

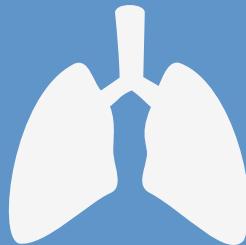


Tuberculosis (TB) Disease Interactive Map in Jakarta Capital Special Region

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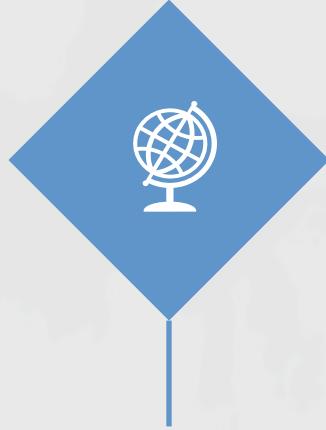
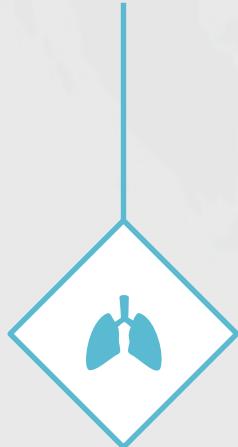
Introduction



Tuberculosis (TB) is a disease that is easily contagious and can attack various organs of the body, especially the lungs. This disease can cause complications to cause death for the sufferer if not appropriately treated

The Core Problem

TB is included in the top 10 causes of death in the world



Indonesia is ranked second with the most cases of TB patients in the world

Indonesia is in the top six countries with the newest TB cases



Aim

This study aims to monitor Tuberculosis in the Special Capital Region of Jakarta, especially East Jakarta, by using interactive maps to facilitate the DKI Jakarta Health Office in monitoring the control of Tuberculosis for action and prevention.

Limitation Of The Problem



The system created to view data on interactive maps is limited to TB disease and located in East Jakarta for 2015-2017



The data used comes from the DKI Jakarta Health Office

Data

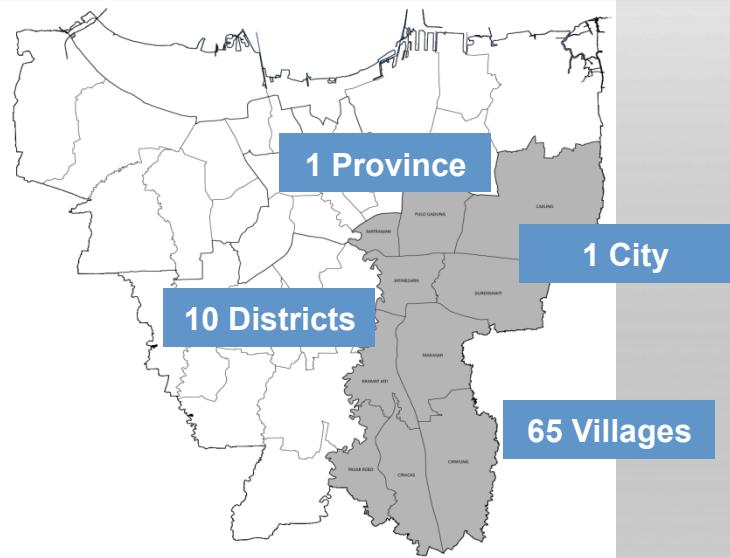


Data for this research is from the DKI Jakarta Health Office regarding the spread of TB patients data in East Jakarta

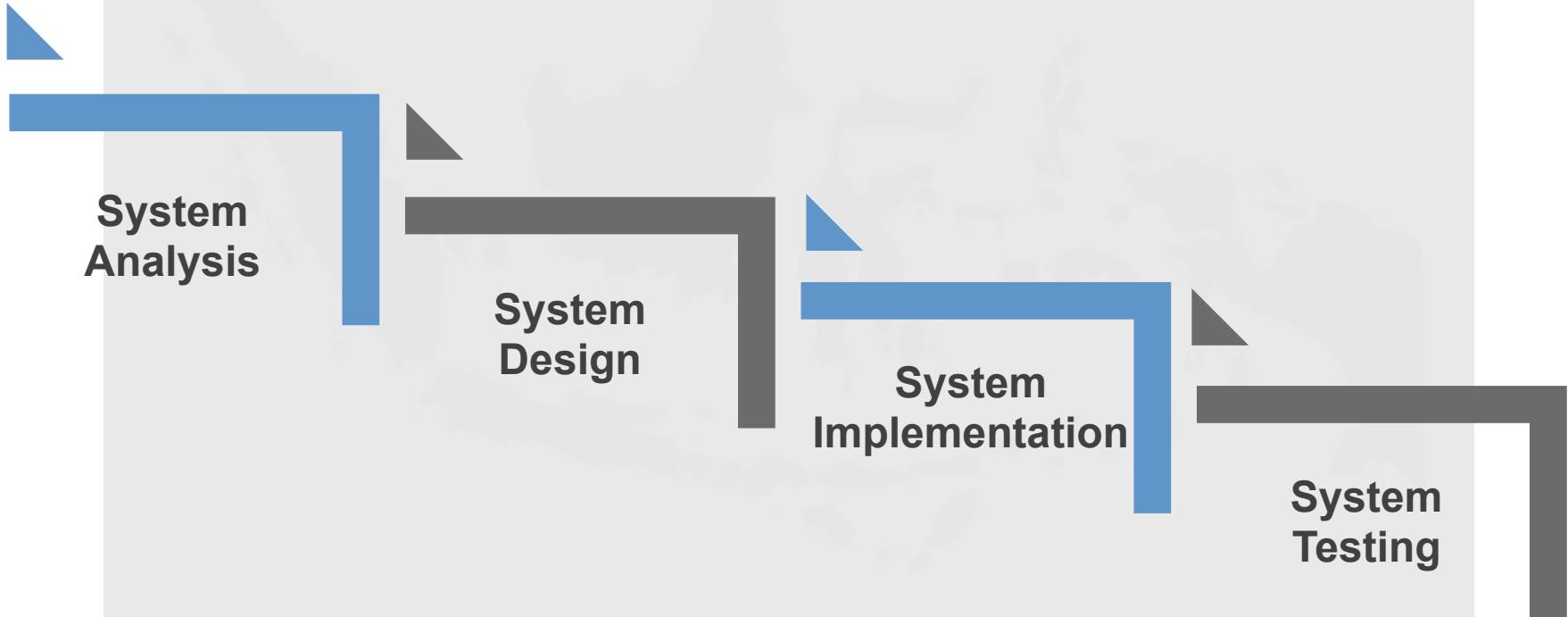
The data used is in the 2015-2017 period

The data obtained amounted to 19,580 patient data.

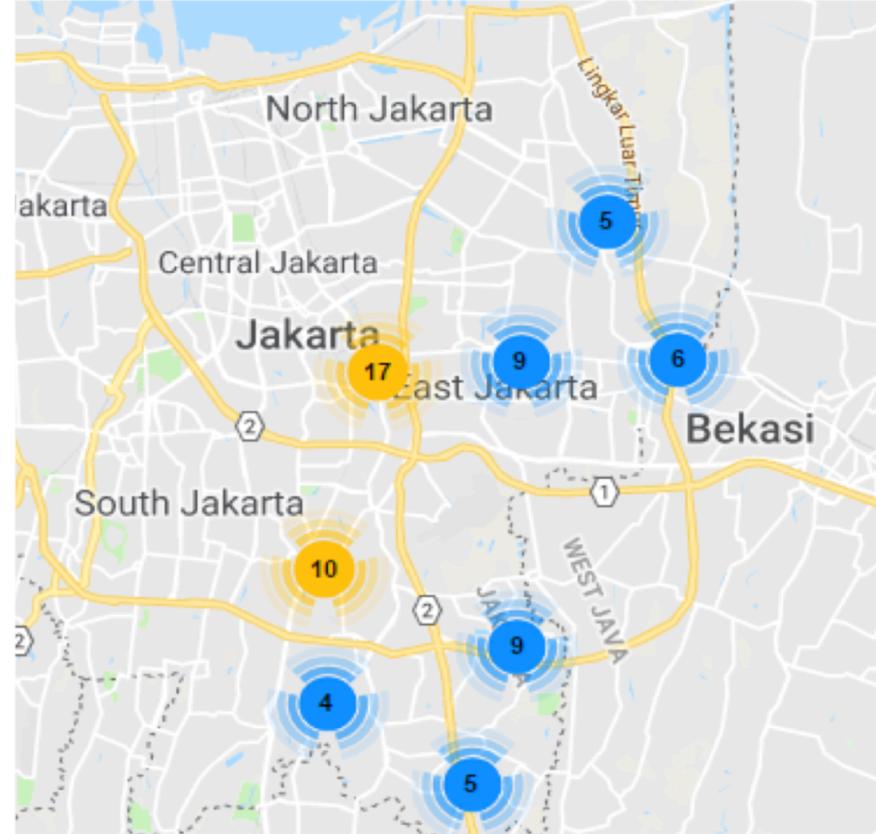
The data consists of one Province, one city, ten districts, and sixty five villages, with 2(two) patient classifications, namely pulmonary TB and extra pulmonary TB and has 5 (five) types of patients that are standard treatment, relapse, failure, and others.



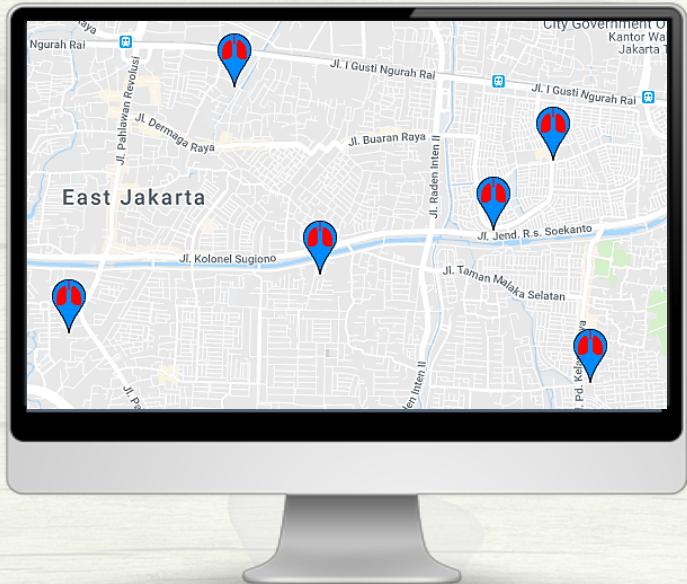
Method



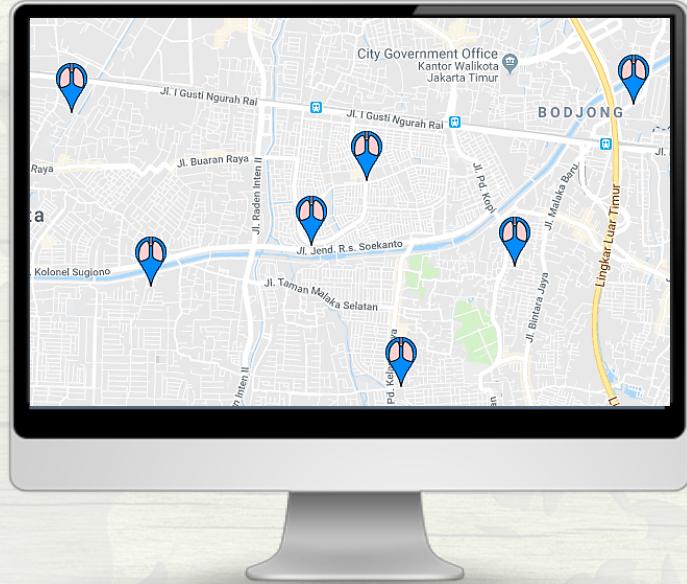
The number of T B patients based on villages



Map based on color



Extra pulmonary TB Data



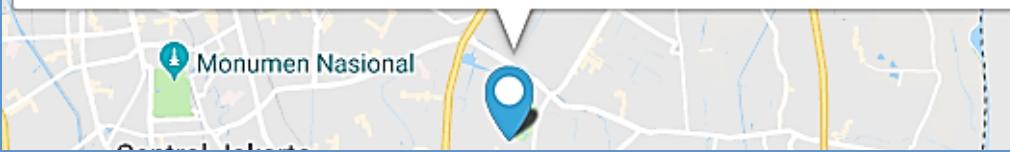
Pulmonary TB Data

Marker Label

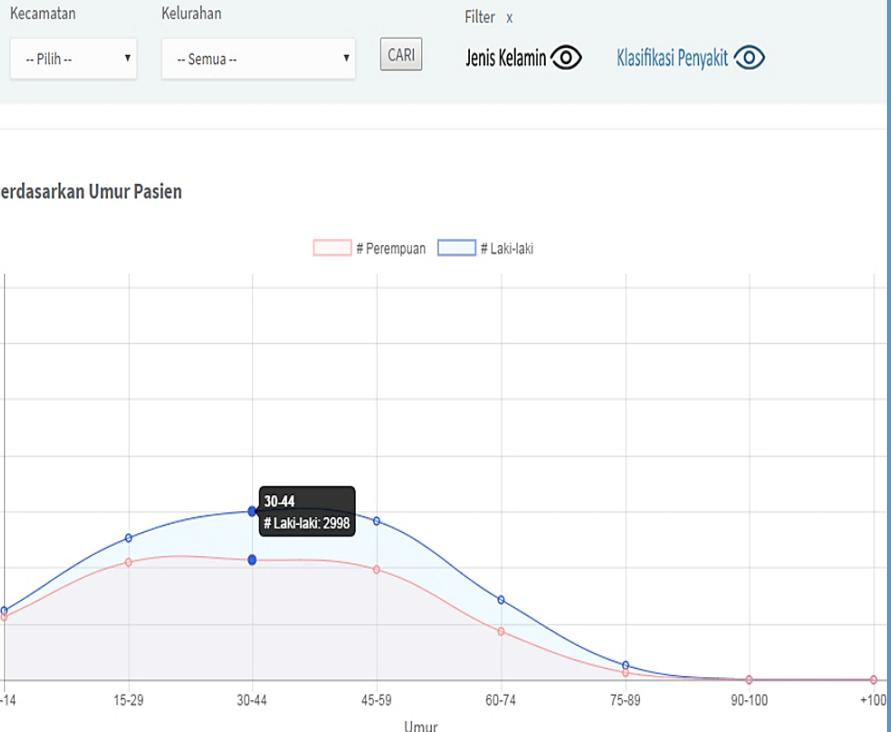
DETAIL HASIL

Kel.KAYU PUTIH Kec.PULO GADUNG	
Total Pasien :60	
Tahun :2017	
Klasifikasi Pasien	
 Ekstra Paru : 3	 Paru : 57
Jenis Kelamin	
 Laki-laki : 32	 Perempuan : 28

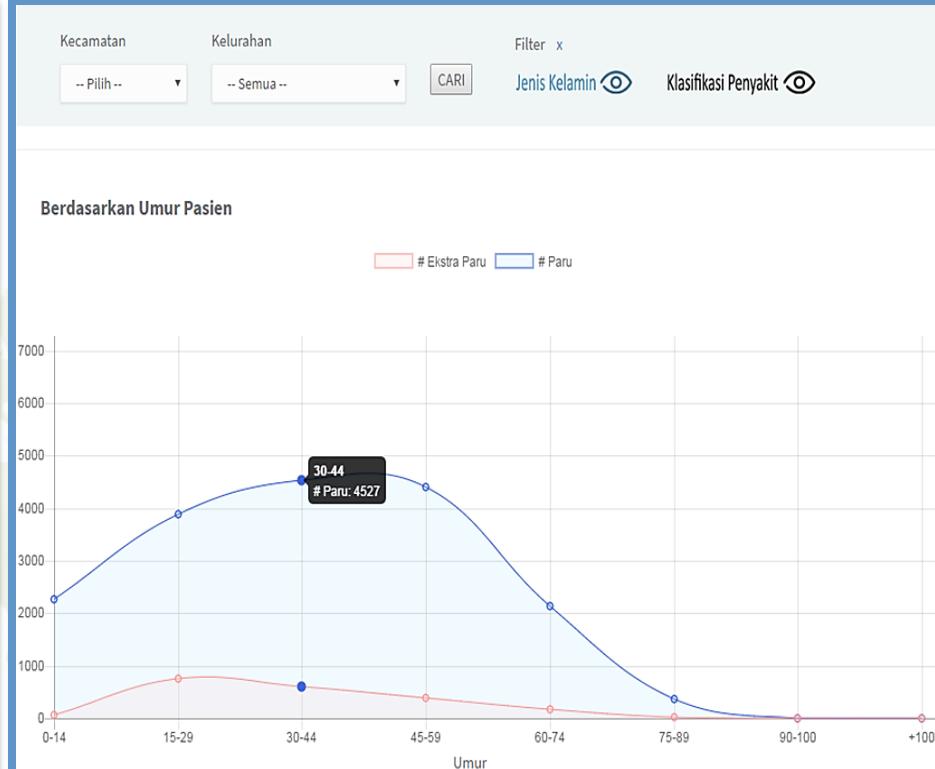
Tipe Pasien	
Pengobatan Default	0
Kambuh	3
Gagal	0
Baru	56
Lain-lain	1



Graph

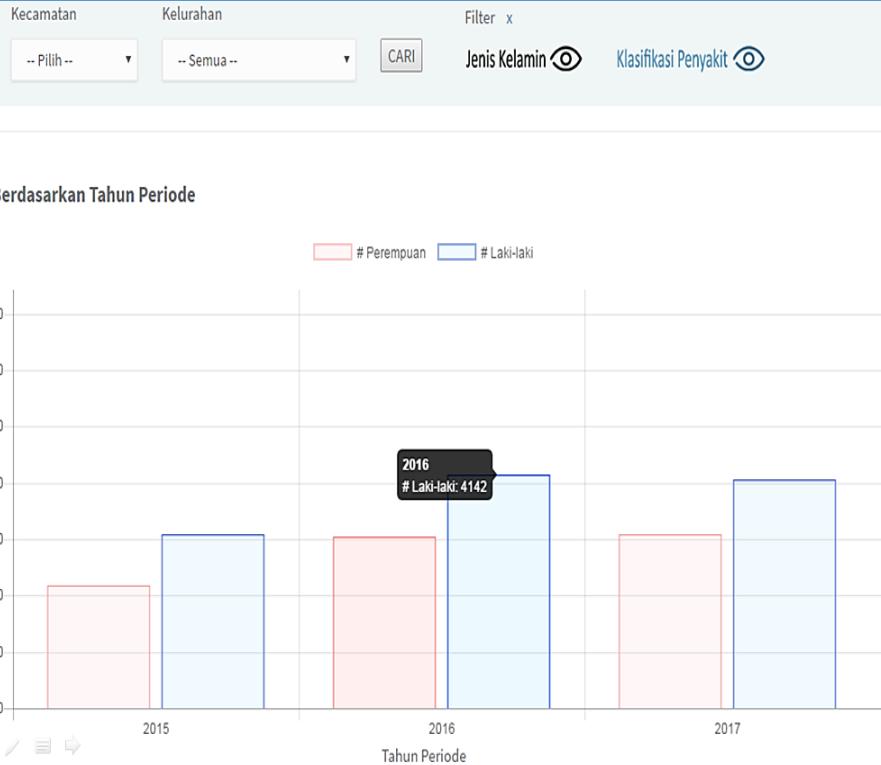


Graph based on the age and gender

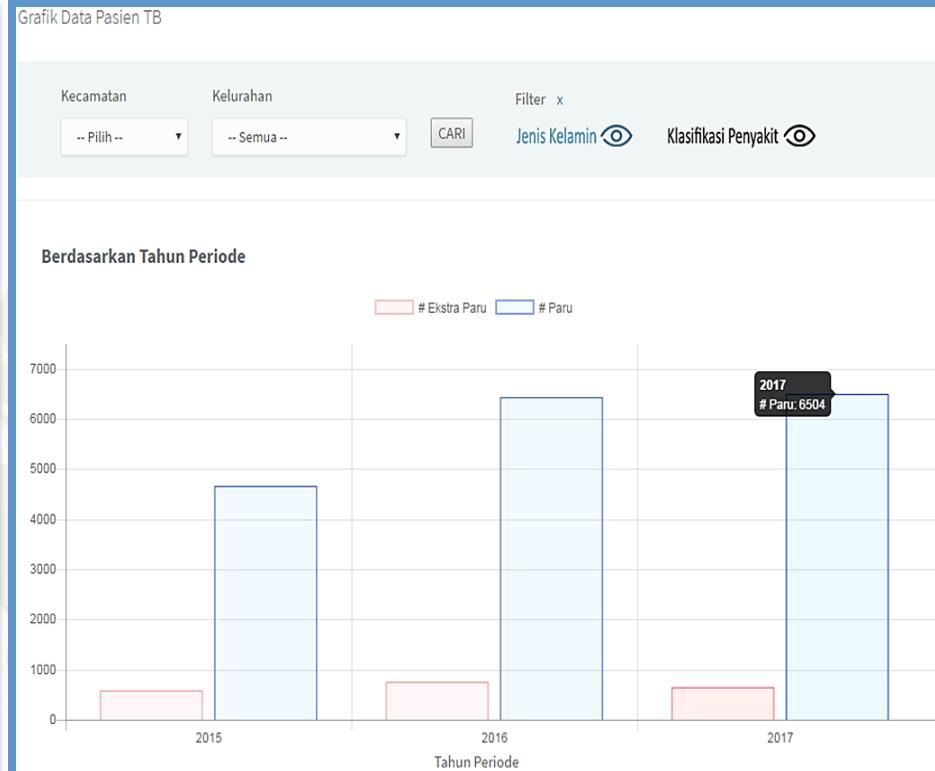


Graph based on the age and classification of the disease

Graph



Graph of the year period based on gender



Graph of the year period based on classification of the disease

Conclusion

- In this research, we develop the Interactive Map of Tuberculosis (TB) in the Special Capital Region of Jakarta.
- It can support the Jakarta Health Office to monitor and retrieve the information about TB patients in the Jakarta Special Region, especially East Jakarta.
- This system can help the stakeholder to make a decision of action to be taken to prevent the spread of the TB virus.
- This system also provides graphs showing classification of TB patients, such as pulmonary, extra pulmonary and It also shows the diagram of TB patients based on their gender in East Jakarta in 2015-2017.

References

1. WHO 2016, *Global Tuberculosis Report*, Geneva : World Health Organization 2016
2. Riskesdas 2016, Infodatin, Tuberkulosis Temukan Obati Sampai Sembuh, Balitbangkes, Kemenkes, Jakarta.
3. Pressman, Roger S, 2002, Rekayasa Perangkat Lunak, Yogyakarta, Penerbit Andi.
4. Fauzi, Gilang 2017, Menkes: *Indonesia Negara Kedua Terbanyak Penderita TBC*, <https://www.cnnindonesia.com/gaya-hidup/20170507203339-255-212964/menkes-indonesia-negara-kedua-terbanyak-penderita-tbc>. [5 Februari 2018]



THANK YOU