\$3,8 Propensity Score. Subsection (What's [ps?) o Propensity Score: probability of receiving treatment given covariates X. 在论文协变量XT,接受treatment的概率 subject i 57 propensiey score 0表示: Thi = P(A=1 |Xi) 151: · Covariate X = age. ps is a brance of score. 年龄大的人更可能接受治疗(treatment). sombled systems and substance of substance o 放 π;=P(A=1|Xi)>π;=P(A=1|Xj), if Xi>xji 。如果 Pps 时直观含义:若元;=0.3,表示第:个据人转复 treatment 的积分为0.3. subsection (Balancing score). Motivation: 2 subjects have the same value of the proponsity score. but they possibly have different opvariate values X. o Pps is the function of X. 说明这两个Subjects有相同概率被分到 theatmen propencity score是神 balance 对于有相同propensity score为子科,在两个treatment组中 应该具有balance. \sub{Eseim citing Pps} Ibalance score: If you condition on it, ABJACH P(A=1/X) (hasses 14) or o you'll have balance. BIA: logistic国四. 的数: Seepl: 拟仓逻辑回归 多広等式: P(X=x|π(x)=p, A=1)=P(X=x|π(x)=p, A=0). 模型, A作为Duteome, Xttoo Match on the propensity score > achieve balance Step2: 37 AT subject: (著代 Match on 所有的 covariates之间目的distance) 13 by Predicted value of o在Randomized trial中、Pps是改面了。P(A=1/X)=P(A=1)=0.5. 分面的与X无支 o to abservational study中, Pps 未知明. 说道: 我们可以通过observed data: A、X -> 估计Pps. 所以与我们投起了。时通常是估计的Pps

\$3.9. Pps matching 消除、精相端Pps的个体。 olps is a balancing score. · Marching on the Postachieve balance. trimming tails. The lack of overlap 07 & M. tails) opps 是一个的量,每个subject都有1个 :目的:去掉那些具有根端 Pps 值的subjects ·Match on Pps 的复杂度、只需要匹配1个重量 水路Pps的含义:对对于使用数据的人而言, Watching in 胶被 simplified. 接受某类处理的概率较高. 对H Match on avariates;需要四個一个種可行方面法華例: 控制 去掉形些Pps值小于treated group P最小Pps 组Subject \subsection{ overlap} Basubjects o 比较 Pps在treated组与control组subjects的 treated: 我科那些Pps值村"control group 最大多 分(通过画图) 耐 Subjects. 作用:保障 Positivity assumption的合理性 Pià l'example) \sub{Matching} ①3观察V基值 思想:计算2 subjects Pps To distance. Q T (treated) > TE(CONTrol) Je min distance, Overlop是什么? 水: Greedy Optimal / 東近如mertaning Ara 不管是Prs的哪部分数值,仍然有人 Dirt 每一个 +reaced Subject 与每一个 control 接受处理成控制。 55 pps. 应在Fig.fex}的勤奋端。即便是control组,也总部 取对数.0=Pps<1,在0~1之间排降条子数 有很高的概计接受treated 。在Figlex f 的最左端,即使是treated组,巴总很多Pps都长相似。 到时候: ① 学调性, 保证的s 的rank不变 成级小的概率推接是treated. 目元界性,拉大引导的分布,使其有感

⇒ 对log(TL)1下 March, 编引图元.

V positivity assumption of E.

Sub {Caliper}
目的: 译文括号 bad matches.

设定: 最大距离

和门麓接受的 Pp s 间面。

一般设定: 0.2 x Sd 一种更对 bolance 知识证面 fewer matched pairs, letter matches.

Sd= Sd (logota) 所面的 person ?

theoted 和 corrnol 合在 表?

Small Caliper — less bias, more variance treatment effect estimate will have more variability

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Small Caliper — less bias, more variance treatment effect estimate will have more variability

Small Caliper — less bias, more variance from the feet estimate will have more variability

Thade—off in bias 和 variance for variates.

Sub { After matching }

同 Match based on distance of covariates.

Motor 记号表现32 March 是图记术。 | Andomization test.

5话: 灵香达到 bolance. | 6665. 等.