

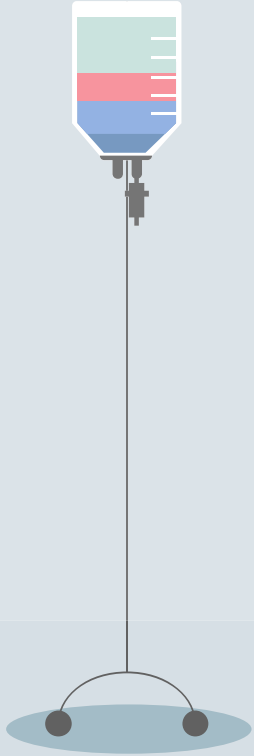


Analysis COVID-19 in West Java

By Muhammad Rizky Halawi



TABLE OF CONTENTS



01

Introduction

02

Update The data

03

Covid in West Java

04

Data Processing and
Visualization

05

Conclusion

INTRODUCTION

COVID-19 is a disease that has now become a global pandemic. The condition becomes worrying because currently there is still no effective vaccine for the virus that causes COVID-19.

Governments in various countries in general have swiftly formed task forces (task force units) to spread the spread of COVID-19 in society, including the government in Indonesia.



Goals

01

To Know Update COVID-19 in West Java and Indonesia

02

To Analyze The Daily and Weekly Cases of COVID-19 in
West Java

03

To make Accumulation of Data COVID-19 in West Java

COVID-19 Update

New Update

10-05-2021

Added Recovery
cases

6338

Added death cases

206

Positive cases

1718575

Death Cases

47218

How to get this data:

```
import requests
resp = requests.get('https://data.covid19.go.id/public/api/update.json')

print(resp)

print(resp.headers)

cov_id_raw = resp.json()
print('Length of cov_id_raw : %d.' %len(cov_id_raw))
print('Komponen cov_id_raw : %s.' %cov_id_raw.keys())

{'Server': 'nginx', 'Date': 'Tue, 11 May 2021 07:00:06 GMT', 'Content-Type': 'application/json', 'Transfer-Encoding': 'chunked', 'Connection': 'keep-alive', 'Vary': 'Accept-Encoding, Accept-Encoding', 'Last-Modified': 'Tue, 11 May 2021 06:57:31 GMT', 'ETag': 'W/"609a2adb-28ef2"', 'X-Content-Type-Options': 'nosniff, nosniff', 'X-XSS-Protection': '1; mode=block, 1; mode=block', 'Strict-Transport-Security': 'max-age=31536000; includeSubDomains; preload', 'Content-Encoding': 'gzip'}
Length of cov_id_raw : 2.
Komponen cov_id_raw : dict_keys(['data', 'update']).
Tanggal pembaharuan data penambahan kasus : 2021-05-10
Jumlah penambahan kasus sembuh : 6338
Jumlah penambahan kasus meninggal : 206
Jumlah total kasus positif hingga saat ini : 1718575
Jumlah total kasus meninggal hingga saat ini : 47218
```

Total Cases

292592

Percentage of
Death cases

1.3%

Percentage of
Recovery

88,73%

Data Processing

Get Detail Information



Cleansing Data

```
import numpy as np
import pandas as pd
cov_jabar = pd.DataFrame(cov_jabar_raw['list_perkembangan'])
print('Info cov_jabar:\n', cov_jabar.info())
print('\nLima data teratas cov_jabar:\n', cov_jabar.head())
cov_jabar_tidy = (cov_jabar.drop(columns=[item for item in cov_jabar.columns
                                     if item.startswith('AKUMULASI')
                                     or item.startswith('DIRAWAT')]))
                                     .rename(columns=str.lower)
                                     .rename(columns={'kasus': 'kasus_baru'})
)
cov_jabar_tidy['tanggal'] = pd.to_datetime(cov_jabar_tidy['tanggal']*1e6, unit='ns')
print('Lima data teratas:\n', cov_jabar_tidy.head())
```

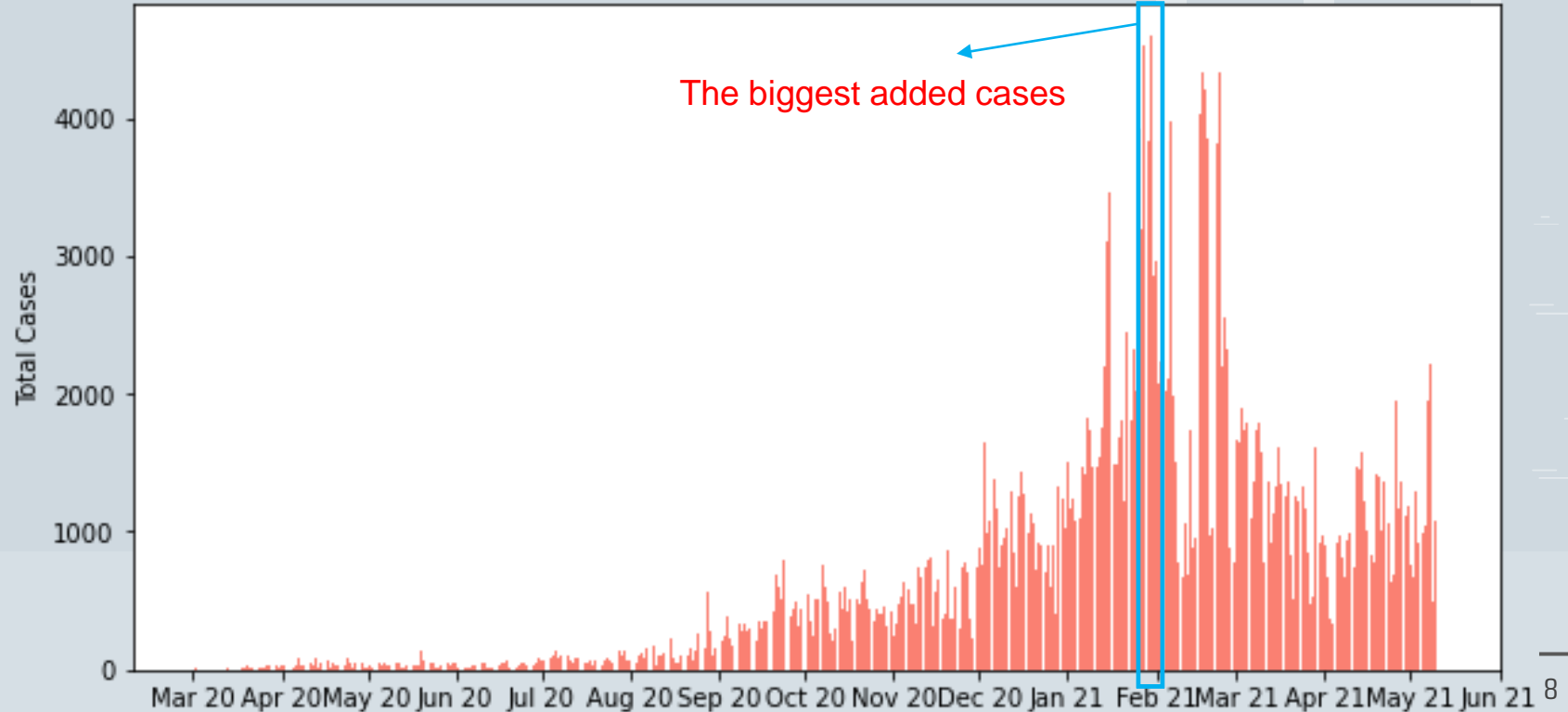
- Delete “DIRAWAT-OR_ISOLASI” Columns
- Change format to non capital alphabet
- Change “kasus” Columns to “kasus_baru”
- Change date format in “tanggal” columns to datetime

Data Visualization

Daily Positive Cases

Daily Positive Cases of COVID-19 in West Java

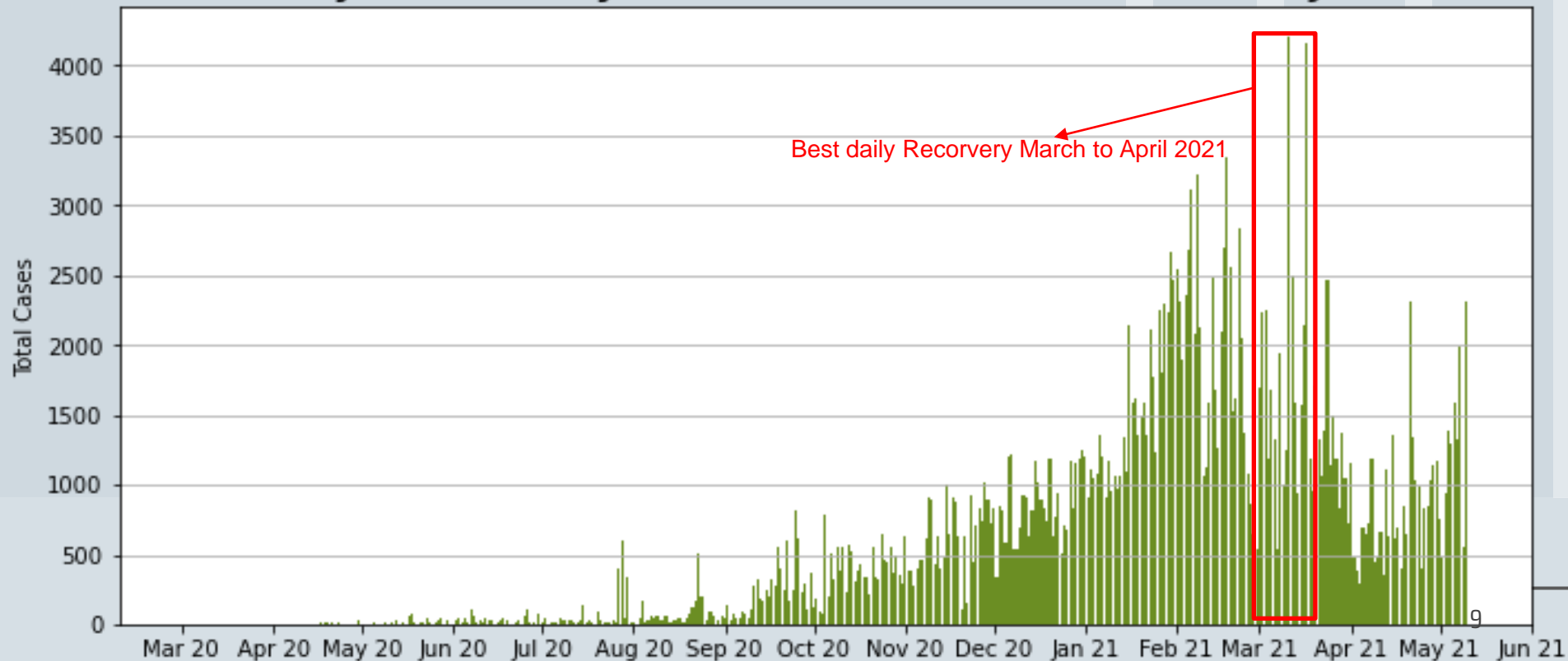
The bibg added Cases in middle February 2021 because "Secapa AD bandung" Cluster



Source: covid.19.go.id

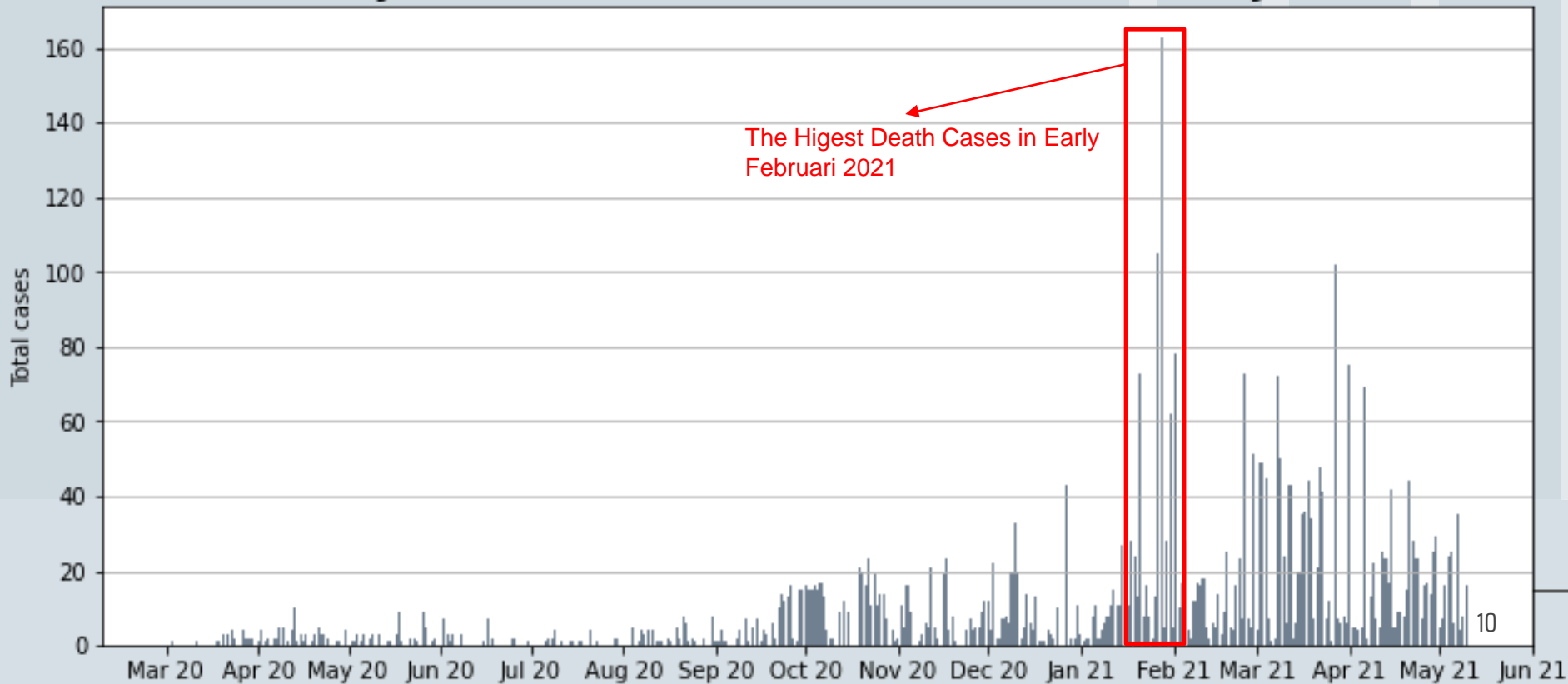
Daily Recovery Cases

Daily Recovery Cases of COVID-19 in West Java



Daily Death Cases

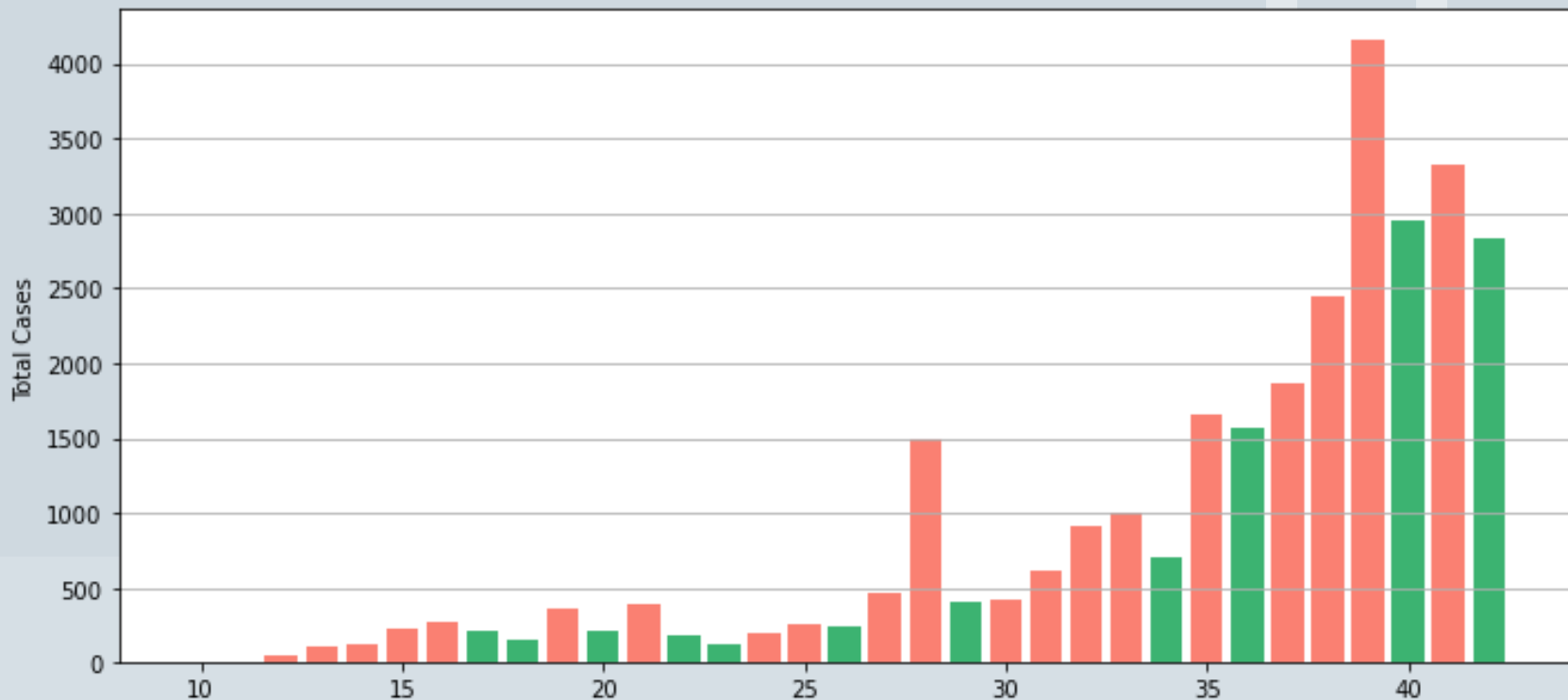
Daily Death Cases of COVID-19 in West Java



Weekly Positive Cases

Weekly Cases Positive of COVID-19 in West Java

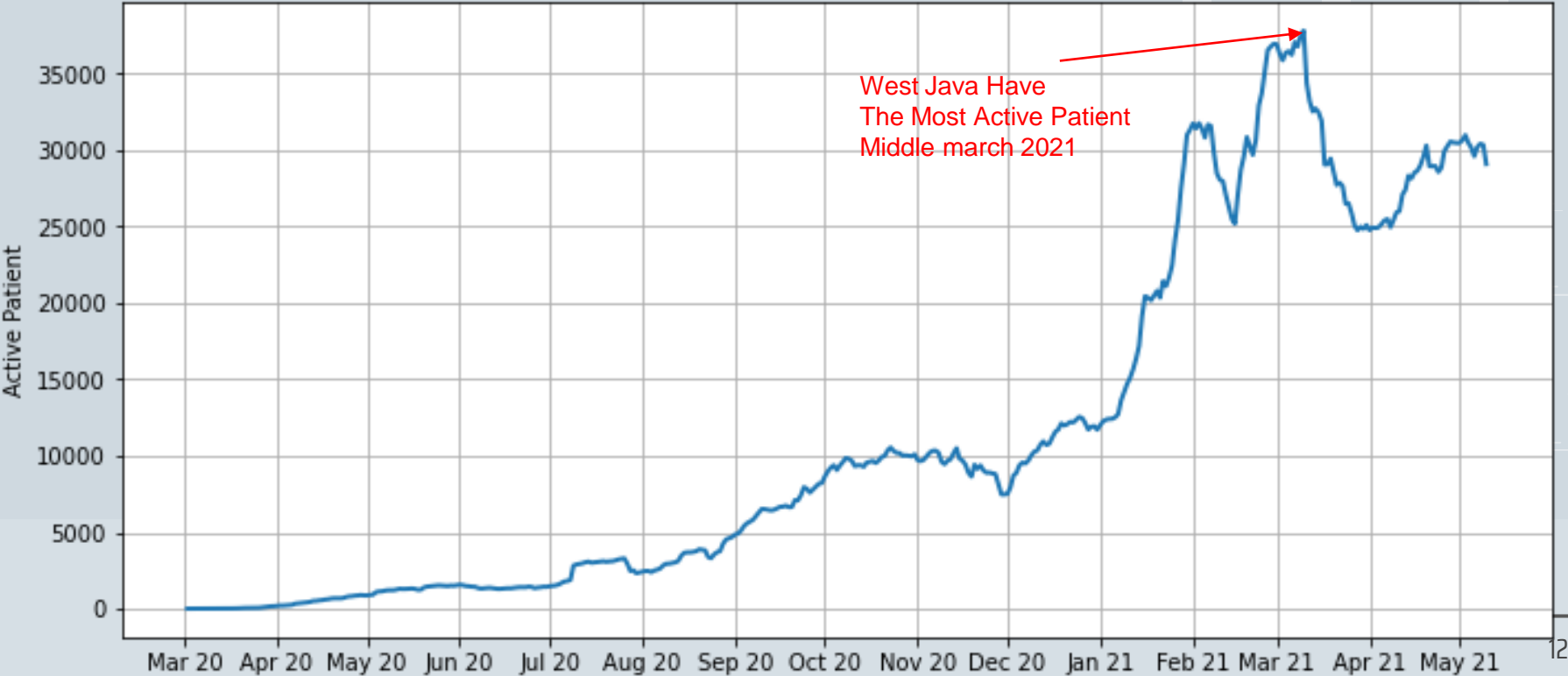
Green bar means added new cases less than one week before



Sumber data: covid19.go.id

Active Patient COVID-19 in West Java

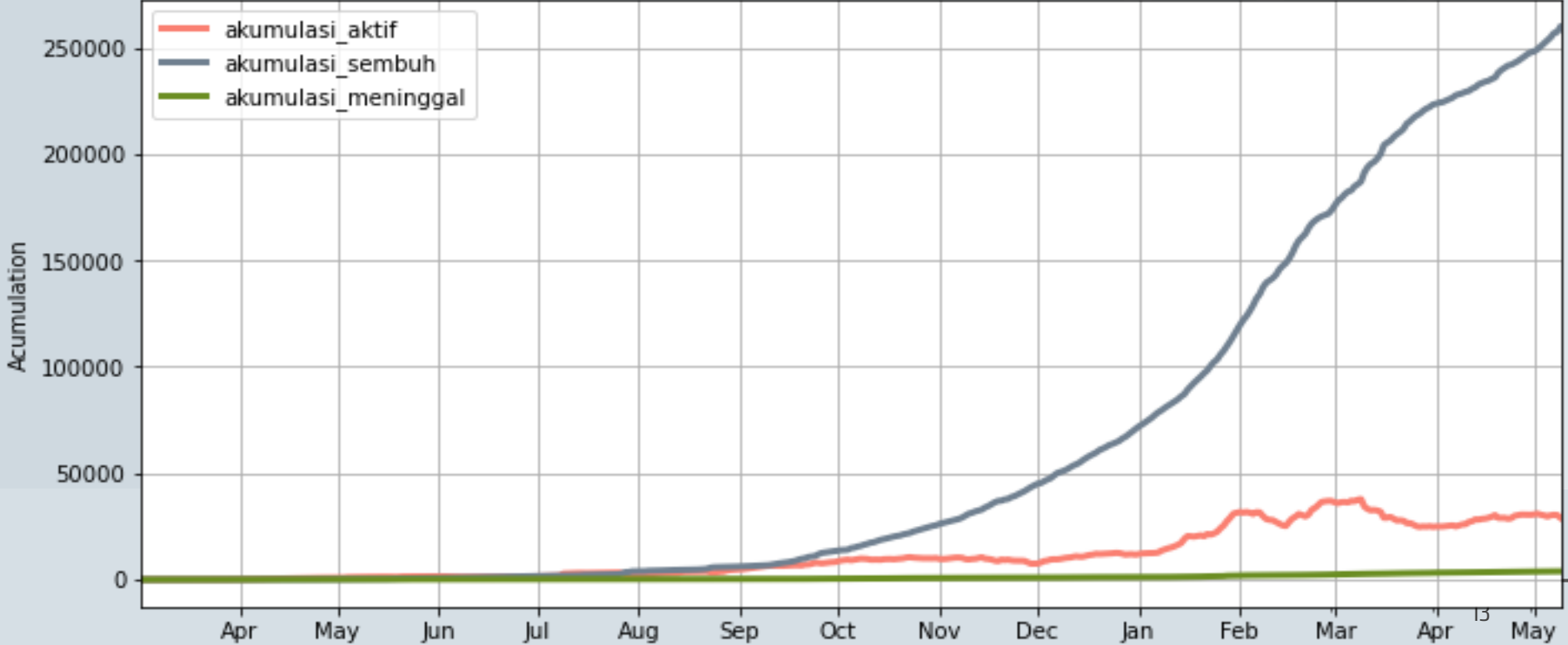
Active patient of COVID-19 in West Java



West Java Have
The Most Active Patient
Middle march 2021

Summary of totals Active,
Recovery and Death

Summary Cases of COVID-19 in West Java



CONCLUSIONS



- Data of Covid-19 in West Java until 18 October Have 292592 Cases, 1.3% Death Rate, and 88.7% recovery Rate
- In the daily Positive cases have the biggest added cases in Early February because of New Cluster
- From March 2021 to April 2021 have the high daily recovery cases and the highest death cases in Early February.
- For the Summary for recovery patient always increased day by day. For the active patient is still out of control because it's never decreased. Maybe it affected by the people and policy if West Java Government

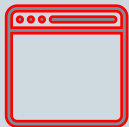
In my opinion The Handling Methods from Government have a important roles to handling COVID-19 cases before we Have Vaccine. Because if the Method was bad, it can make infected people be more increased and Make some people die because of COVID-19

THANKS
DΦLab



Contact me

<https://www.kaggle.com/rizkyhalawi>



<https://github.com/MRHalawi12>



DRAMAGA, BOGOR, INDONESIA



rizkyhalawi@gmail.com

