S1 ANALYSIS. CODING TREE

DATA REDUCTION

| DESCRIPTIVE CODES | | | |
|--------------------------------------|---|--------------------------------------|--|
| Collaboration between health centres | Isolation of MDR-TB exposure | Isolation and patients' behaviour | |
| Development since 2009 | Psychiatry case | Knowledge of TB cases | |
| Disclosure of HIV Status | Quantity of TB drugs | Lack of isolation facilities | |
| DOTS' involvement | Size of drugs and adherence | Notification of TB | |
| Family involvement | Suggestions for better treatment outcomes | OBs and Gynae case and clinical use | |
| Fear of exposure of MDR-TB | Unavailability of TB and HIV medication | Patients attitude to health | |
| Fear of exposure to TB infection | Unclear document and communication | Patients' socio-economic situation | |
| Inadequate health education | Ward stock of TB drugs | Patients' personal TB/HIV medication | |
| Insufficient staff | Disclosure of HIV status | Preparation for discharge | |
| Interns' experience | Isolation and patient exposure | Private and public experience | |

DATA DISPLAY

INFERENTIAL CODES LEADING TO EMERGING THEMES

REVIEWER 1

CLINICAL MANAGEMENT OF TB

- FEAR OF EXPOSURE TO TB INFECTION
 - o MDR-TB
 - Staff and Patients
 - Why?
 - Direct linkages
 - Clinical problems
 - Unclear knowledge of TB patients
 - o Some lying in corridors
 - o Not enough beds
 - Lack of proper isolation facilities
 - Indirect linkages
 - Patients' health-seeking behaviour
 - Inconsistent in-take (concealing drugs) of TB medication in hospital
 - Non-adherence/non-persistent to Treatment at home or at primary care

INADEQUATE HEALTH EDUCATION AND COMMUNICATION BETWEEN STAFF

- o Unclear documentation of TB cases
 - Why?
- Direct linkages
 - No standard procedure or not properly followed
 - Unclear allocation of tasks as to who should teach and when to teach
- o Indirect linkages
 - Insufficient time because of workload
 - Not enough staff
 - No electronic data-base of TB patients
- UNIQUE EXPERIENCES IN PSYCHIATRY AND GYNAECOLOGY AND OBSTETRICS
 - o Psychiatry-how?
 - Proper coordination/team work between staff
 - The nurse takes the leading role in patient education

- Clear documentation of patient information
- Adequate contact with primary care using fax
- Immediate follow-up of patients-linked to referrals category
- Why? Not clear!!!!
- o G & O why?
 - Very aware of the impact of TB on children
 - High-level of index because of reaching MDGs
 - Swift TB notification and dissemination of information

REFERRAL PROCESS

• IMPROPER COLLABORATION BETWEEN HOSPITAL AND REFERRAL CLINICS

- o Why?
- Direct linkages
 - Confusion on who should do more patient education
 - o Inadequate knowledge of patient's socio-economic situation affecting follow-up
 - No clear TB notification
 - o No clear referral information
 - Inadequate transference of information to clinics as a result
- Indirect linkages
 - Patients' understanding of TB information to take charge of continuing treatment
 - Language barrier-Translation of information when treating patients coming from other parts of Africa
 - o Patients and family's involvement in the process not clearly defined or adequate

• SOCIO-ECONOMIC PROBLEMS OF PATIENTS

- o How?
- Direct linkages
 - Poor living conditions
 - Lack of family support
 - o inadequate understanding of TB message due to low educational level
- Indirect linkage
 - o Poor health-seeking behaviour
 - Inadequate dissemination of patient housing location

SUGGESTIONS FOR BETTER TREATMENT OUTCOME

Clinical management of TB

TB referrals/discharge planning

- Proper communication between staff treating TB patients-doctors and nurses
- Health care workers need to spend more time with patients-get to know their situation-be more empathetic
- Adequate communication between hospital and day clinic
- Have a TB coordinator/counsellor to coordinate TB referrals and link between the hospital and clinics, organises
- Standardise TB education/information in a form of checklist/template
- Electronic data-base storing patient details

DATA DISPLAY

INFERENTIAL CODES LEADING TO EMERGING THEMES

REVIEWER 2

CARE MANAGEMENT PROCESS FEAR OF EXPOSURE TO TB INFECTION

- MDR-TB
- o Staff and patients occupational and environmental exposures
- Clinical challenges
- o Unclear/incomplete clinical/patient records
- o Lack of beds and respiratory isolation facilities
- Low index of TB suspicion
- o Poor role modelling
- Patient health-seeking behaviour
- o Concealment of TB diagnosis/treatment
- o Poor treatment and isolation adherence in hospital
- o Poor treatment adherence at home or PHC

INADEQUATE TB EDUCATION AND SUPPORT FOR PATIENTS

- Task shifting and not sharing
- o Unclear understanding of roles, responsibilities and requirements
- No standard approach for TB "induction" of patients
- Insufficient time
- o Workload
- o Inadequate number of staff (and with TB expertise)
- Lack of health promoting resources
- Printed material and DVDs
- o Language and health literacy barriers

INADEQUATE TB COMMUNICATION BETWEEN STAFF

- Poor documentation and coordination
- o Absence/unclear documentation of TB cases (suspect/confirmed)
- o Partial handover on patient admission/transfer
- o Poor notification of TB cases
- o No electronic hospital database of all patients with TB
- Hierarchy and territory
- Perceived professional parameters
- Reluctance to track electronic results
- Averseness to consult/confront the "other"

REFERRALS/DISCHARGE PROCESS

POOR DISCHARGE PLANNING

- Lack of person-centredness and preparedness
- Inadequate assessment/knowledge of socio-economic conditions
- o Scanty patient/family/carer involvement in planning
- Limited multi-disciplinary team consultation
- Lack of linguistic and health literacy considerations
- Deficient discharge information/instructions to patients/carers
- Insufficient collaboration between hospital and referral points
- o PHC level not included in discharge planning process
- o Unclear and/or incomplete discharge/referral information
- Void of feedback on patients accessing PHC following discharge

SOCIO-ECONOMIC CONDITIONS OF PATIENTS

- Poor living conditions
- o Poverty
- o Conflicting survival priorities
- Lack of family/carer support
- Perpetual TB exposure (returning to "pool of infection")
- Health literacy and agency
- Low education level
- o Poor health seeking behaviour
- o Submissive recipients of care
- Strengthen TB-IPC
- Role modelling with accountability
- Designated respiratory isolation facilities/wards
- Rapid TB notification and contact screening
- Sustain high index of suspicion ("TB in all")
- Improved communication and coordination at and across hospital and PHC levels
- > Role and responsibility clarification
- > Enhanced standard of documentation and verbal communication
- > Standardised TB documentation and procedures
- > TB Discharge Checklist/template
- > Electronic TB database
- > TB Coordinator/counsellor to manage person-centred CoC
- > Early involvement of/notification to PHC referral point
- Improved TB education for patients and staff
- Integrate time in nursing care plan for patient health education
- Health promoting resources for patients/families/carers
- Sustained in-service training of broader aspects of TB care for multidisciplinary healthcare staff (day, night and agency workers)
- Person-centred discharge planning
- Assessment of socio-economic conditions (barriers and enablers)
- Assessment of and respond to linguistic and health literacy requirements
- > Early engagement of patient and family/carer
- Promote patient agency

VERIFYING CONCLUSIONS AND KEY THEMES BY BOTH REVIEWERS

| CATEGORIES | KEY THEMES | SUB-THEMES |
|---------------------------------|--|---|
| Care Management | Fear of exposure to TB infection | MDR-TB (Multidrug-Resistant TB) |
| Process | | Clinical challenges |
| | | Patient health-seeking behaviour |
| | Task shifting and not sharing | Insufficient time and staff shortage |
| | | Lack of health education resources |
| | Poor documentation and coordination | |
| | Hierarchy and territory | |
| Discharge and referral process | Poor discharge planning | Lack of patient-centeredness and preparedness |
| | | Insufficient collaboration between hospital and referral points |
| | Socio-economic conditions of the patients | Poor living conditions |
| | patients | Health literacy and personal agency |
| Participant recommendations for | Strengthen TB-IPC | |
| health system actions | Improved | |
| | communication at and across | |
| | hospitals and PHC levels | |
| | Improved TB education for patients and staff | |
| | Patient-centered | |
| | discharge planning | |