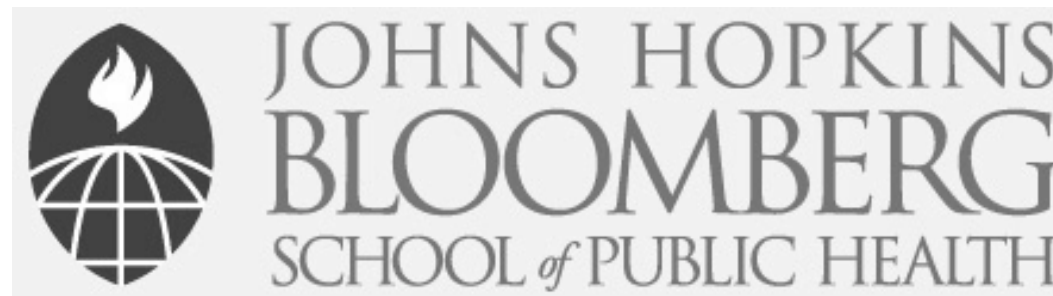


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Lecture 7a: Practice Problems

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Practice Problems

- A study was performed on a representative sample of 258 intravenous drug users (IVDUs)
- Of particular interest to the researchers were factors which may influence the risk of contracting tuberculosis amongst IVDUs*
- Ninety-seven of the study subjects admitted to sharing needles to shoot drugs
- Of these ninety-seven, twenty-four had a positive tuberculin test result
- The other 161 subjects denied having shared needles—of these 161 subjects, 28 had a positive tuberculin test result

Notes: * Based on data reported in Graham, N., et al. Prevalence of tuberculin positivity and skin test anergy in HIV-1-seropositive and seronegative intravenous drug users, *Journal of the American Medical Association* 267: 3.

Practice Problems

- Using these study results, construct a 95% confidence interval for the difference in the proportion of tuberculosis infected IVDUS who shared needles as compared to IVDUS who did not share needles