MANAGEMENT OF PULMONARY AND LYMPH NODE TUBERCULOSIS IN CHILDREN, IN THE PRIVATE SECTOR IN MUMBAI



Tata Institute of Social Sciences Deonar, Mumbai 400088

INTRODUCTION AND INFORMED CONSENT FORM

To, Dr,
Hello, my name is Dr. Carolyn Tauro. I am studying Master of Public Health at Tata Institute of Social Sciences (TISS), Deonar. As part of the course I am required to do a dissertation. I will be studying the management of childhood TB in the private sector and need your help for this. Your participation and contribution towards this study will be very valuable.
The study will be a cross sectional one involving paediatricians in Mumbai. The questionnaire will take about half an hour to answer and can be filled in at your convenience. All information you provide will be kept strictly confidential with no revelation of your identity in any manner. Participation in this survey is voluntary and if you choose to participate, you may withdraw at any time. Although answering this questionnaire may not benefit you directly, it will contribute greatly toward the management of tuberculosis in the field of public health. There will be no compensation given for participation. However, I hope that you will take part in this survey since your participation is important.
You are free to ask me any questions before making your decision. You may also contact my research guide, Dr. Nilesh Gawde, in case of any further query, on nilesh.gawde@tiss.edu . In case of query while answering the questionnaire, you may contact me on ck.tauro@gmail.com .
Consent note from Dr.
I, Dr, have read the above details of the study. I am aware that this study is based on the management of childhood TB in the private sector.
I have clarified any doubts that I had and I consent to participate in this study.
Date: Signature of participant:
Serial no.: Name of participant:

Que	estionna	ire for Paediatı	icians treat	ing TB in the private	e sector	Serial no
		SECTION I: GE	NERAL DETA	<u>ILS</u>		
	(i)	Age:		years		
	(ii)	Qualification:		_		
	(iii)	Total number	of years of ex	perience:	years	
	(iv)	Experience:	(c) Charital	practice _ ment practice _ ole trust/NGO _ nic Institution _	years years years years years	
	When do	ON II: DIAGNOSI you suspect tube	erculosis in a	child?		
_						
o y lı	of these w	yould you advise l ask for investige f Name of in	in all patient	ts and which for only		n(s) for work up: (Which condition If for some, explain for which condition
1				(prease tien)	(picase tien	Tot Willer Condition
2						
3	3.					
4						
5						
6						
7						
8						
9	.0.					
(3) C	o you as	obulin testing al	oove).	? (Skip this question a	nd move to Qn. (4) if alre	ady included
	B. No, I d	•				

(5)	In o	children who aren't able to produce sputum, what do you do next?:
	A.	Start treatment anyway

- B. Do a CBC and ESR and then start treatment
- C. Do a Mantoux test and then start treatment
- D. Induce sputum by Gastric lavage or Bronchial alveolar lavage and send for sputum testing and then start treatment

E.	Do		(please specify test)	and then start treatment
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- (6) In all children with tuberculosis, I further test for HIV:
 - A. Yes, I do
 - B. No, I do not
 - C. I do, only in some children, depending on case history
- (7) When a child is diagnosed with having TB, I
 - A. treat the patient myself
 - B. refer the patient to nearest Government hospital
 - C. refer the patient to a TB expert
- (8) When I suspect a child with *Lymph node TB*, I send the following investigation(s) for work up: (Which of these would you advise in all patients and which for only some patients? Please explain in which condition you would ask for investigations only in some patients)

In order of	Name of investigation	For all patients	For some patients	If for some, explain in
preference		(please tick - √)	(please tick - √)	which patients
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

SECTION III: TREATMENT

- (9) For children exposed to an infectious case of tuberculosis in their family, I advise one or more of the following (Tick as many as applicable):
 - A. Keep away child from the infectious person(s)
 - B. Screen the child and treat if tuberculosis is diagnosed
 - C. Screen other family members for tuberculosis
 - D. Screen the child and then give chemoprophylaxis with general antibiotics for 2 weeks
 - E. Screen the child and then give chemoprophylaxis with Isoniazid for 6 months
 - F. Nothing needs to be done
 - G. Change in diet

H. Others (please specify):	
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(10)What is the average number of new cases of TB you register for treatment in a month?	_
(11) What is the average number of new cases of MDRTB you register for treatment in a month?	

(12)How do you treat a child with tuberculosis?

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۱.	JUECHV	LIIC	Halles	OI LIIC	urues	vou use.	LIIC	HUHHDEL	OI.	DIIGSES	anu	uusae	C3 UI	1115	HEUICH	ıcəı

Treatment episode	Phase (intensive,IP/	Name of drugs (use symbol)	Dosage (mg/kg)
number	Continuation,CP)		
1 st			
If first treatr	ment fails		
2 nd			
_			
If second tr	eatment fails		
3 rd			
Codes for sor	ma duuge. Cm. Canraam	vision of Cinerallavasia Clar Clarither	omycin, Cs- Cycloserine, E – Ethambutol,
			x – Moxifloxacin, Of- Ofloxacin, Z – Pyrazinamide,
			- Rifabutin, S- Streptomycin, Tzd – Terizidone,
T – Thioaceto	azone, Tzn - Thioridazin	e, Arginine (Arg)	
/42\A. b			
(13)At what A. Dail	frequency do you pro	escribe medications?	B. On alternate days
A. Dali	у		B. On alternate days
(14)Do you	advise interruption of	f treatment in the presence of sid	e effects?
A. Yes,			go to Qn. (15)
B. No,	I do not		go to Qn. (16)
41.4			
	•	of treatment, please specify:	
- (i)	For which side effects	s and for what time period?	
(ii)			
(iii)			
. ,			
		men in the presence of side effec	
A. Yes,			go to Qn. (17)
B. No,	I do not		go to Qn. (18)

(17)If you do advise,	change in regimen, please specify:	
- For which	ch side effects and what change in r	regimen?
(i)		
()		
(18) Do vou ever use	steroids in children with tuberculos	sis?
` ' '	oids in children with (please specify	
7 11 1 CO) 1 GOC SCC1	sias in cimaren with (picase specify	
B. No, I never us	e steroids.	
(19) When I am certa	in that a patient is not likely to be a	adherent, I choose the following drug regimen:
A. The same regi	imen as mentioned in Qn. (12).	
В.	. ,	
(20) For children with	n TB, also co-infected with HIV, the	regimen I prescribe is:
` '	as mentioned in Qn. (12).	regiment presente is:
B.		Docago (mg/kg)
D. Dhase (ID/CD)	Name of drugs	Dosage (mg/kg)
Unaco (IU/(U)	THEO EVIMBALL	

D .	rtaine or arags	200085 (1118) 118)			
Phase (IP/CP)	(use symbol)				
Codes for some drugs: Cm- Capreomycin, Cf- Ciprofloxacin, Clr – Clarithromycin, Cs- Cycloserine, E – Ethambutol,					
Eto- Ethionam, H- Isoniazide (INH), Lzd – Linezolid, Lf- Levofloxacin, Mfx – Moxifloxacin, Of- Ofloxacin, Z – Pyrazinamide,					
P- Para amino salicylic	acid (PAS) Pto - Prothionamide R-Rif	ampicin Rf – Rifabutin S- Streptomycin Tzd – Terizidone			

P- Para amino salicylic acid (PAS), Pto – Prothionamide, R-Rifampicin, Rf – Rifabutin, S- Streptomycin, Tzd – Terizidone, T – Thioacetoazone, Tzn - Thioridazine, Arginine (Arg)

(21) In case of co-morbidities with any of the following diseases, what changes to you make in the regimen: A. I do not make any changes in the regimen

1	v		
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•	_	•	

Disease	Phase (intensive,IP/ Continuation,CP)	Change in regimen Use symbols	Dosage (mg/kg) (specify dosage, only if different from that mentioned above)
Diabetes			
Liver Disease			
Renal Disease			
Pneumonia			
Malnutrition			

Codes for some drugs: Cm- Capreomycin, Cf- Ciprofloxacin, Clr – Clarithromycin, Cs- Cycloserine, E – Ethambutol, Eto- Ethionamide, H- Isoniazide (INH), Lzd – Linezolid, Lf- Levofloxacin, Mfx – Moxifloxacin, Of- Ofloxacin, Z – Pyrazinamide, P- Para amino salicylic acid (PAS), Pto – Prothionamide, R-Rifampicin, Rf – Rifabutin, S- Streptomycin, Tzd – Terizidone, T – Thioacetoazone, Tzn - Thioridazine, Arginine (Arg)

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	fore the child starts with anti-tubercular treatment, I take the following steps to ensure adherence (please , as elaborately as possible):
(23) Sc	ome of the challenges patients face that hinder adherence and completion of treatment could include: (Tie
	y as apply)
	Patient's cultural setting
	Patient's living circumstances
	Severe drug reactions
D.	Asymptomatic nature of some patient's condition
E.	Lack of effective social support for the patient and family
F.	Complex treatment regimen
G.	Severe adverse effects of the drugs
Н.	Forgetfulness or lack of motivation of the mother
I.	Other issues such as drug abuse, depression etc.
J.	I think steps need to be taken to ensure adherence even in the above setting or possibilities
K.	They cannot afford to complete treatment due to financial restrictions
L.	Please specify others, if any:
(24)\W}	nat do you do/can be done to improve adherence in patients?
(27) ***	at do you do, can be done to improve dunerence in patients.

SECTION V: FOLLOW UP

(25)After the start of treatment, which investigations do you advise for the follow up? How often do you advise them?

- A. I do not advise any follow up investigation
- B. I advise the following:

Name of investigation	Frequency (every week/month etc.)

(26)At the end of treatment, which investigation do you advise?

- A. I do not advise any investigation at the end of treatment
- B. I advise the following:

	Name of investigation
1.	
2.	
3.	
4.	
5.	

(27)When do you decide to stop treatment?	
 (28)When do you suspect a patient is failing treatm I suspect a patient is failing treatment in the I do the following next: A. Change the regimen B. Send for culture investigations C. Test for HIV if not done before D. Refer to TB expert at a private or government E. Others (please specify): 	month after treatment has commenced. ent health set up
SECTION VI: DRUG RESISTANCE	
B. At persistence of symptoms despite of beir	t month of treatment with ATT. ng compliant, at month of treatment with ATT. omatic patients, at month of treatment with ATT
(30)What is your next step of action?	
A. Investigate further at; please specify name	
Name of investigation	Name of laboratory
B. Refer the patient(please specify where you	ı refer):
(31)How do you diagnose MDRTB?	
 (A) Based on clinical findings alone (B) Based on Bacteriological results alone (C) Based on radiological findings alone (D) Based on Clinical and radiological findings (E) Based on Clinical and Bacteriological findin (F) Specify others, if any: 	go to Qn. (34) go to Qn. (32) go to Qn. (34) go to Qn. (34) go to Qn. (34) go to Qn. (32)
(32)If you request bacteriological investigations, where the tests are done):	hich ones do you ask for? (Please tick as many as applicable,
A. Solid medium at	
B. Liquid medium at	
C. GeneXpert at	

(33) For which drug(s) do you commonly request sensitivity tests? (Tick as many as apply)

Name of drug	√/×	Name of drug	√/×	Name of drug	√/×
Steptomycin		Levofloxacin		Ethionamide	
Isoniazid		Kanamycin			
Rifampicin		Amikacin			
Pyrazinamide		Capreomycin			
Ethambutol		Paraamino salicylic acid			
Ofloxacin		Cycloserine			

(34) If	I have a patient who is diagnosed as having MDRTB, I:	
A.	Continue treatment with initial set of drugs	go to Qn. (38
В.	Treat with another set of drugs	go to Qn. (35
C.	Refer the patient to another setting (specify where)	mgo to Qn. (38)
D.	Others (please specify)	go to Qn. (35

(35) What change in regimen do you prescribe for MDRTB patients?

Phase (intensive,IP/ Continuation,CP)	Name of drugs (use symbol)	Dosage (mg/kg)

Codes for some drugs: Cm- Capreomycin, Cf- Ciprofloxacin, Clr – Clarithromycin, Cs- Cycloserine, E – Ethambutol, Eto- Ethionamide, H- Isoniazide (INH), Lzd – Linezolid, Lf- Levofloxacin, Mfx – Moxifloxacin, Of- Ofloxacin, Z – Pyrazinamide, P- Para amino salicylic acid (PAS), Pto – Prothionamide, R-Rifampicin, Rf – Rifabutin, S- Streptomycin, Tzd – Terizidone, T – Thioacetoazone, Tzn - Thioridazine, Arginine (Arg)

- (36)After the start of MDRTB treatment, which investigations do you advise for the follow up? How often do you advise them?
 - A. I do not advise any follow up investigation
 - B. I advise the following:

Name of investigation	Frequency (every week/month etc.)

SECTION VII: RECORD KEEPING AND NOTIFICATION (38)Is Tuberculosis a notifiable disease? A. Yes B. No C. I Don't know (39)In case a new tuberculosis patient is detected, I notify the same to the nearest local authorities (Nodal Public Health Authority): A. Yes B. Sometimes B. Sometimes B. No, I don't think it makes a difference B. Sometimes B. No, I didn't know TB has been made a notifiable disease B. No, I didn't know TB has been made a notifiable disease B. No, I am not aware that there is a web-based notification (online) for Tuberculosis? A. Yes, I am B. No, I am not aware (41)How many cases (number and percentage of all TB cases) have you notified to the Nodal Public Health Authority in the past one year? B. No, I am not aware (42)If your answer to question (39) is C or D, why do you not notify TB? SECTION VIII: OTHERS (43)What are some of the challenges you face as a paediatrician in treating Tuberculosis? With the regimens: With the regimens: With the investigations: Others (please mention elaborately): (44) Have you been trained with Revised National Tuberculosis Control Program (RNTCP) on the management of Tuberculosis? A. Yes, I have B. No, I have not (45) In case of any doubt, which guidelines do you refer? A. I do not refer to any guidelines B. I refer to the following guideline(s)	(37)When do you decide the patient is "Cured?" I consider the patient "Cured" at months, when	
A. Yes B. No C. I Don't know (39)In case a new tuberculosis patient is detected, I notify the same to the nearest local authorities (Nodal Public Health Authority): A. Yes B. Sometimes S	SECTION VII: RECORD KEEPING AND NOTIFICATION	
B. No C: I Don't know (39) In case a new tuberculosis patient is detected, I notify the same to the nearest local authorities (Nodal Public Health Authority): A: Yes		
C. I Don't know (39)In case a new tuberculosis patient is detected, I notify the same to the nearest local authorities (Nodal Public Health Authority): A. Yes		
Health Authority): A. Yes		
B. Sometimes		to the nearest local authorities (Nodal Public
C. No, I don't think it makes a difference D. No, I didn't know TB has been made a notifiable disease	A. Yes	
D. No, I didn't know TB has been made a notifiable disease		go to Qn. (40)
(40) Are you aware that there is a web-based notification (online) for Tuberculosis? A. Yes, I am B. No, I am not aware (41) How many cases (number and percentage of all TB cases) have you notified to the Nodal Public Health Authority in the past one year?	·	
A. Yes, I am B. No, I am not aware (41)How many cases (number and percentage of all TB cases) have you notified to the Nodal Public Health Authority in the past one year?	D. No, I didn't know TB has been made a notifiable disease	go to Qn. (42)
B. No, I am not aware (41)How many cases (number and percentage of all TB cases) have you notified to the Nodal Public Health Authority in the past one year?		r Tuberculosis?
(41)How many cases (number and percentage of all TB cases) have you notified to the Nodal Public Health Authority in the past one year?	•	
(43)What are some of the challenges you face as a paediatrician in treating Tuberculosis? - With the patient: - With the regimens: - With paediatric formulations: - With the investigations: - Others (please mention elaborately): - Others (please mention elaborately): - Tuberculosis? A. Yes, I have B. No, I have not (45)In case of any doubt, which guidelines do you refer? A. I do not refer to any guidelines	Authority in the past one year?	go to Qn. (43)
 With the patient: With paediatric formulations: With the investigations: Others (please mention elaborately): (44) Have you been trained with Revised National Tuberculosis Control Program (RNTCP) on the management of Tuberculosis? A. Yes, I have B. No, I have not (45)In case of any doubt, which guidelines do you refer? A. I do not refer to any guidelines 	SECTION VIII: OTHERS	
 With paediatric formulations:		reating Tuberculosis?
 With paediatric formulations:	- With the regimens:	
- With the investigations: - Others (please mention elaborately): - (44) Have you been trained with Revised National Tuberculosis Control Program (RNTCP) on the management of Tuberculosis? - A. Yes, I have - B. No, I have not (45)In case of any doubt, which guidelines do you refer? - A. I do not refer to any guidelines	- With paediatric formulations:	
 (44) Have you been trained with Revised National Tuberculosis Control Program (RNTCP) on the management of Tuberculosis? A. Yes, I have B. No, I have not (45)In case of any doubt, which guidelines do you refer? A. I do not refer to any guidelines 	- With the investigations:	
Tuberculosis? A. Yes, I have B. No, I have not (45)In case of any doubt, which guidelines do you refer? A. I do not refer to any guidelines	- Others (please mention elaborately):	
A. I do not refer to any guidelines	Tuberculosis? A. Yes, I have	crol Program (RNTCP) on the management of
	A. I do not refer to any guidelines	

(46)How do you update yourself on latest information	on trea	tment of TB?	
(47)What according to you, could help in improving inf	ormatic	on access about	TB for paediatricians like yourself?
			END OF QUESTIONNAIRE
ACKNOWLEDGEMENT TO THE DOCTOR: I would like to thank you, information regarding the management of TB in ch			cooperation in sharing valuable
RESPONDENT AGREES TO BE INTERVIEWED RESPONDENT DOES NOT AGREE TO BE INTERVIEWED REPONDENT DOES NOT TREAT TB	1 2 3	Date	(dd/mm/yy)