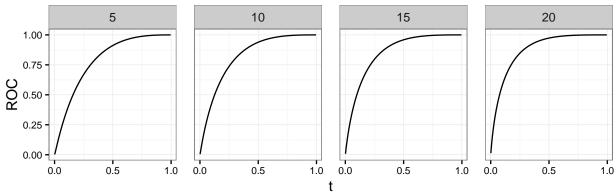
1 Adjusted CPAO Example

The data used in the following example is taken from the CPAO data set used by Alonzo (adj-cpao.csv). Repeated measures are not considered. Values are averaged across patients. Only age is considered as a covariate.

1.1 Parametric Method

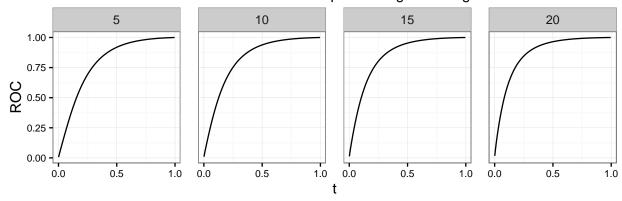
Parametric ROC for Specified Ages -- Probit



```
## 5yr 10yr 15yr 20yr
## 1 0.7853245 0.8172178 0.8458844 0.8713056
```

```
## Estimate Std. Error z value Pr(>|z|)
## (Intercept) 1.155313 0.080344092 14.379559 6.953667e-47
## phiInv 1.348564 0.028352566 47.564103 0.000000e+00
## age 0.038935 0.008200448 4.747912 2.055276e-06
```

Parametric ROC for Specified Ages -- Logit

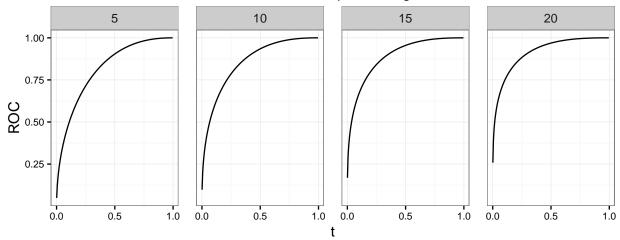


```
## 5yr 10yr 15yr 20yr
## 1 0.7899617 0.8170366 0.8416895 0.8639171
```

```
## (Intercept) 2.13033666 0.14478253 14.714045 5.238041e-49
## phiInv 2.38532852 0.05384322 44.301371 0.000000e+00
## age 0.05906639 0.01463710 4.035389 5.451194e-05
```

1.2 Beta Method

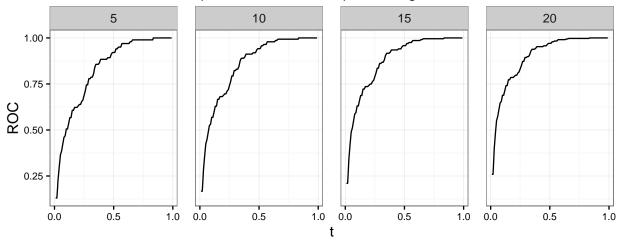
Beta ROC for Specified Ages



```
## 5yr 10yr 15yr 20yr
## 1 0.8118151 0.8516329 0.883999 0.9098116
```

1.3 Semiparametric

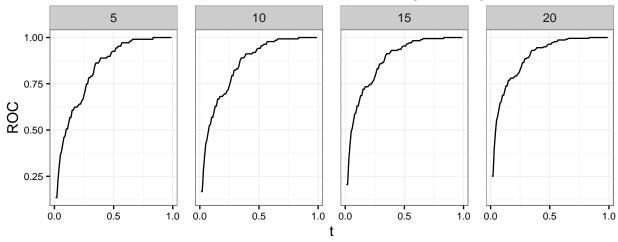
Semiparametric ROC for Specified Ages -- Probit



5yr 10yr 15yr 20yr ## 1 0.8142705 0.8395715 0.8624241 0.8828051

Estimate Std. Error z value Pr(>|z|)
ageDiff 0.03183259 0.00406959 7.822064 5.196422e-15

Semiparametric ROC for Specified Ages -- Logit



5yr 10yr 15yr 20yr ## 1 0.8163528 0.8393022 0.8602187 0.8790368

Estimate Std. Error z value Pr(>|z|)
ageDiff 0.05091919 0.006526243 7.80222 6.08273e-15