Waiting for a psychologist

* Inequality between municipalities in Region Midtjylland



Final Project Report, Geografisk dataanalyse/Spatial nalytics

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**Abstract**

Bla bla bla

**Keywords:** *psychologist; waiting time; inequality; Region Midtjylland*

**Github:** the data,the script used to process and visualize my data, the HTML version of the script etc. can be found on my Github account: **Link to Github**

# **1 Introduction/Goal**

Since årstal, it has been free to get psycological help for young people between 18-24 years, but the waiting time has increased in the past years.

Following research question: ***How is the waiting time distributed across the municipalities in region Midtjylland?***

# **2 Problems and Background/Context**

Long waiting => the young people gets worse or they get behind on education, lose friends etc. -> you can pay for shorter waiting, but it is expensive and many can’t afford it => inequality – rich can get treatment, poor can’t (<https://www.berlingske.dk/danmark/foreninger-om-lang-ventetid-til-psykolog-unge-mister-haabet>).

Long waiting has consequences for both individual and society:

* Individual: mental health worsening, getting behind in life
* Society: inequality, cost on long run (because of long time sickness)

The purpose of my project is to visualize the waiting time in each municipality in Midtjylland to…

# **3 Software Framework**

This project has been made on my 7 years old MacBook Air (2015), which has 8 GB RAM and runs macOS Monterey (12.6.3) operating system. I installed R (4.2.1) and RStudio (2022.12.0+353). Data, scripts, outputs etc. is saved on my GitHub.

# **4 Data Acquisition and Processing**

* About the data:
  + Waiting times:
    - Source: RegionMidt.
    - Entity: Measured in weeks.
    - Waiting time for non-urgent patients on cause 10 (light to moderate depression) or 11 (light to moderate anxiety)
    - Prerocessing the ”waitingtime\_regionmidt” data
* Translate the headings into english
* Change heading to something more meaningsfull (and with underscores)
* Further notes on data:
* When: November 1st 2021.
  + Municipalities:
    - Source?
    - Shapefile
  + Population
    - Source: Danmarks Statistik
    - Where: the 19 municipalities in Region Midtjylland
    - Entity: number
    - When: the 1st in the last quarter of 2021 (to match the year of the waiting times)
    - Name: “Folketal den 1. i kvartalet efter køn, tid, område og alder”
    - Pre-prosessing: changed names from 18 år… to age\_18… for R to be able to load the data and create column names:
* Describe why I project the data to the given crs.

# **5 Empirical Results (Implementation for technical projects)**

# **Critical evaluations**

## Evaluation of the results

* Comment on

## 

## Evaluation of method

* Comment on the FAIR principles and how I do/don’t live up to them in my project.
* MAUP (the division into municipalities and how it affects results).
* Ecological fallacy?

# **7 Conclusions**

# **8 References**

**Domain-specific literature**

Ritzau, *Foreninger om lang ventetid til psykolog: Unge mister håbet****,*** Berlingske.dk, 10/06/2022, <https://www.berlingske.dk/danmark/foreninger-om-lang-ventetid-til-psykolog-unge-mister-haabet> (accessed 25/04/2023)

**Digital tutorials and internet resources.**

# **9 Required Metadata**

## Table 1 – Software metadata

|  |  |  |
| --- | --- | --- |
| **Nr** | **Software metadata description** | ***Please fill in this column*** |
| S1 | Current software version | *R 4.2.2*  *RStudio 2022.12.0+353* |
| S2 | Permanent link to Github repository where you put your script or R project | **LINK** |
| S3 | Legal Software License |  |
| S4 | Computing platform / Operating System | macOS Monterey 12.6.3 |
| S5 | Installation requirements & dependencies for software not used in class |  |
| S6 | If available Link to software documentation for special software |  |
| S6 | Support email for questions | [202004214@post.au.dk](mailto:202004214@post.au.dk) |

## Table 2 – Data metadata

|  |  |  |
| --- | --- | --- |
| **Data sets** | | |
| **Main data sets** | | |
| D1 |  |  |
| D2 |  |  |
| **Other data output** | | |
| D3 |  |  |
| D4 |  |  |