simulation to study strategies to handle small strata
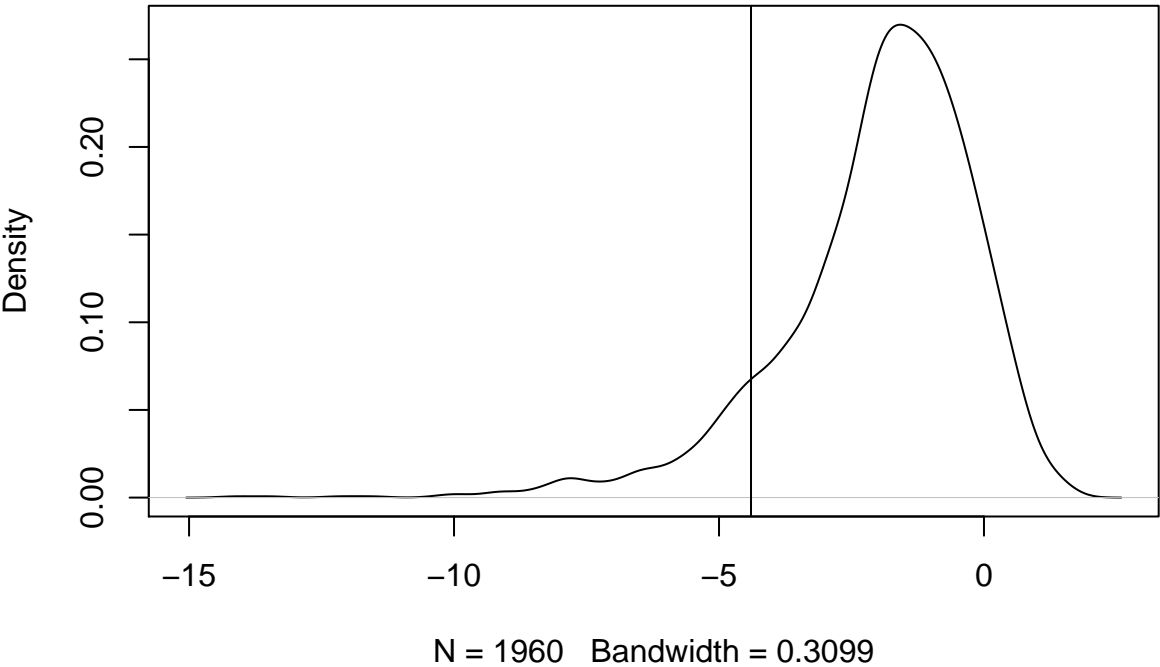
Wei Zou

2023-12-18 13:35:18

this program compare stratified vs unstratified analyses

```
## [1] "finding 98 input files when looking for r1"
## [1] "modification interval: 0.7 min"
## [1] "will add file name to the returned data"
```

var	n	mean	sd	min	25%	50%	75%	max
n	1960	702.000	0.000	702.000	702.000	702.000	702.000	702.000
nevent	1960	438.829	12.687	395.000	430.000	439.000	447.000	482.000
p_s	1960	0.095	0.174	0.000	0.003	0.017	0.093	0.996
delta_p	1960	0.005	0.044	-0.346	-0.001	0.001	0.010	0.290

density.default(x = minOE)

N = 1960   Bandwidth = 0.3099

```
## [1] 0.1
```

Probability Density

Legend:
- O–E_M1
- O–E_M2
- O–E_M3
- O–E_M4
- O–E_M5
- O–E_M6
- O–E_M7
- O–E_M8
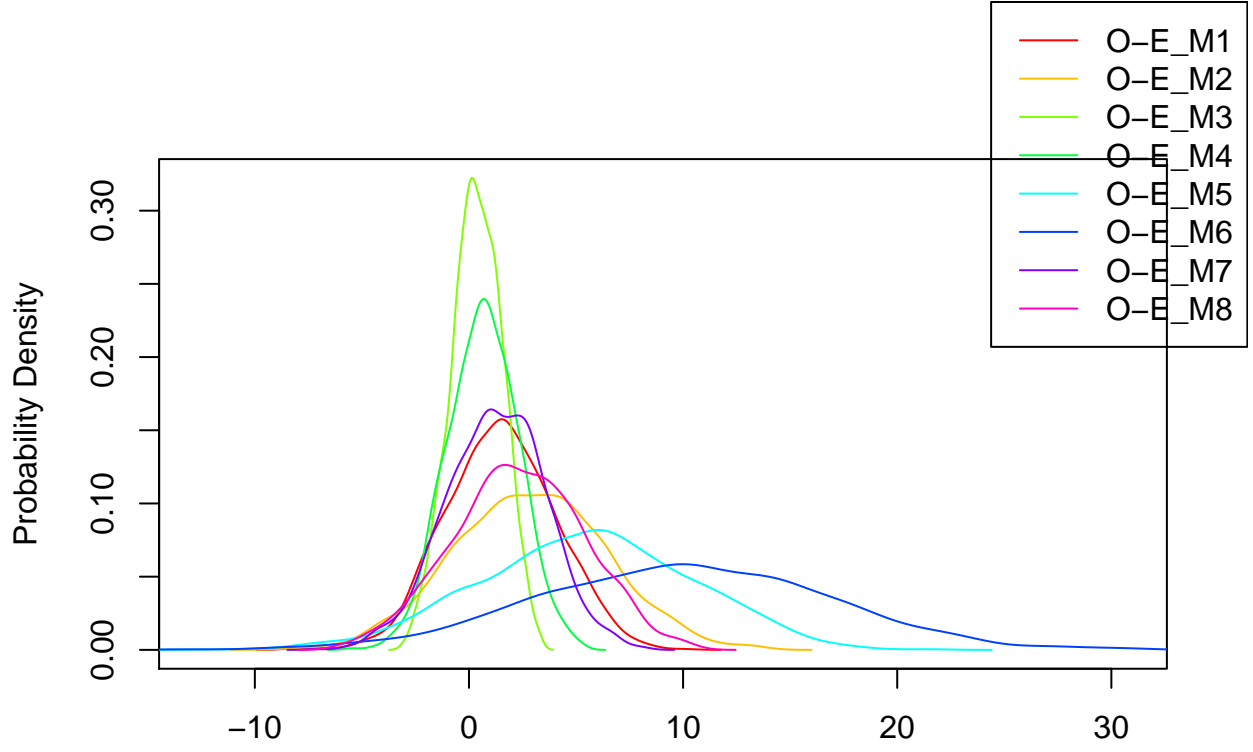
Table 2: parameters derived from imp150, used in simulation

	subgroup size	outcome medians	mean O-E
M1+M2+M3+	56	23.2	1.5
M1-M2+M3+	92	19.0	2.9
M1+M2-M3+	10	16.2	0.3
M1-M2-M3+	18	13.3	0.6
M1+M2+M3-	166	16.2	5.4
M1-M2+M3-	276	13.3	10.0
M1+M2-M3-	32	11.4	1.2
M1-M2-M3-	52	9.3	2.3