STA 108 Project 1

Noe Velasquez,,	and $_$	
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2023-01-2	27	

Introduction

1

a

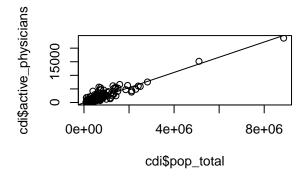
The estimated regression functions are: 1. The number of active physicians in relation to total population is estimated by \hat{Y} =-110.6347772+0.0027954X.

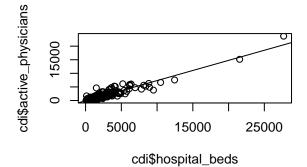
- 2. The number of active physicians in relation to number of hospital beds is estimated by $\hat{Y} = 95.9321847 + 0.7431164X$.
- 3. The number of active physicians in relation to total per onsal income is estimated by $\hat{Y}=-48.3948489+0.1317012X.$

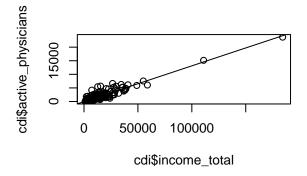
```
#b
par(mfrow = c(2,2))
plot(cdi$pop_total, cdi$active_physicians)
abline(model_1)

plot(cdi$hospital_beds, cdi$active_physicians)
abline(model_2)
```

plot(cdi\$income_total, cdi\$active_physicians)
abline(model_3)







 \mathbf{b}

c

 \mathbf{c}