Ki67 Example

Yi

Funnel plot

```
## Loading required package: Matrix
```

```
## Loading required package: metadat
```

```
##
## Loading the 'metafor' package (version 3.8-1). For an
## introduction to the package please type: help(metafor)
```

```
##
## Attaching package: 'metafor'
```

```
## The following object is masked from 'package:mixmeta':
##
##     blup
```

```
## Loading 'meta' package (version 6.0-0).
## Type 'help(meta)' for a brief overview.
## Readers of 'Meta-Analysis with R (Use R!)' should install
## older version of 'meta' package: https://tinyurl.com/dt4y5drs
```

```
##  [1] 0.050 0.070 0.080 0.090 0.098 0.100 0.100 0.100 0.100 0.100 0.100 0.100
## [13] 0.100 0.100 0.100 0.100 0.100 0.120 0.130 0.140 0.160 0.160 0.170 0.178
## [25] 0.200 0.200 0.200 0.200 0.200 0.240 0.250 0.250 0.286 0.300 0.320 0.340
## [37] 0.350 0.750
```

Table 1: Parameters from TNM

	p=0.9	p=0.8	p=0.7	p=0.6	p=0.5	p=0.4	p=0.3	p=0.2	p=0.1
u1	0.679	0.678	0.681	0.688	0.702	0.726	0.764	0.828	0.955
u2	0.274	0.256	0.233	0.204	0.168	0.123	0.064	-0.016	-0.142
u3	0.674	0.613	0.538	0.452	0.351	0.231	0.083	-0.110	-0.402
t1	0.729	0.728	0.726	0.724	0.722	0.720	0.719	0.719	0.721
t2	0.506	0.508	0.511	0.514	0.518	0.522	0.528	0.534	0.542
t3	0.395	0.433	0.467	0.493	0.519	0.545	0.571	0.598	0.628
r1	-0.865	-0.859	-0.854	-0.851	-0.848	-0.846	-0.846	-0.848	-0.854
r2	0.364	0.389	0.416	0.442	0.469	0.497	0.527	0.559	0.594
r3	0.009	-0.010	-0.034	-0.061	-0.092	-0.129	-0.174	-0.229	-0.308
b	2.000	2.000	1.857	1.692	1.615	1.569	1.536	1.506	1.472
a	0.458	-0.464	-0.944	-1.230	-1.470	-1.684	-1.888	-2.100	-2.359
sauc	0.647	0.644	0.641	0.638	0.634	0.631	0.627	0.624	0.621
sauc.lb	0.604	0.601	0.597	0.591	0.583	0.574	0.562	0.546	0.526
sauc.ub	0.687	0.685	0.683	0.682	0.682	0.684	0.688	0.695	0.708
sen	0.663	0.663	0.664	0.666	0.669	0.674	0.682	0.696	0.722
spe	0.568	0.564	0.558	0.551	0.542	0.531	0.516	0.496	0.465
conv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

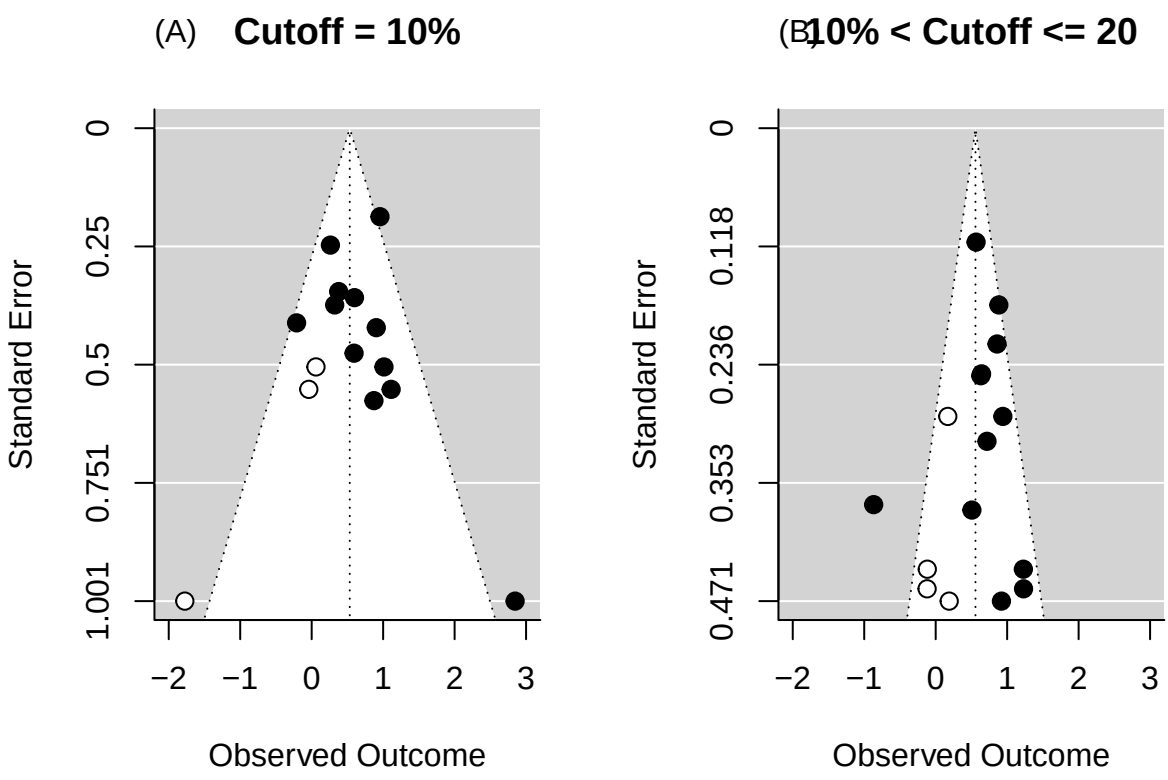


Table 2: SAUC

	p=1	p=0.9	p=0.8	p=0.7	p=0.6	p=0.5	p=0.4	p=0.3	p=0.2	p=0.1
sauc	0.649	0.647	0.644	0.641	0.638	0.634	0.631	0.627	0.624	0.621
sauc.lb	0.606	0.604	0.601	0.597	0.591	0.583	0.574	0.562	0.546	0.526
sauc.ub	0.690	0.687	0.685	0.683	0.682	0.682	0.684	0.688	0.695	0.708
conv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 3: Parameters from TNM

	p=0.9	p=0.8	p=0.7	p=0.6	p=0.5	p=0.4	p=0.3	p=0.2	p=0.1
u1	0.528	0.519	0.513	0.510	0.512	0.520	0.538	0.574	0.650
u2	0.339	0.320	0.295	0.264	0.224	0.174	0.107	0.014	-0.137
u3	0.645	0.582	0.504	0.417	0.315	0.194	0.045	-0.149	-0.445
t1	0.464	0.463	0.463	0.461	0.460	0.458	0.457	0.456	0.457
t2	0.576	0.579	0.582	0.585	0.589	0.594	0.600	0.607	0.617
t3	0.369	0.412	0.451	0.482	0.511	0.540	0.568	0.598	0.632
r1	-0.916	-0.907	-0.900	-0.897	-0.895	-0.895	-0.897	-0.903	-0.913
r2	0.325	0.349	0.377	0.406	0.436	0.468	0.503	0.541	0.588
r3	0.217	0.183	0.147	0.107	0.064	0.014	-0.044	-0.116	-0.217
b	2.000	2.000	1.912	1.734	1.644	1.588	1.546	1.510	1.467
a	0.419	-0.444	-0.910	-1.180	-1.403	-1.603	-1.795	-1.996	-2.243
sauc	0.644	0.641	0.636	0.632	0.627	0.623	0.618	0.613	0.608
sauc.lb	0.609	0.605	0.599	0.592	0.583	0.573	0.560	0.545	0.525
sauc.ub	0.678	0.675	0.672	0.670	0.669	0.670	0.672	0.677	0.685
sen	0.629	0.627	0.625	0.625	0.625	0.627	0.631	0.640	0.657
spe	0.584	0.579	0.573	0.566	0.556	0.543	0.527	0.504	0.466
conv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

$t = 3$

BNM Model of Hattori and Zhou

Sensitivity analysis

SAUC (CI) at $t = 3$

$t = 5$

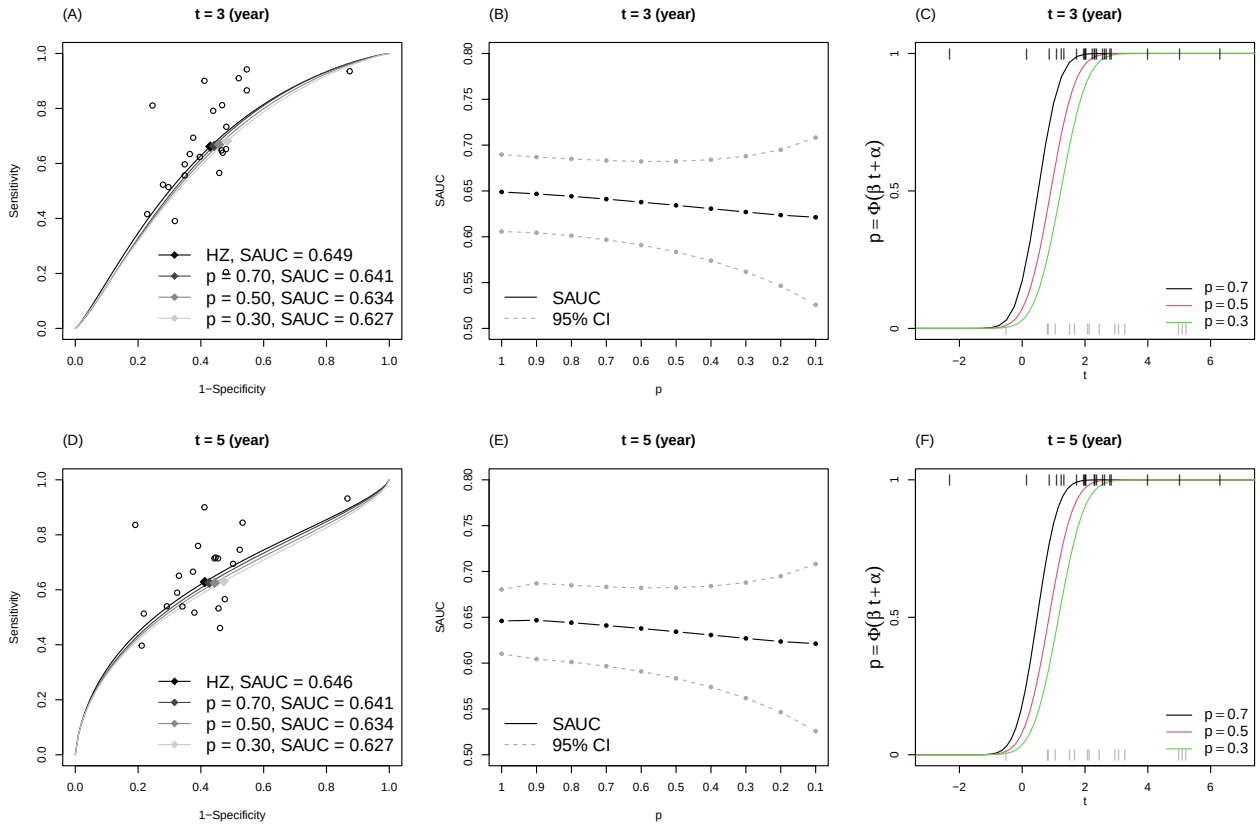
BNM Model of Hattori and Zhou

Sensitivity analysis

SAUC (CI) at $t = 5$

Table 4: SAUC

	p=1	p=0.9	p=0.8	p=0.7	p=0.6	p=0.5	p=0.4	p=0.3	p=0.2	p=0.1
sauc	0.646	0.647	0.644	0.641	0.638	0.634	0.631	0.627	0.624	0.621
sauc.lb	0.610	0.604	0.601	0.597	0.591	0.583	0.574	0.562	0.546	0.526
sauc.ub	0.680	0.687	0.685	0.683	0.682	0.682	0.684	0.688	0.695	0.708
conv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000


(A)
t = 3 (year)
Sensitivity
1−Specificity
HZ, SAUC = 0.649
p = 0.70, SAUC = 0.641
p = 0.50, SAUC = 0.634
p = 0.30, SAUC = 0.627
(B)
t = 3 (year)
SAUC
p
SAUC
95% CI
(C)
t = 3 (year)
p = Φ(β t + α)
t
p = 0.7
p = 0.5
p = 0.3
(D)
t = 5 (year)
Sensitivity
1−Specificity
HZ, SAUC = 0.646
p = 0.70, SAUC = 0.641
p = 0.50, SAUC = 0.634
p = 0.30, SAUC = 0.627
(E)
t = 5 (year)
SAUC
p
SAUC
95% CI
(F)
t = 5 (year)
p = Φ(β t + α)
t
p = 0.7
p = 0.5
p = 0.3