

Identifying Missed Opportunities For Preventing TB

A Resource For TB Programs



New Jersey Medical School **National Tuberculosis Center**

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For Preventing TB

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A c k n o w l e d g e m e n t s

The New Jersey Medical School National Tuberculosis Center wishes to thank the following individuals for their consultation and support of this project:

- John Bernardo, M.D.
- Claire Murphy, R.N., M.S.N.
 Boston Public Health Commission
- Naomi Bock, M.D. Centers for Disease Control and Prevention
- Paul Colson, Ph.D.
- Bill Bower, M.P.H.
 Charles P. Felton National Tuberculosis Center
- Andrea Green-Rush, M.L.I.S. Francis J. Curry National Tuberculosis Center
- Mike Holcombe, M.P.P.A.
 Mississippi State Department of Health
- Kathleen Moser, M.D. San Diego Health and Human Services Agency
- Masae Kawamura, M.D.
 San Francisco Department of Health
- Carol Pozsik, R.N., M.P.H.
 South Carolina Department of Health
- Jimmy Keller, M.A.
 Ohio Department of Health

- Rajita Bhavaraju, M.P.H., C.H.E.S.
- Lorna Cunningham, R.N.
- Marie Derisse, R.N.
- Debra Kantor, Ph.D.
- Bonita Mangura, M.D.
- Eileen Napolitano
- Alfred Paspe
- Lillian Pirog, R.N., P.N.P.
- Judy Thomas, R.N.
- Suzanne Tortoriello, R.N., P.N.P.
- Dianne Washington, R.N. New Jersey Medical School National Tuberculosis Center
- Document prepared by: Chris Hayden
- Graphic Design: Karen Forgash

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This document may be accessed in PDF format from the New Jersey Medical School National Tuberculosis Center's website:

http://www.umdnj.edu/ntbcweb From within the PDF format, users can link to files for each of the forms and images for downloading, copying, or modification to meet local needs.

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Introduction:

Why this product was developed

Targeted tuberculin testing for latent tuberculosis infection (LTBI) has been identified as a strategic component of TB control and identifies persons at high risk for developing active TB who would benefit from treatment of LTBI [1]. TB control programs which are successful in achieving national objectives for treating active TB and carrying out contact investigations should introduce or strengthen well-planned targeted testing and treatment of LTBI activities.

The **first step** in developing a targeted TB testing and treatment of LTBI program is to conduct an epidemiological analysis of reported TB cases in a given geographic area. Using Report of Verified Case of Tuberculosis (RVCT) data, trends (over time) in the magnitude (number of cases) and distribution (e.g., by demographic, TB risk factors, and geographic variables) should be routinely performed to create a profile of cases in the community. For example, analyses may reveal an increase in cases with HIV infection and a history of substance abuse in one community and an increase among recently arrived foreign-born persons in another. Data on the characteristics of cases can help suggest the types of facilities in the community where targeted testing efforts might be strengthened, e.g., HIV care centers, drug treatment programs, and community health centers.

However, RVCT data only indicate the presence of many risk factors (e.g., substance abuse, homelessness, and incarceration) during the year prior to diagnosis. Most cases of active TB occur among persons with risk factors who have harbored latent TB infection (LTBI) for years prior to developing disease. Many of these persons have had multiple encounters with medical care providers during years prior to diagnosis when TB testing and treatment of LTBI could have been carried out. Missed opportunities to prevent TB often occur because of a failure to:

- Perform a tuberculin skin test (TST) when a TB risk factor is present
- Prescribe treatment when LTBI is identified
- Ensure completion once treatment is started.

Consistent with published recommendations [1,2], programs intent on accelerating progress towards TB elimination will need to:

- Identify specific providers serving persons with TB risk factors prevalent in the community
- Strengthen targeted testing and treatment of LTBI programs among these providers through a variety of activities such as planning, training, consultation, evaluation, and referral services
- Targeted Tuberculin Testing and Treatment of Latent Tuberculosis Infection (Am J Respir Crit Care Med Vol 161. pp S221-S247, 2000)
- 2. Ending Neglect: The Elimination of Tuberculosis in the United States, a Report by the Institute of Medicine (National Academy Press 2000).

The **purpose of this product** is to provide health departments with a tool to document the extent to which their TB cases could have been prevented and to specifically identify:

- Providers who served the patient prior to the TB diagnosis
- Points at which the provider failed to carry out TB testing and treatment recommendations

This should serve as a valuable supplement to the community TB profile developed through epidemiological analyses of RVCT data. Further armed with information about specific missed opportunities, TB programs will be in a much stronger position to convince facility managers about the value and need for strengthening TB testing and treatment of LTBI activities among the high risk populations they serve.

When this product is used in conjunction with data from a **companion product*** being developed by The New Jersey Medical School (NJMS) National TB Center *(A Template for Prioritizing Health Care Facilities for Targeted TB Testing and Treatment of LTBI*), health departments should be able to make a compelling case for strengthening activities in specific target facilities. Once a facility has agreed to collaborate, health departments can use a **third product*** being developed by the NJMS National TB Center to plan and implement a specific program. This product will include tools for conducting a detailed needs assessment, for assigning facility and TB program responsibilities, and for data collection and evaluation.

*Products scheduled for completion in 2003 and will be available on the NJMS NTBC website.

Note: *This product does not seek to identify* patients' health-seeking behavior which might help explain why they did not seek care earlier (when symptoms first developed) and whether or not they would have participated in testing and treatment services if they had been offered. To do so would have required lengthening the intake form considerably. Nevertheless, these patient-centered issues should be recognized and accommodated in designing targeted testing and treatment programs in specific facilities. Based on focus groups among candidates for LTBI treatment in various risk groups, the NIMS National TB Center is developing culturally and linguisticallyappropriate educational materials which will specifically address barriers to participating in LTBI activities. As they are completed, these materials will be posted on the NJMS National TB Center website (http://www.umdnj.edu/ntbcweb) and the CDC National Prevention Information Network website (http://www.cdcnpin.org/tb/pubs/tbguide.htm).

Background:

How this product was developed and initial results

In April 2000, the NJMS National TB Center in Newark designed a Prior History Intake Form for TB Cases and Suspects* in order to consistently elicit information about:

- TB risk factors
- Pre-TB diagnosis encounters with health care providers and other settings where TB testing and treatment could have been carried out

During field testing (May 2000), Nurse Case Managers (*NCMs*) began routinely completing the form during the initial intake interview process. Feedback was obtained by reviewing forms for completeness, reviewing forms for consistency with other information in the medical record, and frequent meetings with the NCMs.

The Intake Form was revised based on feedback, and the NCMs began using it in July 2000. The results of analyzing data on patients with TB diagnosed during July-December 2000 were presented at the 2001 National TB Controllers Workshop (Appendix 1).

In October 2001 a draft of the product was sent to 10 TB programs for review, testing, and comment. Feedback was received from 7 areas and was used in finalizing the product.

This information will be used in conjunction with the results from the **Template for Prioritizing Health Care Facilities for Targeted TB Testing and Treatment of LTBI** in approaching specific facilities for collaboratively developing strengthened activities.

*Note: As described in this product, the purpose of the data from this form is to help guide program planning. Therefore, Institutional Review Board (IRB) approval should not be necessary. However, if a program wishes to publish its findings, local IRB approval should be sought.



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encounters with health diagnosis when TB could have been carried 3 involved anut completing PG 6 involved not starting treatm 6 involved not completing PG

Appendix

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- 2 reported insucces
 3 reported no TB exam prior to enuy
 3 reported no TB exam prior to enuy
- (1 child, 1 student, 2 reported a normal CXR prior to entry
- I was classified to:
 Conclusion: In order to accelerate progress toward conclusion: In order to accelerate progress toward to:

 Identify providers serving P fectors prevalent in the community fectors prevalent in the community

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Guidelines for **Completing the** Form

Purpose of form: To supplement epidemiological analyses of RVCT data by identifying missed opportunities by specific providers for TB testing and treatment during the several years prior to the patient's current illness.

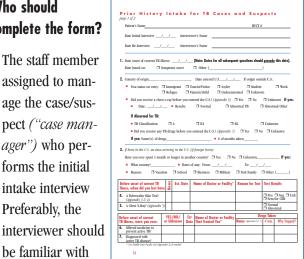
Overall Responsibility: Assign a single individual in the TB program to have overall responsibility for the following activities. This person could be the program manager, nurse consultant, epidemiologist, or some other individual who understands and is interested in this activity:

- Planning implementation
- Conducting an inservice on completing the form
- Reviewing completed forms for accuracy and completeness
- Providing consultation to persons who complete the forms
- Compiling and analyzing data from the forms
- Making recommendations based on results

Who should complete the form?

■ The staff member assigned to manage the case/suspect ("case manager") who performs the initial intake interview Preferably, the

be familiar with



the patient's language and culture

When should the form be completed?

- Complete as much of the form as possible during the initial intake interview
- Since the initial visit may be lengthy, tedious, and confusing for the patient, the case manager may find it necessary to obtain some of the information during a subsequent visit when the:
 - ✓ Patient feels more relaxed
 - ✓ Manager has established a rapport with the patient
- ✓Patient has a better understanding of TB
- Try to obtain all the information within one month

Placement of Form: Staff responsible for initially assembling the medical record should place the form in a visible location where it can be readily accessed (e.g., on top of the Progress Notes) so the case manager will be prompted to complete the form during the initial intake.

How long does it take to complete the form?:

- Based on experience, it should take about 25 minutes to complete each form
- Interviews tend to take longer when an interpreter is used

Before asking questions on the form, first explain to the patient:

- The difference between TB infection and disease
- He/she may have been infected with LTBI years ago
- If his/her infection had been detected earlier, medication could have been taken, which would probably have prevented this disease
- The information provided will help identify times in the past when his/her doctor or nurse could have found dormant (sleeping) TB by testing with a tuberculin skin test and then might have offered a chance to prevent his/her TB by taking medicine
- The information given by the patient is confidential and will not be shared

Review the Medical Record First

In order to save time and to confirm information previously obtained about the patient

- Prior to the interview:
 - Review other available sections of the medical record (e.g., the hospital admission history, the clinic progress notes or the RVCT)
 - Record (*in pencil*) information on the Intake Form where appropriate
- During interview, confirm previously obtained information or make corrections if necessary

Dates:

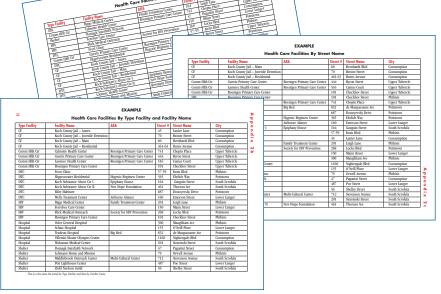
- Patients are not likely to recall the exact dates of previous encounters with various doctors or health care facilities (e.g., for diagnoses, treatments, or examinations)
- If the exact date is not known, try to elicit (in order of preference):
 - ✓ Month and year of the event
 - ✓ Year of the event
 - ✓ Number of years since the event
- Prompt patient by asking if the event occurred around:
 - ✓ Recurring events of the year, e.g.:
 - Seasons
- Birthdays
- Holidays
- Anniversaries

a job

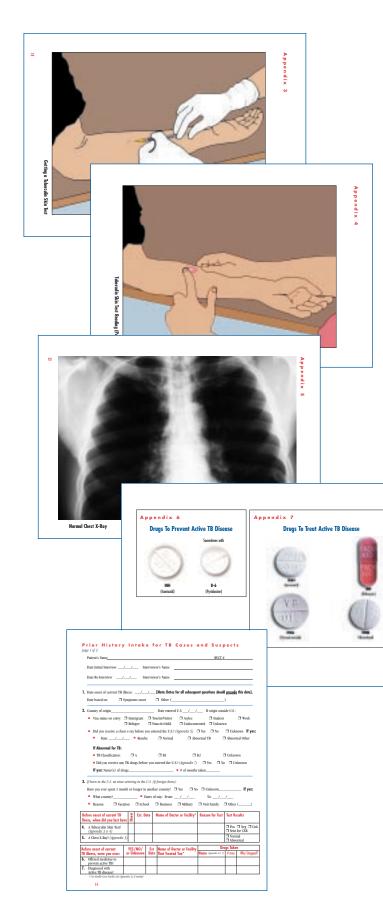
- Important single life events, e.g.:
 - Entering the USStarting or ending
 - Marriage
 - Birth of a child
- Military dutyIncarceration

Name of the doctor, clinic, hospital, or other health care facility:

- Make every attempt to identify the specific name of the doctor/facility which examined, treated, or housed the patient, such that you could contact that doctor/facility if need be
- Consider developing an Excel® (or other electronic) spread sheet (See Appendix 2) of health care facilities and other providers in the community which serve patients at high risk for TB. By using the sort feature of the spread sheet software, different versions of the list can be generated (*e.g., by type of facility, by name of facility, or by street name*)
 These lists can help the patient recall the name and location of the health care provider/facility. For example, patients often know the name of the street or the street address, but not the actual name of the facility.



Using pictures to clarify questions: Patients may give more accurate responses about tests and treatment if given visual prompts while asking selected questions, for example:



Question 4:

- Show a picture of a TST being administered (Appendix 3). Explain that the test results in a small raised bump on the arm and that it is necessary to return in 2-3 days for the reading.
- Show a picture of a positive TST being read (Appendix 4)

Question 5:

 Show a picture of a chest radiograph (Appendix 5)

Question 6:

- Show patient a picture of an INH tablet and a B6 tablet (Appendix 6)
- Make sure patient understands this is treatment for latent TB infection (*i.e.*, *a positive TST*) and not treatment for active TB disease

Question 7:

Show patient a picture of tablets of INH, RIF, EMB, and PZA. (Appendix 7)

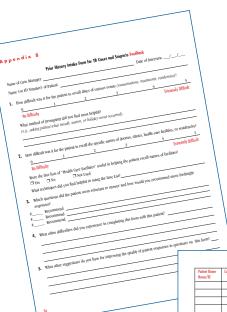
Sensitive Questions:

Patients may be reluctant to forthrightly answer sensitive questions (*e.g.*, *questions* 13, 14, 15, 18, 19, 27, 28, and 29) on the initial interview. If so:

- Highlight unanswered questions or questions the patient seemed reluctant to answer
- Reassure the patient that the information provided is confidential and will not be shared
- Re-ask these questions during subsequent visits after establishing rapport with the patient

Interviewer's Assessment

- After the interview, review the responses to the questions
- Indicate on the form whether or not the case was potentially preventable.
- Explain why or why not (based on which questions)



Feedback:

- Case managers should complete a Feedback Form (Appendix 8) on a selected number of patients.
- These can be used by the person with overall responsibility as a basis for discussing problems and issues during periodic meetings with the case managers
- Feedback may also be used to modify the initial intake form or appendices to meet local needs



						<u></u>			Case Provi		J ,
Patient Name Name/ID	Case Manage	Hr .	Age	Med RFs (1)	Pop RFs (2)	Health	Core Pr		nter Prior to TB DX alth Care Pravider	Prevent Ability (4)	Haw Case Could Have Been Preven
Nome/ IU	246		47	15	L3	iype 3	1998	Health Dev		2	Contact. TST+. Refused TX
· · · · ·	246		4/	-12	13						
23				1,2		3	1997	Health Dep		2	HIV+ and contact, TST+, Refased Gow contact to Aust 1997. Not named as
31	245		28	1,2	6	3	1997	Health Dep		4	contact until DS. Clear contact to comin. Not remail as
53	245		33	1,6	1	3	2000	Health Dep		4	contact until D%
58	245		15	1,9		3	2000	Health Dep	tA	4	Gose contact to uncle. Not named as contact until DX.
6	247		47		1	7	1993	Jail A		1	No TST done in jail
46	245		35	2,5	1	7	1997	Jail A		0	TST+ and TX for LIBI for 6 mos at
70	245		47	6,7	1	7	1997	Jail A		3	TST+ at jail, received only 3 mos T
75	247		58	2,5	1,6	7	1991	Jail A		3	TST+, incomplete TX at jail
15	245		34	5	1,3	7	1998	Jail B		1	No TST at jail
33	246		-45	2,5	1	7	2000	Jail B		2	TST+ at jail, TX not offered
Medical Risk Far	tors (1)	Population				Type HC			Preventability Co		
1=Gentact 2=HIV 3=Gensetor 4=Ahncental CIS 5=Injection Dreig 6=Nor-injection 7=Excess Alcoho 8=Diabenes 9=Steroid Therap 10=Gancer of Ne 11=Dialysis/Run 12=Gistrectomy 13=Siliccois 14=>10% below	t Se Drug use I sick or Head d Failure Intestinal Bypass ideal weight	5=Health 6=Homele 7=Homele	ail emplo ong-term l ong-term l lare Empl ss shefter ss shefter -born in l o high-ris at Worker reposed to balls isk schoo	yee lacility resid lacility emp loyee resident employee S <5 years k country high risk	loyee	5=Schoo 6=0B/G 7=0ccup 8=Corre	est Clini Public F d/Collegs YN pational F crional F Treatmen Care Fac	lealth Clinic ! licalth acilty at Genter ilty	6=Not Preventable	Bl, No Treatme Bl, Incomplete opstact Not Ider : Appropriate 1 : Foreign Born	nt Treatment

Displaying Data for Analysis

A line list (*Missed Opportunities Summary Form*— **Appendix 9**) has been developed on which to summarize key information for determining the preventability of cases interviewed.

For consistency, codes have been assigned to Medical Risk Factors, Population Risk Factors, Types

> of Health Care Providers, and Preventability categories. Health Care Provider information should reflect one or more encounters at which time there was a clear opportunity to carry out targeted TB testing and or treatment of LTBI which might have prevented the case from occurring. In the Preventability Code column, the case manager should enter the code which best reflects the reason why the either was or was not preventable.

> > **Appendix 10** is a 2-page Completed Sample of the

Missed Opportunities Summary Form with information from 21 *consecutive patients* reviewed. This provides a broad range of the types of entries that might be made.

Appendix 11 is a 2-page Completed Sample of the Missed Opportunities Summary Form with information on cases which were seen *by selected health care providers* in the community prior the diagnosis of TB. Users may

want to develop a Spreadsheet to facilitate sorting by TB risk factors, type and name of health care provider, and preventability codes.

Translating Data into Action

By completing the Prior History Intake form and completing the Missed Opportunities for Preventing TB Summary Form, users will have a list of providers who served patients prior to their TB diagnoses and the points at which the providers failed to carry out TB testing and treatment recommendations.

Armed with information about specific missed opportunities, TB programs will be in a much stronger position to convince managers in individual facilities that their TB testing and treatment of LTBI activities need to be given higher priority and strengthened. Looking at the data from the Summary Form **(Appendix 11)**, the TB program may want to approach each of the following:

- Health Department A which failed to convince 2 contacts to take treatment for LTBI and failed to identify 3 contacts
- **Juil A** which failed to do a TST on one inmate and failed to ensure completion of treatment for LTBI on 2 inmates
- **Juil B** which failed to perform a TST on one inmate and failed to offer treatment for one inmate with LTBI
- **HIV Facility A** which failed to prescribe treatment for LTBI for the recommended length of time
- Hospital B Medical Clinic which did not perform a TST on 2 patients with TB risk factors
- Private medical doctor (PMD A) who failed to perform a TST on 3 patients from an endemic country (*Haiti*)
- Drug Treatment Facilities A and C which failed to perform a TST on clients with a history of injection drug use
- Drug Treatment Facility B which failed to place a client with a positive TST and a history of noninjection drug use on treatment for LTBI.

As noted in the Introduction, the NJMS National TB Center is developing other products which will assist TB programs in prioritizing health care facilities where targeted TB testing and treatment of LTBI should be strengthened and in planning and implementing programs in a specific facilities.

As types of provider facilities which missed opportunities are identified, TB programs may also want to review and help strengthen the TB-related regulations, accreditation standards, grant-recipient activities, policies, and procedures which influence the clinical practice in these settings. In New Jersey, for example, the State TB Program has collaborated with the State Division of Addiction Services in updating the *TB Surveillance Procedures for Substance Abuse Treatment Centers* which will include more explicit requirements for TB testing among clients, as well as follow up evaluation and treatment of clients with LTBI.



Identifying Missed Opportunities For Preventing TB Forms and Appendices

> These forms and appendices may be accessed in PDF format from the New Jersey Medical School National Tuberculosis Center's website: <u>http://www.umdnj.edu/ntbcweb</u> From within the PDF format, users can link to files for each of the forms and images for downloading,

copying, or modification to meet local needs.

Prior History Intake for TB Cases and Suspects page 1 of 2

	Patient's Name						RVCT #	ŧ	
	Date Initial Interview	_	In	terview	er's Name				
	Date Re-Interview/	/	In	terview	er's Name				
1.	Date onset of current TB i	llness:	/	_/	[Note: Dates	for all subseque	ent questions should	d <u>precede</u>	this date].
	Date based on:	Sympton	ms onset	t	\Box Other ()	
2.	Country of origin				Date entere	d U.S//	If origin outs	ide U.S.:	
	• Visa status on entry:		0			•	☐ Student ented ☐ Unknow		□ Work
	 Did you receive a cher Date:// 				ered the U.S.?				nown If yes: nal Other
	If Abnormal for TB:								
	■ TB Classification:		A		🗖 B1		B2 [J Unkno	wn
	Did you receive any	TB dru	igs befor	re you e	entered the U	.S.? (Appendix 7)	□ Yes □ No	o 🗖 Ur	nknown
	If yes: Name(s) of dr	ugs				• # of months	taken		
3.	If born in the U.S. or since	arrivin	ıg in the	U.S. (ij	f foreign born):			
	Have you ever spent 1 more	nth or l	onger in	anoth	er country?	🗆 Yes 🛛 No	Unknown		If yes:
	What country?		• D	Dates of	stay: From:	//	To:/	_/	
	Reason: 🗆 Vaca	tion	□ Scho	ool	□ Business	☐ Military	Visit Family	□ Other	()
	fore onset of current TB less, when did you last ha	Never	Est. D	ate	Name of Doo	tor or Facility*	Reason for Test	Test Re	esults
4.	A Tuberculin Skin Test? (Appendix 3 & 4)								□ Neg □ Unk for CXR
5.	A Chest X-Ray? (Appendix	5)						D Norn Abno	
Bef	fore onset of current	YES	/NO/	Est	Name of D	octor or Facility	Dr	ugs Take	
	illness, were you ever:		known	Date			Name (Appendix 6 & 7)	# mos	Why Stopped
6.	Offered medicine to prevent active TB?								

Active TB disease? * Use Health Care Facilty List (Appendix 2) if needed

7. Diagnosed with

Prior History Intake for TB Cases and Suspects page 2 of 2

Befo	re current TB illness When was the	Est	Name of Doctor or Facility*	T	B Tests and	TX?
last	time you had a physician exam for:	Date		TST	CXR	TX
8.	Employment					
9.	Routine Check Up					
10.	Injury or Accident					
11.	Prenatal Checkup					
12.	Other ()					

	e you ever been in n employee of) a:	Yes/No	Name of Facility*	From (Date)	To (Date)	TB TST	Tests & T) CXR	(? TX
13.	Homeless Shelter or Welfare Hotel							
14.	Prison or Jail							
15.	Drug or Alcohol Rehab. Program							
16.	Grade/High School (in past 5 years)							
17.	Long-Term Care Facility							

Hav	e you ever:	Yes/No	Name of Doctor or	From	То	TB	Tests & T	(?
			Facility*	(Date)	(Date)	TST	CXR	TX
18.	Tested positive for HIV?							
19.	Been treated for HIV?							
20.	Had contact with someone with active TB?							
21.	Taken steroids for longer than one month?							
22.	Had part of your stomach or intestine removed?							
23.	Been treated for cancer? Location or type of cancer?							
24.	Been treated for diabetes?							
25.	Been told that you had silicosis or lung problem from dust?							
26.	Had an organ transplant?							
27.	Used needles to inject heroin or similar drugs?							
28.	Snorted heroin or smoked crack cocaine?							
29.	Been told you have a drinking problem?							
30.	Received BCG (TB Vaccine that leaves scar on upper arm)?							

Why or Why Not?

Based on which questions?

Poster Abstract 2001 National TB Controller's Workshop

MISSED OPPORTUNITIES FOR PREVENTING TB IN NEWARK, 2000

Hayden CH, Napolitano E, Mangura BT New Jersey Medical School National Tuberculosis Center at UMDNJ, Newark, NJ

Background: Most TB cases occur among persons with TB medical and/or population risk factors of latent TB infection (ITBI) for years prior to developing active disease. Many of these persons have been under some form of medical care prior to developing disease when TB testing and treatment of ITBI could have been carried out.

Objective: To identify patient encounters with health care providers prior to the TB diagnosis when TB testing and treatment of LTBI could have been carried out to prevent these cases.

Methods: Since June 2000, the National TB Center (NTBC) has routinely asked TB patients about previous encounters with the health care system and whether or not TB services were provided at those times. Available demographic, TB risk factor, and TB diagnostic data were correlated with these findings. Data was collected on TB cases reported from June-December 2000.

Results: All the patients in this review had one or more TB risk factors; yet less than 60% had received a TST prior to diagnosis and, of these, 75% had LTBI. Only one-third of those with LTBI were placed on treatment and none completed a full course of therapy. Missed opportunities occurred among 18 of the 21 patients reviewed. Of these:

- 9 involved failure to TST when a TB risk factor was present
- 6 involved not starting treatment for LTBI
- 3 involved not completing prescribed regimens

Of the 8 foreign-born patients excluded for analysis:

- All developed TB within 12 months of entry (4 within one month)
- 2 reported inadequate treatment prior to entry
- 3 reported no TB exam prior to entry (1 child, 1 student, 1 refugee)
- 2 reported a normal CXR prior to entry
- 1 was classified B2

Conclusion: In order to accelerate progress towards TB elimination, programs will need to:

- Identify providers serving persons with TB risk factors prevalent in the community
- Strengthen targeted testing and treatment of LTBI among these providers through education, consultation, and/or referral services

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Type Facility	Facility Name	AKA	Street #	Street Name	City
HIV	Biggs Medical Cneter	Family Treatment Center	201	Leigh Lane	Phthisis
Comm Hlth Ctr	Calmette Health Center	Roentgen Primary Care Center	741	Chopin Place	Upper Tubercle
Shelter	Domagk Interfaith Network		47	Paganini Street	Consumption
HIV	Ferebee Care Center		150	Mann Street	Lower Lunger
HIV	Flick Medical Outreach	Society for HIV Prevention	268	Locke Blvd	Pottstown
DTC	Frost Clinic		57-59	Keats Blvd.	Phthisis
Comm Hlth Ctr	Guerin Primary Care Center	Roentgen Primary Care Center	444	Byron Street	Upper Tubercle
DTC	Hipprocrates Residential	Hygenic Regimen Center	365	Ehrlich Way	Pottstown
CF	Koch County Jail – Annex		45	Lanier Lane	Consumption
CF	Koch County Jail – Juvenile Detention		70	Bronte Street	Consumption
CF	Koch County Jail – Main		60	Bernhardt Blvd	Consumption
CF	Koch County Jail – Residential		461-63	Burns Avenue	Consumption
DTC	Koch Substance Abuse Ctr I	Epiphany House	164	Gauguin Street	South Scrofula
DTC	Koch Substance Abuse Ctr II	New Hope Foundation	461	Thoreau Ave	South Scrofula
Comm Hlth Ctr	Laennec Health Center	Roentgen Primary Care Center	516	Camus Court	Upper Tubercle
Shelter	Lehmann Home and Mission		79	Orwell Avenue	Phthisis
Shelter	Middlebrook Outreach Center	Multi-Cultural Center	712	Stevenson Avenue	South Scrofula
Hospital	Osler Genreal Hospital		300	Maughham Ave	Phthisis
Shelter	Pott Lighthouse Center		487	Poe Street	Lower Lunger
DTC	Riley Habitare		687	Dostoyevsky Drive	Pottstown
Comm Hlth Ctr	Roentgen Primary Care Center		101	Checkhov Street	Upper Tubercle
HIV	Roentgen Primary Care Center		101	Checkhov Street	Phthisis
Hospital	Schatz Hospital		155	0'Neill Place	Lower Lunger
Hospital	Trudeau Hospital	Big Red	832	de Maupassante Ave	Pottstown
Hospital	Villemin Mount Olympus Center		1160	Nightengale Blvd	Consumption
Hospital	Waksman Medical Center		201	Stravinski Street	South Scrofula
DTC	Wells Treatment Center	Airborne Aliance	160	Emerson Street	Lower Lunger
Shelter	Ziehl Neelson Guild		56	Shelley Street	South Scrofula
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Health Care Facilities By Facility Name

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This is a sample spreadsheet (using Excel) listing the health care facilites and other providers in the community which serve clients at high risk for TB. This list is sorted alphabetically by Facility name. By using the sort feature of the spreadsheet software, different versions of the list (e.g., By Type Facility, by Street Address, or by City) can be generated and used to help the patient recall the name and location of the health care facility.

Appendix 2a

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Type Facility	Facility Name	AKA	Street #	Street Name	City
CF	Koch County Jail – Annex		45	Lanier Lane	Consumption
CF	Koch County Jail – Juvenile Detention		70	Bronte Street	Consumption
CF	Koch County Jail – Main		09	Bernhardt Blvd	Consumption
CF	Koch County Jail – Residential		461-63	Burns Avenue	Consumption
Comm Hlth Ctr	Calmette Health Center	Roentgen Primary Care Center	741	Chopin Place	Upper Tubercle
Comm Hlth Ctr	Guerin Primary Care Center	Roentgen Primary Care Center	444	Byron Street	Upper Tubercle
Comm Hlth Ctr	Laennec Health Center	Roentgen Primary Care Center	516	Camus Court	Upper Tubercle
Comm Hlth Ctr	Roentgen Primary Care Center		101	Checkhov Street	Upper Tubercle
DTC	Frost Clinic		57-59	Keats Blvd.	Phthisis
DTC	Hipprocrates Residential	Hygenic Regimen Center	365	Ehrlich Way	Pottstown
DTC	Koch Substance Abuse Ctr I	Epiphany House	164	Gauguin Street	South Scrofula
DTC	Koch Substance Abuse Ctr II	New Hope Foundation	461	Thoreau Ave	South Scrofula
DTC	Riley Habitare		687	Dostoyevsky Drive	Pottstown
DTC	Wells Treatment Center	Airborne Aliance	160	Emerson Street	Lower Lunger
HIV	Biggs Medical Center	Family Treatment Center	201	Leigh Lane	Phthisis
HIV	Ferrebee Care Center		150	Mann Street	Lower Lunger
HIV	Flick Medical Outreach	Society for HIV Prevention	268	Locke Blvd	Pottstown
HIV	Roentgen Primary Care Center		101	Checkhov Street	Phthisis
Hospital	Osler Genreal Hospital		300	Maughham Ave	Phthisis
Hospital	Schatz Hospital		155	0'Neill Place	Lower Lunger
Hospital	Trudeau Hospital	Big Red	832	de Maupassante Ave	Pottstown
Hospital	Villemin Mount Olympus Center		1160	Nightengale Blvd	Consumption
Hospital	Waksman Medical Center		201	Stravinski Street	South Scrofula
Shelter	Domagk Interfaith Network		47	Paganini Street	Consumption
Shelter	Lehmann Home and Mission		62	Orwell Avenue	Phthisis
Shelter	Middlebrook Outreach Center	Multi-Cultural Center	712	Stevenson Avenue	South Scrofula
Shelter	Pott Lighthouse Center		487	Poe Street	Lower Lunger
Shelter	Ziehl Neelson Guild		56	Shelley Street	South Scrofula

Health Care Facilities By Type Facility and Facility Name

This is a the same list sorted by Type Facility and then by Facility Name

Appendix 2b

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Type Facility	Facility Name	AKA	Street #	Street Name	Gtv
CF	Koch County Tail – Main		60	Bernhardt Blvd	Consumption
CF	Koch County Jail – Juvenile Detention		70	Bronte Street	Consumption
CF	Koch County Jail – Residential		461-63	Burns Avenue	Consumption
Comm Hlth Ctr	Guerin Primary Care Center	Roentgen Primary Care Center	444	Byron Street	Upper Tubercle
Comm Hlth Ctr	Laennec Health Center	Roentgen Primary Care Center	516	Camus Court	Upper Tubercle
Comm Hlth Ctr	Roentgen Primary Care Center		101	Checkhov Street	Upper Tubercle
HIV	Roentgen Primary Care Center		101	Checkhov Street	Phthisis
Comm Hlth Ctr	Calmette Health Center	Roentgen Primary Care Center	741	Chopin Place	Upper Tubercle
Hospital	Trudeau Hospital	Big Red	832	de Maupassante Ave	Pottstown
DTC	Riley Habitare		687	Dostoyevsky Drive	Pottstown
DTC	Hipprocrates Residential	Hygenic Regimen Center	365	Ehrlich Way	Pottstown
DTC	Wells Treatment Center	Airborne Aliance	160	Emerson Street	Lower Lunger
DTC	Koch Substance Abuse Ctr I	Epiphany House	164	Gauguin Street	South Scrofula
DTC	Frost Clinic		57-59	Keats Blvd.	Phthisis
CF	Koch County Jail – Annex		45	Lanier Lane	Consumption
HIV	Biggs Medical Cneter	Family Treatment Center	201	Leigh Lane	Phthisis
HIV	Flick Medical Outreach	Society for HIV Prevention	268	Locke Blvd	Pottstown
HIV	Ferrebee Care Center		150	Mann Street	Lower Lunger
Hospital	Osler Genreal Hospital		300	Maughham Ave	Phthisis
Hospital	Villemin Mount Olympus Center		1160	Nightengale Blvd	Consumption
Hospital	Schatz Hospital		155	0'Neill Place	Lower Lunger
Shelter	Lehmann Home and Mission		79	Orwell Avenue	Phthisis
Shelter	Domagk Interfaith Network		47	Paganini Street	Consumption
Shelter	Pott Lighthouse Center		487	Poe Street	Lower Lunger
Shelter	Ziehl Neelson Guild		56	Shelley Street	South Scrofula
Shelter	Middlebrook Outreach Center	Multi-Cultural Center	712	Stevenson Avenue	South Scrofula
Hospital	Waksman Medical Center		201	Stravinski Street	South Scrofula
DTC	Koch Substance Abuse Ctr II	New Hope Foundation	461	Thoreau Ave	South Scrofula

Health Care Facilities By Street Name

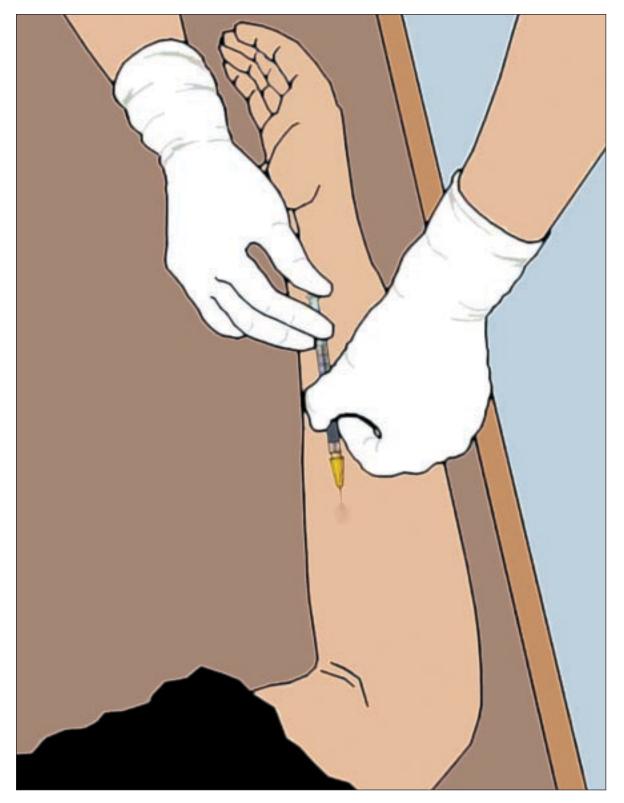
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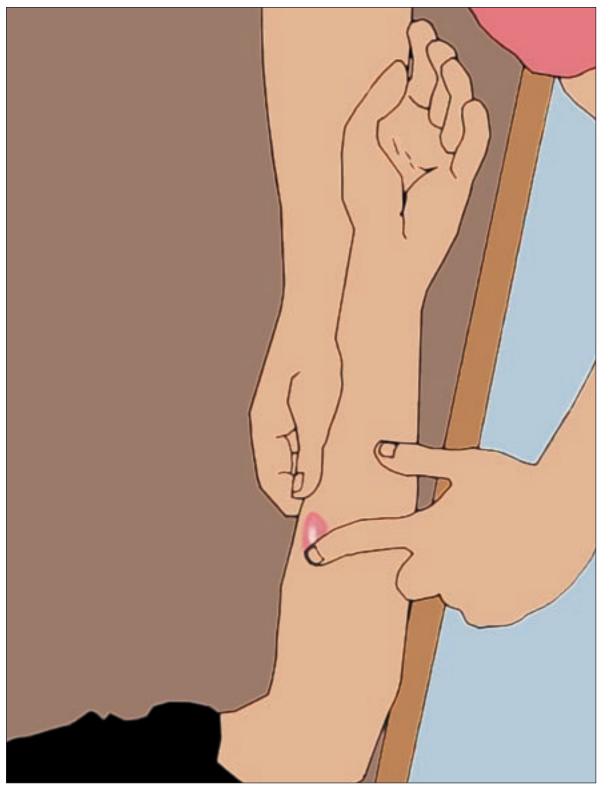
This is a the same list sorted by Street Name

Appendix 2c

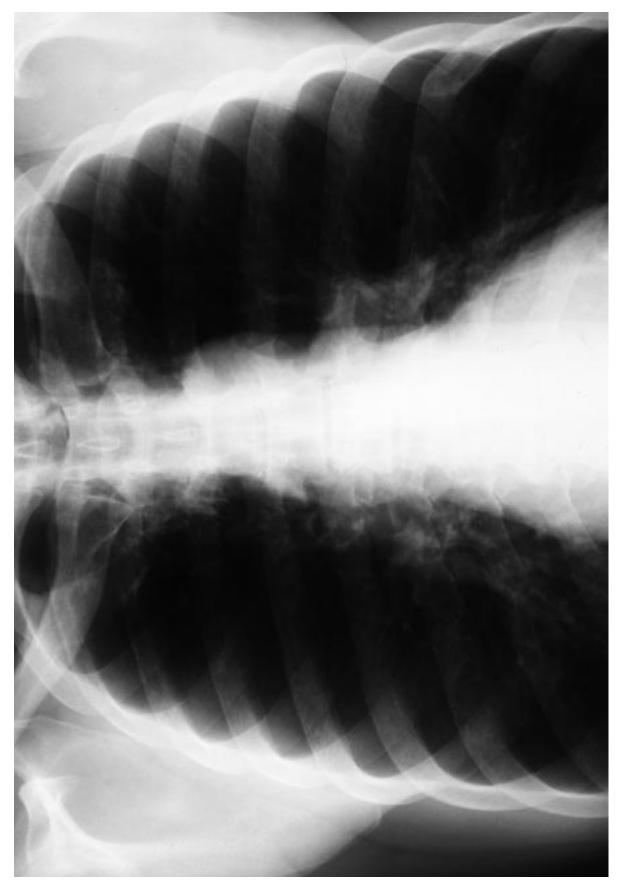
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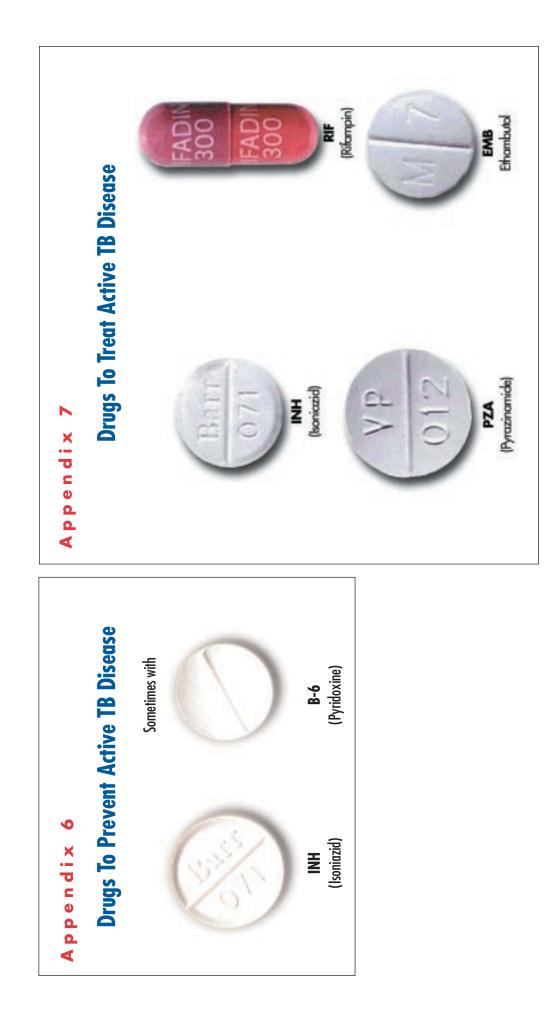
Getting a Tuberculin Skin Test



Tuberculin Skin Test Reading (Positive)



Normal Chest X-Ray



	me of Case Manag	ger			Date of Interview/	/
Na	me (or ID Numbe	r) of Patient				
۱.	How difficult was	s it for the patient	to recall dates of var	ious events (examinati	ons, treatments, residencies))?
	0	1	2	3	4	5
	No Difficulty				Extremely	
			u find most helpful? eason, or holiday even	nt occurred)		
2.		-	-		health care facilities, or resi	
	0 No Difficulty	1	Δ	3	<u> </u>	
	\Box Yes \Box No	🗖 Not	USEU			
#_	What techniques Which questions responses? Recommer	did you find help did the patient se	ful in using the Line l em reluctant to answ	er and how would you	recommend more forthrig	
#_ #_	What techniques Which questions responses? Recommen Recommen	did you find help did the patient se nd nd	ful in using the Line l em reluctant to answ	er and how would you	recommend more forthrig	
# #_	What techniques Which questions responses? Recommen Recommen Recommen	did you find help did the patient se nd nd	ful in using the Line l em reluctant to answ	er and how would you	recommend more forthrig	

Prior History Intake Form for TB Cases and Suspects Feedback

een Prevented	5							or to DX 1 I US Prior to DX			
How Case Could Have Been Prevented								1=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment 3=Preventable: LTBI, Incomplete Treatment 4=Preventable: Copntact Not Identified Prior to DX 5=Not Preventable: Appropriate Testing &/or TX Provided Prior to DX 6=Not Preventable: Foreign Born, TB Identified on Entry Exam 7=Not Preventable: Recent Entry to US, No Exam Abroad or in US Prior to DX 8=Other 9=Unknown			
Prevent	Ability (4)						des (4)	1=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment 3=Preventable: LTBI, Incomplete Treatment 4=Preventable: Copntact Not Identified Prior to DX 5=Not Preventable: Appropriate Testing &/or TX Pr 6=Not Preventable: Foreign Born, TB Identified on 7=Not Preventable: Recent Entry to US, No Exam Al 8=Other 9=Unknown			
Health Care Provider Encounter Prior to TB DX	Name of Health Care Provider						Preventability Codes (4)	1=Preventable: TB Risk Factor, No ['] 2=Preventable: LTBI, No Treatment 3=Preventable: LTBI, Incomplete Tr 4=Preventable: Copntact Not Identif 5=Not Preventable: Appropriate Tes 6=Not Preventable: Foreign Born, T 7=Not Preventable: Recent Entry to 8=Other 9=Unknown			
Provider Encoul	e Name of He							inic c Health Clinic ege al Health 1 Facilty nent Center 'acilty			
Health Care	Type Date						Type HCP (3)	1=Hospital 2=PMD 3=TB/Chest Clinic 4=Other Public Health Clinic 5=School/College 6=B/GYN 7=Occupational Health 8=Correctional Facilty 9=Drug Treatment Center 10=HIV Care Facilty 11=Other			
Med Pop	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						; (2)	e liity resident ility employee ee aployee <5 years ountry igh risk adult			
Aae							Population Risk Factors (2)	 1 = Prison/jail inmate 2 = Prison/jail employee 3 = Other long-term facility resident 4 = Other long-term facility employee 5 = Health Care Employee 6 = Homeless shelter resident 7 = Homeless shelter resident 7 = Homeless shelter resident 8 = Foreign-born in US <5 years 9 = Travel to high-risk country 10 = Migrant Worker 11 = Child exposed to high risk adult 			
Case Manager								ad Bypass			
Patient Name	Name/ID						Medical Risk Factors (1)	1=Contact 2=HIV 3=Convertor 4=Abnormal CXR-Old TB 5=Injection Drug Use 6=Non-injecting Drug use 7=Excess Alcohol 8=Diabetes 9=Steroid Therapy 10=Cancer of Neack or Head 11=Dialysis/Renal Failure 12=Gastrectomy/Intestinal Bypass			

Missed Opportunities Summary Form

Appendix 9

26	Miss	sed Opp	ortur	ities !	Summ	ary Fo	vrm (C	Consecut	Missed Opportunities Summary Form (Consecutive Patients -	s - page	1 of 2)
Patient Name	Case Manager		Age		Pop	Health	Care Pro	vider Encount		Prevent	How Case Could Have Been Prevented
Name/ID				RFs (1)	RFs (2)	Type	Date	Name of Hea	Name of Health Care Provider	Ability (4)	
1	245		43	8,10		2	70/7	PMD A		5	TST - by PMD
2	246		29		×	2	2/97	PMD B		5	TST + by PMD, no TX
3	245		28		×					7	Refugee to US 10/99 - No exam abroad or in US Prior to DX 2/00
4	247		30		8	2	66/9	PMD C		1	TST + by PMD, no TX
5	247		47	1,5	1,3	3	8/98	Health Dept A	A	2	TST + by HD, refused TX
9	246		47		1	7		Jail A		1	No TST by Jail
	245		37	1,6		×	1998	DTCA		5	TST + at DTC, no TX
8	246		45	5		2	86/6	PMD Unknown	MN	1	No TST by PMD
6	247		36	~		2	3/00	PMD D		1	No TST by PMD
10	245		12		×	×	12/98	School A		5	TST by School
11	226		29		~					-	Immigrant to US 8/00. Neg CXR on entry. No exam in US prior to DX 8/00
1 		-	-	5					4 	:	
Medical Risk Factors (1)	tors (1)	Population Risk Factors (2)	Risk Facto	ors (2)		Type HCP (3)	(3)		Preventability Codes (4)	es (4)	
1=Contact 2=HIV 3=Convertor 4=Abnormal CXR-Old TB 5=Injection Drug Use 6=Non-injecting Drug use 7=Excess Alcohol 8=Diabetes 9=Steroid Therapy 10=Cancer of Neack or Head 11=Dialysis/Renal Failure 12=Gastrectomy/Intestinal Bypass 13=Silicosis 14=>10% below ideal weight 15=Prior TB-Inadequate TX 16=organ Transplant	-Old TB Use Drug use y ick or Head ick or Head intestinal Bypass ideal weight equate TX ant	 1=Prison/jail inmate 2=Prison/jail employee 3=Other long-term facility resident 4=Other long-term facility employee 5=Health Care Employee 6=Homeless shelter resident 7=Homeless shelter remployee 8=Foreign-born in US <5 years 9=Travel to high-risk country 10=Migrant Worker 11=Child exposed to high risk adult 12=Attend balls 13=High risk school 14=Transgender 	l inmate l employé g-term fau g-term fau re Employ shelter r shelter r orn in US nigh-risk Worker yosed to h alls c school ider	ee cility residd yee esident mployee o' <5 years country high risk a	ant yyee dult	1=Hospital 2=PMD 3=TB/Chest Clinic 4=Other Public Hd 5=School/College 6=OB/GYN 7=Occupational H 8=Correctional Fa 9=Drug Treatment 10=HIV Care Facil 11=Other	1=Hospital 2=PMD 3=TB/Chest Clinic 4=Other Public Health Cli 5=School/College 6=OB/GYN 7=Occupational Health 7=Occupational Health 9=Drug Treatment Center 10=HIV Care Facilty 11=Other 11=Other	1=Hospital 2=PMD 3=TB/Chest Clinic 4=Other Public Health Clinic 5=School/College 6=OB/GYN 7=Occupational Health 8=Correctional Facilty 9=Drug Treatment Center 10=HIV Care Facilty 11=Other 11=Other	1=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment 3=Preventable: LTBI, Incomplete Treatment 4=Preventable: Appropriate Testing &/or TX Pr 5=Not Preventable: Appropriate Testing &/or TX Pr 6=Not Preventable: Foreign Born, TB Identified on 7=Not Preventable: Recent Entry to US, No Exam Al 8=Other 9=Unknown	Risk Factor, No BI, No Treatment BI, Incomplete T intact Not Identi Appropriate Te Foreign Born, ' Recent Entry to	1 = Preventable: TB Risk Factor, No TST 2 = Preventable: LTBI, No Treatment 3 = Preventable: LTBI, Incomplete Treatment 4 = Preventable: Copntact Not Identified Prior to DX 5 = Not Preventable: Appropriate Testing &/or TX Provided Prior to DX 6 = Not Preventable: Foreign Born, TB Identified on Entry Exam 7 = Not Preventable: Recent Entry to US, No Exam Abroad or in US Prior to DX 8 = Other 9 = Unknown
					_						

EXAMPLE

EXAMPLE

IST + as contact, only took $4 \mod 4$ How Case Could Have Been Prevented No known risk factors; no exam during last 5 vears To US 10/00 as Visitor. Sm- and 2 months TX To US 1999 as Visitor. No exam abroad or in US prior to DX 5/00 To US 09/99 as Student. No exam abroad or in US prior to DX 2/00 To US as refugee 4/00. Identified as Class B prior to entry and DX'd 4/00 case not identified till after DX & not preventable Infant No known risk factors prior to DX. Source prior to entry to US. DX in US 10/00 5=Not Preventable: Appropriate Testing &/or TX Provided Prior to DX IST - at school testing No TST by Hospital No TST at jail 4=Preventable: Copntact Not Identified Prior to DX 3=Preventable: LTBI, Incomplete Treatment I=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment Ability (4) Prevent Preventability Codes (4) Ś \square ∞ ∞ 9 3 Name of Health Care Provider Health Care Provider Encounter Prior to TB DX Health Dept B School B 4=Other Public Health Clinic Hosp A **PMDE** Jail B S=TB/Chest Clinic i=School/College Date 12/99 1998 1999 1998 4/00 (ype HCP (3) l=Hospital 2=PMD Type 4 2 6 RFs (2) Pop ∞ ∞ ∞ ∞ ∞ ∞ 4=Other long-term facility employee 3=Other long-term facility resident RFs (1) Med Population Risk Factors (2) 5 Ś 5=Health Care Employee -2=Prison/jail employee I=Prison/jail inmate 8 mos Age 19 74 $\mathbf{22}$ 53 34 8 5 33 50 Case Manager 245 246 247 245 246 247 245 246 247 245 4=Abnormal CXR-Old TB Medical Risk Factors (1) 5=Injection Drug Use Patient Name 3=Convertor Name/ID 1=Contact 2=HIV 16 12 13 14 5 17 18 19 20 21

Missed Opportunities Summary Form (Consecutive Patients - page 2 of 2)

Appendix 6=Not Preventable; Foreign Born, TB Identified on Entry Exam 7=Not Preventable: Recent Entry to US, No Exam Abroad or in US Prior to DX

9=Unknown 8=Other

)=Drug Treatment Center

10=HIV Care Facilty

1=0 other

11=Child exposed to high risk adult

13=High risk school

14=Transgender

14=>10% below ideal weight

13=Silicosis

5=Prior TB-Inadequate TX

16=organ Transplant

12=Attend balls

12=Gastrectomy/Intestinal Bypass

7=Occupational Health

6=0B/GYN

8=Correctional Facilty

8=Foreign-born in US <5 years

9=Travel to high-risk country

10=Migrant Worker

10=Cancer of Neack or Head

9=Steroid Therapy

8=Diabetes

11=Dialysis/Renal Failure

7=Homeless shelter employee

6=Homeless shelter resident

6=Non-injecting Drug use

7=Excess Alcohol

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Missed Opportunities Summary Form (By Health Case Provider - page 1 of 2)

1 Prevented			Refused TX	named as	med as	ied as		5 mos at jail	3 mos TX				o DX S Prior to DX
How Case Could Have Been Prevented		Contact, TST+, Refused TX	HIV+ and contact, TST+, Refused TX	Close contact to Aunt 1997. Not named as contact until DX	Close contact to cousin. Not named as contact until DX	Close contact to uncle. Not named as contact until DX	No TST done in jail	TST+ and TX for LTBI for 6 mos at jail	TST+ at jail, received only 3 mos TX	TST+, incomplete TX at jail	No TST at jail	TST+ at jail, TX not offered	Preventability Codes (4) 1=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment 3=Preventable: LTBI, Incomplete Treatment 4=Preventable: LTBI, Incomplete Treatment 5=Not Preventable: Appropriate Testing &/or TX Provided Prior to DX 5=Not Preventable: Roceing Born, TB Identified on Entry Exam 7=Not Preventable: Recent Entry to US, No Exam Abroad or in US Prior to DX 8=Other 9=Unknown
Prevent	Ability (4)	2	2	4	4	4	1	5	3	3	1	2	les (4) Risk Factor, No ['] Bl, No Treatment Datact Not Identi paract Not Identi ; Foreign Born, T : Recent Entry to
Health Care Provider Encounter Prior to TB DX	Name of Health Care Provider	spt A	spt A	spt A	pt A	pt A							Preventability Codes (4) 1=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment 3=Preventable: LTBI, Incomplete Treatment 4=Preventable: LTBI, Incomplete Treatment 5=Not Preventable: Appropriate Testing &/or TX Pr 6=Not Preventable: Roreign Born, TB Identified on 7=Not Preventable: Recent Entry to US, No Exam Al 8=Other 9=Unknown
rovider Encou	Name of H	Health Dept A	Health Dept A	Health Dept A	Health Dept A	Health Dept A	Jail A	Jail A	Jail A	Jail A	Jail B	Jail B	Iype HCP (3) 1=Hospital 2=PMD 3=TB/Mcbest Clinic 4=Other Public Health Clinic 5=School/College 6=OB/GYN 7=Occupational Health 8=Correctional Facilty 9=Drug Treatment Center 10=HIV Care Facilty 11=Other
Care P	Date	1998	1997	1997	2000	2000	1993	1997	1997	1991	1998	2000	Iype HCP (3) 1=Hospital 2=PMD 3=TB/Chest Clinic 4=Other Public Health 5=School/College 6=OB/GYN 7=Occupational Health 8=Correctional Facilty 9=Drug Treatment Cent 10=HIV Care Facilty 11=Other
Health	Type	3	3	3	3	3	7	~	~	~	~	~	Type HCP (3)1=Hospital2=PMD2=PMD3=TB/Chest C4=Other Publ5=School/Col6=OB/GYN7=Occupation8=Correction9=Drug Treat10=HIV Care11=Other
Pop	RFs (2)	1,3		6	1		1	1	-	1,6	1,3	1	adult
Med	RFs (1)	1,5	1,2	1,2	1,6	1,9		2,5	6,7	2,5	5	2,5	
Age	1	47	61	28	33	15	47	35	47	58	34	45	Population Risk Factors (2) 1=Prison/jail inmate 2=Prison/jail inmate 3=Other long-term facility resi 4=Other long-term facility employee 6=Homeless shelter resident 7=Homeless shelter resident 7=Homeless shelter resident 1=Child exposed to high risk 11=Child exposed to high risk 12=Attend balls 13=High risk school 14=Transgender
													Population Risk Fac 1=Prison/jail inmate 2=Prison/jail employ 3=Other long-term f 4=Other long-term f 6=Homeless shelter 7=Homeless shelter 8=Foreign-born in L 9=Travel to high-risl 10=Migrant Worker 11=Child exposed to 12=Attend balls 13=High risk school 14=Transgender
Case Manager	1	246	246	245	245	245	247	245	245	247	245	246	ors (1) Jid TB Jid TB Jise ug use rug use k or Head Failure testinal Bypass testinal Bypass testinal TX
Patient Name Co	Name/ID	5	23	34	53	58	9	95	70	75	15	33	Medical Risk Factors (1)1=Contact2=HIV2=HIV3=Convertor4=Abnormal CXR-Old TB5=Injection Drug Use6=Non-injecting Drug use7=Excess Alcohol8=Diabetes9=Steroid Therapy10=Cancer of Neack or Head11=Dialysis/Renal Failure12=Gastrectomy/Intestinal Bypass14=>10% below ideal weight5=Prior TB-Inadequate TX

Appendix 11

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EXAMPLE

6=Not Preventable; Foreign Born, TB Identified on Entry Exam 7=Not Preventable: Recent Entry to US, No Exam Abroad or in US Prior to DX How Case Could Have Been Prevented HIV+ and TST+. Only rec'd 6 mos TX Born in Haiti, HIV+, no TST done Born in Haiti, HIV+, no TST done 5=Not Preventable: Appropriate Testing &/or TX Provided Prior to DX Travel to Haiti, No TST done IST+ and TX for 6 months 4=Preventable: Copntact Not Identified Prior to DX No TST done No TST done No TST done IST+, no TX No TST done 3=Preventable: LTBI, Incomplete Treatment I=Preventable: TB Risk Factor, No TST 2=Preventable: LTBI, No Treatment Ability (4) Prevent Preventability Codes (4) 3 Ś 2 _ Name of Health Care Provider Care Provider Encounter Prior to TB DX Drug Treatment Center B Hospital B Medical Clinic Drug Treatment Center C Hospital A Medical Clinic Hospital B Medical Clinic Drug Treatment Center A HIV Facilty A 4=Other Public Health Clinic PMDA PMDA **PMDA** 7=Occupational Health S=TB/Chest Clinic 5=School/College Date 1996 1994 2000 2000 1996 1999 1998 1997 1998 1999 (ype HCP (3) 6=0B/GYN l=Hospital Health 2=PMD Type 10 \sim 2 6 6 6 _ -— \sim RFs (2) Ъ р 6 Ś 9 6 4=Other long-term facility employee 3=Other long-term facility resident RFs (1) 7=Homeless shelter employee Med 6=Homeless shelter resident Population Risk Factors (2) 45 12 \sim 2 Ś 9 Ś 5=Health Care Employee 2=Prison/jail employee I=Prison/jail inmate Age 43 43 2 31 53 67 38 47 37 34 Case Manager 245 246 246 247 247 247 245 247 240 6=Non-injecting Drug use 4=Abnormal CXR-Old TB Medical Risk Factors (1) 5=Injection Drug Use 7=Excess Alcohol Patient Name 3=Convertor Name/ID 1=Contact 2=HIV 3 33 47 2 61 4 9 2 3 ∞

Missed Opportunities Summary Form (By Health Case Provider - page 2 of 2)

Appendix 11

9=Unknown

)=Drug Treatment Center

10=HIV Care Facilty

1=0 other

11=Child exposed to high risk adult

13=High risk school

14=Transgender

14=>10% below ideal weight

13=Silicosis

5=Prior TB-Inadequate TX

16=organ Transplant

12=Attend balls

12=Gastrectomy/Intestinal Bypass

8=Correctional Facilty

8=Foreign-born in US <5 years

9=Travel to high-risk country

10=Migrant Worker

10=Cancer of Neack or Head

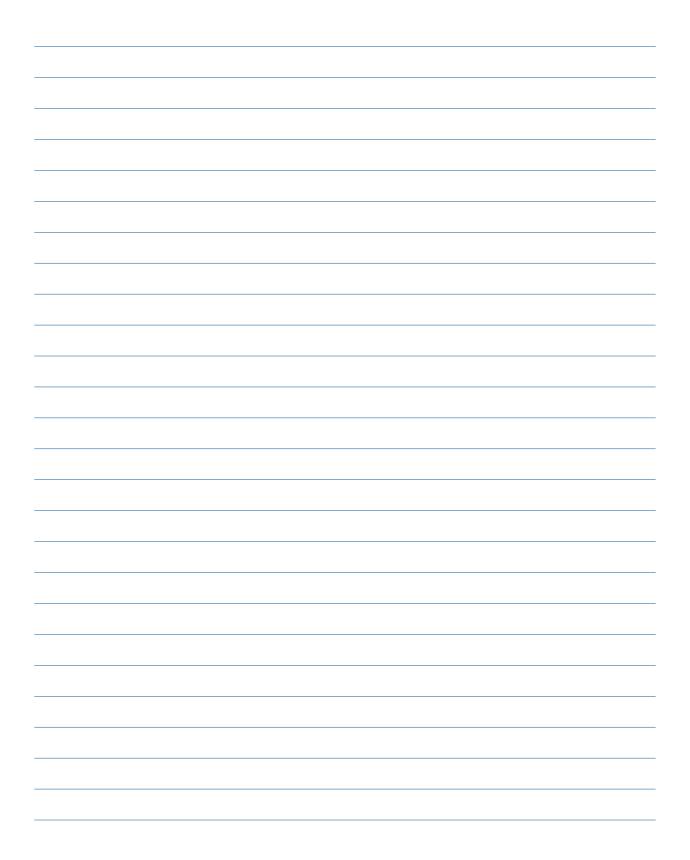
9=Steroid Therapy

8=Diabetes

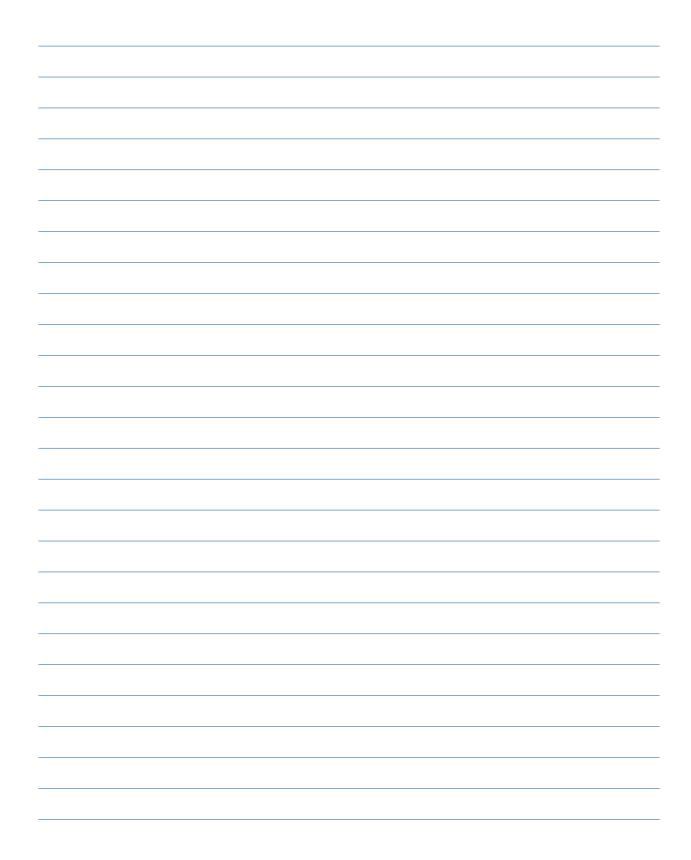
11=Dialysis/Renal Failure

8=Other

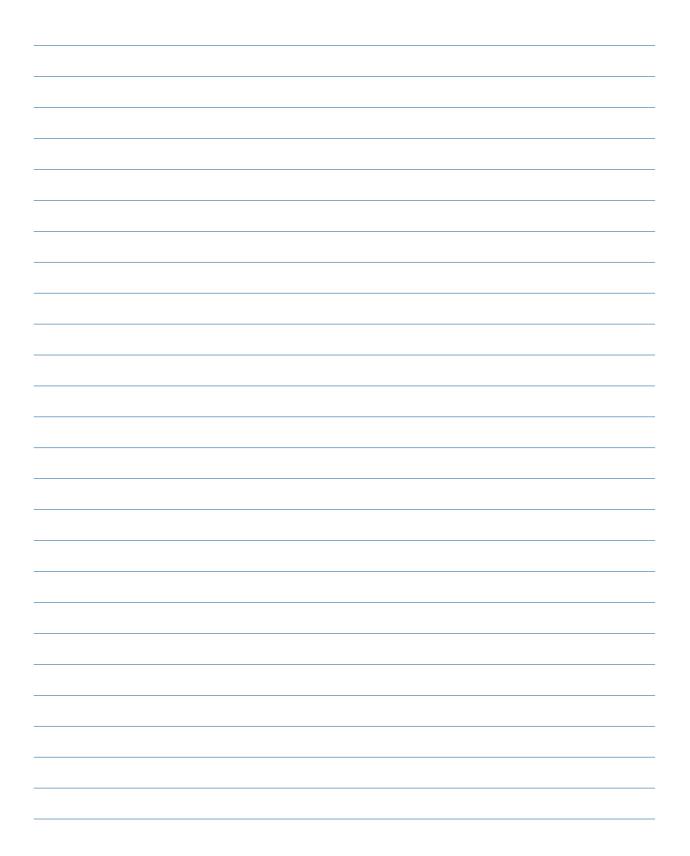
Notes



Notes



Notes





NJMS National TB Center 225 Warren Street – 1st Floor, West Wing PO Box 1709, Newark, NJ 07101-1709 Phone: 973-972-0979 http://www.umdnj.edu/ntbcweb