Beat: Health

SCALING UP GENOMIC SEQUENCING IN AFRICA TO DIAGNOSIS TESTS

OVER COVID-19

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USPA NEWS - The world rapidly identified the virus that causes COVID-19 and developed diagnostic tests and other response tools thanks to genomic sequencing. COVID-19 has had a catastrophic impact on lives and livelihoods. But it has also spurred impactful scientific research that gave the world a vaccine in record time and thrust genomic sequencing at the centre of pandemic response. "The world rapidly identified the virus that causes COVID-19 and developed diagnostic tests and other response tools thanks to genomic sequencing, which remains crucial in monitoring the evolution of COVID-19 and identifying variants of concern.In Africa, World Health Organization (WHO) is working with countries to scale up pathogen surveillance through genome sequencing to detect and respond effectively to COVID-19 variants. In 2020, WHO and the Africa Centre for Disease Control and Prevention established a COVID-19 sequencing laboratory network in Africa which has to date produced over 43 000 sequencing data. Source: WHO Africa

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In Africa, World Health Organization (WHO) is working with countries to scale up pathogen surveillance through genome sequencing to detect and respond effectively to COVID-19 variants. In 2020, WHO and the Africa Centre for Disease Control and Prevention established a COVID-19 sequencing laboratory network in Africa which has to date produced over 43 000 sequencing data.Currently, the WHO Regional Office for Africa is collaborating with the South African National Bioinformatics Institute (SANBI) to set up the Regional Centre of Excellence for Genomic Surveillance and Bioinformatics in Cape Town, South Africa. WHO is providing technical support as well as over US\$ 4.5 million for operations in the Southern African Development Community region in the first six months. The centre will initially support 14 southern countries, increasing their sequencing capacity by five-fold monthly before expanding to serve more countries.

The Delta variant, that partly powered Africa's now-subsiding pandemic third wave, has been detected in 39 African countries, while the Alpha and Beta variants have been reported in 45 and 40countries respectively. The Alpha variant has been detected in most countries in North, West and Central Africa, while Beta is more widespread in Southern Africa.

Genome sequencing has the potential to revolutionize public health and transform responses to other major health threats beyond COVID-19. In the past 20 years, it has been used to support public health responses in Africa to HIV, polio, measles, hepatitis B and C, chikungunya, dengue, zika and yellow fever. Experts reckon it has the potential to do much more.

"Routine genetic surveillance should be a part of health systems in Africa. Building this infrastructure must be a top priority for countries going forward," says Dr Gumede-Moeletsi." Apo, WHO Regional Office for Africa.

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