

Understanding the management of TB-like illness in the private sector

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science & innovation

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Science and Innovation
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Background

TB is a leading cause of death in South African (SA)

TB control requires identifying early and treating effectively infected individuals

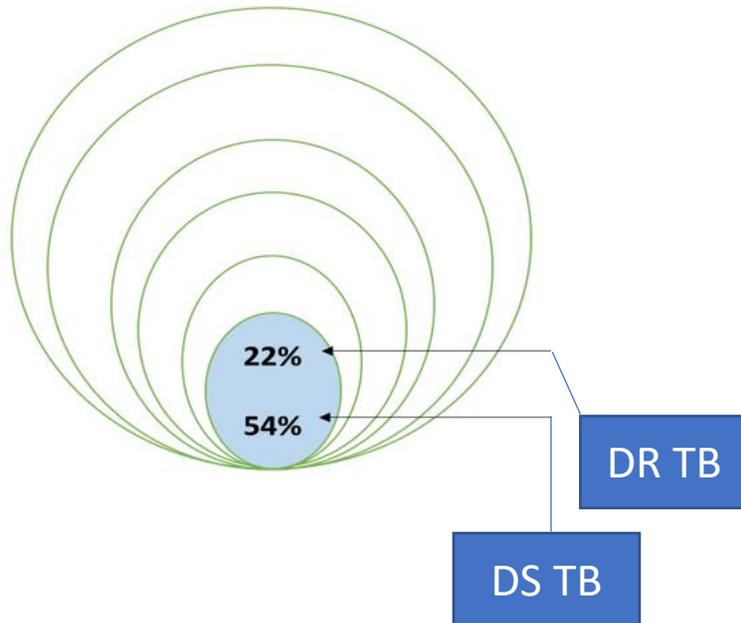
Antibiotic use can cause diagnostic delay, risk of death, transmission and drug-resistance

29% of people with TB-related symptoms first present to private general practitioners (GPs) (Chin & Hanson, *JID*, 2017)

Little is known about TB management in the private sector

Objectives and Approach

Treated / cured outcomes of the TB cascade in SA



Objectives

To describe the quality of TB and HIV care among GPs, using the Standardised Patient method

Standardized patient:
An “actor” trained to systematically present a complaint or set of symptoms in real clinical settings

To qualitatively assess the social and behavioral factors associated with quality of care

In-depth interviews
30 GPs in 2 cities,
Purposively chosen to vary by age, sex, ethnicity, and location

Age

How well managed TB & HIV

Gender

Practice setting

BMJ Global Health

Quality of care for tuberculosis and HIV in the private health sector: a cross-sectional, standardised patient study in South Africa

Jody Boffa ^{1,2}, Sizulu Moyo, ^{3,4} Jeremiah Chikovore ⁵, Angela Salomon, ⁶ Benjamin Daniels ⁷, Ada T Kwan, ⁸ Madhukar Pai ⁶, Amrita Daftary ^{1,9,10}

BMJ Global Health

Prescribing practices for presumptive TB among private general practitioners in South Africa: a cross-sectional, standardised patient study

Angela Salomon ^{1,2}, Jody Boffa, ^{3,4} Sizulu Moyo, ^{5,6} Jeremiah Chikovore ⁵, Georgia Sulis ^{2,7}, Benjamin Daniels ⁸, Ada Kwan, ⁹ Tsatsawani Mkhombo, ¹⁰ Sarah Wu, ¹¹ Madhukar Pai ^{2,7}, Amrita Daftary ^{12,13}

Ethical issues and analysis

Ethics

Approval from HSRC
Research Ethics Committee
and McGill University
Ethics Board

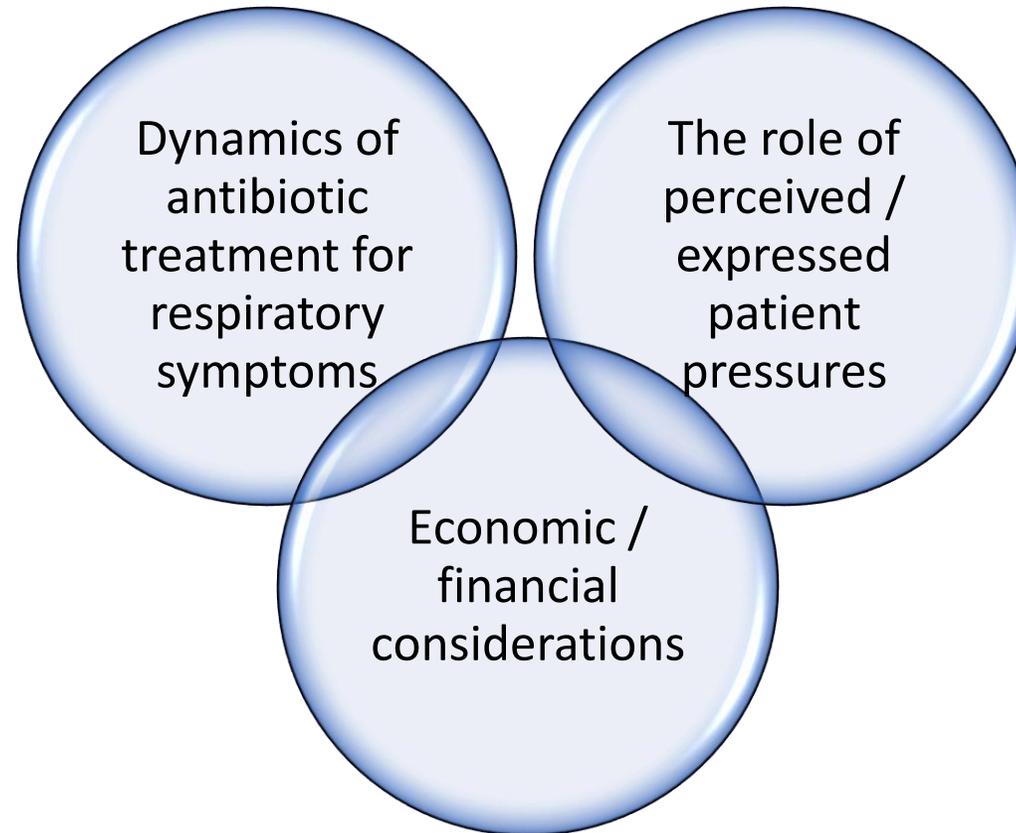
Informed consent sought
from GPs; Anonymity and
confidentiality were
maintained

Analysis

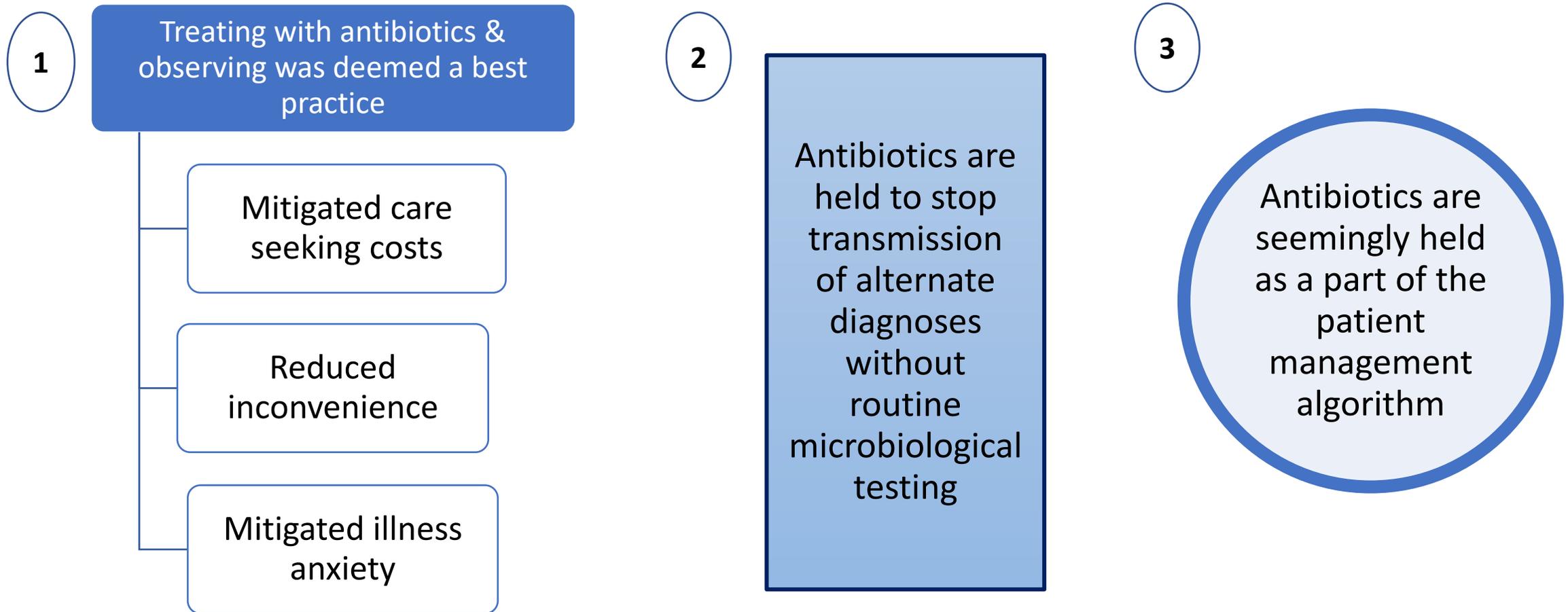
Was both iterative
and deductive;
Multiple analysts for
confirmatory views

Identified emerging
concepts, merged
them using constant
comparison into
themes

Emerging themes regarding dynamics of management decisions for TB-like illness



Antibiotic treatment for respiratory symptoms is common



Antibiotics used to pre-empt community spread of 'unidentified infection'

“Again it’s... we don’t have the resources to test for infection ... but I bet you this patient is gonna go home ... 15 people in one house... chances of contact with the bacteria are very high... and you gonna say, ‘Let me take your sputum now to test... and you’ll return (for results)’?... Its not gonna work.”

Male, mid 50s

Antibiotics perceived as a central part of the diagnostic algorithm

“best ... is to treat the basic things ... cover broadly ... use an antibiotic injection and give some oral antibiotic... So, say I was treating for bronchitis; if you're not improving after 5 days -- I've given you a strong antibiotic, ... an injection -- the next thing let's do a sputum, let's do an X-ray... always the basic things then advance or refer after”.

Female, late 30s

“(If) their mark is suggesting bacterial. ... obviously they need an antibiotic, so we give them... usually something penicillin-based ...and obviously if it's not improving -- you know, once we hit the two-week sort of barrier -- then you worry about TB”

Female, mid 30s

A complex emerging picture of management approaches and antibiotic dispensing



From 1 participant

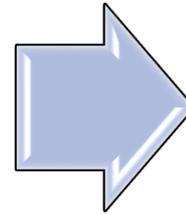
A wide interpretation of guidelines, at times, even when TB is suspected

With TB you'll suspect from the outset. One comes in saying, "I've used everything... it's 3 weeks now ... month maybe. ... I'm losing weight, ... appetite ... feeling weak. Now I'm starting to cough blood, I'm having night sweats," And you're thinking, **Okay, I should continue (with TB) ...** But the protocol is at least I should give antibiotics for a week, simple infections like pneumonia, bronchitis etc. should clear on good antibiotics. We then assess again.' (if) still unwell, I then write a (referral) letter."

Male, mid 30s

Patient pressure for antibiotics: Some GPs accede but generally they resist

“sometimes they would ask ... and we should be able to provide them with that ... They don't (necessarily) demand anything, but I think they expect certain medicines ... instead of giving them a script, go to a pharmacy ... most of the cash people wouldn't be happy about it ... I mean the sooner you think about the GP practices: you cannot confirm with each patient exactly what sort of bacteria... we don't do microbiology ... you can't do sputum and swabs on everyone, you sort of use your discretion ... and cover in broad (terms) what you (think you) can.” **Male, 50s**



“...speak to them strongly that we don't want to cause resistance because that's a big thing in our country.... They may not like it, but you must be firm ... 'next time you're sick the injection won't work if you take it for every flu and small thing.' ” **Female, late 30s.**

Enhancing patient care and inconvenience

“In general, we try to give our patients the facility of getting everything here and save them the trouble of getting medicines from the chemist... there are some who do not always have transport ... we tend to be compassionate towards the patient.” **Male, 60s**

Conclusions and implications

Empirical antibiotic use is widespread and driven by complex intersecting factors

It leads to delayed diagnosis, elevated patient costs and inconvenience, and potential for drug resistance

Consider strategies to elevate salience of TB to GPs during consultations

Consider availing microbiological testing within reach of GPs

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