RWANDA BIOMEDICAL CENTRE
1. Structure and Mandate
2. Updates on oxygen therapy improvements”

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Manager of Medical Technology Division

Every Breath Counts Bi-weekly Call, 25th July 2022
During covid19, a well-established system allowed effective communication and case management from the villages up to the National structure, and each level was able to contribute equally from covid19 case tracing, intervention of Rapid Response teams, establishments and utilization of isolations everywhere, engaging different institutions at all levels to support the response activities, etc....
RBC | Organization Structure

DG’s office
DDG’s Office
CFO’s office

Biomedical Services Department (BIOS)
Blood Transfusion Division
Medical Technology Division
National Reference Laboratory

Research, Innovation & Data science Division
SAMU / EMS
Single Project Implementation Unit
Rwanda Health Communication Centre
Corporate Services Division

HIV/AIDS, Diseases Prevention and Control Department (HDPC)
Maternal, Child and Community Health
HIV/AIDS & STIs Division
Public health surveillance & emergency preparedness and response Division
Malaria and Other Parasitic Diseases Division
Mental Health Division
Non Communicable Diseases Division
Tuberculosis and Other Respiratory Diseases Division

MTD’s Vision: To ensure sustainable and equitable access to quality health equipment and infrastructure to improve health service delivery.

Mission: To provide efficient management of healthcare equipment and infrastructure through qualified and sufficient human resources, state-of-art guidelines, standards and processes, and high-standard quality control.
## Major achievements and ongoing efforts to improve oxygen therapy: 2020-22

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<th>TOPIC</th>
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<td>Supply and installation of 26 PSA Plants to increase the production capacity,</td>
<td>Completed at 98%</td>
<td>The production capacity was increased 3-fold, we now have sufficient oxygen for all Public Hospitals and can produce a back up for about 1 month for emergency cases.</td>
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<tr>
<td>Installation and renovations of oxygen piping in Healthcare Facilities</td>
<td>Completed at 48%</td>
<td>Among 52 Hospitals and additional specialized hospitals and medicalized health centres, 25 hospitals are now fully piped.</td>
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<td>Supply and installation of oxygen therapy equipment for diagnostics and treatment purposes</td>
<td>Ongoing</td>
<td>Several equipment were procured and installed across the country, including pulse oximeters, oxygen concentrators, ventilators, CPAP machines, etc</td>
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<td>Supply and installation of ICU, OT and maternal and neonatology equipment to promote proper intensive patients care and safe surgeries as well as maternal and neonatology services</td>
<td>Ongoing</td>
<td>Several equipment were procured and installed across the country, including ICU beds, monitors, infusion pumps, syringe pumps, anesthesia machines, ultrasound machines, incubators, infant warmers, etc.</td>
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# Major achievements and ongoing efforts to improve healthcare services access and delivery: 2020-22

## TOPIC

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<td>Use of technological solutions to manage healthcare services especially in the fight against covid19</td>
<td>Ongoing</td>
<td>Anti-epidemic as well as UVC decontamination robots, using different digital solutions for case management and monitoring (HMIS, Open MRS, EMR, etc.)</td>
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<td>Capacity building of clinical professionals including biomedical engineers</td>
<td>Ongoing</td>
<td>The last 2 years, capacity focused on respiratory care and oxygen service improvements, as well as OT.</td>
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## Major achievements and ongoing efforts to improve Healthcare services access and delivery: 2020-22

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<td>Infrastructure projects completed and equipped</td>
<td>Ongoing</td>
<td>Few Hospitals were completed in the last 2 years, and more are ongoing to improve healthcare services access</td>
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**Hospitals in pipeline in 2022:**
- Masaka Referral Hospital
- National Health Laboratory Services
- A High Level Isolation Unit in Masaka
- Kibagabaga Maternity and Neonatology
- Kacyiru Maternity and Neonatology
- Gisenyi District Hospital
- Muhororo DH
- Nyagatare DH
- Muhima DH
- 6 Health Centres
- Several Health Posts

**Other hospitals under completion:**
- 1 Mobile Field Hospital completed (100 beds)
- Kibogora Maternity and Neonatology
- Kibogora Operating theatre
- Kigeme Hospital
- 7 Health Centres

A 160 bed capacity at Kabgayi, now at 84.5%
A 185-bed capacity at Munini, now operational
A 165-bed capacity at Nyabikenke, now operational

A 160 bed capacity at Kabgayi, now at 84.5%
Future major projects of RBC

Increasing genomic sequencing capacity:
- Maximize the public health impact not only for SARS-CoV-2 but also for future emerging pathogens
- Molecular surveillance of infectious diseases towards elimination (TB, HIV, Malaria, antimicrobial resistance…)
- Support research project samples to reduce shipment of samples for outside labs
- **Long-term:** Expand sequencing to NCDs (cancers)/ population genomics

National Health Laboratory Services:
- State of the art laboratory
- BSL 3/4
- Global collaboration center for advanced research
- Reference Laboratory for World Health Organization

Vaccine Manufacturing:
- Set to start early 2023
- Progressive transfer of technology and skill
Thank you for your attention

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