00 -0.75 **-**0.75 -Sensitivity density 1.0 -0.50 -0.50 -0.25 -0.5 -0.00 -0.25 0.75 1.00 0.00 0.50 0.25 -1 - Specificity 0.0 -0.00 --2 value

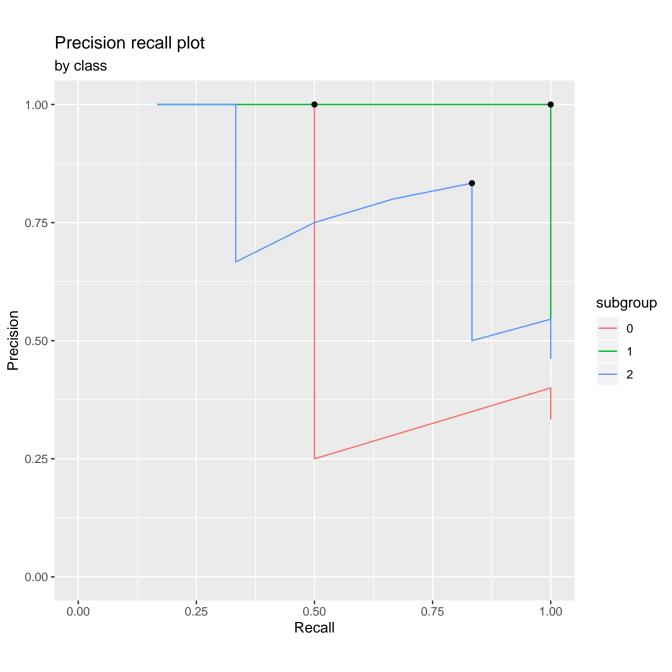
2

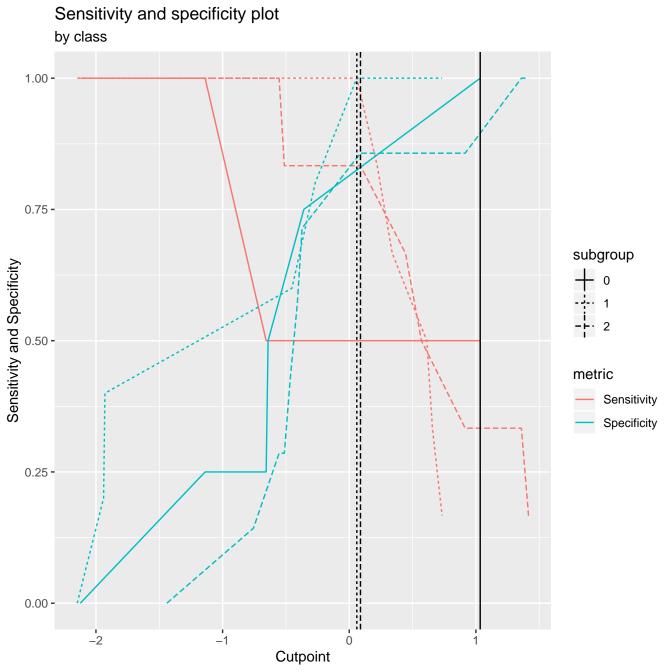
Subgroup

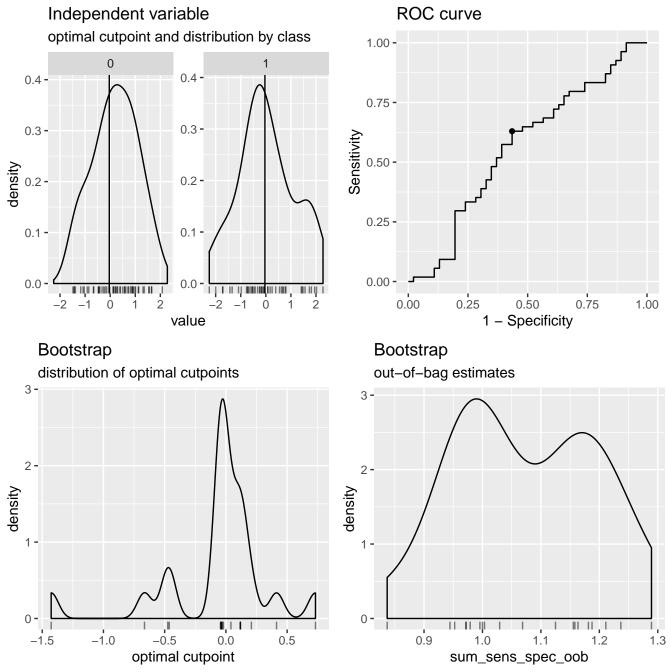


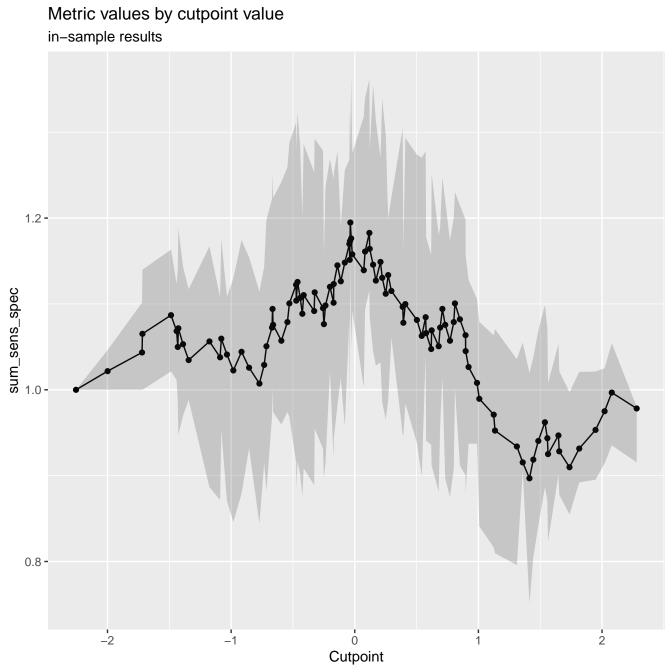


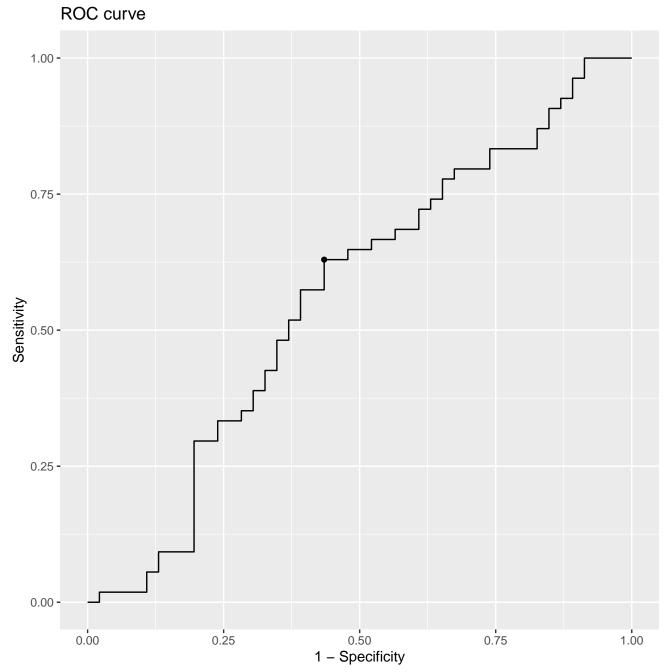


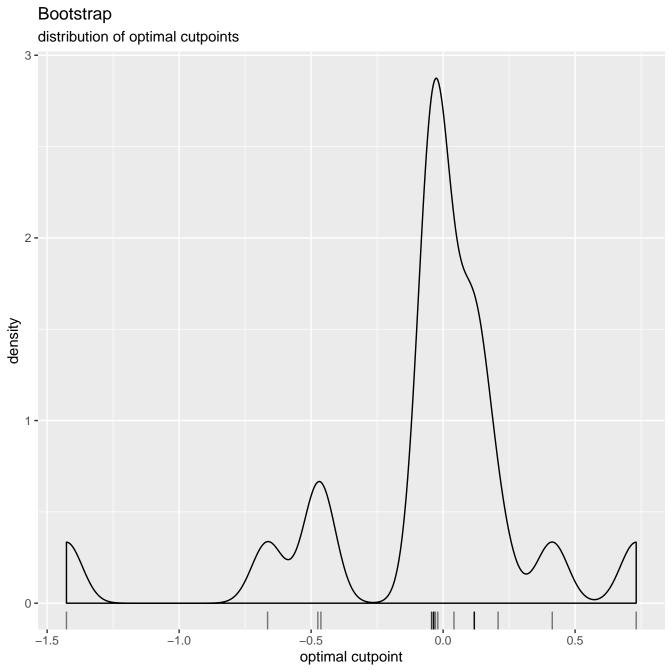


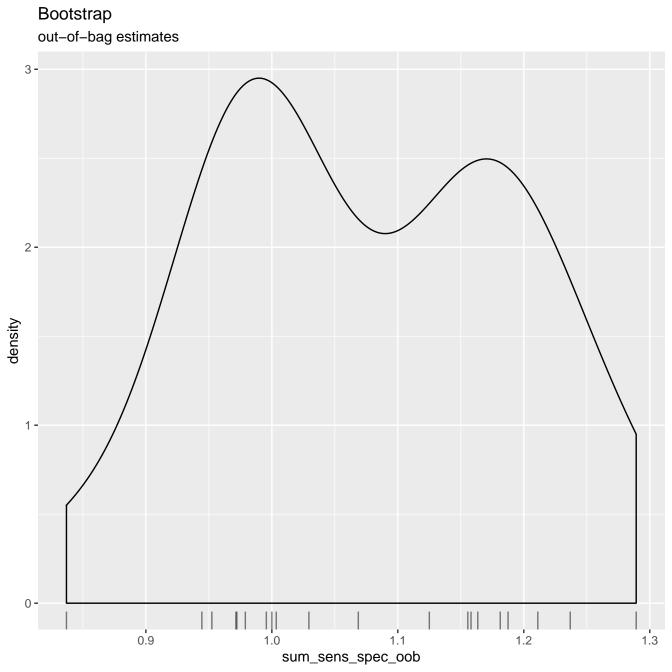








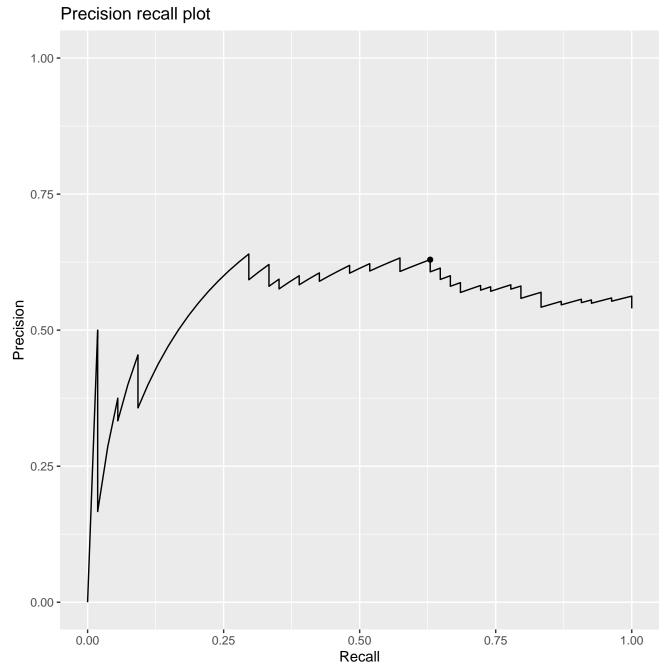


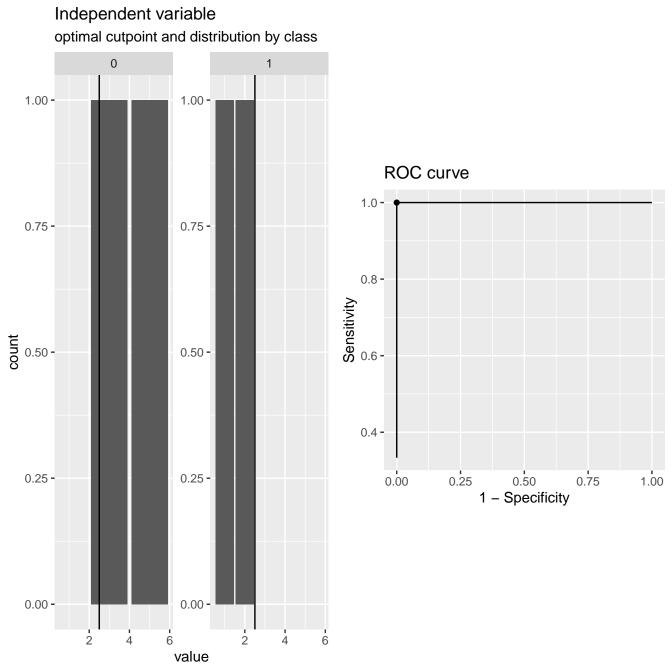


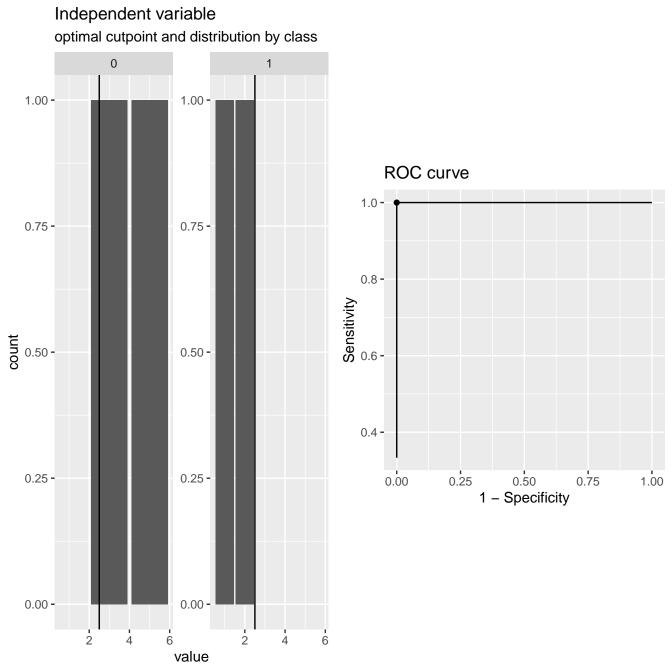
Independent variable optimal cutpoint and distribution by class 0.4 -0.4 -0.3 -0.3 density 0.2 -0.1 -0.1 -0.0 -0.0 -

value

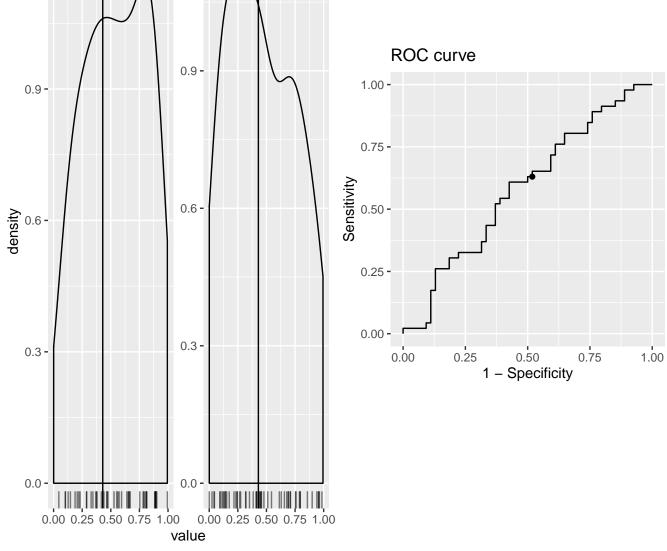
-2



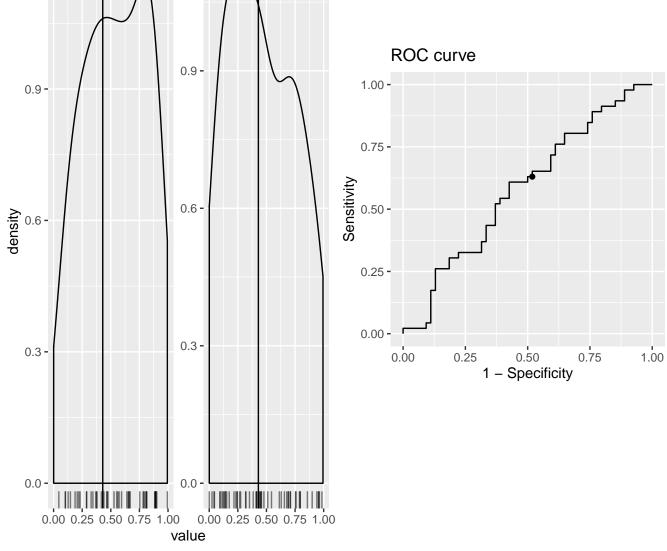




Independent variable optimal cutpoint and distribution by class 1.2 -**ROC** curve 0.9 -1.00 -0.9 -0.75 -Sensitivity - 0.50 -0.6 -0.25 -0.00 -0.3 -0.3 -0.25 0.75 1.00 0.00 0.50 1 - Specificity



Independent variable optimal cutpoint and distribution by class 1.2 -**ROC** curve 0.9 -1.00 -0.9 -0.75 -Sensitivity - 0.50 -0.6 -0.25 -0.00 -0.3 -0.3 -0.25 0.75 1.00 0.00 0.50 1 - Specificity



Independent variable optimal cutpoint and distribution by class 0 1.2 -**ROC** curve 0.9 -1.00 -0.9 -0.75 -Sensitivity - 0.50 -0.6 density -0.25 -0.00 -0.3 -0.3 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0.0 -0.0 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00

Independent variable optimal cutpoint and distribution by class 0 1.2 -**ROC** curve 0.9 -1.00 -0.9 -0.75 -Sensitivity - 0.50 -0.6 density -0.25 -0.00 -0.3 -0.3 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0.0 -0.0 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00

Independent variable optimal cutpoint and distribution by class 1.2 -**ROC** curve 0.9 -1.00 -0.9 -0.75 -Sensitivity - 0.50 -0.6 density -0.25 -0.00 -0.3 -0.3 -0.25 0.50 1 – Specificity 0.75 1.00 0.00 0.0 -0.0 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 value

Independent variable optimal cutpoint and distribution by class 1.2 -**ROC** curve 0.9 -1.00 -0.9 -0.75 -Sensitivity - 0.50 -0.6 density -0.25 -0.00 -0.3 -0.3 -0.25 0.50 1 – Specificity 0.75 1.00 0.00 0.0 -0.0 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 value

Independent variable optimal cutpoint and distribution by class 0 **ROC** curve 0.9 -0.9 -1.00 -0.75 -Sensitivity 0.6 density 0.25 -0.00 -0.3 -0.3 -0.25 0.50 1 – Specificity 0.75 1.00 0.00

0.0 - 1

0

10

20

0.0

value

30

10

20

30

Independent variable optimal cutpoint and distribution by class 0 **ROC** curve 0.9 -0.9 -1.00 -0.75 -Sensitivity 0.6 density 0.25 -0.00 -0.3 -0.3 -0.25 0.50 1 – Specificity 0.75 1.00 0.00

0.0 - 1

0

10

20

0.0

value

30

10

20

30

Independent variable optimal cutpoint and distribution by class 0 0.5 -**ROC** curve 0.4 by class 0.4 -1.00 -0.3 -0.75 -0.3 -Sensitivity ... density 0.2 -0.2 -0.25 -0.00 -0.1 -0.25 0.75 1.00 0.00 0.50 0.1 -1 - Specificity 0.0 -0.0 value

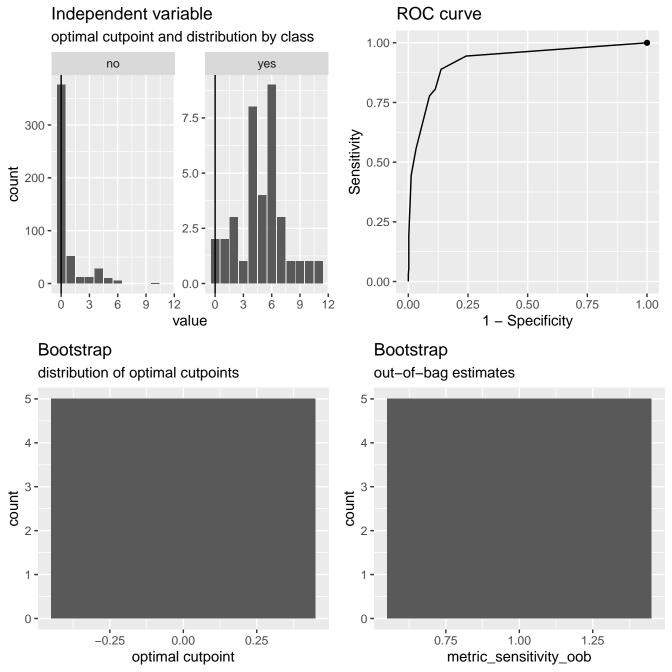
Subgroup

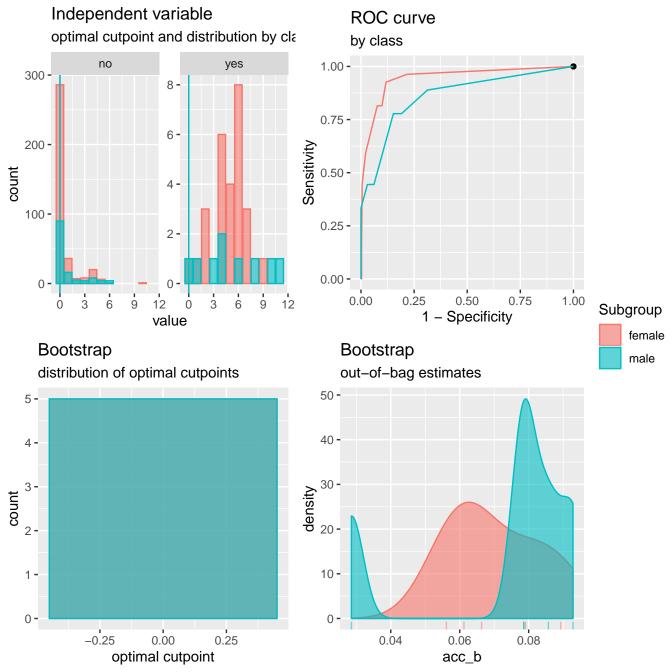
Independent variable optimal cutpoint and distribution by class 0 0.5 -**ROC** curve 0.4 by class 0.4 -1.00 -0.3 -0.75 -0.3 -Sensitivity density 0.2 -0.2 -0.25 -0.00 -0.1 -0.25 0.75 1.00 0.00 0.50 0.1 -1 - Specificity 0.0 -0.0 value Subgroup

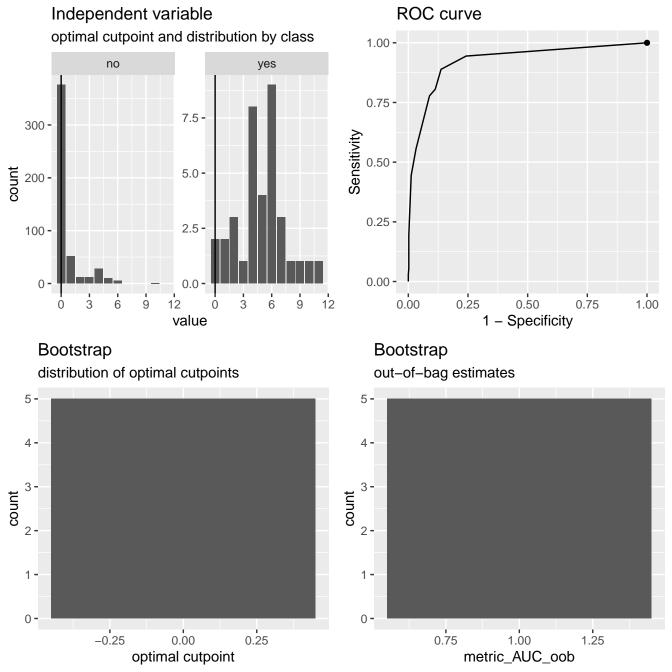
Independent variable optimal cutpoint and distribution by class 0 0.5 -**ROC** curve 0.4 by class 0.4 -1.00 -0.3 -0.75 -0.3 -Sensitivity density 0.2 -0.2 -0.25 -0.00 -0.1 -0.25 0.75 1.00 0.00 0.50 0.1 -1 - Specificity 0.0 -0.0 value Subgroup

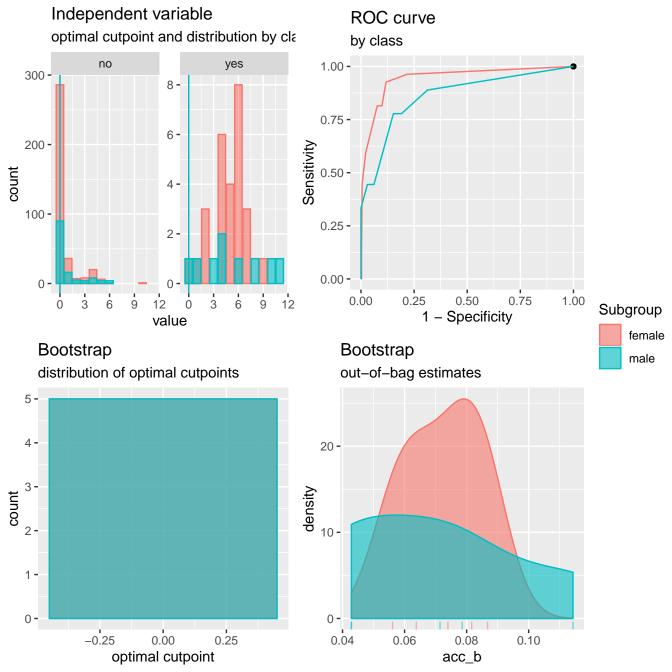
Independent variable optimal cutpoint and distribution by class 0 0.5 -**ROC** curve 0.4 by class 0.4 -1.00 -0.3 -0.75 -0.3 -Sensitivity density 0.2 -0.2 -0.25 -0.00 -0.1 -0.00 0.25 0.75 1.00 0.50 0.1 -1 - Specificity 0.0 -0.0 -10 20 20 10 30 30 value

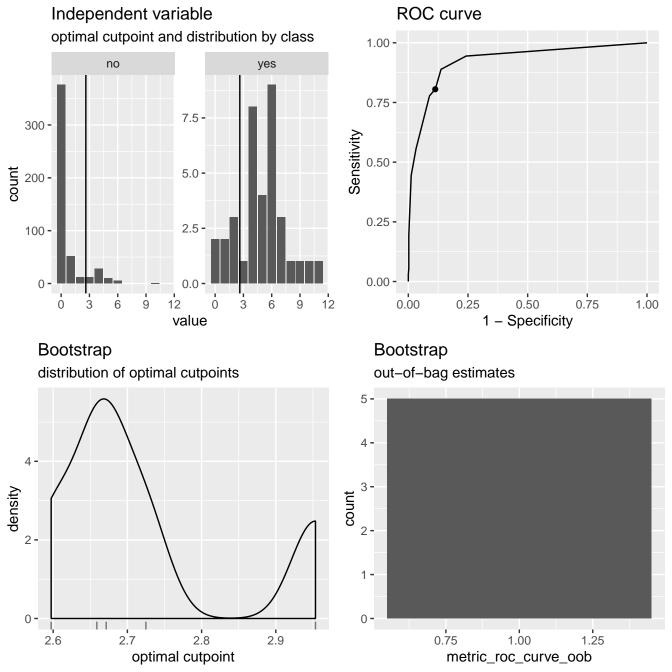
Subgroup

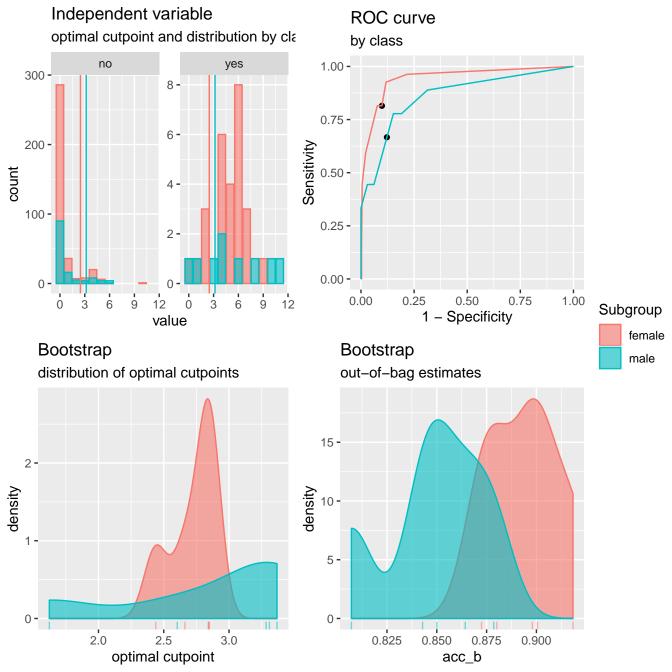




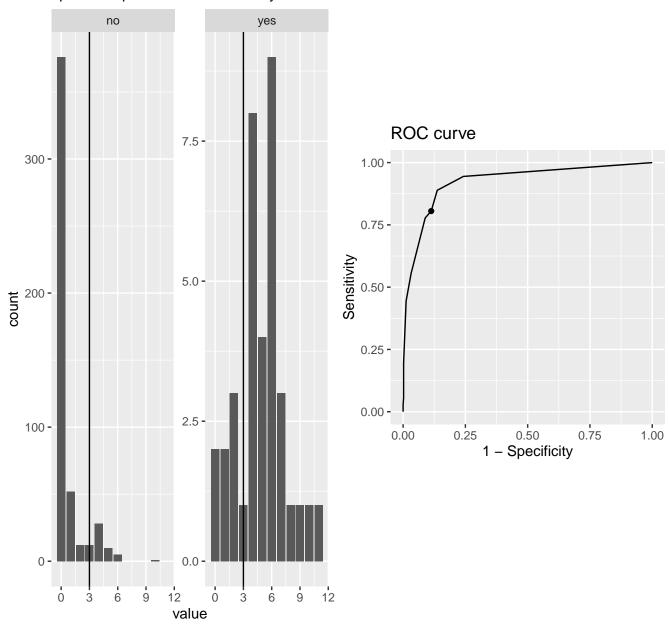




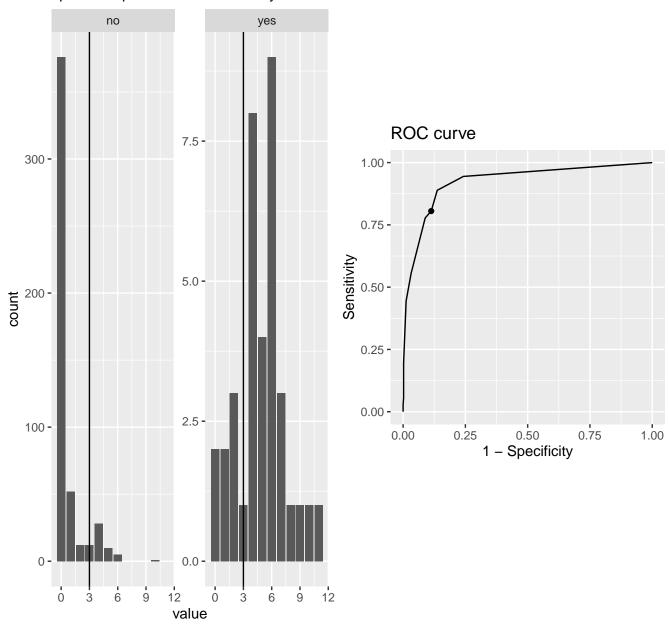




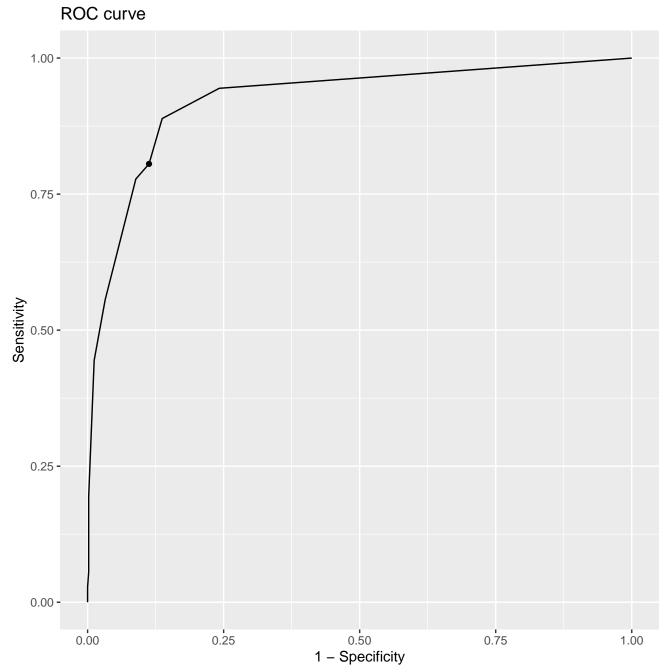
Independent variable optimal cutpoint and distribution by class



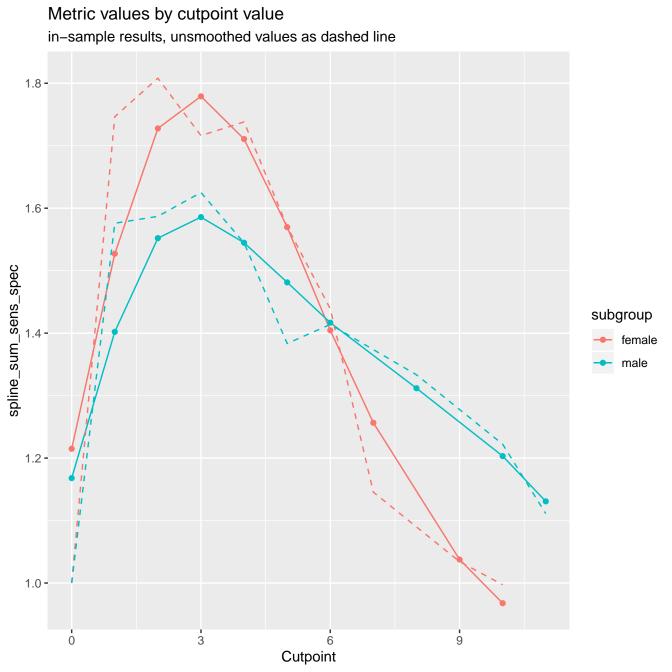
Independent variable optimal cutpoint and distribution by class

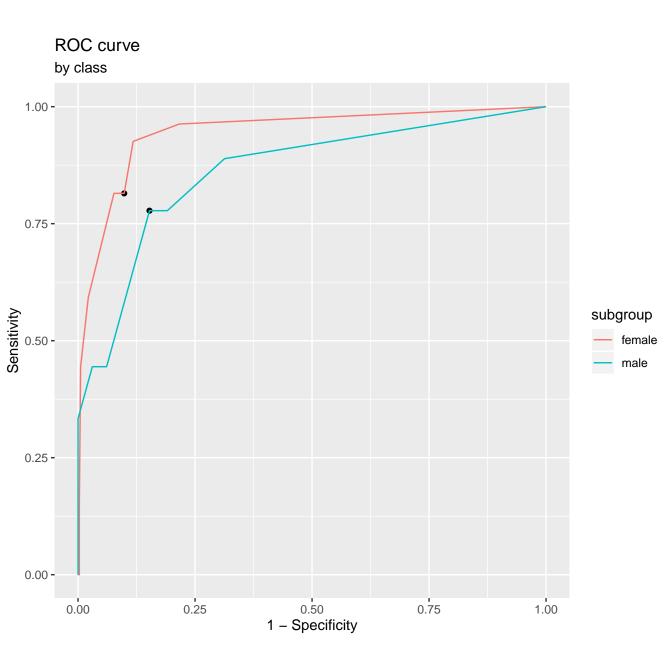


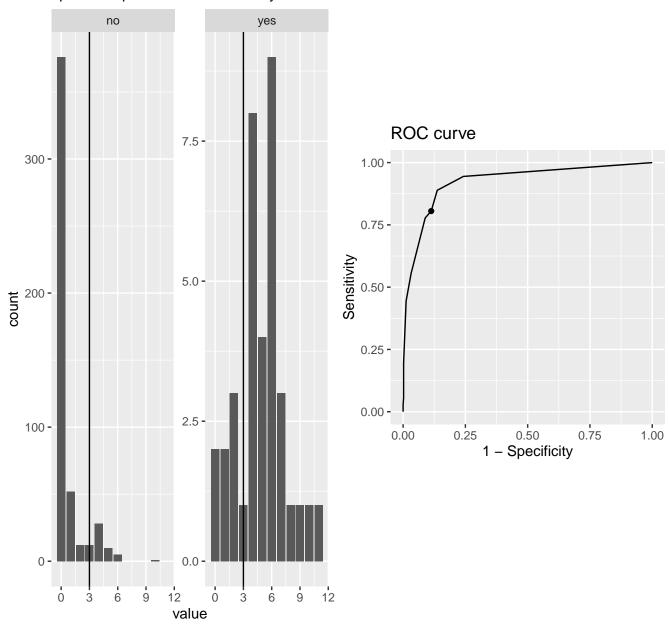
Metric values by cutpoint value in-sample results, unsmoothed values as dashed line 1.6 spline_sum_sens_spec 1.2 -1.0 -3 0 9 Cutpoint

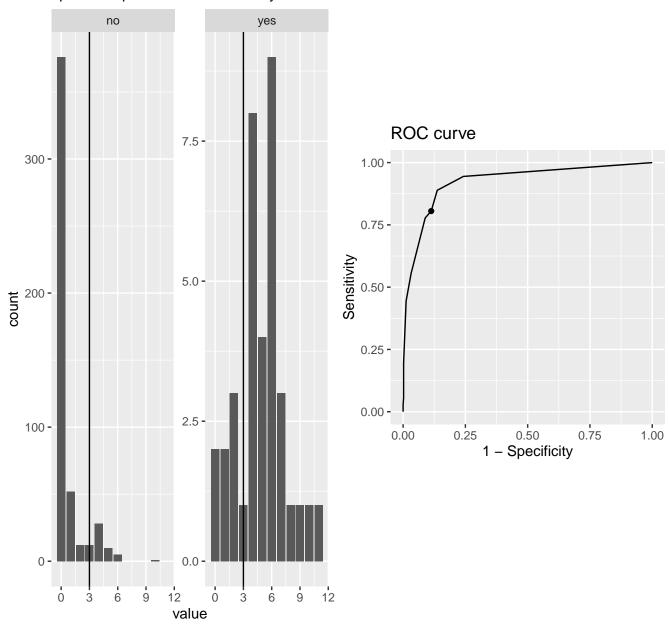


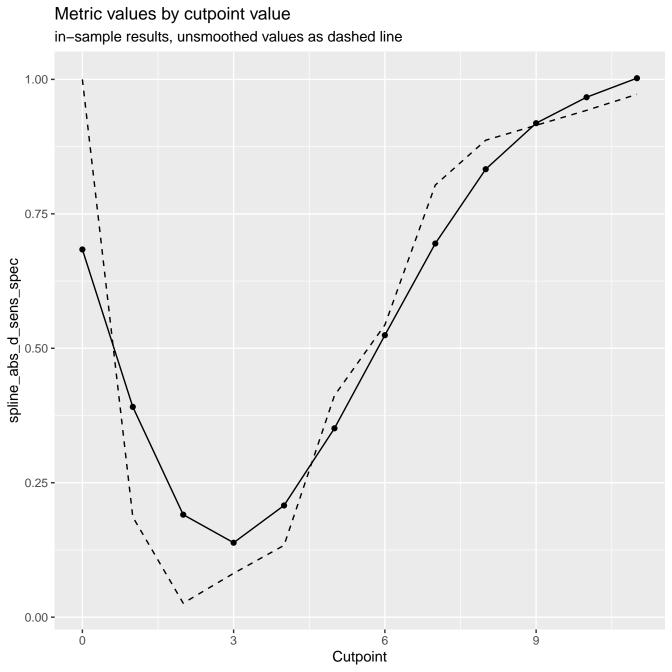
Independent variable optimal cutpoint and distribution by class no yes 300 -8 -**ROC** curve by class 1.00 -6 -200 -0.75 **-**Sensitivity - 0.50 count 4 -0.25 -100 -0.00 -2 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0 -6 12 9 9 6 0 0 12 3 3 value Subgroup female male

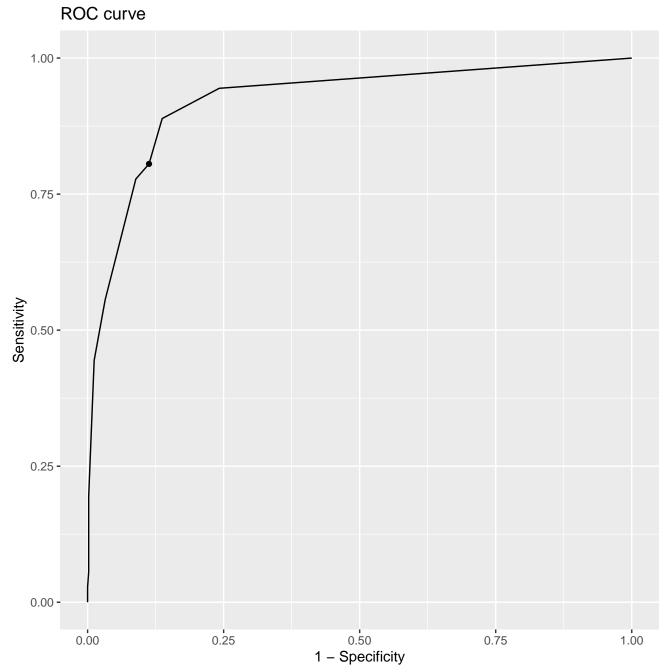


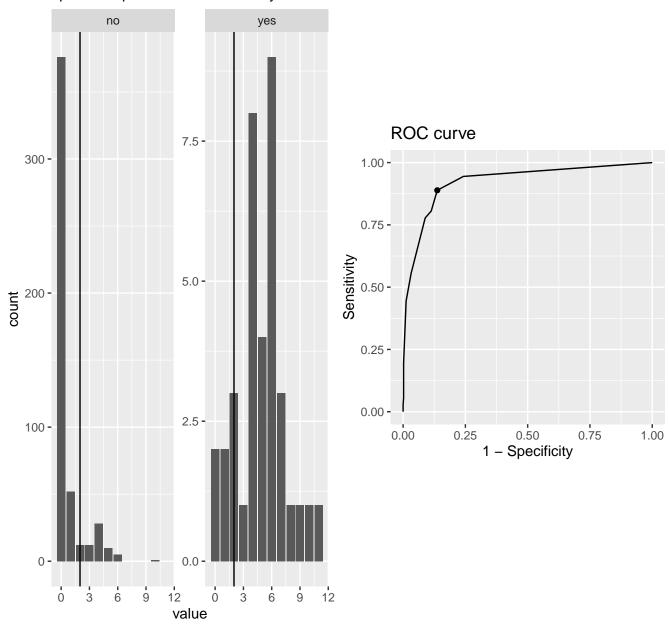


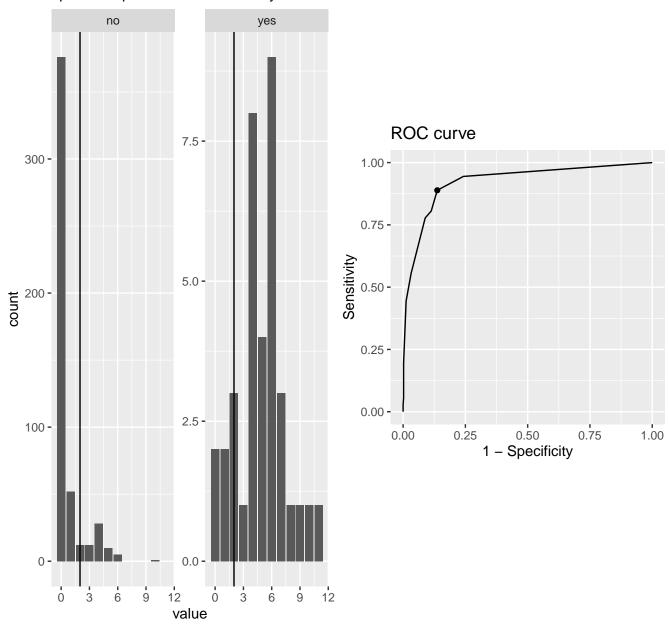




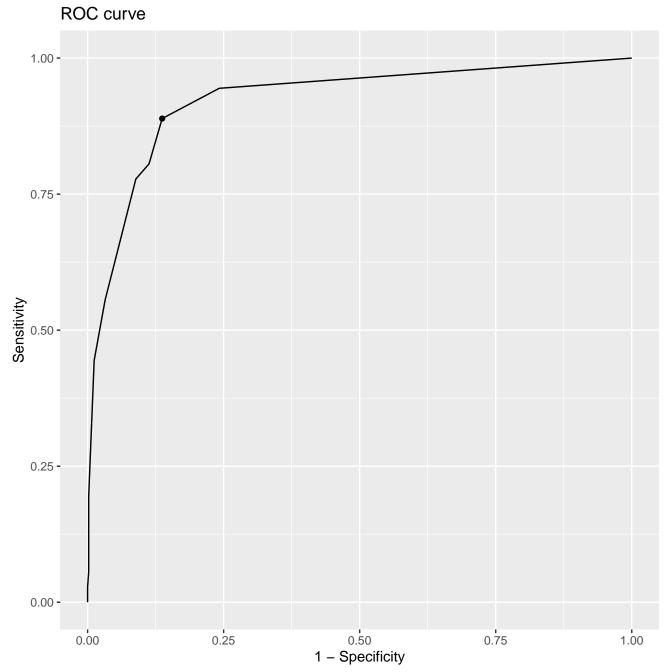




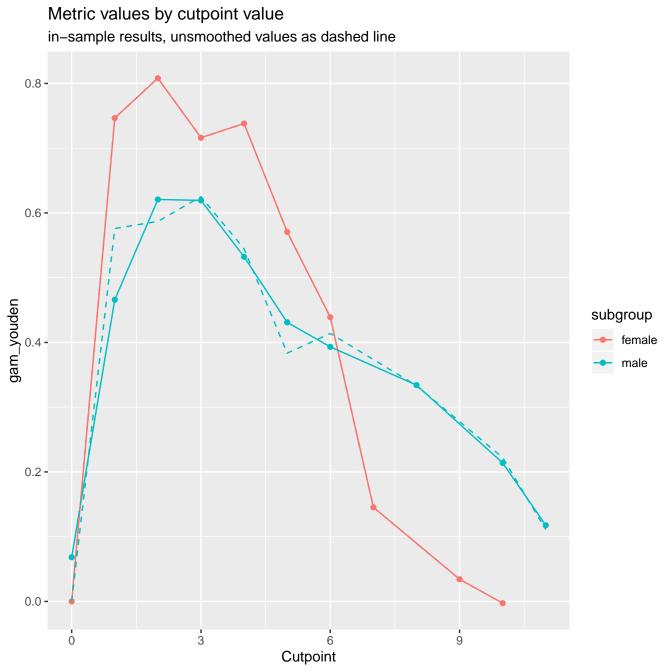


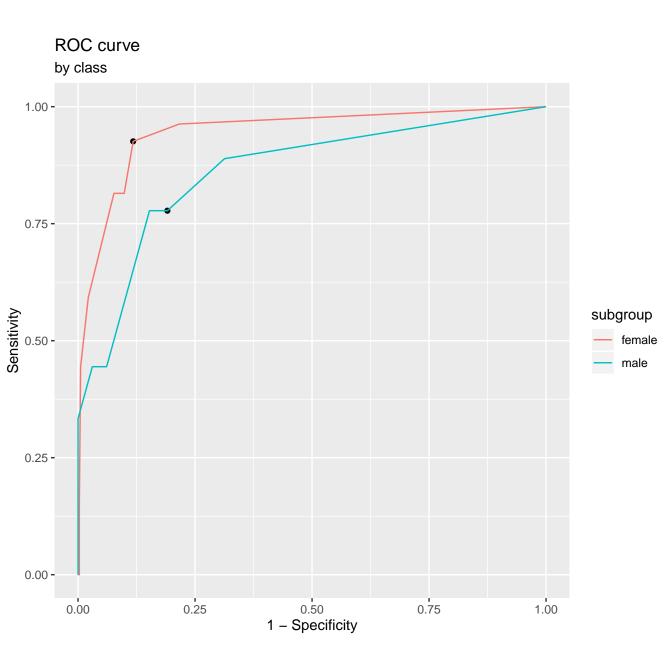


Metric values by cutpoint value in-sample results, unsmoothed values as dashed line 0.6 gam_youden 0.2 -0.0 -3 0 9 Cutpoint

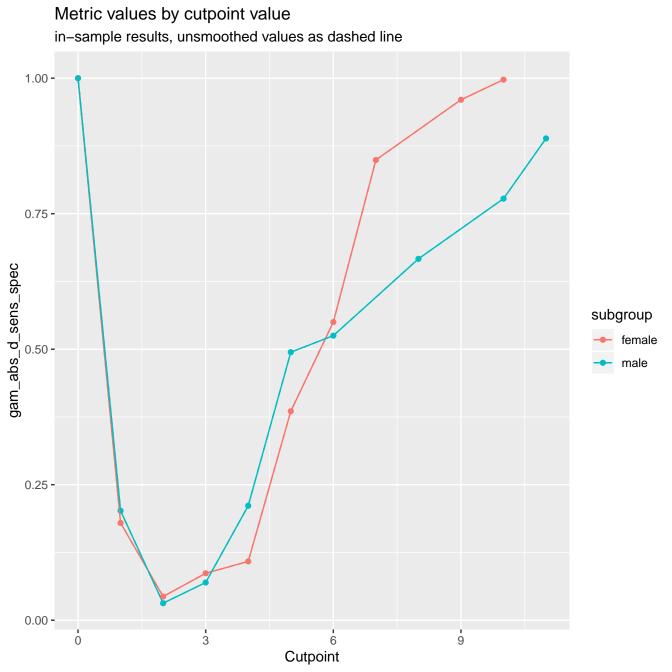


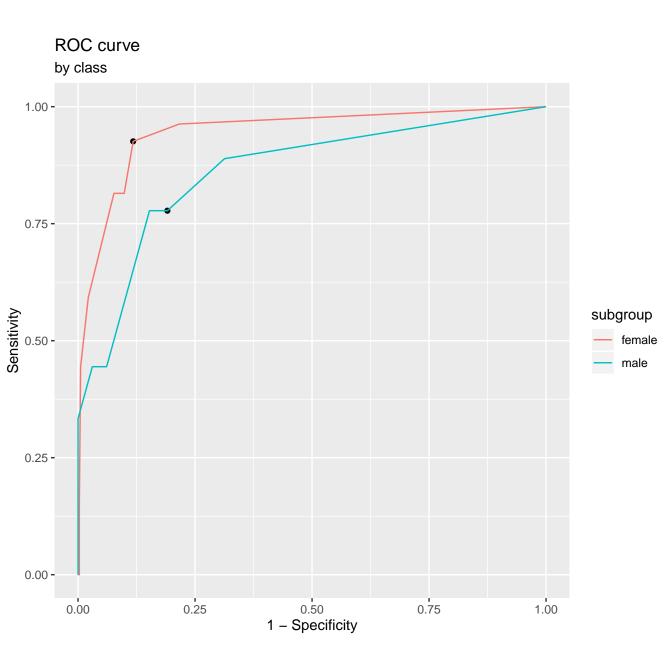
Independent variable optimal cutpoint and distribution by class no yes 300 -8 -**ROC** curve by class 1.00 -6 -200 -0.75 **-**Sensitivity - 0.50 count 4 -0.25 -100 -0.00 -2 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0 -3 6 12 9 9 0 Ö 12 3 6 value Subgroup female male

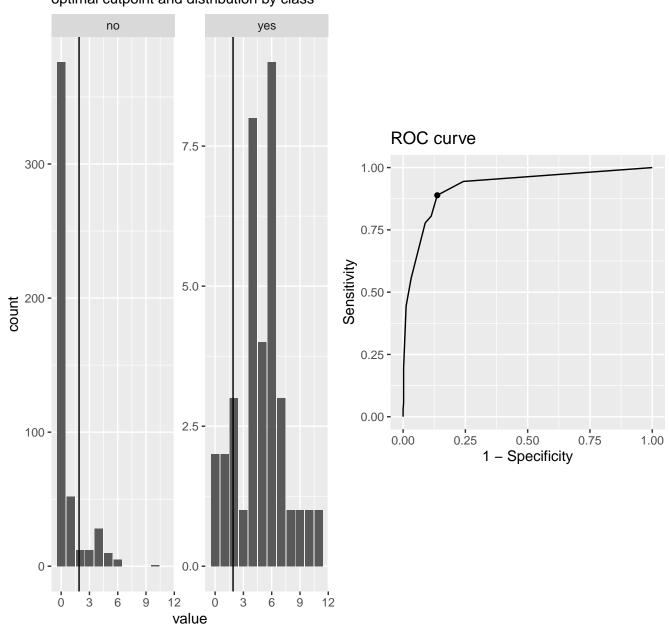


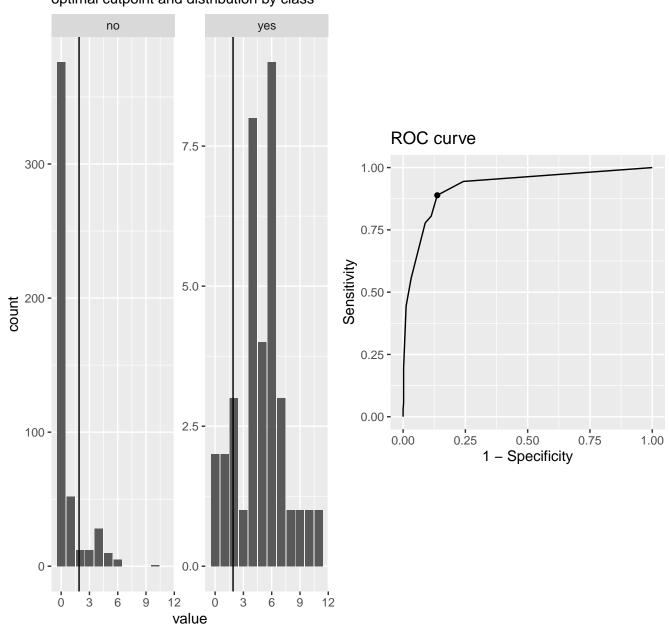


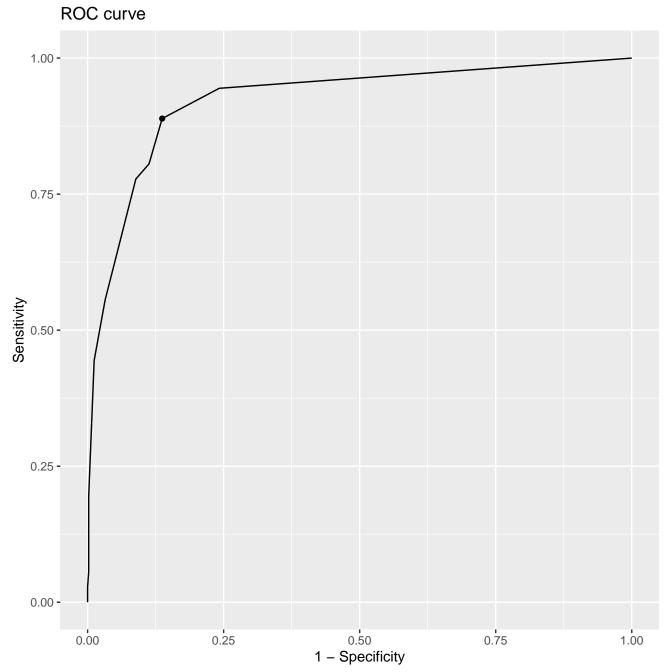
Independent variable optimal cutpoint and distribution by class no yes 300 -8 -**ROC** curve by class 1.00 -6 -200 -0.75 **-**Sensitivity - 0.50 count 4 -0.25 -100 -0.00 -2 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0 -3 6 12 9 9 0 Ö 12 3 6 value Subgroup female male



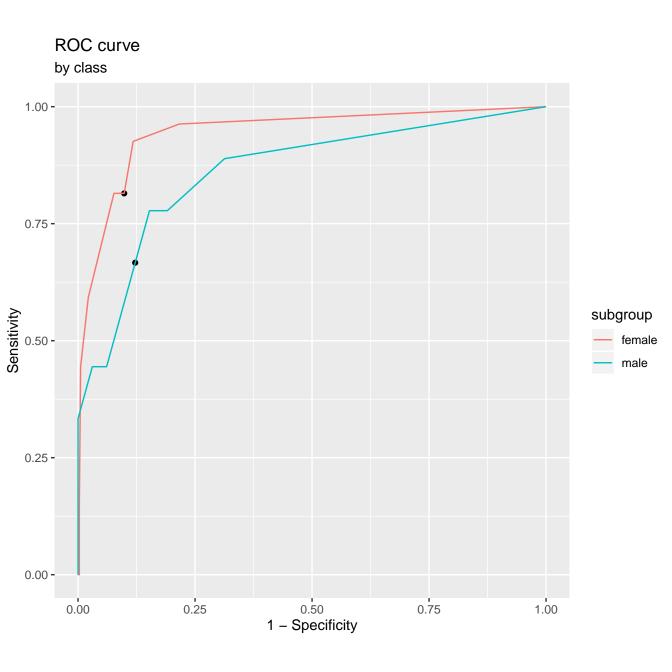




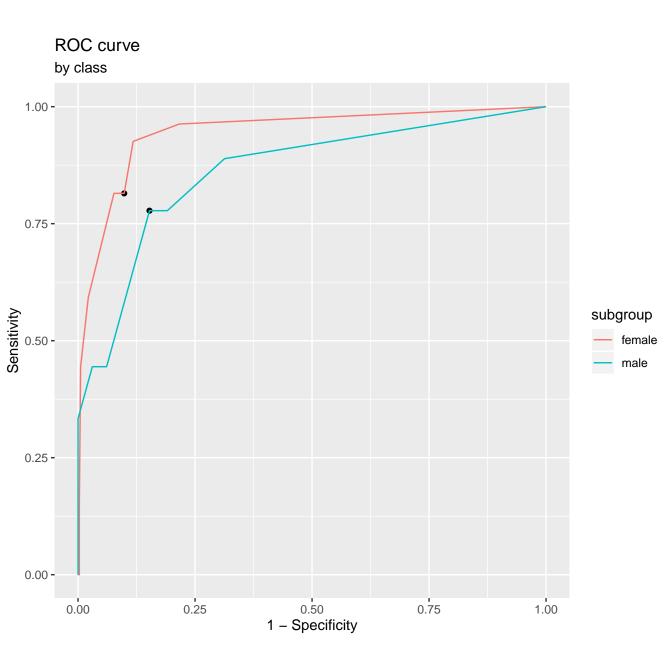


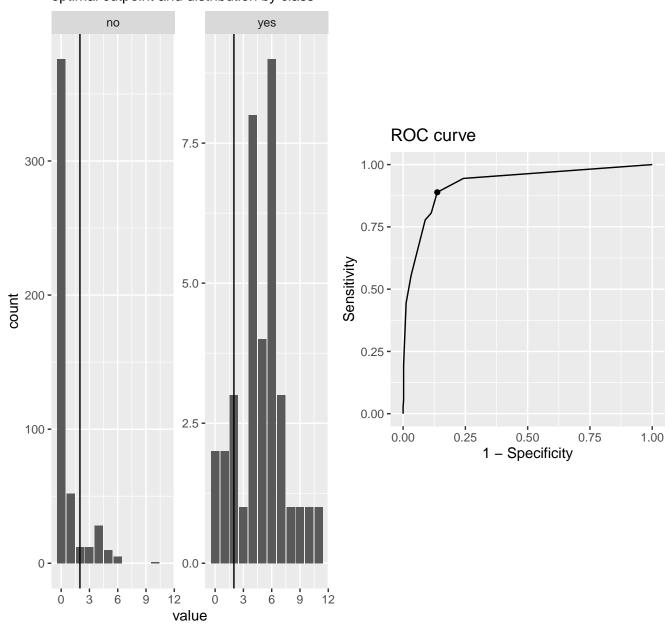


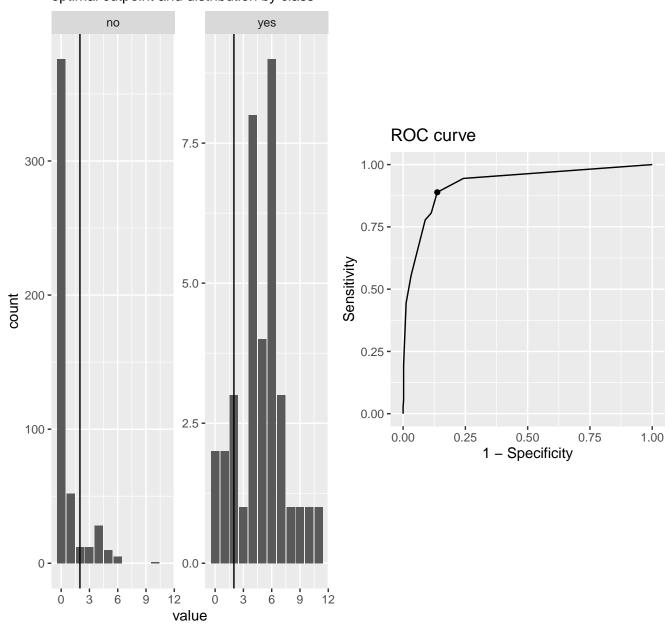
Independent variable optimal cutpoint and distribution by class no yes 300 -8 -**ROC** curve by class 1.00 -6 -200 -0.75 **-**Sensitivity - 0.50 count 4 -0.25 -100 -0.00 -2 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0 -6 12 9 9 3 Ö 12 Ö 3 6 value Subgroup female male

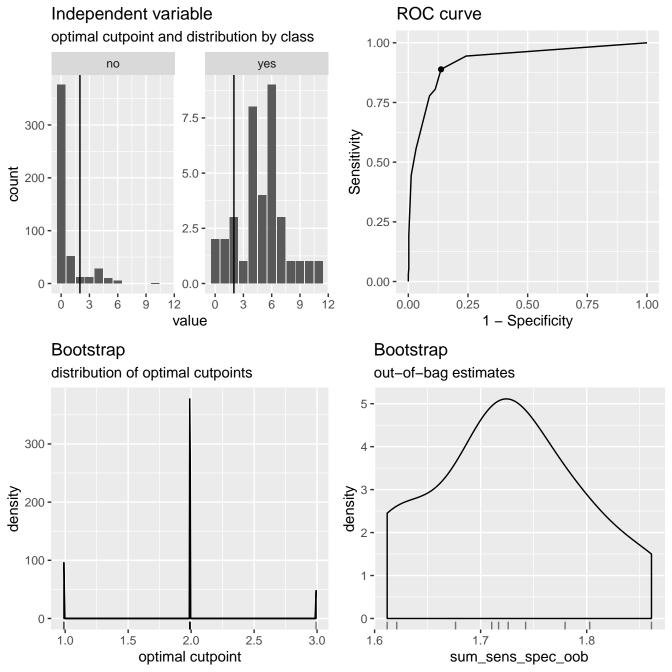


Independent variable optimal cutpoint and distribution by class no yes 300 -8 -**ROC** curve by class 1.00 -6 -200 -0.75 **-**Sensitivity - 0.50 count 4 -0.25 -100 -0.00 -2 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0 -3 6 12 9 9 0 Ö 12 3 6 value Subgroup female male









Independent variable optimal cutpoint and distribution by class no yes 300 -8 -**ROC** curve by class 1.00 -6 -200 -0.75 **-**Sensitivity - 0.50 count 4 -0.25 -100 -0.00 -2 -0.25 0.75 1.00 0.00 0.50 1 - Specificity 0 -6 12 9 9 Ö 12 Ö 3 6 3 value Subgroup female male

