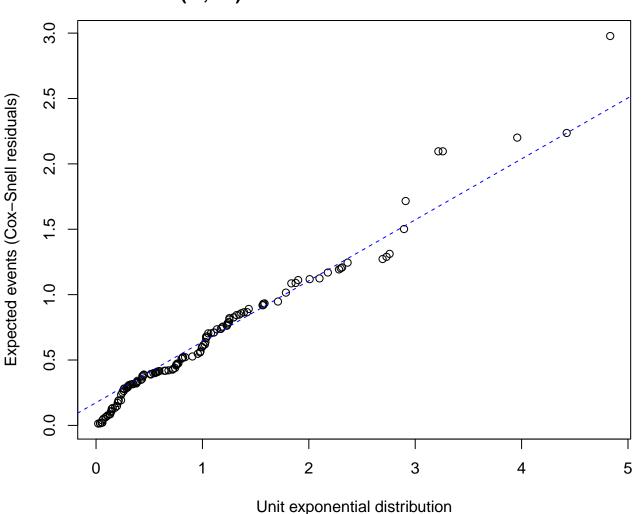
Quantile-quantile plot.

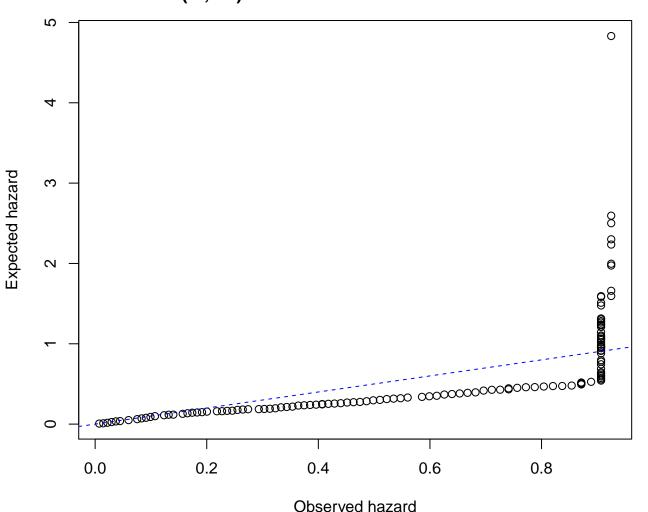
Unit exponential distribution vs. expected events (Cox-Snell residuals). Should follow line through origin at 45 degrees (blue) if well fit.

Complete model: Surv(t2, d3) \sim z1 + z2 + z3 + z4 + z5 + z6 + z7 + z8

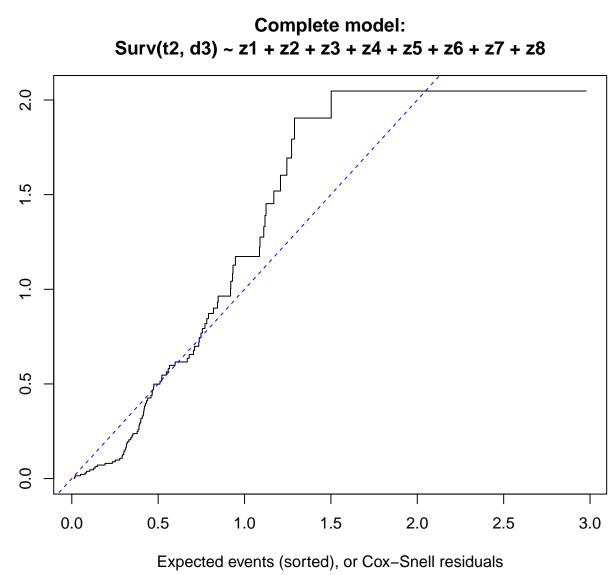


Observed vs. expected hazard. Should follow line through origin at 45 degrees (blue) if well fit.

Complete model: Surv(t2, d3) \sim z1 + z2 + z3 + z4 + z5 + z6 + z7 + z8



Expected events vs. hazard based on sorted expected events or Cox–Snell residuals vs. cumulative hazard of these residuals. Should follow line through origin at 45 degrees (blue) if well fit.

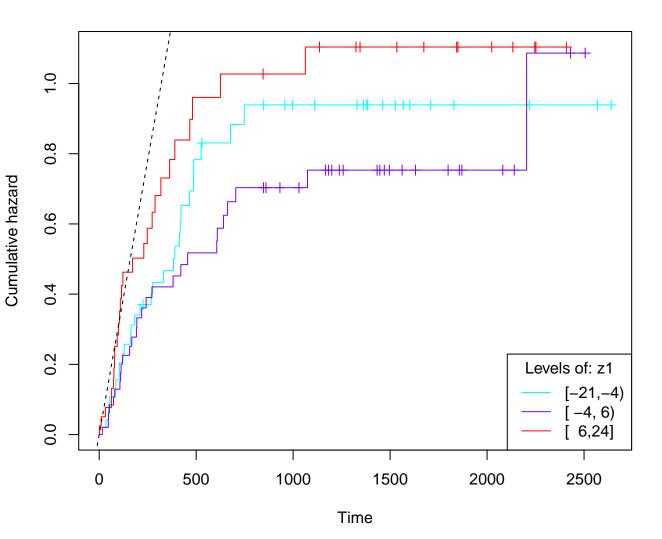


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

Predictor: z1

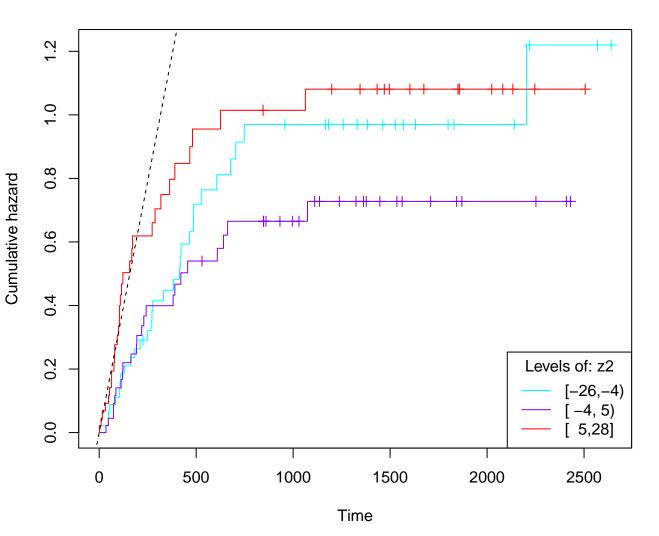


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

Predictor: z2

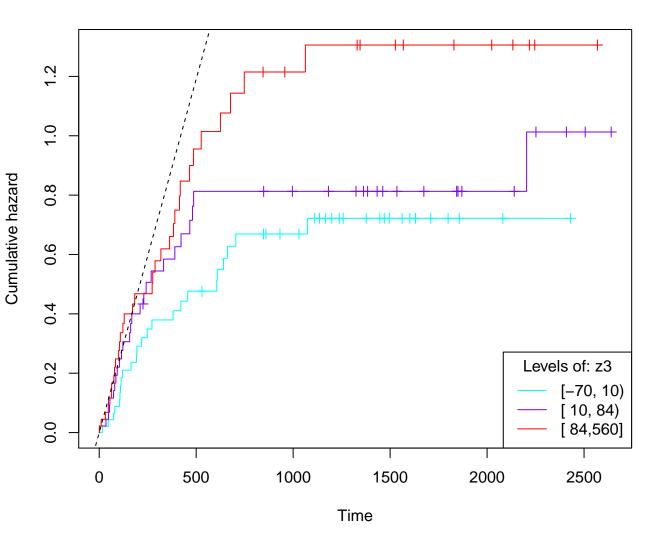


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

Predictor: z3

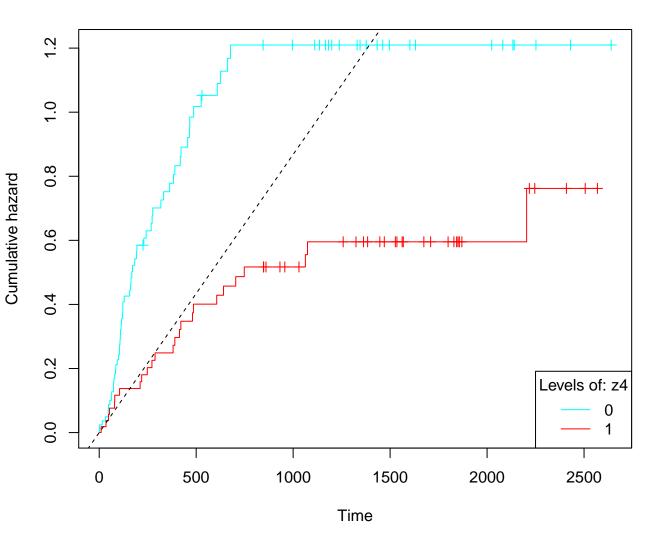


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

Predictor: z4

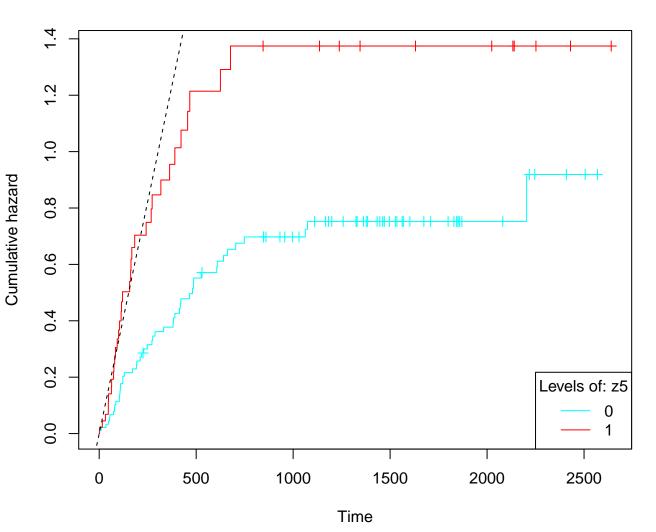


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.



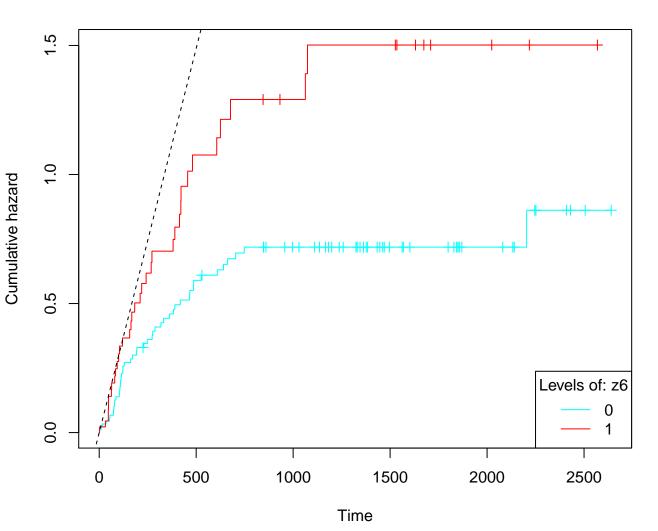


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

Predictor: z6

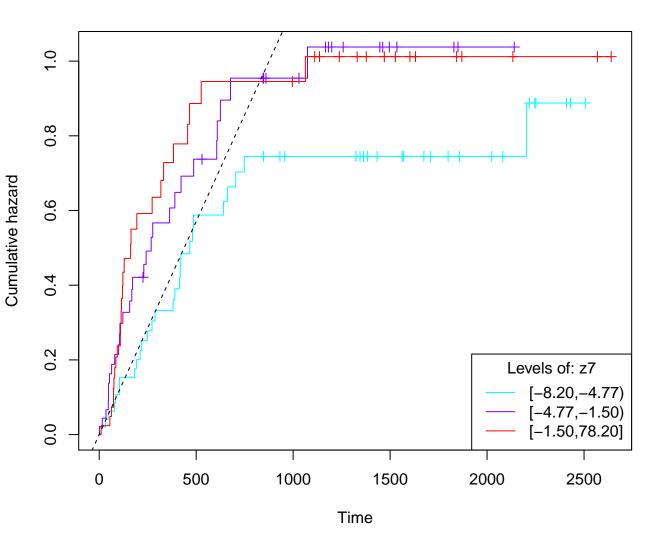


Time vs. hazard, per predictor.

If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

Predictor: z7

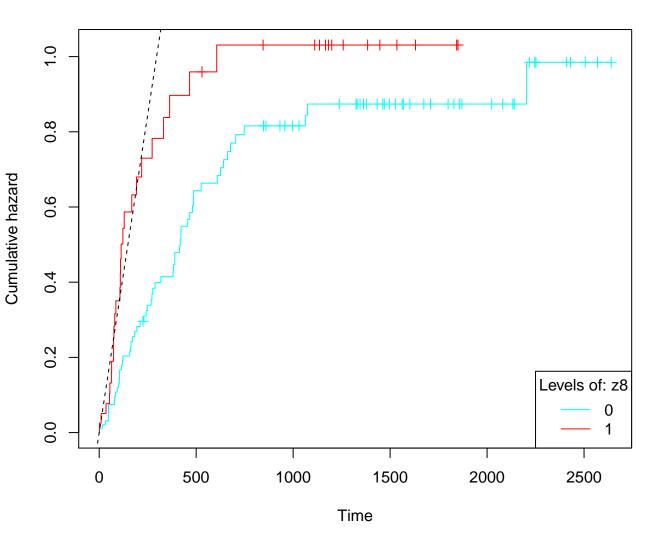


Time vs. hazard, per predictor.

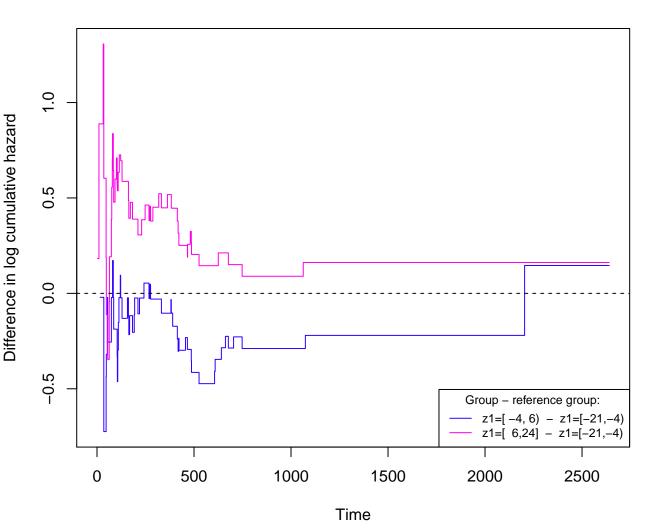
If hazards proportional then curves should be constant multiples of a baseline.

Reference (black) line is 45 degrees.

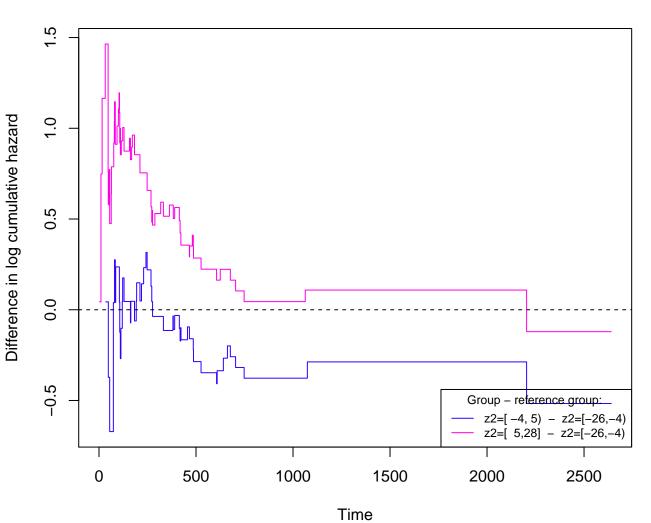
Predictor: z8



Reference: z1 = [-21, -4)

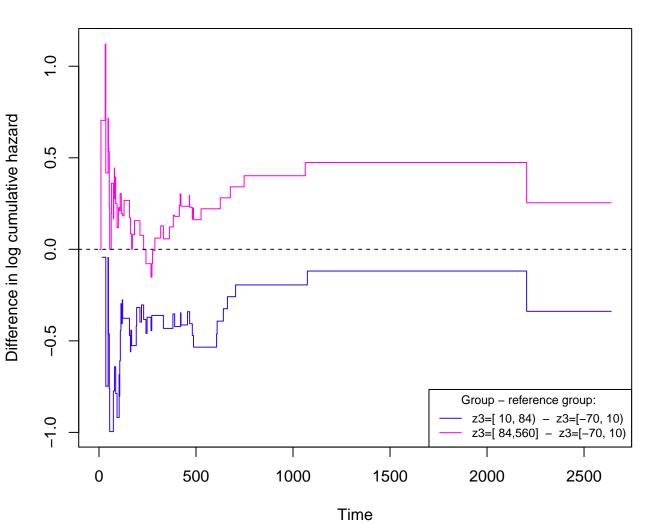


Reference: z2 = [-26, -4)

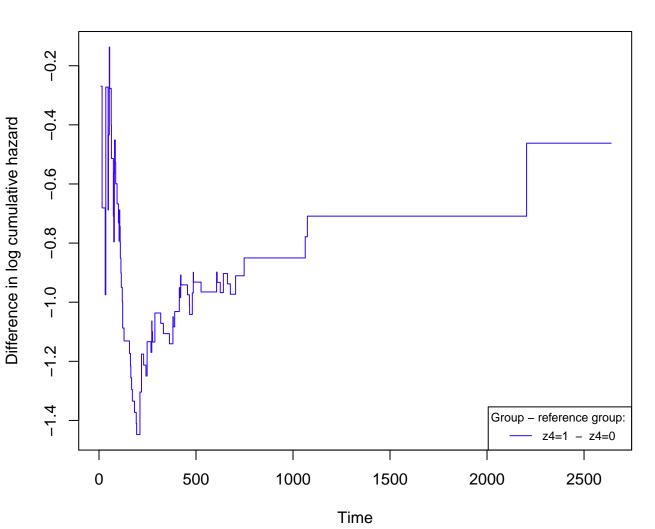


Time vs. difference in log hazards, per predictor.
Should be constant over time.
If >0 (black line) shows survival advantage for reference group.

Reference: z3 = [-70, 10)

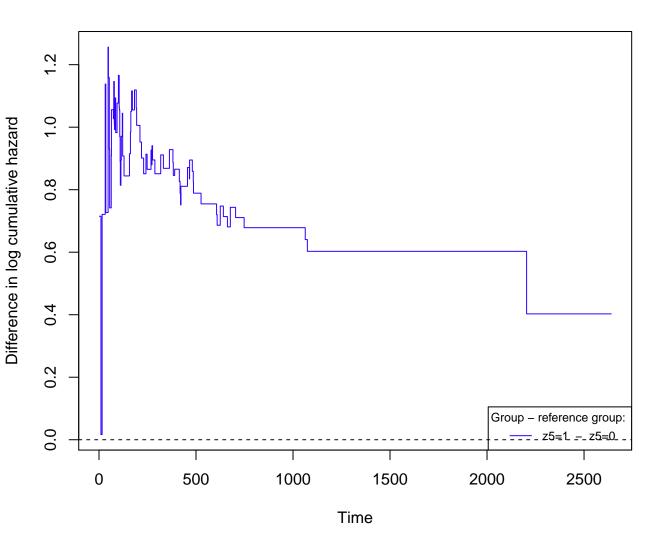


Reference: z4 = 0

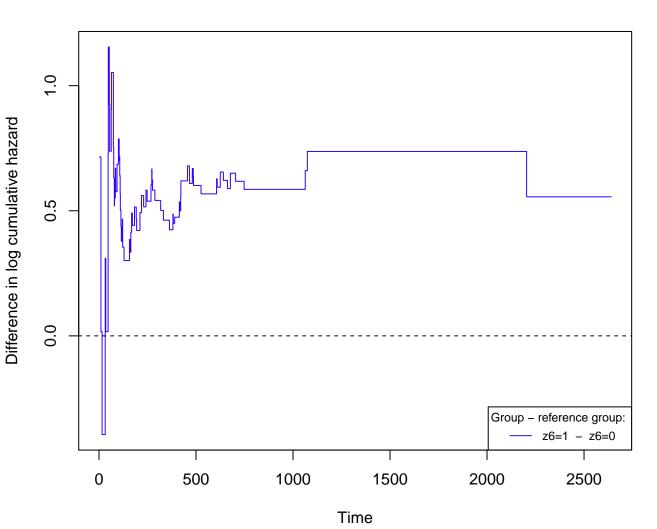


Time vs. difference in log hazards, per predictor.
Should be constant over time.
If >0 (black line) shows survival advantage for reference group.

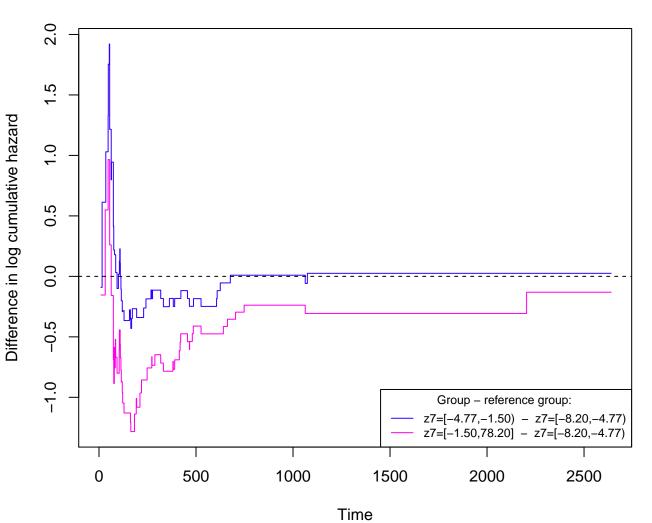
Reference: z5 = 0



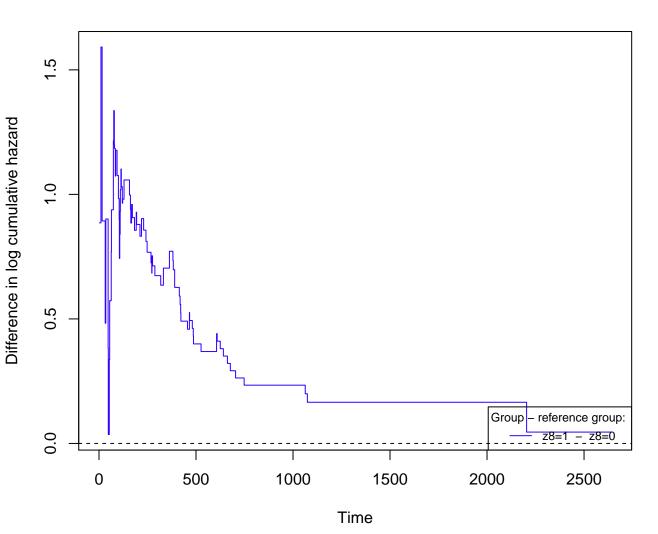
Reference: z6 = 0



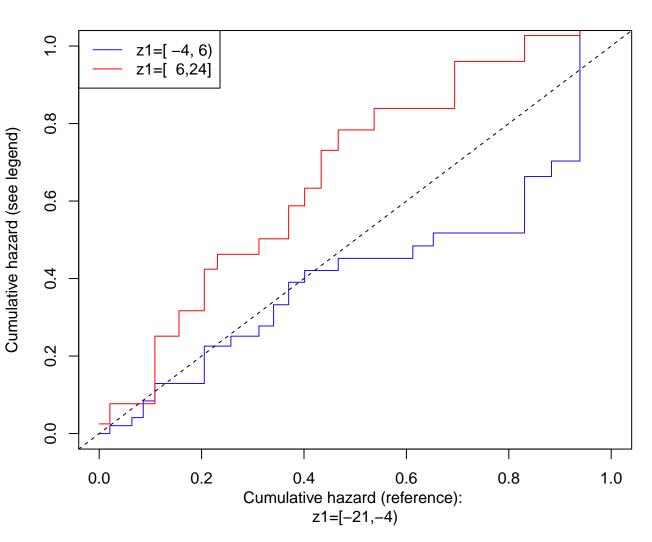
Reference: z7 = [-8.20, -4.77)



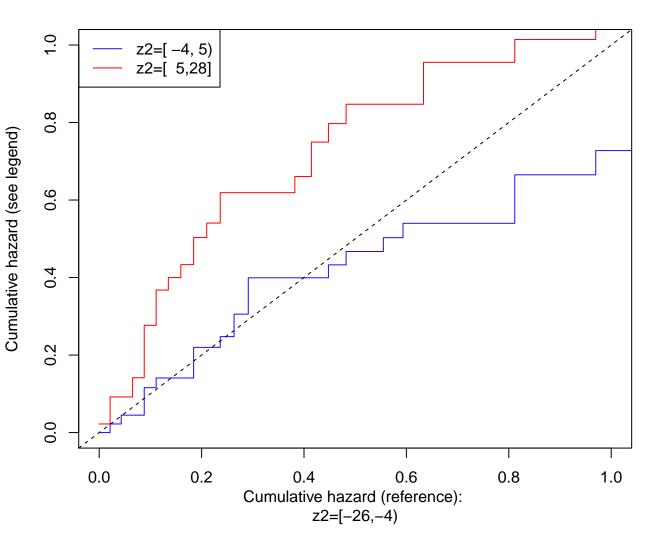
Reference: z8 = 0



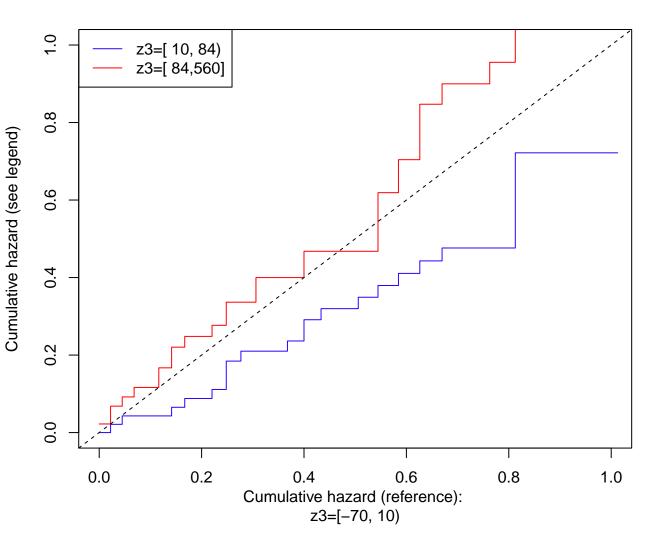
Predictor: z1



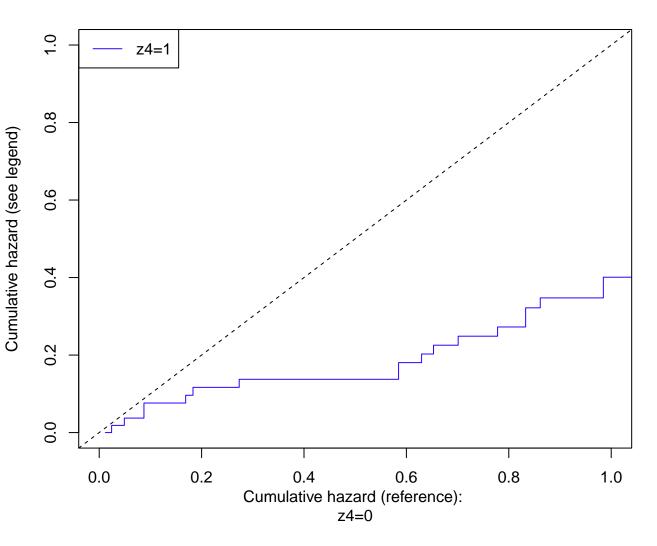




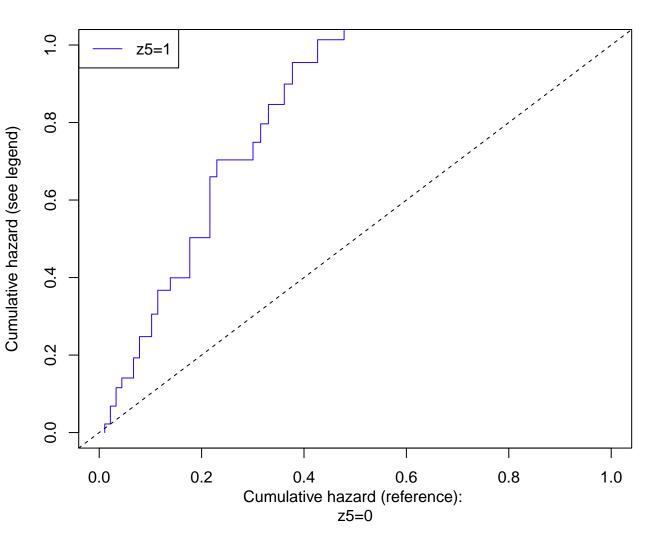
Predictor: z3



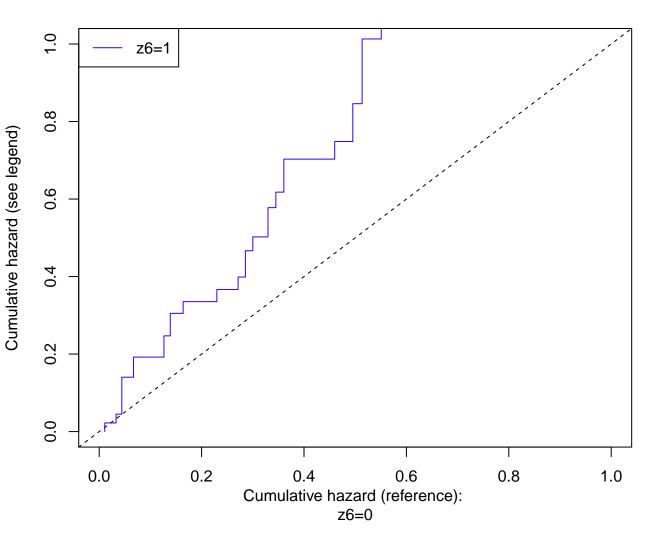
Predictor: z4



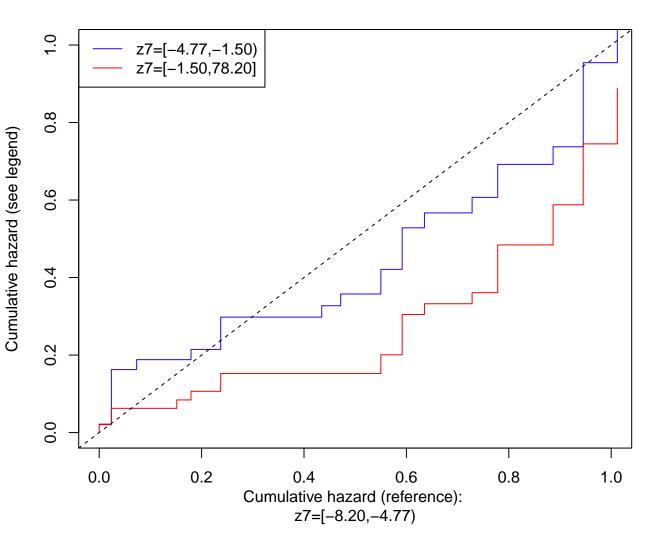




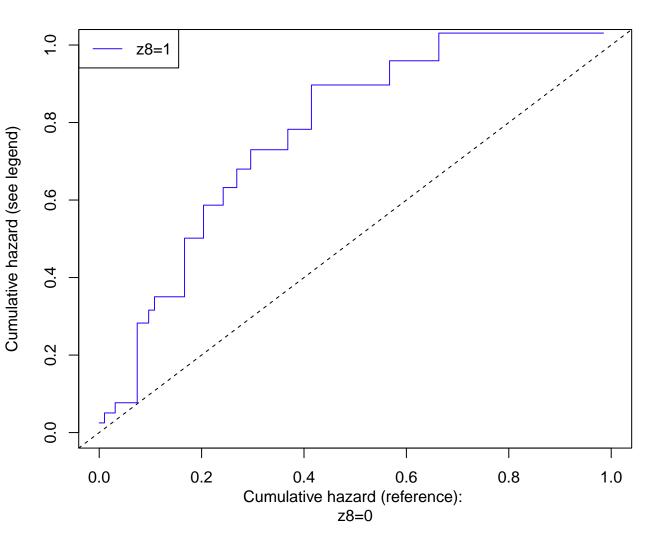




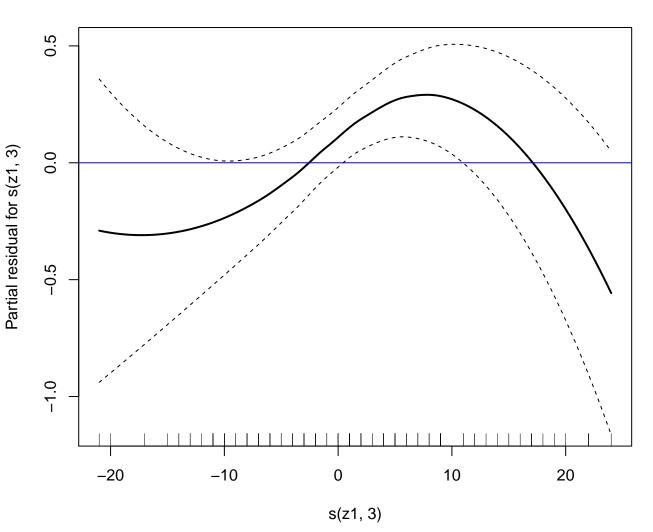
Predictor: z7



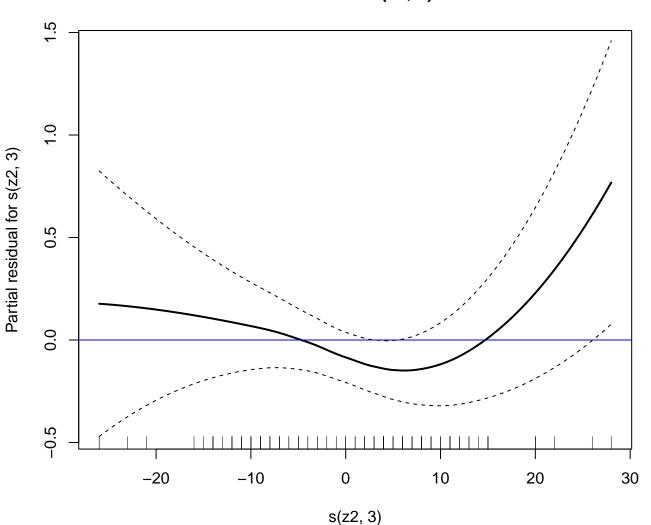




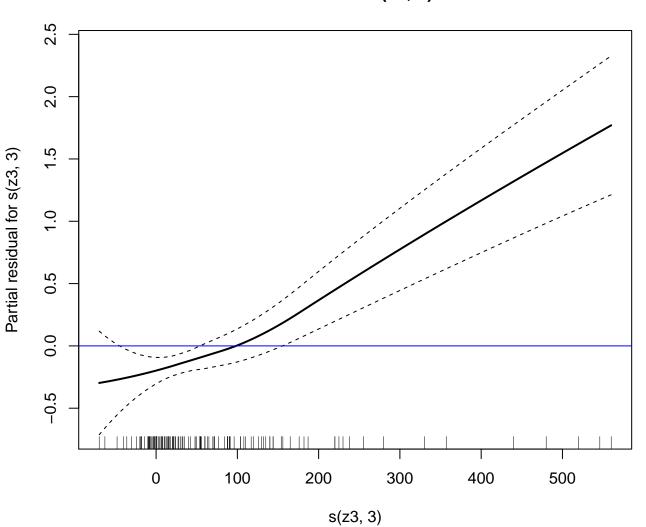
Predictor: s(z1, 3)



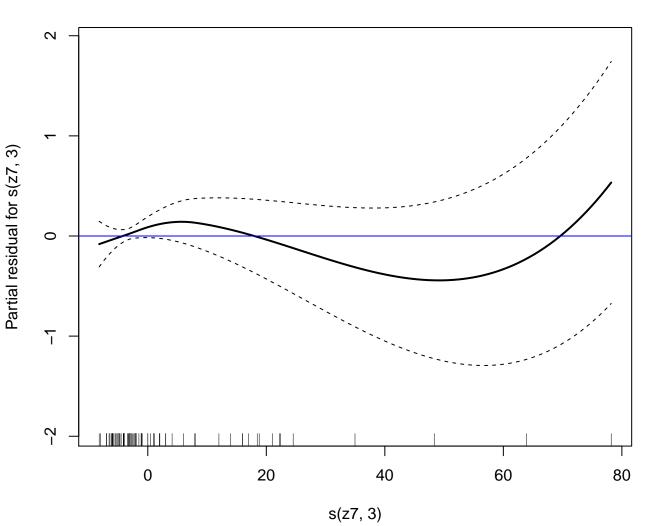
Predictor: s(z2, 3)



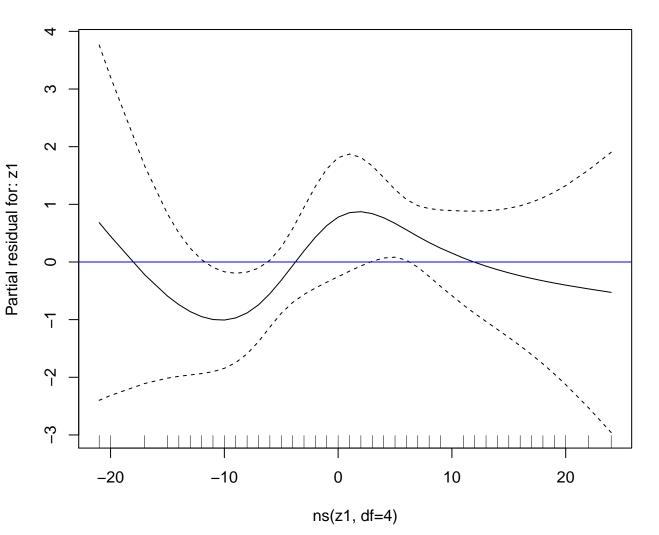
Predictor: s(z3, 3)



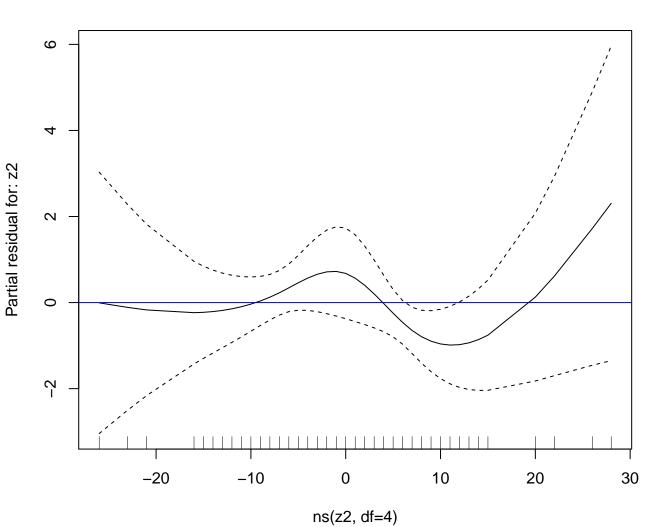
Predictor: s(z7, 3)



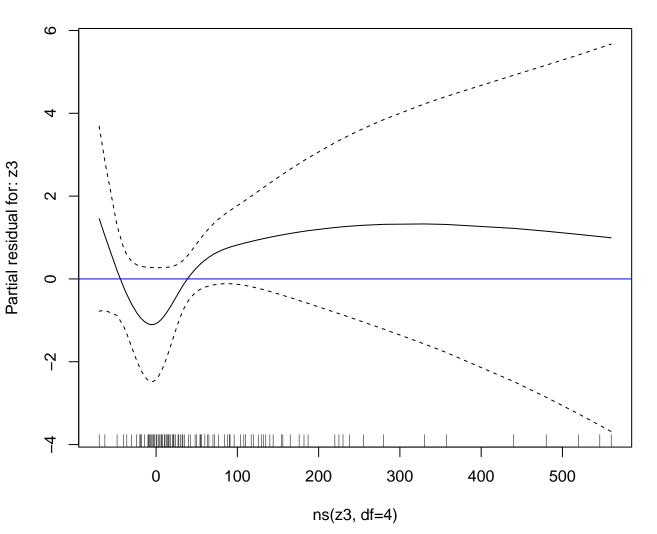
Predictor: z1 with 4 df



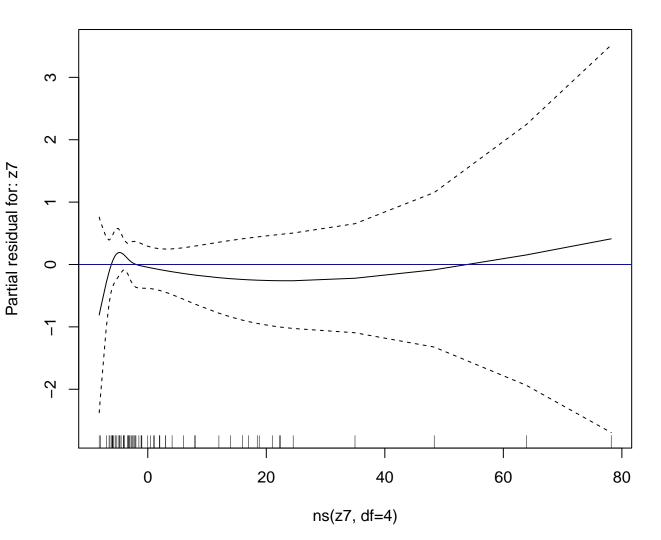
Predictor: z2 with 4 df



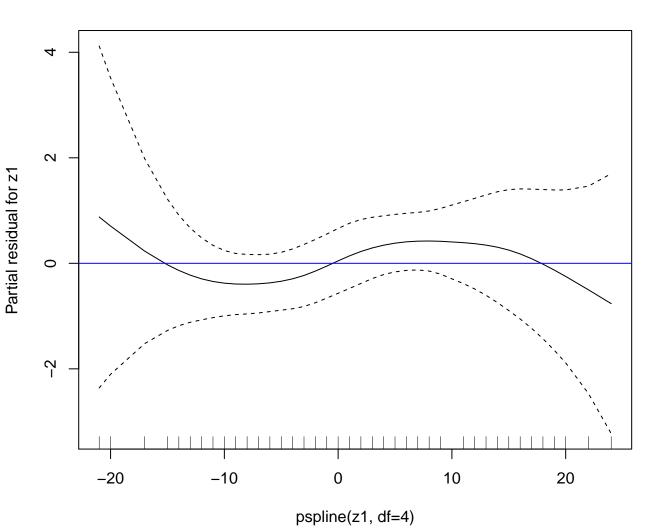
Predictor: z3 with 4 df



Predictor: z7 with 4 df



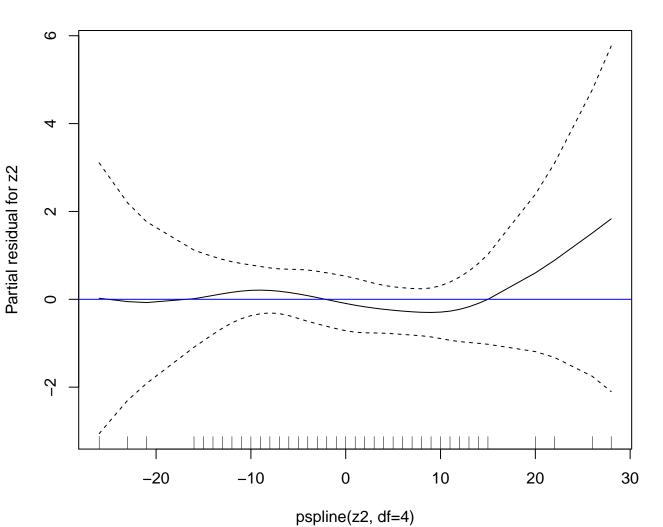
Predictor: z1 with 4 df



Smoothing splines approach to determine non–linearity. Variable vs. partial residual for smoothed variable.

If linear should be horizontal line with intercept=0 (blue)

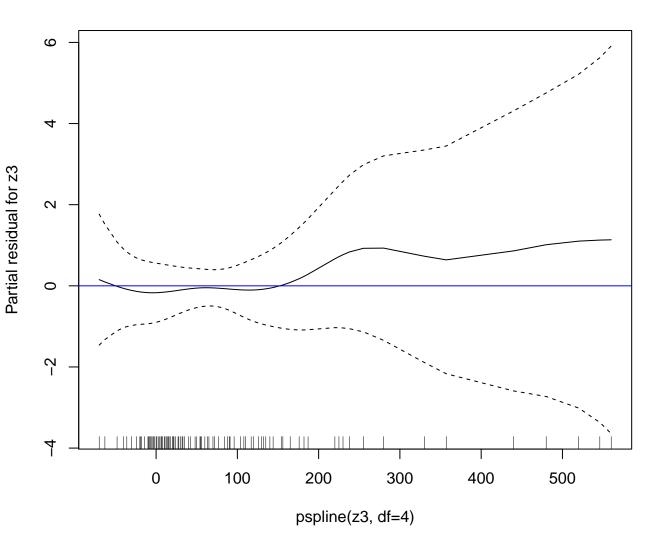
Predictor: z2 with 4 df



Smoothing splines approach to determine non–linearity. Variable vs. partial residual for smoothed variable.

If linear should be horizontal line with intercept=0 (blue)

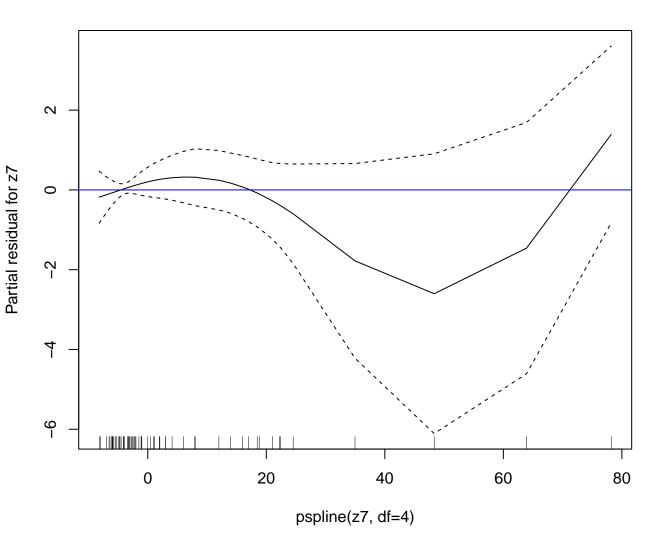
Predictor: z3 with 4 df



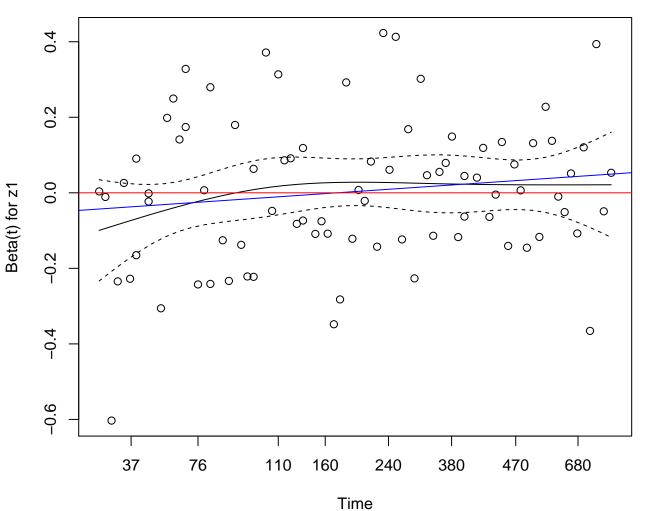
Smoothing splines approach to determine non–linearity. Variable vs. partial residual for smoothed variable.

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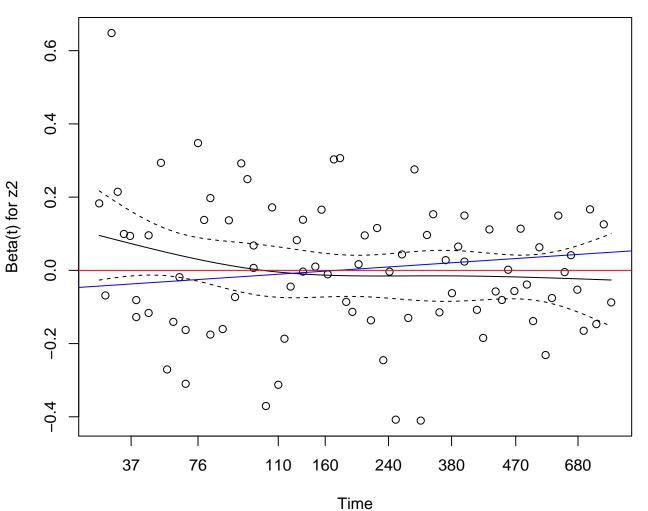
Predictor: z7 with 4 df



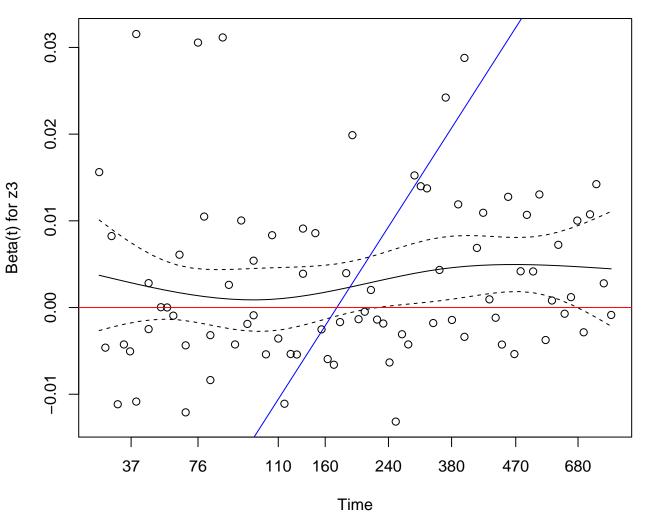
Predictor: z1
Time transform: km



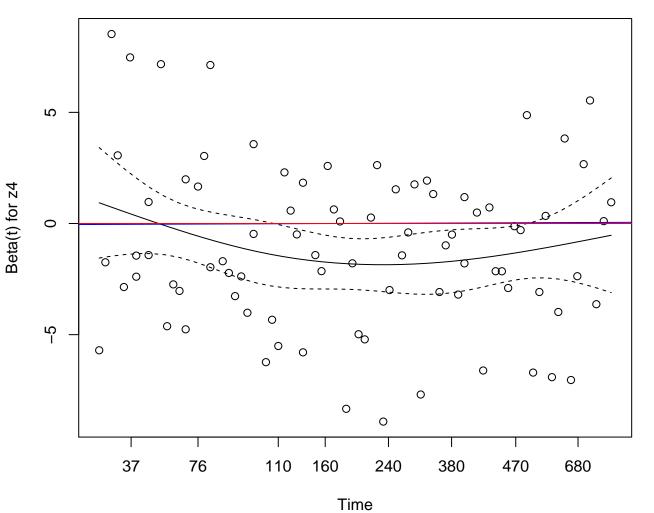
Predictor: z2
Time transform: km



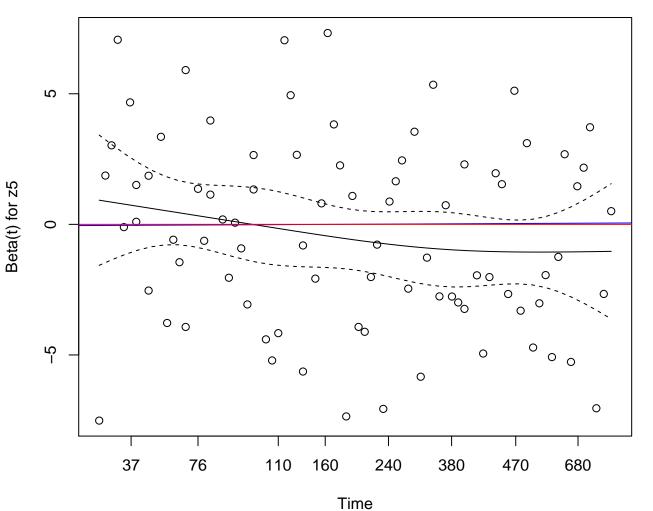
Predictor: z3
Time transform: km



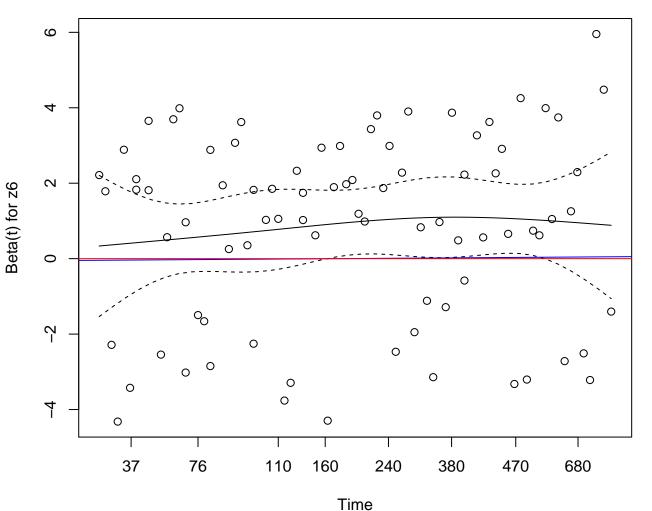
Predictor: z4
Time transform: km



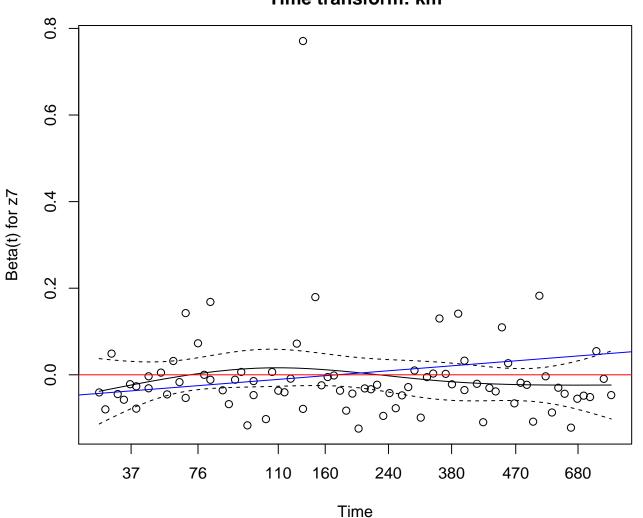
Predictor: z5
Time transform: km



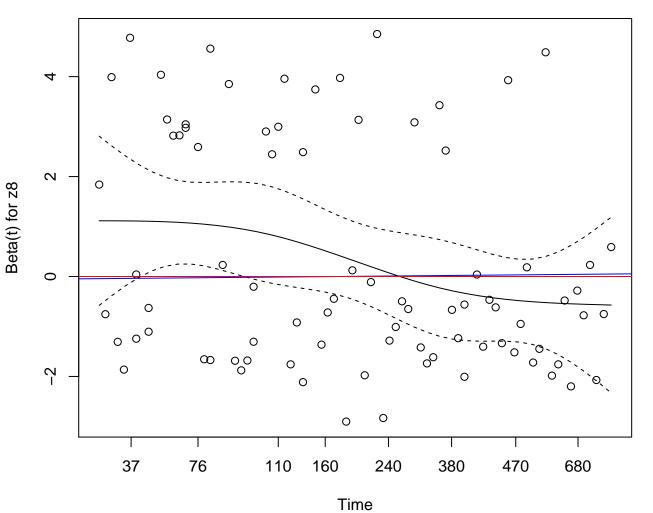
Predictor: z6
Time transform: km

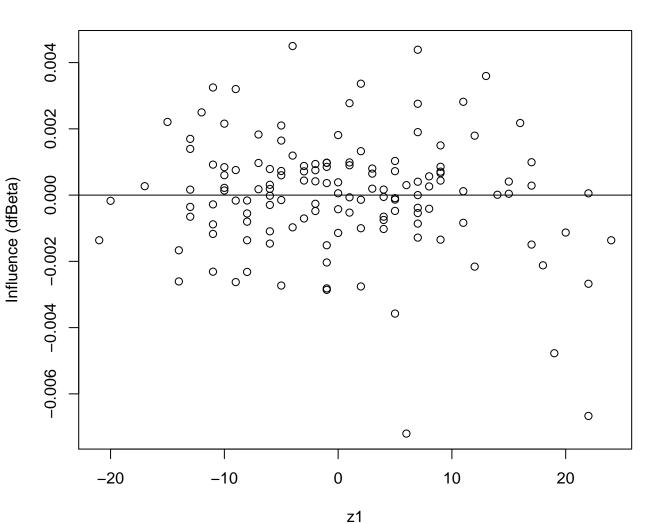


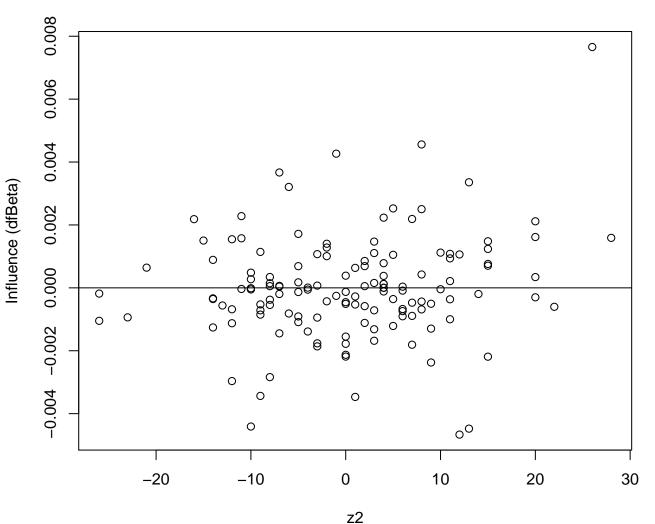
Predictor: z7
Time transform: km

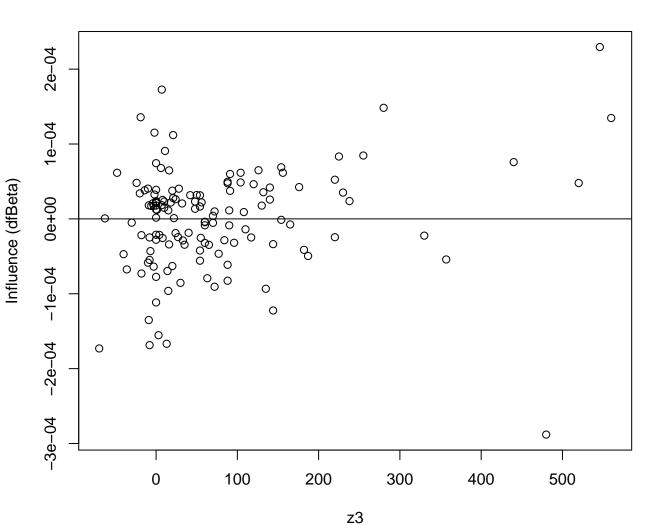


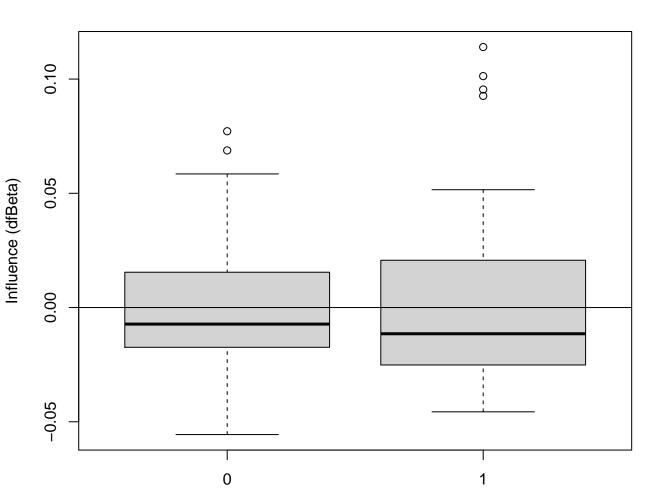
Predictor: z8
Time transform: km

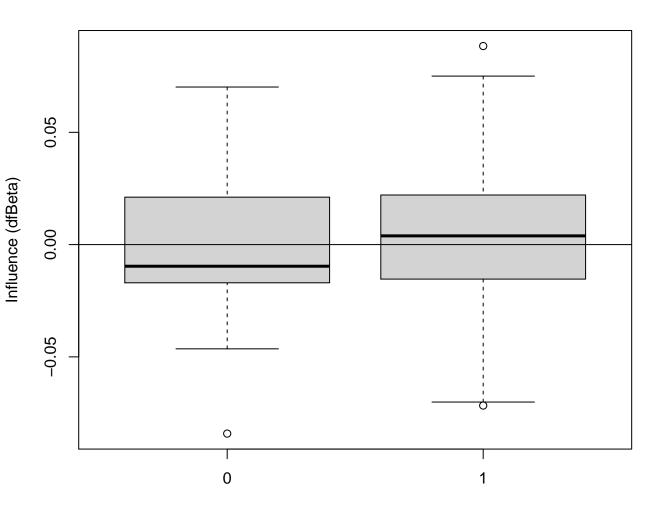


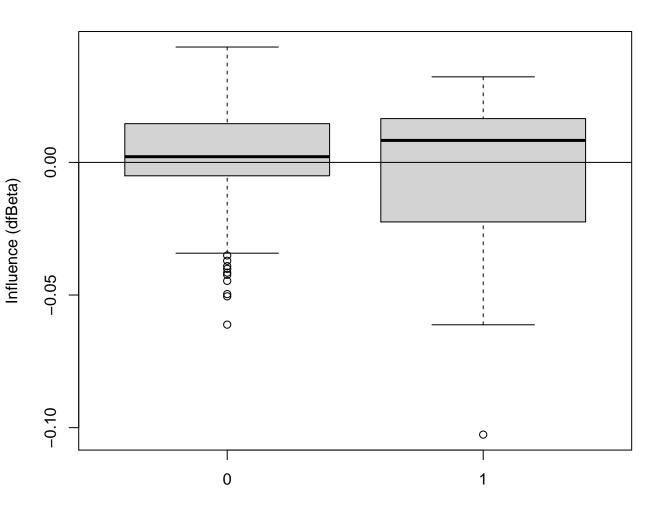


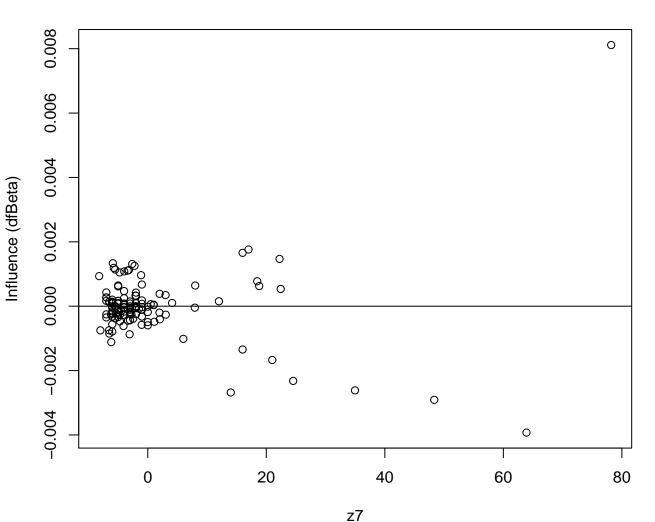


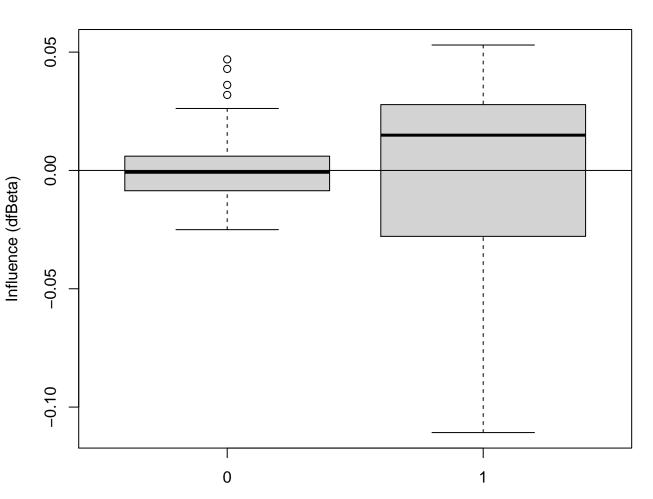


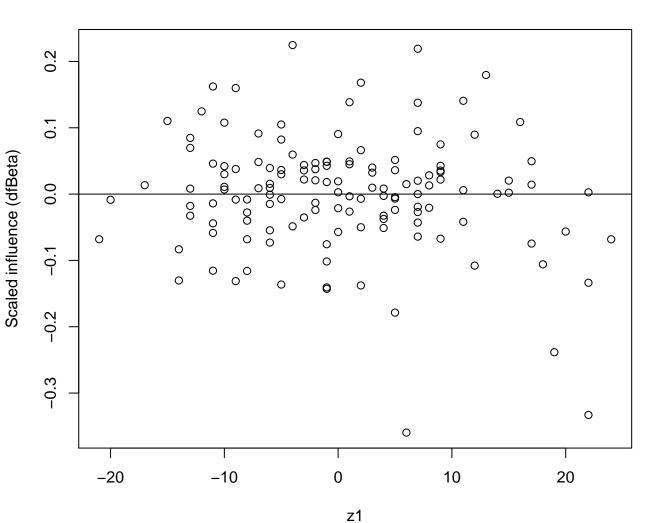


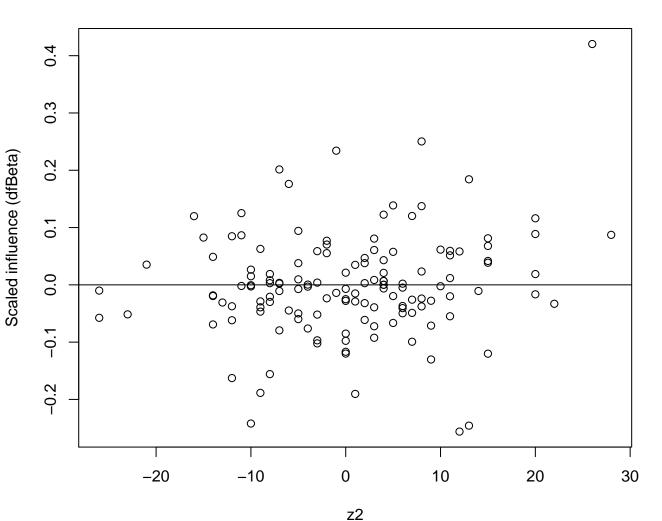


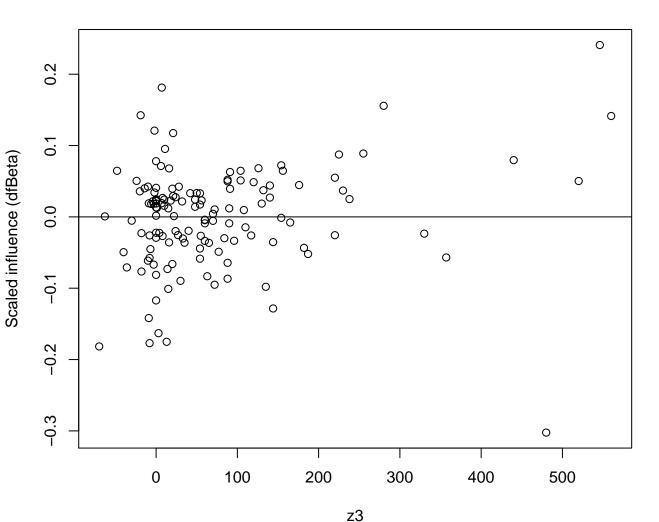


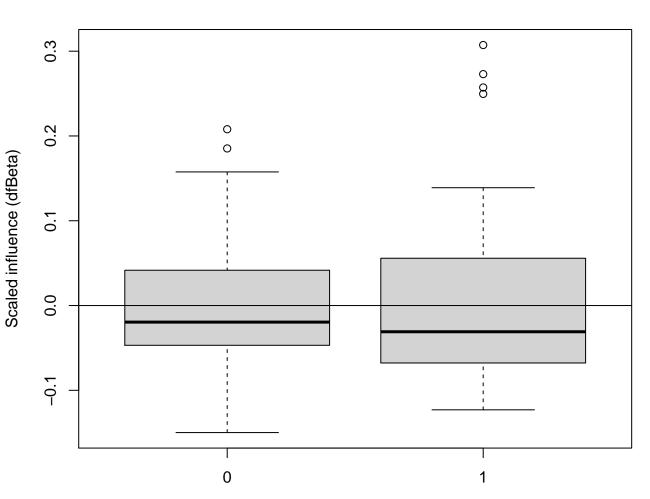


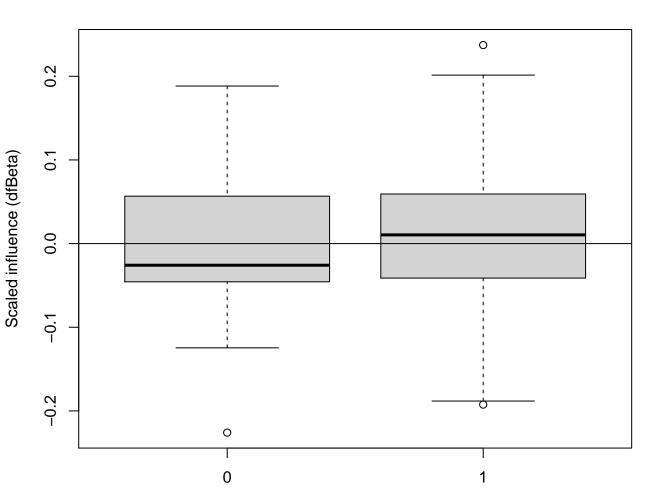


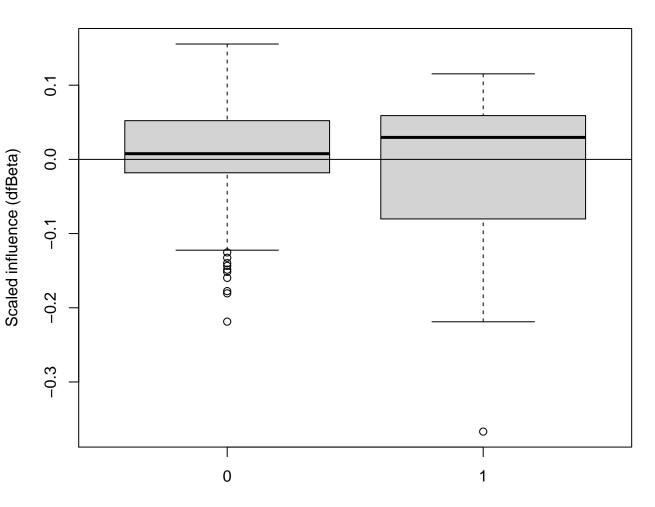


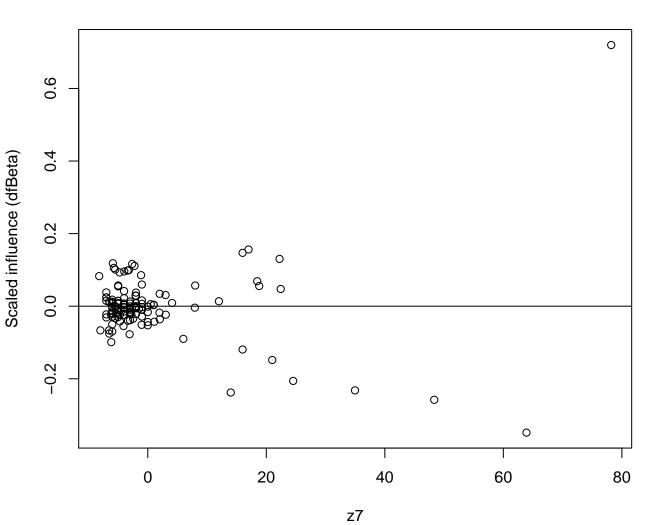


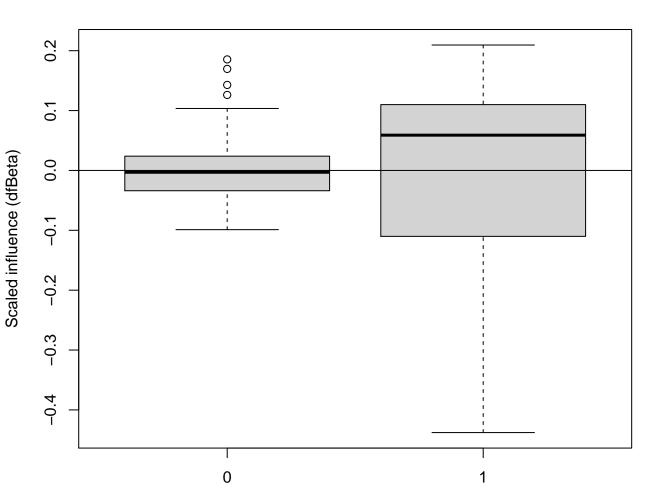


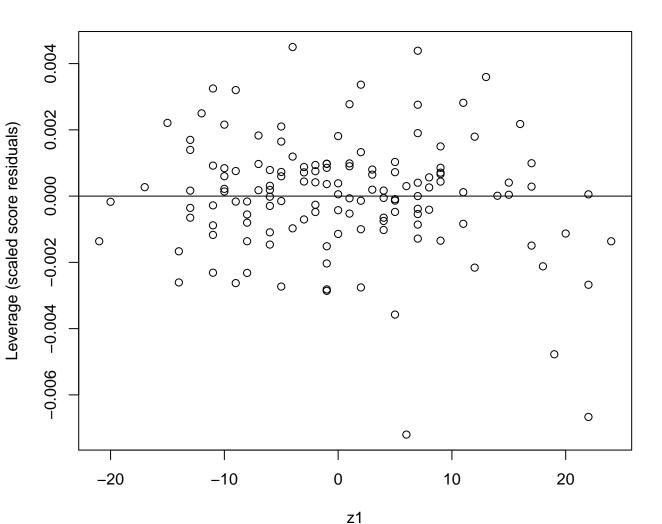












Coefficient vs. scaled score residuals.
Assesses leverage: influence of observation on a single coefficient.
Outliers may need to be re–examined

