



Antibiotic Point Prevalence Study Bokamoso Private Hospital June 2017

Part of the Lenmed Group



STUDY DATA COLLECTORS

- Members of DTC , ABS Subcommittee, IPCC
- Included -
 - Laboratory , Pharmacy , Unit Manager, Matron , Deputy Matron , Infection Control Manager, Family Physician, Cardiac Surgeon
- Involvement of -
 - Infectious Diseases Physician, A/E MO , IT
- Data Collection Tools - Patient and Combined

PATIENTS

Total : 63

Day : Wed 14 June

NICU : 3

Consent Yes : 57 - **90%**

PICU : 5

Consent No : 6 - 10%

Paeds : 8

AICU : 15

Ob/Gyn : 7

Med/Surg: **25**

ADMISSION DIAGNOSIS

According to data collection tool -

• NA	42	73%
• PNEU	6	
• ENT	3	
• C SEP	1	
• CNS	1	
• BRON	1	
• IA	1	
• FN	1	
• GI	1	

TYPE OF INFECTION

As in where acquired -

- **NA** **42**
 - **CAI** **14/15** **93%**
 - **HAI** **1/15** **7%**
-
- Bokamoso HAI Rate 2017 : 0 - 1.6 /1000 IPD

READMISSIONS and TRANSFERS IN

Bokamoso receives a significant number of patients from public sector health facilities

- **READMISSIONS**

- YES 5 = **9%**

- NO 52

- **TRANSFERS IN**

- YES 15 = **26%**

- NO 42

EMPLOYMENT STATUS

One third of patients did not have employment status recorded

- EMPLOYED 16 28%
- UNEMPLOYED 23 40%
- UNKNOWN 18 32%

PREVIOUS HOSPITALISATION and ANTIBIOTICS

- Hospitalisation Known : 41 **72%**
 - YES - 20 NO - 21
- Hospitalisation **Unknown** : 16 **28%**

- Previous Antibiotics Known : 28 **50%**
 - YES - 10 NO - 16 NA – 2
- Previous Antibiotics **Unknown** : 29 **50%**

HIV STATUS

Three quarters of patients did not have HIV status recorded

- **Unknown : 42** **74%**
- **Known : 15** **26%**
 - Pos - 7
 - Neg - 8
- **MOHW /NACA > 80% know status**

GENERIC vs BRAND

Most doctors prescribe by generic name except when combination is used

- PATIENTS
 - Generic : 51/57 **89%**
 - Brand : 6/57 **11%**

- ANTIBIOTICS
 - Generic : 72/81 **89%**
 - Brand Name : 9/81 **11%**

BOTSWANA EML or NOT

Nearly all drugs prescribed are drugs listed in the EML

- PATIENTS : Yes : 55/57 **96%**
- No : 2/57 **4%**

- ANTIBIOTICS : Yes : 78/81 **96%**
- No : 3/81 **4%**

PROPHYLAXIS

Prophylaxis = 1 dose or 1 day maximum [exception Orthopaedics]

- **Patients : 21/38** **55%**
- < 1 Day : 5/21 **24%**
- > 1 Day : 16/21 **76%**

- **Antibiotics : 32/81**
- < 1 day : 11/32 **34%**
- > 1 Day : 21/32 **66%**

- **Proposal : Doctor and Nurse CME Sessions**

MISSED DOSES

- **Record of Full Administration : 37/81** **46%**
- **Known Missed Doses : 22/81** **27%**
 - **13 x 1**
 - **7 x 1- 6**
 - **2 x 14-19** ? Verbal D/C
- **Unknown Missed Doses : 22/81** **27%**
- **Proposal : Manual Prescription Chart**

CST RESULTS BY PATIENT

Very few CST tests done overall

Majority of patients uninfected

86% of suspected infected patients had CST.

- PRESCRIBED ANTIBIOTICS FOR SUSPECTED INFECTION 22
- POSITIVE CST 3
- NEGATIVE CST 7
- AWAITED CST 9
- TOTAL PATIENTS WHO HAD CST 19 /22 **86%**

CHANGE TO SENSITIVE ANTIBIOTIC and ORAL SWITCH

- CHANGE TO SENSITIVE ANTIBIOTIC 3/3 **100%**
- ORAL SWITCH 1/1 **100%**

COMMENTS

- Majority - Elective Surgical, Non-Infected Medical
- Dr Tombe - no admissions x 3 weeks
- Dr Kurusa - no admissions x 6 days
- Low Infection Rate : Low CST rates: Low number of CST results
- Minimal opportunity to change antibiotic
- Minimal oral switch opportunity

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Data Collection Team

Hospital Management

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