

COVID-19 THIRD WAVE: FACTS, EMERGING TRENDS & CHALLENGES:

MACHAKOS COUNTY REFERRAL HOSPITAL EXPERIENCE

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INTRODUCTION

- ▶ COVID-19 is an acute respiratory infection caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).
- ▶ Most common clinical presentation is that of a respiratory infection
- ▶ Symptom severity range from a mild common cold-like illness (estimated 80% of cases), to a severe viral pneumonia leading to acute respiratory distress syndrome that is potentially fatal.

FACTS ABOUT THE 3RD WAVE

- ▶ Symptoms includes; dry cough, fever, sore throat, fatigue, loss of taste, loss of smell, myalgia, headache, nausea, vomiting, diarrhea, chest pain, shortage of breath, difficulty in breathing.
- ▶ In critical conditions; acute respiratory distress syndrome, sepsis, renal failure.

FACTS ABOUT THE 3RD WAVE

- ▶ It is real and most patients coming to hospital have severe symptoms as compared to the first and second wave.
- ▶ Most patients present with difficulty in breathing, altered level of consciousness, hyperglycemia, cyanosis and low oxygen saturations.
- ▶ Severe symptoms for the younger people with no comorbidities

MACHAKOS COUNTY STATISTICS IN FEBRUARY



REPUBLIC OF KENYA



GOVERNMENT OF MACHAKOS COUNTY



COVID-19 DAILY UPDATE SUMMARY



TOTAL CASES
2608(+3)
HEALTHCARE WORKERS
122(+0)
RECOVERIES
1113(+2)

DEATHS
85(+2)
WITHIN MKS
48
OUTSIDE MKS
37



ACTIVE CASES IN MKS
12(-4)
NUMBER IN ICU
2(-3)

23rd February 2021

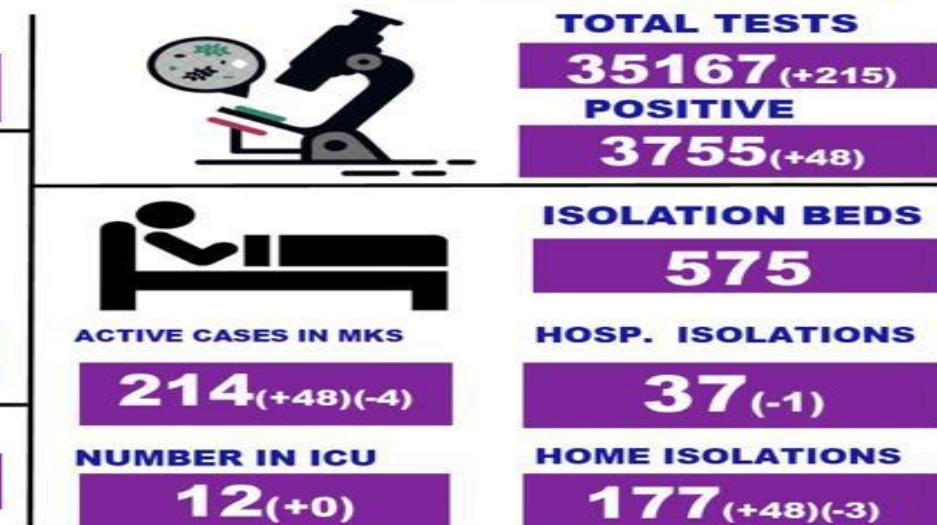
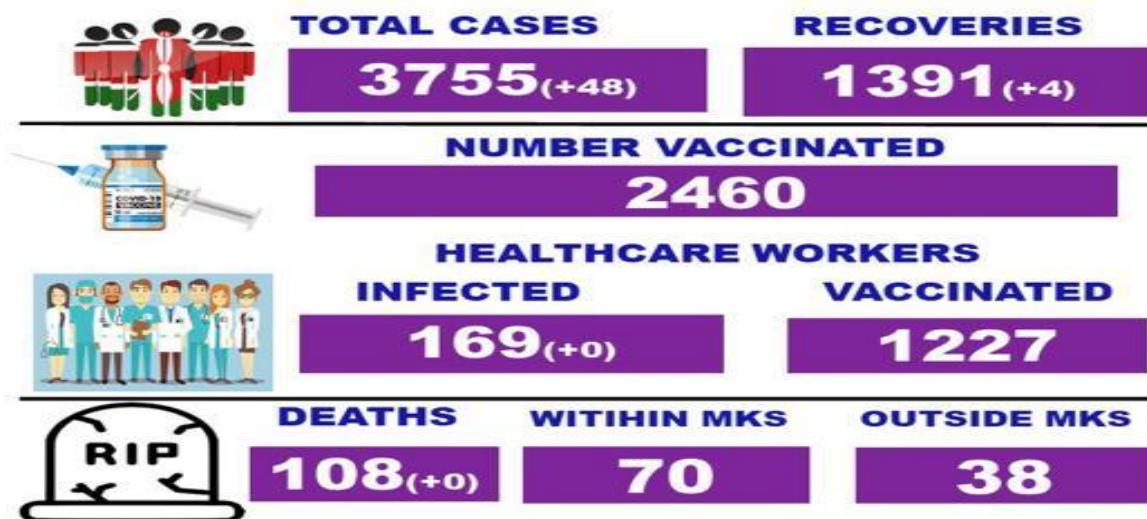
TOTAL TESTS
26431(+97)
POSITIVE
2608(+3)
ISOLATION BEDS
565
HOSP. ISOLATIONS
5(-3)
HOME ISOLATIONS
7(-1)

- One thousand, two hundred and thirty-four positive results obtained at Machakos County Laboratories, the other positive results are from external laboratories and are being managed in facilities outside Machakos county
- Thirty seven people have so far died outside Machakos county and have been buried within Machakos County. Thirty six people died and were interred within the county. Ten people died within Machakos county and were interred outside the county.
- Data for covid-19 patients from external facilities not conclusive.

MACHAKOS COUNTY STATISTICS IN MARCH



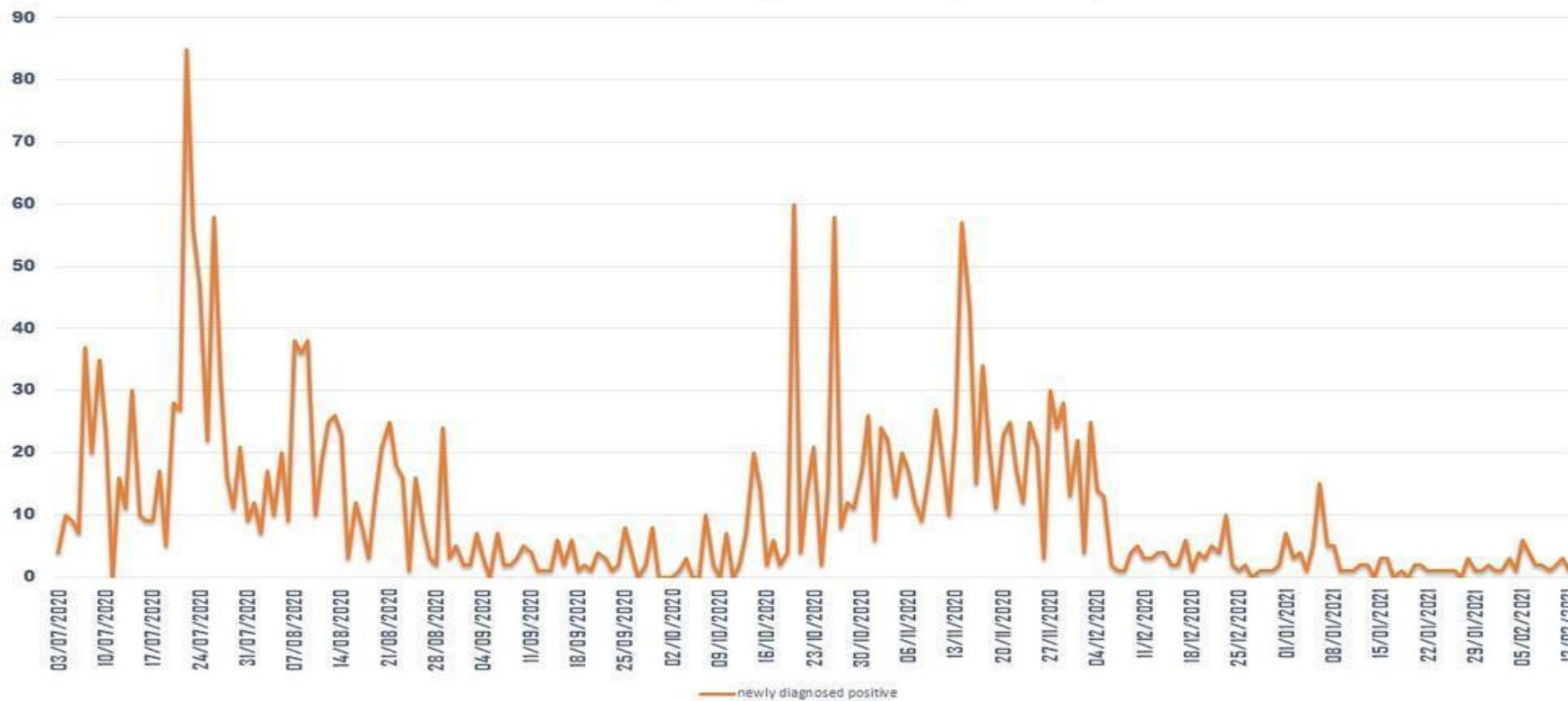
COVID-19 DAILY UPDATE SUMMARY



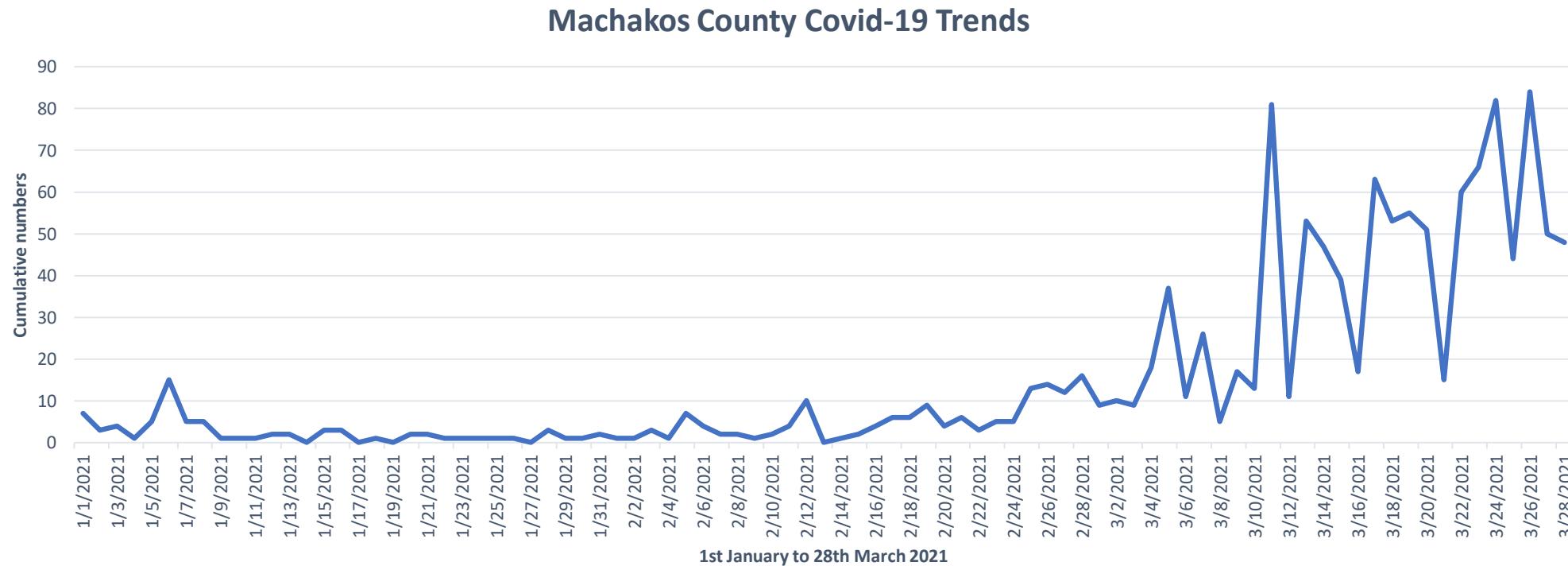
- One thousand, nine hundred and eighty-four positive results obtained at Machakos County Laboratories, the other positive results are from external laboratories and are being managed in facilities outside Machakos County.
- Thirty-eight people have so far died outside Machakos county and have been buried within the County. Fifty-four people died and were interred within the county. Twelve people who died within Machakos county were buried outside the County.
- Data for covid-19 patients from external facilities not conclusive.

MACHAKOS COUNTY COVID-19 TRENDS

Machakos county Daily Covid-19 positivity trend



MACHAKOS COUNTY COVID-19 TRENDS CONT;...



INVESTIGATIONS

- ▶ On admission, IPC measures are observed
- ▶ Both radiological and laboratory investigations are done - OP/NP swabs for both Antigen and PCR, FBC, UECs, Chest X-ray, Chest CT scan.
- ▶ Lymphopenia (Most common in 83% of patients) and neutrophilia
- ▶ Elevated ALT, AST and LDH

INVESTIGATIONS CONT;...

Other Laboratory findings

- ▶ Elevated inflammatory markers (e.g. ferritin, C-reactive protein, and erythrocyte sedimentation rate)
- ▶ Elevated D- Dimers

MANAGEMENT

- ▶ Medical and nursing Management is initiated as results are awaited
- ▶ Mild to moderate symptoms who don't need hospitalization are put under home based care under supervision of the surveillance team
- ▶ Oxygen therapy- for ICU patients both NIV and invasive methods are used.
- ▶ Empirical antibiotics, Vitamin c, zinc sulphate, Clexane, Heparin, Dexamethasone, Paracetamol, Hydration
- ▶ Pregnant women and surgical patients care still continues as per the Covid-19 protocols

CHALLENGES WITH THE 3RD WAVE

- ▶ Increased Covid-19 cases
- ▶ Stigma
- ▶ Supplies running out of stock
- ▶ Lack of ICU space for critical patients
- ▶ Staffing
- ▶ PPEs
- ▶ Disruption of students' placement
- ▶ Uptake of the vaccine by healthcare workers

Thank You