83.7 Sensitivity analysis.

Oweline:

1. Understand the concept of sensitivity analysis.

2. Charrying out a sensitivity analysis in practice.

Subsection (Background)

Recall he mean goal of matching is to achieve balance on observed covariates.

Overthias; occur when balance on observed covariates is not achieved. We x fully control for these variables.

目标:我们希望能够设备出overtdias.

段: Unobserved variables: Matching 无法搜数未观测 到的变量.

Recall 2: Randomized trials — achieve balance on observed and unobserved variables. (固比treatment的分配注金遇机的) 与所有的X有户行

hidden bias: 存在未见测到的变量,并且这些变量都是confounders.

压锅ignorability assumption Yo. Y'LAIX.

Subsection [Sensitivity analysis]

Main idea: 如果存在 hidden bias, 考虑 hidden bias多严重时会

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This 第iTsubject 接受 treatment 即称年.

This 第kTsubject 接受 treatment 即称中.

如果等iTsubject 与第kTsubject parfectly matched,

• Inequiry (colds voreto;) \$\mathbb{H} \times j = \times no \times hidden bias.

TELL DEAKCHTIK格

if P > 1. implies hidden bious.

· P的大小可以格提Ignovability assumption是否被violated,以 及被violated的程度。