Barriers to healthcare access in Ifanadiana

Background

Access to health care is multi-dimensional comprising of several factors that include availability, acceptability, financial accessibility and geographic accessibility
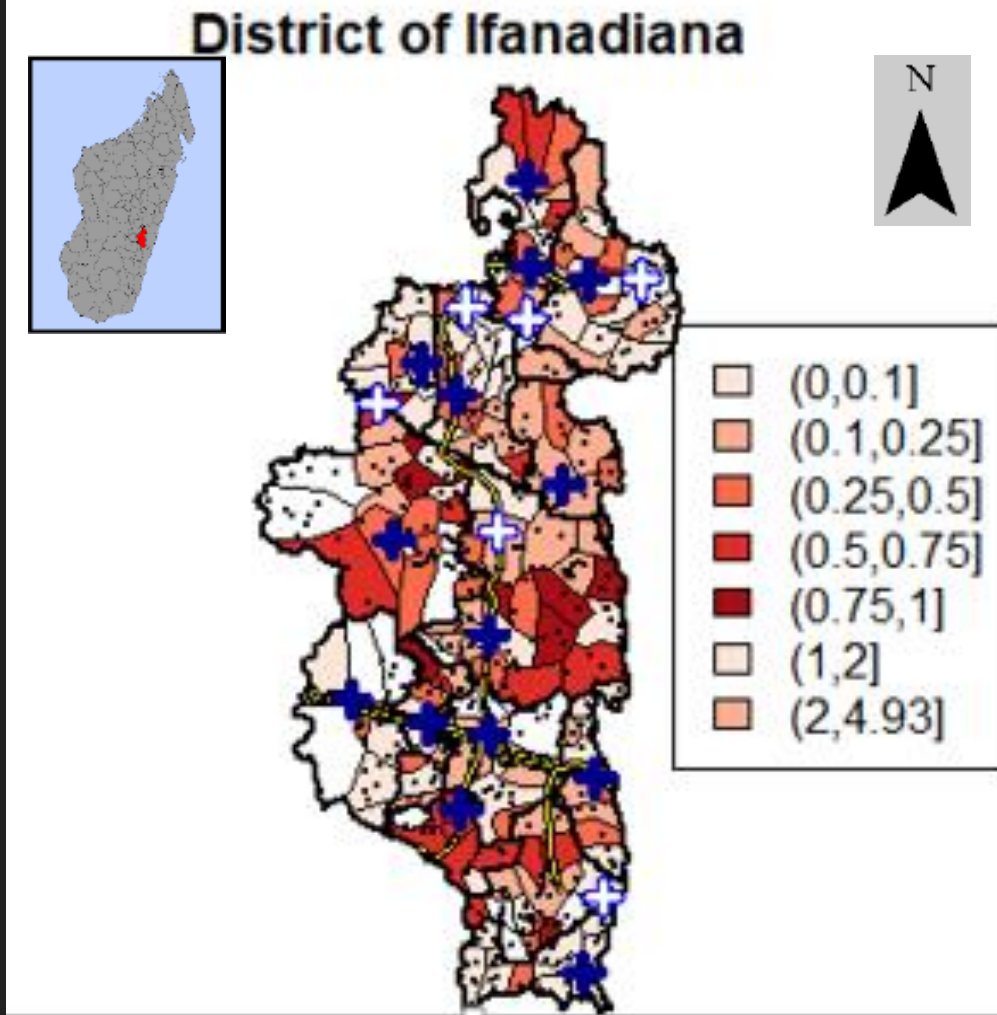
Statistical Question

What is the impact of real distance between CSB and Village on children under 5 treatment rate (going to CSB)?

Mechanistic Question

How does distance influence the proportion of sick children under 5 that successfully treated?
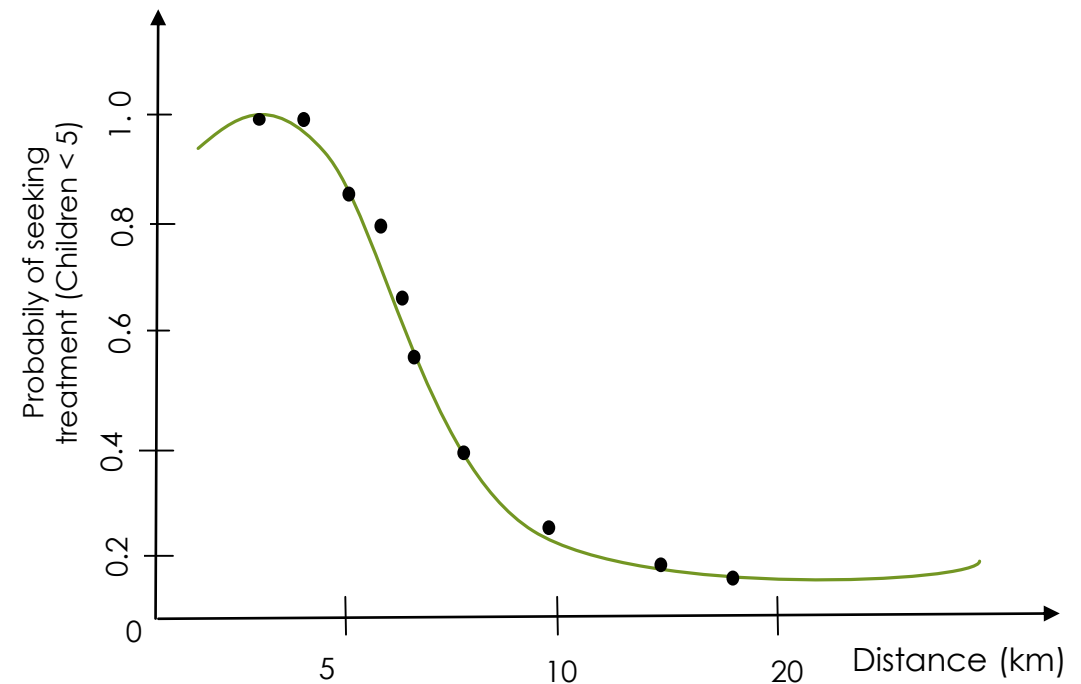
Andréambeloson Tanjona Tahina, Pivot Ifanadiana

District of Ifanadiana

N

(0,0.1]
(0.1,0.25]
(0.25,0.5]
(0.5,0.75]
(0.75,1]
(1,2]
(2,4.93]

What is the impact of the real distance between health center (CSB) and Villages on the treatment of children under 5 who go to CSB?

Hypothesis: distance will decrease the probability of children seeking treatment

- Response variable: probability of children seeking treatment

- Predictor variable: distance

- Distribution : binomial

- Link: Logit

How does distance influence the proportion of sick children under 5 that seek treatment ?
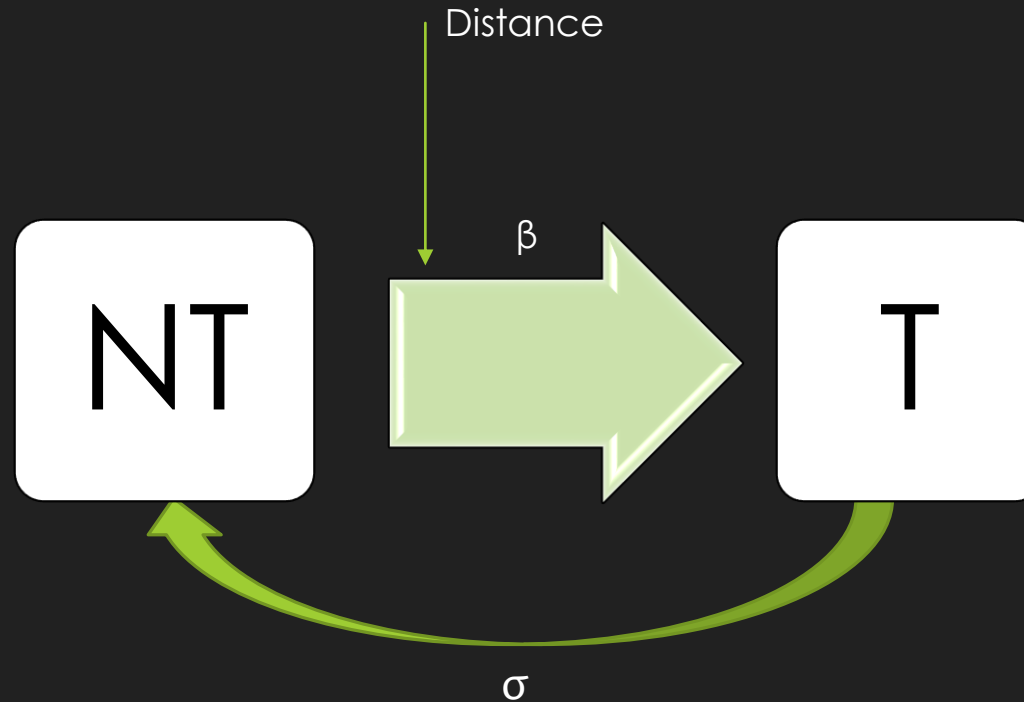
STATES :

NT: Not Treaty
T: Treaty

PROCESSES :

β : Seek treatment
σ : Not seek treatment

Distance

β

NT

T

σ

NEXT STEPS

○ Collect data of other factors (climat, fees, desease…) that improve the impact on the probability of treatment children under 5

○ Estimate the impact of isolate household on the health care indicator

○ Evaluate the influence of travel time from villages to health center