Systems Strengthening and Service Integration: eThekwiní

Prof Nombulelo Magula
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Pathophysiology of coronary heart disease in patients living with HIV infection

Immunological and Virological response

- **CD4 Cell Count**
- **HIV RNA Load**

Magula et al. 2014
Changes over 24 months follow up

- Weight (kg) and BMI (kg/m²): p<0.0001
- Systolic BP: p<0.0001
- Diastolic BP: p=0.05

Magula et al. 2014
Incidence rate studies of Diabetes or dysglycaemia in HIV infected patients on cART

*incidence rate/100 PYFU

Justman, et.al. 2003
De Wit, et.al. 2008
Brown, et.al. 2005
Ledergerber, et.al. 2007
Capeau, et.al. 2012
Magula, et.al. 2014
Pericardial effusion
XDR TB

This is a case of extensive (also known as extreme) multi-drug resistant tuberculosis (XDR TB). The patient should be referred for specialist opinion.

Authorised by: [Redacted]

-- End of Laboratory Report --
Prednisolone and *Mycobacterium indicus pranii* in Tuberculous Pericarditis

Community Interventions

Calabash Project – UK

Housing Project – US

Support Group Project – SA

Leaving no Child behind Project – SA

Structural Racism data
Dangers of not considering evidence
High risk patients via telephone to be assessed by CHW, WBOT for Clinical severity for those unable to self-drive to facility. Self-drive after telephone to nearest Fever Clinic for assessment on home isolation or health facility isolation.
Opening access to care using Digital Technology

Clairwood Hospital: Point of COVID-19 Infection Triage
Disease Severity: CURB-65

- Primary Health Care Centre
- Community Health Care Centre
- District Hospitals
- Regional Hospitals
- Tertiary Hospitals
- Quaternion Hospital

- Transfer to Clairwood Hospital
  - Organ Support
  - Ventilation
- Transfer to IALCH
  - Organ Support
  - Ventilation
- Transfer to King Edward VIII Hospital
  - Organ Support
  - Ventilation

Requirements:
- Highflow NPO2
- Blood gas Machine
- Ventilators
- Hemodialysis Machines
- Skilled Medical staff

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Disruption of the Healthcare system hierarchy for improved access and efficiency

Integrate interventions that address social determinants of health

- Referrals from WBOT Leader:
  - Finding
  - Counselling and Support
  - Assessment
  - Testing, Treating
  - Monitoring complications markers

- Agriculture, land reform and Rural development, Commercial

- Human Settlement, Water and Sanitation;
  - Communication and Digital Technologies

- Ministry in the Presidency for Women, Youth and Persons with Disabilities;
  - Sports, Arts and Culture, Social Development

- Health Promotion and Disease Prevention treatment, control, rehabilitation and palliative care

Responsible:
- Community Health Workers
- Nurses
- Allied health
- Medical Officers
- Specialists
- Sub-Specialists
- Pharmacists
- Students (Medical, Nursing, Allied Health – Undergraduate and Postgraduate)
- NGOs/INOs
- Partners (PPP)

Support:
- PPP
- Protocols and Guideline
- Standard Operating Procedures
- Staff from one level above for each level

Monitoring:
- Level above each one
- Tertiary center
- Quarternary center

Ward Councillor
- Traditional and Faith based leaders
- Private Sector and Business
- Basic and Higher Education, Science and Technology

Community Health Worker
- Quarternary Center
- Regional/Tertiary Hospital
- District/Regional Hospital
- Community Health Center
- Clinic
- Ward Based Outreach Team
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National Health Insurance
Developing an Integrated Screening Approach

Evaluation of the effectiveness of an integrated screening approach and development of a tool for integrated screening from lessons learnt: A Primary Healthcare Integrated Approach

Dr S’nothile Malinga
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