##### HRS vs AKI

NGAL,FeNa,Urine.Na

Area under the curve: 0.9485

> auc(b)

Area under the curve: 0.9318

> auc(c)

Area under the curve: 0.8864

# NGAL

CRITERION: Youden

Number of optimal cutoffs: 1

Estimate

cutoff 1104.0000000

Se 0.8000000

Sp 1.0000000

PPV 1.0000000

NPV 0.9428571

DLR.Positive Inf

DLR.Negative 0.2000000

FP 0.0000000

FN 2.0000000

Optimal criterion 0.8000000

# Fena

Estimate

cutoff 1.8800000

Se 0.9000000

Sp 0.9393939

PPV 0.8181818

NPV 0.9687500

DLR.Positive 14.8500000

DLR.Negative 0.1064516

FP 2.0000000

FN 1.0000000

Optimal criterion 0.8393939

# Urine.na

CRITERION: Youden

Number of optimal cutoffs: 1

Estimate

cutoff 85.0000000

Se 0.9000000

Sp 0.8484848

PPV 0.6428571

NPV 0.9655172

DLR.Positive 5.9400000

DLR.Negative 0.1178571

FP 5.0000000

FN 1.0000000

Optimal criterion 0.7484848

> roc.test(a,b)

DeLong's test for two correlated ROC curves

data: a and b

Z = 0.42981, p-value = 0.6673

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of roc1 AUC of roc2

0.9484848 0.9318182

> roc.test(b,c)

DeLong's test for two correlated ROC curves

data: b and c

Z = 0.78129, p-value = 0.4346

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of roc1 AUC of roc2

0.9318182 0.8863636

> roc.test(a,c)

DeLong's test for two correlated ROC curves

data: a and c

Z = 0.91827, p-value = 0.3585

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of roc1 AUC of roc2

0.9484848 0.8863636

#### HRS vs Prerenal

> auc(a)

Area under the curve: 0.9455

> auc(b)

Area under the curve: 0.8144

> auc(c)

Area under the curve: 0.7756

NGAL in HRS vs Prerenal

CRITERION: Youden

Number of optimal cutoffs: 1

Estimate

cutoff 299.0000000

Se 0.8787879

Sp 0.9687500

PPV 0.9666667

NPV 0.8857143

DLR.Positive 28.1212121

DLR.Negative 0.1251222

FP 1.0000000

FN 4.0000000

Optimal criterion 0.8475379

#FeNa HRS vsPre-renal

Area under the ROC curve (AUC): 0.814 (0.702, 0.927)

CRITERION: Youden

Number of optimal cutoffs: 1

Estimate

cutoff 0.9700000

Se 0.8181818

Sp 0.7812500

PPV 0.7941176

NPV 0.8064516

DLR.Positive 3.7402597

DLR.Negative 0.2327273

FP 7.0000000

FN 6.0000000

Optimal criterion 0.5994318

# Urine.na HRS vs Prernal

Area under the ROC curve (AUC): 0.776 (0.662, 0.889)

CRITERION: Youden

Number of optimal cutoffs: 1

Estimate

cutoff 46.0000000

Se 0.7878788

Sp 0.6562500

PPV 0.7027027

NPV 0.7500000

DLR.Positive 2.2920110

DLR.Negative 0.3232323

FP 11.0000000

FN 7.0000000

Optimal criterion 0.4441288

roc.test(a,b)

DeLong's test for two correlated ROC curves

data: a and b

Z = -2.6178, p-value = 0.008849

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of roc1 AUC of roc2

0.9455492 0.8143939

> roc.test(b,c)

DeLong's test for two correlated ROC curves

data: b and c

Z = -0.56613, p-value = 0.5713

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of roc1 AUC of roc2

0.8143939 0.7755682

> roc.test(a,c)

DeLong's test for two correlated ROC curves

data: a and c

Z = -3.1781, p-value = 0.001482

alternative hypothesis: true difference in AUC is not equal to 0

sample estimates:

AUC of roc1 AUC of roc2

0.9455492 0.7755682