	LEGEND: *The text indicated in blue (seen in columns for FNIHB and BC) represents program	objectives and/or targets that have been adopted from the Guidonce for Tuberculosis										
Preamble This spreadsheet is a comparison of tuberculosis prevention and control	Prevention and Control Programs in Canada for use in Provincial TB programs *Italicized text blue is used to denote indicators that have been adapted from the Guia have not yet been implemented in the respective program	dance for Tuberculosis and Preventian Control Programs in Canada for potential use but			A Comparison of Tuberculosis Performance Indicators and Targets across TB Guidelines, Strategy Documents and Published Reports in Canada: National and Select Provinces							
program objectives, performance indicators, and targets compiled from guideline documents published by stratorial and provincial organizations in Canadas. This resource is intended for public health professionals involved in tuberculosis and control personnel to demonstrate potential stratorial by the proportional program of the public health programs in the control personnel personnel to demonstrate personnel stratorial programs. The programs is a proportional personnel personnel personnel programs and programs of the programs of the programs of programs of the programs of the programs of the programs of programs of programs of the programs of programs of		olic Health Network	Canadian TB Sta	andards, 7th Edition	Health Canada: FNIHB *See Appendix D & E for Additional Indication in the Enhanced		Al	perta	British Columbia			
Thirteen to reserve the second of the second	Guldance far Tuberculasis Preventi Pan-Canadian Public	ion and Control Programs in Canada Health Network, 2012	Canadian TB S Public Health Agency of Canada and Canadia	tandards, 7th Edition n Lung Association/Canadian Tharacic Society, 2014	Health Canada's Monitoring and Performance Fram On-Reserve: Performance Measurement Indicat	work for Tuberculasis Programs for First Nations ors - FNIHB National TB Pragram, 2013-2014	Tuberculasis in Albi 2010 to 2012, Alberta Health, Office o	rta Surveillance Report f the Chief Medical Officer of Health 2014	BC Strategic Plan for Tuberculasis Prevention, Treatment and Control: 2016 BC Centre for Disease Control. (2018). TB in British Columbia: Annual Surve Status Report, Published in 2017 Report			
Monitoring Categories									Indicators, Objective	i, and Targets for 2022		
	High-Risk Populations	Objective(s)			Indicators	Targets	Indicators	Demographic Stratifiers	Objectives	Additional Stratification by Provincial Report		
	Indigenous/Aboriginal people: First Nations/Indian, Inuit, and Metis	Reduce the incidence and burden of active TB disease and LTBI		Number age and			Incidence Rate	National vs Provincial, Health Zones, Treaty Zones Gender (M/F), age group (0- 14, 15-34, 35-64, >65 years)	Active TB incidence Rate (reduce by 50% to 3.1 per 100,000) Active TB incidence Rates in specific high risk and vulnerable groups such as	vearly, health authority, health service delivery area, age & gender (<1,1.4,5.9, 10.19, 20.39.40.59, 260 years), country of origin (born outside of Canada, Canadian born), site of disease (respiratory, non-respiratory), treatment completion status (restrainent completion status (restrainent complete) in 21 or 41 growths, incomplete		
	Migrant from countries with high TB incidence Homeless and Underhoused	Develop targeted programs and policies that improve the detection and management of active TB disease and LTBI To find active cases (refer to PHAC's Homeless and Under-housed guidelines and			Number of newly reported cases of respiratory TB by age and sex; by primary, pulmonary or other respiratory Number of newly reported cases of nonrespiratory TB by age and sex		Population group Site of Tuberculosis Disease	Canadian born, Canadian born Aboriginal/Indigenous (on-reserve or off- reserve), Foreign-born (country of birth) Respiratory, lymph node, milliary, central nervous system)	foreign-born people from TB-endemic countries, HIV-infected people, Aboriginal/indigenous peoples, homeless and under-housed populations (reduce by 50%)	treatment, left province drug treatment, no treatment documented)		
	Institutional settings: Correctional facilities & Hospitals and long-term care facilities	atatements, 2010) a. To secure the earliest possible identification and treatment of disease b. To ensure that appropriate management of contacts within the institution is conducted, in colaboration with public health authorities			Number of newly reported cases of nonrespiratory is by age and sex Number of newly reported cases of drug resistant TB by age and sex	No Targets or Goals were reported in the objectives	Site of Huberculosis Disease Drug Resistance	cespiratory, lympin node, miliarly, central nervous system) Country of birth, new active or relapse case, drug resistance type				
Incidence	TB and HIV co-infection	to maintain appropriate infection control through administrative, environmental/engineering and personal controls To secure the necessary coordination of care between health care providers/agencies and individuals in order to provide appropriate treatment and	-		Number of newly reported cases of active TB (new and re-treatment cases) who were also co-infected with HIV by age and sex		Infectiousness	Smean-positive culture-positive, smean-negative culture-positive, smean-negative culture-negative	-			
		follow-up	No specific program objectives and/or performance targe	ets regarding TB incidence rates were outlined in this document	*See Appendix D & E for Additional Indicators in the Enhance	Market of the last	HIV Co-Infection	Foreign-born, Canadian non-Aboriginal, Canadian-born Aboriginal				
					See Appeniox D & E for Additional indicators in the Elmance	monitoring to right incluence ruberculosis communities.	TB Mortality	TB was cause of death, TB contributed to death, TB did not contribute to death, age group				
					Deaths (Among Active TB Cases) Number of deaths—TB was direct cause	Targets	No provincial strategic/guidance documents were publicly available that cle- performance targets for red	rly outlined tuberculosis program objectives or indicators and the corresponding ucing TB rates in subpopulations				
					Number of deaths—TB contributed but was not cause of death	No Targets or Goals were reported in the objectives						
					Number of deaths—had TB, but TB did not contribute to death							
	Lab Procedure	Turnaround Time to Completion or Report for Laboratory Procedures	Lab Procedure	Turnaround Time to Completion or Report for Laboratory Procedures	Lab Procedure	Turnaround Time to Completion or Report for Laboratory Procedures			Procedure	Target Turnaround Time to Completion or Report for Laboratory Procedures		
	Specimen collection and arrival at the laboratory	24 hours	Specimen collection and arrival at the laboratory	24 hours	Specimen collection and arrival at the laboratory	24 hours			Specimen collection and arrival at the laboratory	24 hours		
	AFB smear microscopy	24 hours from specimen receipt	Acid-fast bacteria (AFB) smear microscopy	24 hours from specimen receipt	AFB smear microscopy	24 hours from specimen receipt			AFB smear microscopy	24 hours from specimen receipt		
	Nucleic acid amplification testing for M. tuberculosis complex detection	24 hours from smear result	Nucleic acid amplification testing (NAAT) for MTBC detection	24 hours from smear result or 24 hours from receipt of specimen	Nucleic acid amplification testing for M. tuberculosis complex detection	24 hours from smear result			Nucleic acid amplification testing for M. tuberculosis complex detection	24 hours from smear result		
Microbiological Diagnosis of Active TB Disease/Lab Reporting [Metrics]	Bacteriological diagnosis—culture	Up to 6 weeks for broth cultures and 8 weeks for solid media cultures from specimen receipt	Bacteriological diagnosis – culture	Up to 6 weeks for broth cultures and 8 weeks for solid media cultures from specimen receipt	Bacteriological diagnosis—culture	Up to 6 weeks for broth cultures and 8 weeks for solid media cultures from pecimen receipt			Bacteriological diagnosis—culture	Up to 6 weeks for broth cultures and 8 weeks for solid media cultures from specimen receipt		
	Identification of mycobacterial species	21 days from specimen receipt	Identification of mycobacterial species	Maximum 21 days from specimen receipt	Identification of mycobacterial species	21 days from specimen receipt			Identification of mycobacterial species	21 days from specimen receipt		
	Primary susceptibility testing	7-14 days from a positive culture	Primary phenotypic susceptibility testing	15 to 30 days from receipt of specimen in a primary laboratory 7-15 days from a positive culture in reference laboratories	Primary susceptibility testing	7-14 days from a positive culture			Primary susceptibility testing	7-14 days from a positive culture		
	Reporting of all test results (electronically)	24 hours from test completion	Reporting of all test results (electronically)	24 hours from test completion	Reporting of all test results (electronically)	24 hours from test completion			Reporting of all test results (electronically)	24 hours from test completion		
	Reporting of all test results (hard copy by fax or hand delivery)	48 hours from test completion	Reporting of all test results (mailed hard copy)	48 hours from test completion	Reporting of all test results (hard copy by fax or hand delivery)	18 hours from test completion			Reporting of all test results (hard copy by fax or hand delivery)	48 hours from test completion		
HIV Serologic Testing	HIV status known and reported on PHAC Active TB Case Report Form	> 90% of cases by 2015			HIV status known and reported on PHAC Active TB Case Report Form	> 90% of cases by 2015			% of active TB cases that have been HIV tested	*specific indicators for the Microbiological diagnosis of tuberculosis are under development		
	Program Objective	Performance Target			LTBI indicators				Program Objective	Performance Target (to be met by 2017)		
	HIV-positive individuals	100%	The ideal LTBI treatment delivery program will achieve, at a minimum, indicated, and at least 80% of those starting will complete the required	80% acceptance of treatment among people with LTBI in whom treatment is number of doses	b. Number of Other Contacts (not close) of Active 18 Cases diagnosed in [year]				HIV-positive individuals	100%		
	End-stage renal disease	100%	The ideal LTBI treatment delivery program will achieve at least 80% of	those starting, completing the required number of doses.	Of the total number of reported contacts of active TB cases diagnosed in (year), the number having no known past history of TB or LTBI (positive TST/IGRA), who were screened for LTBI				End-stage renal disease	100%		
	Transplant-related immunosuppression	100%			Of the number of contacts screened for LTBI above, the number with a new positive TST/IGRA or TST/IGRA conversion (i.e., number of newly identified LTBI)				Transplant-related immunosuppression	100%		
	Tumour necrosis factor alpha inhibitor use	100%			Of the number of contacts with a new positive TST/IGRA or TST/IGRA conversion above, the number recommended for treatment of LTBI				Tumour necrosis factor alpha inhibitor use	100%		
Targeted Screening for Active TB Disease and LTBI	Long-term (≥ 1 month) corticosteroid use (prednisone ≥ 15 mg/day or equivalent)	≥ 75%			Of the number of contacts recommended for treatment of LTBI above, the number who accepted treatment for LTBI	No specific performance targets and timelines were presented			Long-term (≥ 1 month) corticosteroid use (prednisone ≥ 15 mg/day or equivalent)	≥75%		
					Of the number of contacts accepting treatment of LTBI above, the number who started treatment				BC-specific indicators	are under development		
					Of the number of contacts accepting treatment of LTBI above, the number (without contraindications to INH or RMP) who started treatment							
					Of the number of contacts starting treatment of LTBI above (and without contraindications to INH or RMP), the number completing treatment within 12 months of treatment initiation							
					Of the number of contacts starting treatment of LTBI above (and without contraindications to INH or RMP), the number completing treatment at the time of reporting (irrespective of length of treatment)							
	Program Objective	Performance Target			Program Objective	Performance Target				Performance Target (to be met by 2017)		
	linitial list of contacts for each infectious TB case is completed within 7 calendar days	100%	initial list of contacts for each infectious TB case, completed within 7 calendar days		Initial list of contacts for each infectious TB case is completed within 7 calendar days	100%			Initial list of contacts for each infectious TB case is completed within 7 calendar days Average number of contacts per active TB patient Average number of contacts per respiratory active TB patient	100%		
	Assessment of close contacts completed and LTBI treatment started, if indicated and not contraindicated or refused, within 28 calendar days	1 100%	assessment of close contacts completed and LTBI treatment started, if indicated and not contraindicated or refused, within 28 calendar days	No performance targets for contact follow up were outlined in the Canadian TB Standards document	Assessment of close contacts completed and LTBI treatment started, if indicated and not contraindicated or refused, within 28 colendar days	100%			Assessment of close contacts completed and LTBI treatment started, if indicates and not contraindicated or refused, within 28 calendar days	100%		
Contact Follow-Up/Contact Tracing/Contact Investigation	Proportion of contacts with a diagnosis of LTBI who begin treatment	≥80%	proportion of contacts with a diagnosis of LTBI who begin treatment		Proportion of contacts with a diagnosis of LTBI who begin treatment	2.80%			Proportion of contacts with a diagnosis of LTBI who begin treatment	≥80%		
	Proportion of contacts beginning treatment for LTBI who complete treatment	≥80%	proportion of contacts beginning treatment for LTBI who complete treatment		Proportion of contacts beginning treatment for LTBI who complete treatment	≥ 80%			Proportion of contacts beginning treatment for LTBI who complete treatment	≥80%		

	LEGEND:	LIGHOD. And IRC represents your am objectives and/or targets that have been adopted from the Guidonce for Tuberruleus.									
Preamble	*The text indicated in blue (seen in columns for FNIHB and BC) represents program of Prevention and Control Programs in Canada for use in Provincial TB programs *Italicized text blue is used to denote indicators that have been adapted from the Guida			A Comparison of Tuberculosis Perform	ance Indicators and Targets across TB Guide	lines, Strategy Documents and Published Reports in Canada: National and Select Province	ces				
This spreadsheet is a comparison of tuberculous prevention and control program objective, performance indicates, and targets compiled from pluddeline documents published by national and provincial organizations in claude. This recursor is intended for public health professional browleved in tuberculoris and control personnel to demonstrate potential strength control, and control personnel to demonstrate potential strength country. "Monitoring Categories" formulated below are based on the classifications of objectives provided in the Pack andicide Public Health programs in Canada of solid control of the Categories of Categories of Categories of Categories of Categories of unique to the Categories of	have not yet been implemented in the enspective program Pan-Canadian Publi		Canadian TB Standards, 7th Edition	Health Canada: FNIHB *See Appendix D & E for Additional indicators in the Enhance	National TB Program Monitoring for High incidence Tuberculosis Communities*	Alberta	British Columbia				
Framework for Tuberculosis Programs for First Nations On-Reserve	Guldance for Tuberculosis Prevention Pan-Canadian Public H	n and Control Programs in Canada lealth Network, 2012	Canadian TB Standards, 7th Edition Public Health Agency of Canada and Canadian Lung Association/Canadian Thoracic Society, 2014	Health Canada's Monitoring and Performance Fram On-Reserve: Performance Measurement Indica	ework for Tuberculosis Programs for First Nations tors - FNIHB National TB Pragram, 2013-2014	Tuberculasis in Alberta Surveillance Report 2010 to 2012, Alberta Health, Office of the Chief Medical Officer of Health 2014	BC Strategic Plan for Tuberculosis Prevention, Treatment and Control: 2016 BC Centre for Disease Control. (2018). T8 in British Columbia: Annual Surveillance Status Report, Published in 2017				
Monitoring Categories							Indicators, Objectives	, and Targets for 2022			
	Proportion of contacts completing treatment who show active TB disease within 2 years after completion	< 0.5 %	proportion of contacts completing LTBI treatment who show active TB disease within 2 years after completion	Proportion of contacts completing treatment who show active TB disease within 2 years after completion	< 0.5 %		Proportion of contacts completing treatment who show active TB disease within 2 years after completion	< 0.5 %			
	Proportion of contacts with LTBI at high risk of progression to active TB disease, but unable or unwilling to be treated for LTBI who have chest radiography and sputum smear plus culture at 6, 12 and 24 months	≥ 90%		Proportion of contacts with LTBI at high risk of progression to active TB disease, but unable or unwilling to be treated for LTBI who have chest radiography and sputum smear plus culture at 6, 12 and 24 months	≥ 90%		Proportion of contacts with LTBI at high risk of progression to active TB disease, but unable or unwilling to be treated for LTBI who have chest radiography and sputum smear plus culture at 6, 12 and 24 months	≥90%			
				See Appendix D & E for Additional Indicators in the Enhance	d Monitoring for High Incidence Tuberculosis Communities			1			
	Program Objective	Performance Target		Program Objective	Performance Target		Program Objective	Performance Target (to be met by 2017)			
	Started on anti-TB drugs within 48 hours of diagnosis	≥ 95% of cases		Started on anti-TB drugs within 48 hours of diagnosis	≥ 95% of cases		Started on anti-TB drugs within 48 hours of diagnosis	≥ 95% of cases			
	Treated by standard or enhanced directly observed therapy	≥ 90% of cases		Treated by standard or enhanced directly observed therapy	≥ 90% of cases		Treated by standard or enhanced directly observed therapy	≥ 90% of cases			
	Treatment started with 4 or more anti-TB drugs until drug sensitivity test results are available, unless there are current local drug sensitivity data showing that resistance is not a risk	≥ 90% of cases		Treatment started with 4 or more anti-TB drugs until drug sensitivity test results are available, unless there are current local drug sensitivity data showing that resistance is not a risk	≥ 90% of cases		Treatment started with 4 or more anti-TB drugs until drug sensitivity test results are available, unless there are current local drug sensitivity data showing that resistance is not a risk	≥90% of cases			
	Sputum culture conversion in culture-positive, drug-sensitive respiratory cases	≥ 80% have 3 consecutive negative sputum cultures within 60 days of treatment initiation		Sputum culture conversion in culture-positive, drug-sensitive respiratory cases	≥ 80% have 3 consecutive negative sputum cultures within 60 days of treatment initiation		Sputum culture conversion in culture-positive, drug-sensitive respiratory cases	2 80% have 3 consecutive negative sputum cultures within 60 days of treatment initiation			
	Treatment success (cure or completion) within 12 months of treatment initiation for patients who did not die or transfer out during treatment	2: 90% of cases		Treatment success (cure or completion) within 12 months of treatment initiation for patients who did not die or transfer out during treatment	≥ 90% of cases		Treatment success (cure or completion) within 12 months of treatment initiation for patients who did not die or transfer out during treatment	≥90% of cases			
Treatment of Active TB Disease	Re-treatment rate within 2 years after the end of previous treatment in Canada	£ 3%		Re-treatment rate within 2 years after the end of previous treatment in Canada	s 396		Re-treatment rate within 2 years after the end of previous treatment in Canada	s 3%			
	Acquired drug resistance rate	0%		Acquired drug resistance rate	0%		Acquired drug resistance rate	0%			
				Number of TB cases (active and re-treatment) diagnosed in (year) Number of TB cases (active and re-treatment) diagnosed in (year) who completed treatment (including cured) within one year of treatment start date Number of TB cases diagnosed in (year) who died before or during treatment within one year of treatment start date Number of TB cases diagnosed in (year) who transferred out before treatment completion within one year of treatment start date	No national performance targets were given in this document						
	Program Objective	Performance Target		Program Objective	Performance Target		Program Objective	Performance Target			
Immigration Medical Surveillance	Proportion of individuals referred for immigration medical surveillance who (1) keep the first appointment with the clinic/physician or who have been evaluated by public health and (2) the relevant provincial/territorial authorities have reported usuch information to Citizenship and immigration Canada			Proportion of individuals referred for immigration medical surveillance who (1) keep the first appointment with the clinic/physician or who have been evaluated by public health and (2) the relevant provincial/territorial authorities have resported such information to Otterwahn and Immigration Canada			Proportion of individuals referred for immigration medical surveillance who (1) keep the first appointment with the clinic/physician or who have been evaluated by public health and (2) the relevant provincial/territorial authorities have reported such information to Citizenship and immigration Canada	*Specific indicators [and targets] are under development*			
BCG Vaccination	The National Advisory Committee on Immunization Issues guidelines on the use of 8	ICG vaccine and will provide future guidelines as new TB vaccines become available	BCG is currently recommended in Canada for infants in high-incidence settings and also may be administered to travellers returning for extended stary to a high TB incidence country where BCG is routinely given. Vaccination in infants in First Nations and final communities or groups of people with an average annual rate of smare-positive pulmonary TB enter than 1014,000 deep opposition, or an amount and et of climps reported pulmonary TB enter than 1014,000 deep be revious a Years, or a annual rake of TB infection (ABI) greater than 0.13%, or if early identification and treatment of LTBI are not available	Number of births eligible to receive BCG	Only relevant for regions where BCG is still in use						
Outbreaks				Performance Indicator Number of new outbreaks (new in the reporting period) Number of outbreaks in (year) that were ongoing from previous year Number of active TB cases per new outbreak Number of active TB cases per outbreak ongoing from previous year(s)	No target was published for these performance indicators						
	http://www.ghn-np.ca/mbh/ethprp-opperto/pdi	reigi: West ance for Tuberculosis Prevention eng.pdf	Resource(s): Canadian Tuberculosis Sandardis, Thi Edition, page 145 & 306 https://atpsess.ac/EMM/CAsp.content/spb.sis/2014/13 Kanadian, TB_classificeth, Thi-edition_English.pdf	https://www.canada.ca/en/health-canada/pervices/publications/science-research	-data/monitoring-performance-framework-tuberculosis-programs-first-nations-	Peccuracy): https://open.alberta.ca/det.ser/M6666851-2c76-4168-add-1078618646/resource/de-2018-2018-4018-6018-ald-763c0486/download-6775290-2014- tailere.lines.alberta.urceill.ance.escent.2010.2012-2014-06.pdf	Status Report http://www.bccdc.ca/resource- gallery/Documents/Statistics%20and%20Research/Statistics%20and%20Reports	BC Centre for Disease Control. (2018). TB in British Columbia: Annual Surveillance Report 2016. Retrieved from			

Preamble			A Comparison of TB	Performance Indicators from Select States	in the United States of America		
The following spreadsheet is a tabular compilation of State-level tuberculosis prevention and control program objectives, indicators, and targets in the United States compared to the	United States Center for Disease Control (CDC)	Ala	iska	Cali	fornia	Mini	nesota
National TB Program Objectives and Performance set forth by the Center for Disease Control. This resource is intended for use by those involved in tuberculosis public health programming and will give an insight on what unique indicators are asto being measured and reported by the relevant health authorities. "Monitoring Categories" formulated below are based on the classifications of objectives provided in CDC's National TB Program Objectives & Performance Targets for 2020	From United States National TB Program Objectives and Performance Targets for 2020 Centers for Disease Control and Prevention, Division of Tuberculosis Elimination, 2015	Alaska Tuberculosis Program Manual Alaska Department of Health and Social Services, 2017	Tuberculosis in Aloska 2014 Annual Report	Colifornia Objectives and Targets 2015-2019 California Department of Public Health - Tuberculosis Control Branch, 2015	California 2017 Provisional Data Tables	Tuberculosis (TB) Prevention and Control Program Objectives for Minnesota, 2015—2019 Minnesota Department of Health, 2015	Tuberculosis Prevention and Control Program Quarterly Surveillance Report, JANUARY 1, 2019 – MARCH 31, 2019
Monitoring Categories	Indicators (& 2020 Targets)	Indicators (& 2020 Targets)	Additional Stratification by State Reports	Indicators (& 2019 Targets)	Additional Stratification by State Reports	Indicators (& 2019 Targets)	Additional Stratification by State Reports
Goals for Reducing TB Incidence							
TB Incidence Rate	Reduce the incidence of TB disease (1.4 cases per 100,000)	Reduce the incidence of TB disease (1.4 cases per 100,000)	sex (M/F), median age, regional trends within state, proportion of total cases from the vulnerable populations (homeless, HIV-positive, IV and non-IV drug use, excessive alcohol use > 15 years old), body site of non pulmonary TB		Percent change in TB incidence rate from previous year and 10 year change (in all demographics), sex (N/F), reporting jurisdiction, homeless, correctional facility resident, long-term care facility resident, drug use (IV/non-IV), alcohol use, occupation of the infected person,	Reduce the incidence of TB disease (-)	geographic region in state (counties), age (<5, 5-14, 15-24, 25-44, 45-64, >65 years), risk category (substance use, bomeless, HIV-infected, other medical condition, inmate, nursing home resident), specified site of non-pulmonary TB (pulmonary, extrapulmonary, or both)
U.SBorn Persons	Decrease the incidence of TB diseases among U.S-born persons (0.4 cases per 100,000)	a. Decrease the incidence of TB diseases among U.S-born persons (0.4 cases per 100,000) b. Decrease the incidence of TB diseases among among U.S-born persons who are not Alaska Native (0.4 cases per 100,000) c. Decrease the incidence of TB disease among Alaska Native persons (20 cases per 100,000)	Alaska Native vs Non-Native cases	Decrease the incidence of TB diseases among U.S-born persons (1.1 cases per 100,000)	Race/Ethnicity: White, American Indian/alaska Native, Native Hawaiian/Pacific Islander, Multi-racial	Not indicator or target was explicitly stated in guidance document, however, it is reported in surveillance reports	
Foreign-Born Persons	3. Decrease the incidence of TB disease among foreign-born persons (11.1 cases per 100,000)	Decrease the incidence of TB disease among foreign-born persons (11.1 cases per 100,000)	Country of origin of foreign-born cases	Decrease the incidence of TB disease among foreign-born persons (10.8 cases per 100,000)	Reporting number of cases and incidence rate per Birthplace	Not indicator or target was explicitly stated in guidance document, however, it is reported in surveillance reports	·
U.SBorn Non-Hispanic Blacks or African Americans	Decrease the incidence of TB disease among U.Sborn non-Hispanic blacks or African Americans (1.5 cases per 100,000)	Decrease the incidence of TB disease among U.Sborn non-Hispanic blacks or African Americans (1.5 cases per 100,000)	Incidence rate stratified by multiple races/ethnicities (eg. white, black/african-american, foreign-born, etc)	Decrease the incidence of TB disease among U.Sborn non-Hispanic blacks or African Americans (2.2 cases per 100,000)	Both the number of cases and the incidence rate per 100,000 population is reported	Not indicator or target was explicitly stated in guidance document, however, it is reported in surveillance reports	Incidence rate stratified by multiple races/ethnicities: white, black, hispanic/latino, asian, hawaiin/other pacific islander, american indian, multiracial
Children Younger than 5 years of Age	5. Decrease the incidence of TB disease among children younger than 5 years of age (0.3 cases per 100,000)	Decrease the incidence of TB disease among children younger than 5 years of age (0.3 cases per 100,000)	Pediatric case rate for children < 15 years old (0-14); school-based TB program (Alaska's <15 population has a higher TB incidence rate than the rest of the U.S)	Decrease the incidence of TB disease among children younger than 5 years of age (pediatric case rate: 1.9 cases per 100,000)	age groups: 0-4, 5-14, 15-24, 25-44, 45-64 and 65+	Not indicator or target was explicitly stated in guidance document, however, it is reported in surveillance reports	-
Objectives on Case Management and Treatment							
Known HIV Status	6. Increase the proportion of TB patients who have a positive or negative HIV test result reported (98%)	Increase the proportion of TB patients who have a positive or negative HIV test result reported (98%)	-	Proportion of TB patients who have a positive or negative HIV test result reported (96.2%)	Stratified by medical risk factors: diabetes mellitus, TNF-alpha Antagonist Therapy, end-stage renal disease, post-organ transplant, other immunosuppressive condition	Proportion of TB patients with a known HIV status reported (94%)	
Treatment Initiation	 For TB patients with positive acid-fast bacillus (AFB) sputum-smear results, increase the proportion who initiated treatment within 7 days of specimen collection (97%) 	For TB patients with positive acid-fast bacillus (AFB) sputum-smear results, increase the proportion who initiated treatment within 7 days of specimen collection (97%)	-	Proportion of TB patients with positive acid-fast bacillus (AFB) sputum-smear results who initiated treatment within 7 days of specimen collection (95.5%).		Proportion of TB patients with positive acid-fast bacillus (AFB) sputum-smear results who initiated treatment within 7 days of specimen collection (98%).	
Recommended Initial Therapy	8. For patients whose diagnosis is likely to be TB disease, increase the proportion who are started on the recommended initial 4-drug regimen (97%)	For patients whose diagnosis is likely to be TB disease, increase the proportion who are started on the recommended initial 4-drug regimen (97%)	-	For patients whose diagnosis is likely to be TB disease, increase the Proportion who are started on the recommended initial 4-drug regimen (95.2%)		For patients whose diagnosis is likely to be TB disease, increase the Proportion who are started on the recommended initial 4-drug regimen (94%)	
Sputum Culture Result Reported	For TB patients ages 12 years or older with a pleural or respiratory site of disease, increase the proportion who have a sputum culture result reported (98%)	For TB patients ages 12 years or older with a pleural or respiratory site of disease, increase the proportion who have a sputum culture result reported (98%)	-	For TB patients ages 12 years or older with a pleural or respiratory site of disease, increase the proportion who have a sputum culture result reported (98%).		For TB patients ages 12 years or older with a pleural or respiratory site of disease increase the proportion who have a sputum culture result reported (96%).	
Sputum Culture Conversion	10. For TB patients with positive sputum culture results, increase the proportion who have documented conversion to negative results within 60 days of treatment initiation (73%)	For TB patients with positive sputum culture results, increase the proportion who have documented conversion to negative results within 60 days of treatment initiation (73%)	-	For TB patients with positive sputum culture results, increase the proportion who have documented conversion to negative results within 60 days of treatment initiation (76%).		For TB patients with positive sputum culture results, increase the proportion wh have documented conversion to negative results within 60 days of treatment initiation (72%).	
Completion of Treatment	11. For patients with newly diagnosed TB disease for whom 12 months or less of treatment is indicated, increase the proportion who complete treatment within 12 months (95%)		-	For patients with newly diagnosed TB disease for whom 12 months or less of treatment is indicated, increase the proportion who complete treatment within 12 months (88.9%)	administered therapy; treatment outcomes: completed in less than 12 months,	For patients with newly diagnosed TB disease for whom 12 months or less of treatment is indicated, increase the proportion who complete treatment within 12 months (95%)	·
				Proportion of deaths due to TB (5.6%)	Stratified by vital status: dead at diagnosis, alive at diagnosis, or alive and started treatment		
				Proportion of inappropriate self-administered therapy (2.0%)	·		
Objectives on Laboratory Reporting							
Turnaround Time - Culture	12. For TB patients with cultures of respiratory specimens identified with M. tuberculosis complex (MTGC), increase the proportion reported by the laboratory within 25 days from the date the specimen was collected (78%). NOTE: 25 days includes 21 days for culture to grow and 4 days for specimen collection and delivery to lab.	Percentage of culture-positive or nucleic acid amplification test-positive M. tuberculosis complex results will be reported by the laboratory within 21 days from the date the initial specimen is received (85% by 2015)		For TB patients with cultures of respiratory specimens identified with M. tuberculosis complex (MTBC), increase the proportion reported by the laboratory within 25 days from the date the specimen was collected (67.9%). NOTE: 25 days includes 21 days for culture to grow and 4 days for specimen collection and delivery to lab.			
Turnaround Time - NAA	13. For TB patients with respiratory specimens positive for MTBC by nucleic acid amplification (NAA), increase the proportion reported by the laboratory within 6 days from the date the specimen was collected (92%). NOTE: 6 days includes 2 days for detection and 4 days for specimen collection and delivery to lab.		Number of patients who received NAA Testing	For TB patients with respiratory specimens positive for MTBC by nucleic acid maplification (NAA), increase the proportion reported by the laboratory within 6 days from the date the specimen was collected (96.2%). NOTE: 6 days includes 2 days for detection and 4 days for specimen collection and delivery to lab *Proportion of Nucleic Acid Amplification Test used - Smear-Positive TB (74.7% *Proportion of Nucleic Acid Amplification Test used - Smear-Negative TB (30.8%)		Turnaround Time for Culture not listed as an indicator in the Minesota strategic document. There are also no targets/goals highlighted for this indicator	
Drug-Susceptibility Result	14. For TB patients with positive culture results, increase the proportion who have initial drug-susceptibility results reported (100%)	Percentage of initial M. tuberculosis isolates will undergo susceptibility testing (100%)	Proportion of cases that were isoniazid-resistant & Proportion of cases that were multiple drug resistant (MDR-TB)	For TB patients with positive culture results, increase the proportion who have initial drug-susceptibility results reported (98%)	Country of origin for the drug resistant cases	Drug-susceptibility results reported for culturepositive cases (100%)	Number of cases with any drug resistance to first-line anti-TB medications, Number of cases with any isoniazid resistance, Number of cases with multi-drug resistantTB

Preamble			A Comparison of TB	Performance Indicators from Select States in the United States of America						
The following spreadsheet is a tabular compilation of State-level tuberculosis prevention and control program objectives, indicators, and targets in the United States compared to the National TB Program Objectives and Performance set forth by the	United States Center for Disease Control (CDC)	Ala	ska	Cal	ifornia	Minne	sota			
Center for Disease Control. This resource is intended for use by those involved in tuberculosis public health programming and will give an insight on what unique	From United States National TB Program Objectives and Performance Targets for 2020 Centers for Disease Control and Prevention, Division of Tuberculosis Elimination, 2015	Alaska Tuberculosis Program Manual Alaska Department of Health and Social Services, 2017	Tuberculosis in Alaska 2014 Annual Report	Colifornia Objectives and Targets 2015-2019 California Department of Public Health - Tuberculosis Control Branch, 2015	California 2017 Provisional Data Tables	Tuberculosis (18) Prevention and Control Program Objectives for Minnesota, 2015 – 2019 Minnesota Department of Health, 2015	Tuberculosis Prevention and Control Program Quarterly Surveillance Report, JANUARY 1, 2019 – MARCH 31, 2019			
Universal Genotyping	15. For TB patients with a positive culture result, increase the proportion who have a MTBC genotyping result reported (100%)			For TB patients with a positive culture result, increase the proportion who hav a MTBC genotyping result reported (98%)	ce Cases are stratified by cluster size	Universal genotyping of culture-positive cases (100%)	·			
				Interferon-Gamma Release Assay	Stratified by result: positive, negative, not performed, indeterminate, or unknown					
Objectives on Contact Investigations										
Contact Elicitation	16. For TB patients with positive AFB sputum-smear results, increase the proportion who have contacts elicited (100%)		Count of contacts to smear positive cases Percentage of cases with named contacts	For TB patients with positive AFB sputum-smear results, increase the proportion who have contacts elicited (98%)	-	For TB patients with positive AFB sputum-smear results, increase the proportion who have contacts elicited (100%)				
	For contacts to sputum AFB smear-positive TB cases, increase the proportion who are examined for infection and disease (93%).		Proportion of contacts evaluated for TB infection/disease, percentage of contacts with LTBI, percentage of contacts with [active] TB disease	For contacts to sputum AFB smear-positive TB cases, increase the proportion who are examined for infection and disease (95.6%).	-	For contacts to sputum AFB smear-positive TB cases, increase the proportion who are examined for infection and disease (90%).				
	18. For contacts to sputum AFB smear-positive TB cases diagnosed with latent TB infection, increase the proportion who start treatment (91%).	Percentage of TB patients with positive AFB smears will begin treatment within 7 days of specimen collection (90%).	Proportion of contacts started on therapy	For contacts to sputum AFB smear-positive TB cases diagnosed with latent TB infection, increase the proportion who start treatment (93.8%).		For contacts to sputum AFB smear-positive TB cases diagnosed with latent TB infection, increase the proportion who start treatment (91.%).	·			
	19. For contacts to sputum AFB smear-positive TB cases who have started treatment for latent TB infection, increase the proportion who complete treatment (81%)		Proportion of contacts who completed thereapy	For contacts to sputum AFB smear-positive TB cases who have started treatment for latent TB infection, increase the proportion who complete treatment (88%)		For contacts to sputum AFB smear-positive TB cases who have started treatment for latent TB infection, increase the proportion who complete treatment (79%)	·			
Objectives on Examination of Immigrants and Refugees										
Examination Initiation	20. For immigrants and refugees with abnormal chest radiographs (X-rays) read overseas as consistent with TB, increase the proportion who initiate a medical examination within 30 days of notification (84%).			For immigrants and refugees with abnormal chest radiographs (X-rays) read overseas as consistent with TB, increase the proportion who initiate a medical examination within 30 days of notification (63.5%).		For immigrants and refugees with abnormal chest radiographs (X-rays) read overseas as consistent with TB, increase the proportion who initiate a medical examination within 30 days of notification (64.8%).	Follow-up to Pre-Immigration Exam			
Examination Completion	21. For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB, increase the proportion who complete a medical examination within 90 days of notification (76%).		•	For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB, increase the proportion who complete a medical examination within 90 days of notification (45.6%).	Proportion of Immigrants and Refugees that completed evaluation	For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB, increase the proportion who complete a medical examination within 90 days of notification (62%).	•			
	22. For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB who are diagnosed with latent TB infection or have radiographic findings consistent with prior pulmonary TB (ATS/CDC Class 4) on the basis of examination in the U.S., for whom treatment was recommended, increase the proportion who start treatment (93%)	According to the Tuberculosis Manual 2017, Alaska TB programming uses the same indicators and targets for 2020, unless otherwise indicated		For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB who are diagnosed with latent TB infection or have radiographic findings consistent with prior pulmonary TB (ATS/CDC Class 4) on the basis of examination in the U.S., for whom treatment was recommended, increase the proportion who start treatment (67.4%)		For immigrants and refugees with abnormal chest X-rays read overseas as consistent with T8 who are diagnosed with latent T8 infection or have radiographic findings consistent with prior pulmonary T8 (ATS/CC Class 4) on the basis of examination in the U.S., for whom treatment was recommended, increase the proportion who start treatment (87.3%)				
Treatment Completion	23. For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB who are diagnosed with latent TB infection or have radiographic findings consistent with prior pulmonary TB (ATS/CDC Class 4) on the basis of examination in the U.S., and who have started on treatment, increase the proportion who complete treatment (83%).			For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB who are diagnosed with latent TB infection or have radiographic findings consistent with prior pulmonary TB (ATS/CC Class 4) on the basis of examination in the U.S., and who have started on treatment, increase the proportion who complete treatment (28.1%).		For immigrants and refugees with abnormal chest X-rays read overseas as consistent with TB who are diagnosed with latent TB infection or have radiographic findings consistent with prior pulmonary TB (ATS/CC Class 4) on the basis of examination in the U.S., and who have started on treatment, increase the proportion who complete treatment (75.7%).				
Objectives on Data Reporting										
RVCT	24. Ensure the completeness of each core Report of Verified Case of Tuberculosis (RVCT) data item reported to CDC, as described in the TB cooperative agreement announcement (100%).	Percentage of core RVCT4 data items will be reported to CDC (99%)	-	Ensure the completeness of each core Report of Verified Case of Tuberculosis (RVCT) data item reported to CDC, as described in the TB cooperative agreement announcement (98%).	-	Ensure the completeness of each core Report of Verified Case of Tuberculosis (RVCT) data item reported to CDC, as described in the TB cooperative agreement announcement (X).	-			
ARPE	25. Ensure the completeness of each core Aggregate Reports for Tuberculosis Program Evaluation (ARPE) data items reported to CDC, as described in the TB cooperative agreement announcement (100%).	Percentage of ARPE core data will be reported to CDC (100%)		Ensure the completeness of each core Aggregate Reports for Tuberculosis Program Evaluation (ARPE) data items reported to CDC, as described in the TB cooperative agreement announcement (88.9%).		Ensure the completeness of each core Aggregate Reports for Tuberculosis Program Evaluation (ARPE) data items reported to CDC, as described in the TB cooperative agreement announcement (100%).				
EDN	26. Ensure the completeness of each core Electronic Disease Notification (EDN) system data item reported to CDC, as described in the TB cooperative agreement announcement (93%).	For individuals who can be located, the percentage of core EDN data that will be reported to CDC (90% in 2015)		Ensure the completeness of each core Electronic Disease Notification (EDN) system data item reported to CDC, as described in the TB cooperative agreement announcement (90%).		Ensure the completeness of each core Electronic Disease Notification (EDN) system data item reported to CDC, as described in the TB cooperative agreement announcement (X).				
Objectives on Program Evaluation										
	27. Increase program evaluation activities by monitoring program progress and tracking evaluation status of TB cooperative agreement recipients									
Evaluation Focal Point	28. Increase the percent of TB cooperative agreement recipients that have an evaluation focal point.									
Human Resource Development										
	29. Increase the percent of TB cooperative agreement recipients who submit a program-specific human resource development plan (HRD) and a yearly update of progress, as outlined in the TB Cooperative Agreement announcement									
	30. Increase the percent of TB cooperative agreement recipients that have a TB training focal point									
	Resource(s): National TB Program Objectives https://www.cdc.gov/fb/programs/evaluation/indicators/default.htm	National Tuberculosis Program Objectives and Performance Targets for	http://dhss.alaska.gov/dph/Epi/Documents/pubs/webtb/TB Report 2	https://hpspubsrepo.blob.core.windows.net/hps-	/TBCB-TB-Provisional-Tables-2018.pdf	Resource Y Tuberculosis Prevention and Control Program Objectives for Minnesota, 2019 https://www.health.state.mn.us/diseases/tb/tbprogramobjectives.pdf				
	https://www.cdc.gov/tb/programs/evaluation/indicators/default.htm	2020, Table 1 (page 1.13)	http://dhss.alaska.gov/dph/Epi/Documents/pubs/webtb/TB Report 2	website/nss/2657/documents/1_tb-annual-report-2018-10-30.pdf	/TBCB-TB-Provisional-Tables-2018.pdf					

The following table provides a comparison of performance			A Comparison of Performance Indicators for TB Prevention and Control in the United Kingdom							
indicators (PIs) for TB prevention and control across four countries in the UK. Indicators and stratification/comparisons are based on			Indicators listed in country's TB Strategy or Framework							
information provided in recent annual TB surveillence reports for each country. Two countries (England and Scotland) have		Legend-	highlighted in pink. Indicators listed in Strategy/Framework that are not yet							
developed TB PI frameworks to help guide monitoring and progress towards TB elimination - the indicators described in these			monitored are written in RED		I		1			
frameworks have been highlighted in the table (as noted in the legend).	England		Scot	tland	Wa	les	Northe	rn Ireland		
	From:Tuberculosis in England: 2018 Presenting data to end of 2017 and	d Collaborative Tuberculosis Strategy for England	Enhanced Surveillance of Mycobacterial Infections(ESN	(II) in Scotland:2018 Tuberculosis Annual Report and TB	Tuberculosis in Wales Annual Repo	ort 2018: Data to the end of 2017	Epidemiology of Tuberculosis in Northern Ireland: Annual Surveillence Report 2016			
	2015 to 2020		Framework for Sc	cotland (May2018) .			,			
Monitoring Categories	Indicators	Stratification/Comparisons	Indicators	Stratification/Comparisons	Tuberculosis in Wales Report Indicators	Stratification/Comparisons	Epidemiology of Tuberculosis in Northern Ireland- Indicators	Stratification/Comparisons		
							Northern relatio- mulcators			
TB Notifications and Incidence										
Overall numbers, rates and geographical										
distribution	Overall TB incidence per 100,000 population	10 year trend for England; Notifications and rate by TB	3 1 Incidence rate of TR per 100 000	gender, age	Number of cases and rate of TB by Local Health Board		Overall number of cases and rates of infection	Gender, Age group		
	(Number of TB notifications and Rates)	Control Board; notification by Public Health of England Centre (PHFC):Three year average TR rate by CCG			and Local Authorities		1			
	Number of TB notification and rate by TB Control Board		Changes in incidence and cases of TBH	Annual comparision	2.Number of cases and rate of TB	Gender, Age Group, Ethnic group	 Tuberculosis case reports and rates by Health and Social Care Trust 	Local health district		
	3. Number of TB notification by Public Health of England Centre (PHEC)		3. ESMI tuberculosis notifications by NHS board		3.Rate of TB per 100,000 population by deprivation quintile (caes, rate, percentage with CI)	Quinitle 1 (most deprived) through 5 (least deprived)	Northern Ireland three year moving average TB rates per 100.000	er Incidence rate, Local Health District, Age group		
	Three year average TB rate by CCG (Clinical Commissioning Groups)		4.Proportion of tuberculosis caes and deprivation	Quinitle 1 (most deprived) through 5 (least deprived)			Rate of TB by deprivation	Quinitle 1 (most deprived) through 5 (least deprived)		
	Three year average TB rate by Local Authority District		5 Percentage of TR cases, reviewed at MDT rounds aiming for	v.	1					
			Percentage of TB cases reviewed at MDT rounds aiming for review within 6-8 weeks of initial diagnosis		1					
	6. Rate of TB per 100,000 population by deprivation quintile	quintile1 (most deprived) through 10 (least deprived)	6. Percentage of TB cases reviewed as part of a systematic cohort review	yearly	1					
Demographic Characteristics										
Demographic Characteristics	TB Incidence in UK born populations***	ethnic group, UK geographical distribution	TB incidence in UK born populations	age group	TB incidence in UK born populations	UK Born, Non UK born, Unknown	Number and rates in UK born population	Ethnicity		
							1			
	TB incidence in non-UK born populations ***		2.Number and proportion of tuberculosis cases reported to ESMI born outside the UK	ethnicity and place of birth	Number and percentage of TB cases by world region of birth for non-UK born cases	Country of birth	Number and rates in Non UK born population	Place of birth, ethnicity		
	2a.Number of TB notifications and rates by age group and place of birth,		2a.Tuberculosis cases by age group and place of birth		Number and percentage of time between UK entry and TB diagnosis for non-UK born cases	<2 years; 2-5 years; 6-10 years; >10 years; not recorded	Number and percentage of time between UK entry and TB diagnosis for non-UK born cases	< 2 years; 3-9 years; >10 years		
	2b.Number of TB notifications and rates by PHE Centre and place of birth		2b.Tuberculosis notification rates by place of birth							
	2c.Trend in the number of people with TB for the top five countries of birth for		2c.Number of tuberculosis cases and rate per 100,000							
	those born outside the UK		population by age group and sex							
	2d. Most frequent countries of birth for people with TB and time between entry to the UK and TB notification		2d.Most frequent countries of birth for non-UK born and Ti cases							
	2e.Time between entry to the UK and TB notification for people born outside the UK	Diagnosed within two years of entry; between three and nine years of entry, been in Northern Ireland for	2e. Time between entry to the UK and TB notification for people born outside the UK	Diagnosed within 2 years of entry; within 5 years and 10 years of entry						
		ten or more years before diagnosis								
Occupation										
	1. Not In education or employed		Percentage of people are health care workers							
	2.Studying or working in education		Number of attitudinal surveys administered to service use	rs	1					
	L		to identify needs of local service users and refinement of framework		1					
	3. Healthcare workers				1					
	4. Working in other occupations				1					
Clinical Characteristics										
Clinical Characteristics	Proportion of people with pulmonary TB		Number and Proportions of Pulmonary TB	age group, gender, UK vs non UK born	Number and percentage of TB cases by site of disease	Identify site of disease, pulmonary, extra-pulmonary	Number and proportions of Pulmonary TB	with non pulmonary disease and site; age with gender, UK		
Site of disease			, .	-9-9-9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,		vs Non Uk born. By Local health district		
Site of disease	2. Proportion of people with extra pulmonary TB in at least one other site	site of disease	2. Number and Proportion of Non-Pulmonary TB	age, gender, site of disease, UK vs Non UK born	1		2. Number and proportion of Non-Pulmonary TB	site of disease, UK vs Non UK born, Local health district, age with gender		
	Proportion of people notified that received DOT with new TB diagnosis	proportion of cases reporting at least one social risk	Percentage of patients enrolled in DOT program	Proportion of cases reporting at least one social risk factor assigned DOT: Medication observation on DOT- 3. 5 or 6	Percentage of patients enrolled in DOT program	pecentage of people with at least one risk factor				
		factor assigned DOT	Proportion of people were diagnosed as Hospital inpatient	times per week	Pecentage of people with planned course of treatment					
			2. Proportion or people were diagnosed as Hospital Inpatient	is .	2. Pecentage of people with planned course of treatment					
			3. Proportion of people admitted to hospital for treatment		1					
Treatment			Percentage of people requring ECM or DOT receive							
			assessment of risk/needs prior to commencement of treatment to identify additional supports							
			5. Number of TB cases complete treatment							
			(target >85%)		1					
			6 Percentage of TB cases managed or consulted by TB expe							
	1.Previous diagnosis of TB with current notification		Proportion of people had previous diagnosis of TB prior to current notification		Number and percentage of TB cases with previous TB diagnosis at current notification		Number of people had previous diagnosis of tuberculos with current notification	is years since last diagnosis		
	1a. Previous treatment for TB with current notification									
Previous history of TB	1b. Received DOT during current notification									
	1c. Time known since previous diagnosis									
					2 cases					
Co-morbidities	Number of people with TB by co-morbidity status									
Travel and visitor risk factors	Number & proportion of people with TB with history of travel to and visitors received from a country outside the UK in the last two year prior to diagnosis									
Laboratory confirmation among people notified	, and a supplied to									
with TB										
	 Number and proportion of people with TB not confirkmed with culture rather by alternative method 	у	Method of identification of TB cases (%)		Number and percentage of TB cases identified with culture confirmation		 Number and percentage of TB cases identified with culture confirmation 	type of bacterial infection identified		
	2.Unmatched isolates by specimen year		Pecentage people presented with an illness subsequently diagnosed as tuberculosis		Number and percentage of culture confirmation with pulmonary cases		Number and percentage of culture confirmation with pulmonary cases	type of bacterial infection identified		
	3. Proportion of pulmonary TB cases were culture positive		3. Proportion of TB cases were culture positive		Number and percentage of pulmonary cases identifed			clinical/non clinical diagnosis, response to anti tuberculosis		
					with sputum smears taken		culture confirmation	therapy		
	Proportion of sputum smear results known		4. Proportion of TB cases that result of smear test was known	n Pulmonary; Non pulmonary	Number and percentage of pulmonary cases identifed with positive sputum smear		 Number and percentage of pulmonary cases culture postive with known sputum smear results 	sputum smear positive confirmed with culture; sputum smear negative with positive culture		
	Proportion of pulmonary cases were sputum smear positive at notification, confirmed by culture		Proportion of TB cases tested by sputum smear and confirmed by culture (target >80%)		Number and percentage species identification in culture to confirmed TB Cases,	M. tuberculosis, M. tuberculosis complex, M. bovis, M. africanium and M. microti	5, Number and percentage of extra pulmonary TB cases that were cultured	positive; negative; not cultured		
	Proportion of pulmonary infection cases that were sputum smear negative	bacterial strain identified: M. tuberculosis or M. bovis	6. Percentage of culture postive TB cases identified by type of	of M. tuberculosis, M. bovis, M. avium and M. microti						
	which were later confirmed by culture 7. Number and proportion of people with culture confirmedTB had WGS to identify	y UK vs Non UK born and cluster size	infectious bacterial strain 7. Pecentage of patients with M. tuberculosis complex (MTB)	C) Available loci; Molecular clusters: Unique strains						
	clusters		isolates genotype results	and the second of the second of the second						
	8. Number and proportion of people with culture confirmedTB had MIRU-VNTR to identify clusters	prace of birth, year and number of new clusters by year								
TB Transmission										
TO TRANSMISSION	Incidence of TB in UK born children (<15 years)		Recorded suspected source of infection (%)							

The UK (represented by England, Scotland, Wales and Northern Ireland) are associated with the European WHO, a subsidary of the World Health Organization. The Roadmap to Implement the Tuberculosis Action Plan for the WHO European Region 2016–2020 was created to guide European countries to create a framework for TB monitoring. Listed below are the recommendations set out in this action plan.

World Health Organization	
Roadmap to Implement the Tuberculosis Action Plan for the WHO European Re Towards ending tuberculosis and multidrug-resistant tuberculos	gion 2016–2020 is
European WHO Areas of Intervention with Core Indicators for Monitoring and Reporting (in collaboration with European CDC)	Target by 2020 Based on TB action plan for the WHO European Region 2016-2020
INTEGRATED, PATIENT-CENTRED CARE AND PREVENTION	
A. Systematic screening of contacts and high-risk groups	
1.A.1 Coverage of population at risk with systmatic screening for active TB abd LTBI	Full coverage
B. Early diagnosis of all forms of tuberculosis and universal access to drug-susceptibility testing, including the use of rapid tests	
1.8.1 Percentage of TB patients diagnosed using WHO-recommended rapid tests	30%
1.8.2 First line DST coverage (%) among all bateriologically confirmed TB cases	Close t o 100%
1.8.3 RR/ MDR TB case detection rate	85%
1.B.4 TB notification rate per 100 000 population	24.6
1.8.5 TB case detection rate (%)	Increase
1.8.6 Percentage of RR/MDR TB among new TB patients	Decrease
1.8.7 Percentage of RR/MDR TB among previously treated TB patients	Increase
C. Equitable access to quality treatment and continuum of care for all people with tuberculosis, including drug-resistant tuberculosis, and patient support to facilitate treatment adherence	
1.C.1. Percentage of hospitalisation of New Patients (? Indicator)	Decrease
1.C.2. Percentage of detected RR/MDR TB patients enrolled in treatment	Close to 100%
1.C.3 TB treatment success rate among all new and relapsed TB patients	85%
1.C.4. Treatment success rate (%) among the MDR TB treatment cohort	75%
D. Collaborative tuberculosis/HIV activities, and management of comorbidities	
1.D.1 Percentage of detected out of estimated incident TB/HIV co- infected cases	Close to 100%
1.D.2 HIV testing coverage	Close to 100%
1.D.3 Percentage of HIV co-infection among all TB (new and relapse TB cases)	Decrease
1.D.4 Percentage of TB/HIV co-infected patients enrolled in antiretroviral therapy	Close to 100%
1.D.5 Latent TB infection treatment coverage among people living with HIV/AIDS	30%
E. Management of latent tuberculosis infection and preventive treatment of persons at high risk, and vaccination against tuberculosis	
1.E.1 Contact investigation coverage	90%
1.E.2 LTBI treatment coverage of childhood TB contacts aged under five years	90%
2. BOLD POLICIES AND SUPPORTIVE SYSTEMS	
A. Political commitment with adequate resources, including universal health coverage policy	
2.A.1 Number of Member States that have a regular TB control/elimination performance published every 5 years	53
B. Health systems strengthening in all functions, including well-aligned financing mechanisms for tuberculosis and human resources	
2.8.1 Percentage of TB patients and their households that experience catastrophic financial consequences due to TB	Close to Zero
C. Regulatory frameworks for case-based surveillance, strengthening vital registration, quality and rational use of medicines, and pharmacovigilance	
2.C.1 Treatment coverage with new TB drugs (%)	20%
D. Airborne infection control, including regulated administrative, engineering and personal protection measures in all relevant health-care facilities and congregate settings	
2.D.1 Number of Member States with functioning multi-stakeholder coalitions advocating for TB care and resources	53
E. Social protection, poverty alleviation and actions on other determinants of tuberculosis, such as migration and prisons	
2.E.1 Treatment success (%) of new and relapse TB cases among prisoners	85%
References:	
References: http://www.euro.who.int/data/assets/pdf_f8e/0020/318233/50148-WHO-TB-Plan_May17_web.pdf?ua=1	

The content of the											
Marchand	The following table provides a comparison of performance indicators (PIs) for TB prevention and control across four countries			A Comparison of Performance Indicators for TB Prevention and Control in the United Kingdom Indicators listed in country's 18 Strategy or Framework							
The content with the	information provided in recent annual TB surveillence reports for		Legend-	highlighted in join. Indicated i							
Marie	developed TB PI frameworks to help guide monitoring and progress			monitored are written in RED							
March Marc	frameworks have been highlighted in the table (as noted in the	England		Scot	land	Wales	Northern Ireland				
Marche M	iegend).		d Collaborative Tuberculosis Strategy for England								
Manufacture of the control of the co		2015 to 2020				Tuberculosis in Wales Annual Report 2018: Data to the ena of 2017	Epidemiology of Luberculosis in Northern Ireland: Annual Surveillence Report 2016				
Marie				2. Percentage of cases through contract tracing							
Marche M				3. Percentage of Pulmonary TB cases have identified contacts	1 or > contacts identifed (target at least 95%); >5 contacts						
Marie		evaluated									
Marche											
Marie				5. Percentage of LTBI eligible contacts offered prophylaxis	started treatment; completed treatment						
Marie	Delay from symptom onset to treatment start										
Marchen Britannia and	,,,,										
Marie					nulmonary non nulmonary						
Part					,,		and start of treatment for non pulmonary TB				
Part			age group; place of birth		drugs: isoniazid, rifampicin, pyrazinamide, ethambutol						
Part		4. Number and proportion of people with pulmonary TB who experienced a delay	age group and gender; geographical distribution	4. Percentage of people requiring standard or enhanced case	Identify reasons for Enhanced Case Management						
Marie		of more than four months between symptom onset and treatment start									
Marie				Percentage of people with TB started treatment within 2 months of symptom onset							
Manufacture				6. Percentage of TB cases that started treatment within 7 days	s						
Marie				or ungiliatis							
Marie Mari	TB outcomes in the drug sensitive cohort										
Marie				months (target <5% lost to follow up) (target >85% complete		months for drug sensitive cases with expected treatment	1. Cases with all expected duration of treatment less than				
Marie Mari	***outcomes broken down into falling categories: Treatment	Last recorded TB outcome for drug sensitive cohort with CNS, spinal, miliary or		treatment)*** 1a. Relationship between tuberculosis and death in Scotland		duration <12 months **** 2. Percentage and number of last recorded TB treatment by Local Health Board	2. Cases with an expected duration of treatment less than				
Marie Mari	completed, Died, Lost to follow-up, Still on treatment, Treatment stopped, Not evaluated		age, gender, place of birth, geographical distribution, site of disease, time to complete treatment in months	and case fatality ratio (CFR) at one year		outcome for entire drug sensitive cohort****					
March Marc		Last recorded TB outcome for the entire drug sensitive cohort		2.Tuberculosis outcomes in the drug sensitive cohort at 24 month (target <5% lost to follow up). (target >85% complete			3. Case-Fatality Rate of tuberculosis notifications				
Manufacture	Daving societant TD and outcomes in the davin					incorded debution decome.					
April Property P	resistant cohort	more months after the first specimen date									
Separate language and provided and separate and provided and separate and provided and separate	Intial Drug Resisitance TB	Number and proportion of people notified with culture confirmed MDR/RR TB	5 4 5 Mark 5	drug resistance (pyrazinamde,ethambutol, isoniazid and	Resistance to at least 1 First line drug; resisitant drug name; MDR TB, sex, age, UK or non UK born	 Number and proportion of TB cases with first line drug resistance pyrazinamde,ethambutol, isoniazid and rifampicin, resistance to 1 > first line drug, MDR/TB, XDR/TB 	Number of drug susceptibility test results available for culture confirmed cases of TB				
Manual Para Carlo Carl		Number and proportion of people notified with ioniazid resistance without MDR To	Sex, Age Group, Most Frequent Country of Birth, At Least One Social Risk Factor, Previous Diagnoisis	rifampicin. (target <2%)			2. Number and proportion of drug resistant cases of 1st line drug resisitance to one drug, MDR, drug resistance to one drug, MDR, drug resistance to one drug.				
Name of the control o		3 Proportion of culture confirmed TR cases with any first line drug resistance					infecious TB resistant species				
Marie		o. Topostario de canado comininos 15 casos war any mos mos drag resistante									
# COUNTY OF THE PROPERTY OF TH	Drug Resisitant Cohort	1.Number of people with Rifampicin resistant without MDR-TB	Intial Resistance and Aquired Resistance	Percentage of people with TB were XDR-TB confirmed							
Security of the control of the contr		2.Number of People with MDR-TB including XDR	Initial registance Aguired Reisistance and Treated with	Percentave of MDR/XDR-TB cases discussed with							
Application of the property			an XDR-TB regimen		t						
Marie of the property of the		3.Number of people with TB with initial and amplified XDR-TB	Initial resistance, Aquired Reisistance and Treated with an XDR-TB regimen	Percentage of suspected and confirmed inpatient MDR/XDR-TB cases managed in (or transferred to)							
Security of the control of the contr		4.Acquired drug resistance on repeat culture	-	4.Number of pulmonary MDR-TB cases complete treatment							
Marian M		S TB outcomes for the drug resistant cohort at 24 months and last recorded		(taiget >70%)							
Part of the distribution of the control of the co		outcome	Treatment completed, Died, Lost to follow-up, Still on treatment, Treatment stopped, Not evaluated								
TR under served production To consider your product of a record production To consider your product of the product of a record production To consider your product of the product of your product of your product of the product of your product of your product of the product of your product of		Proportion of culture confirmed TB cases with drug susceptibility testing reported for the four first line agents									
## Despercial projections Tail under control projections Page of the first indicated and an important page		7. Proportion of TB cases with rifampicin resistance or MDR-TB who had complete	d completed treatment at 24 months, lost to followup								
The sade concess population The sade concess											
A Proposed prise with The date of said black for the Control of Sa		8. Proportion of drug-sensitive TB cases	completed treatment at 12 months, lost to followup and who died at last reported outcome								
A Proposed prise with The date of said black for the Control of Sa	TR in under-served populations										
Live configuration and of Marketine and Particles and Part	Social risk factors	1.Proprotion of people with TB with at least 1 Social Risk Factor		Percentage of people with TB having >1 Risk Factor			Number and percentage of people with history of a risk				
Absorbed of upon with 15 fit of a retroduct Absorbed of upon with 15 fit of upon							factor				
A Position of people with Th during two people with Th during two people with Th during depople with Th during dep		2. Proprotion of people with TB and more than 1 Social Risk Factor		2. Percentage of people with TB that are homeless		2. Number and percentage of people with TB having history of homelessness	 Number and percentage of people with TB having history of homelessness 				
A Properties of garget with 12 that make a factor of garget with 12 that make and processing of garget with 12 that make and processing of garget with 13 that make and proc		3. Proportion of people with TB that are homeless		3. Percentage of people with TB that misuse alcohol							
Proposition of propie with 13 that are in prison Proposition of propie with 13 that are in prison Proposition of propie with 13 that are in prison Proposition of propie with 13 that are in prison Proposition of propie with 13 that are in prison Propie with 13 that are i		4 Proportion of neonle with T9 that mixture about		4 Percentage of people with TR misus a down		ancorton adada.					
Absorption of Project with This date in prisons Chrosoption of Project with This date is prison. Chrosoption of Project with This date is prison. Chrosoption of Project with This date is received of project with Th			geographical distribution, clinical characteristics, drug			drug abuse					
Propried with Tabula were asplan assets or involute to an investigate of language and an include received after received and received a		5.Proportion of people with TB that are in prision	resistance, unemployment	5.Percentage of peoplewith TB that reside correctional institute		 Number and percentage of people with TB and history of imprisionment 					
A Processing of Engine with social field in recorded who received enhanced case management 1. Processing of people with 15 that are homeses ultimated according with 15 that are homeses ultimated according for the duration of brustnesses. 1. Processing of people with 15 that are homeses ultimated according with 15 that are influenced as are manded according of people with 15 that are homeses ultimated according with 15 that are homeses ultimated according with 15 that are homeses ultimated according with 15 that are influenced according with 15 that are management 15 that are influenced according with 15 that are management 15 that are homeses ultimated according with 15 that are with 15 that ar		6.Proportion of People with TB that misuse drugs		6.Percentage of people with TB that reside residiential facility							
Security of the Confection and HIV testing """No varian is not colorised in the Enhanced 15 Severalized system (ETS) 10 control Five or inchington, 15 and the very very large of people with 15 and the very large of 15 class have a bloom HIV Edding large of 15 class have a bloom HIV Edding large of 15 class with a large of 15		7. People with TB who were asylum seekers or resident in an immigration removal		7.Percentage of people with TB having refugee status							
Security of the Confection and HIV testing """No varian is not colorised in the Enhanced 15 Severalized system (ETS) 10 control Five or inchington, 15 and the very very large of people with 15 and the very large of 15 class have a bloom HIV Edding large of 15 class have a bloom HIV Edding large of 15 class with a large of 15		Centre		S Decrentage of neonly with TD sheet and							
TR-HIV co.infection and HIV testing TR-HIV co.i				o.reiceirage of people with 1B that are immunosupressed							
27. Pricertings of people with active 15 offered support with finance. Pleased TB Surveillance systems (ETS.) 16 control of the finance TB Surveillance systems (ETS.) 16 control of the finance TB surveillance systems (ETS.) 16 control of the finance TB surveillance systems (ETS.) 16 control of the finance			_								
TR-HIV co-infection and HIV testing TR-HIV co-infection and HIV testing and treatment TR-HI		l									
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1. Number and proportion of people with TB who have HIV co-infection age group, place of birth, culture confirmed with bottlands and inflamption residence, culture confirmed with bottlands and inflamption residence, culture confirmed but Not Received, Offered but Not Received,	TB-HIV co-infection and HIV testing	estimate TB-HIV co-infection, TB and HIV surveillance data are matched annually for									
Solicitation and inflampoin in resistance, victure confirmed isonization and inflampoin in victure and secretary in resistance, victure confirmed in resistance, victure confirmation		1.Number and proportion of people with TB who have HIV co-infection	age group, place of birth, culture confirmed with	Percentage of TB cases have a known HIV status							
2. Proportion of TB cases offered an HIV test Age group, Not offered, Offered and Received, Offered but Declaned but Not Received But Not Receiv		l	isoniazid and rifampicin resistance, culture confirmed isoniazid resistance without MDR TB, culture confirmed	2. Percentage of TB cases offered Hepatitis B and C testing							
BCG Vaccination 1. Proportion of babies in areas with a universal BCG programme who received BCG vaccination of people that reviced BC		2. Proportion of TB cases offered an HIV text									
1. Proportion of bables in areas with a universal BCG programme who received BCG veccine annual TB rate per 100,000, Number of eligible children 1. Proportion of people that reviced BCG veccination prior to age group 1. Number and percentage of TB cases with a history of age group 1. Number and percentage of TB cases with a history of age group 1. Number and percentage of TB cases with a history of age group 1. Number and percentage of TB cases with a history of age group 1. Number and percentage of TB cases with a history of age group 1. Number and percentage of TB cases with a history of age group 2. Proportion of people that reviced BCG vaccination prior to age group 3. Proportion of people that reviced BCG vaccination prior to age group 3. Proportion of people that reviced BCG vaccination prior to age group 3. Proportion of people that reviced BCG vaccination prior to age group 3. Number and percentage of TB cases with a history of age group 3. Number and percentage of TB cases with a history of age group 3. Number and percentage of TB cases with a history of age group 4. Number and percentage of TB cases with a history of age group 5. Number and percentage of TB cases with a history of age group 6. Covernation		- TOTAL CONTROL OF THE CONTROL OF TH	Age group, Not offered, Offered and Received, Offered but Not Received, Offered but Declined								
BCG vaccine Number of eligible children 2. Percentage of BCG vaccine uptake for eligible health cure workers 3. Percentage of children received vaccination by age 12 months (target >85%) Latent TB infection testing and treatment	BCG Vaccination										
2. Percentage of BCG vaccine uptake for eligible health care workers 3. Percentage of children received vaccination by age 12 months (target x85%) Latent TB infection testing and treatment					age group						
Latent TB infection testing and treatment				l '							
Latent TB infection testing and treatment		l		workers 3. Percentage of children received vaccination by anal 12							
				months (target >85%)							
1. The number of CCGs with systematic new entrant LTBI testing and treatment in 1. Percentage of LTBI of eligible new entrants offered and	Latent TB infection testing and treatment										
		The number of CCGs with systematic new entratn LTBI testing and treatment in		Percentage of LTBI of eligible new entrants offered and theted on excelled size.							
place started on prophylaxis		piace		started on propriylaxis			I				

The UK (represented by England, Scotland, Wales and Northern Ireland) are associated with the European WHO, a subsidary of the World Health Organization. The Roadmap to Implement the Tuberculosis Action Plan for the WHO European Region 2016–2020 was created to guide Eurpean countries to create a framework for TB monitoring. Listed below are the recommendations set out in this action plan.

World Health Organization

Roadmap to Implement the Tuberculosis Action Plan for the WHO European Region 2016–2020 Towards ending tuberculosis and multidrug-resistant tuberculosis

The following table provides a comparison of performance	A Comparison of Performance Indicators for TB Prevention and Control in the United Kingdom									The UK (represented by England, Scotland, Wales and Northern Ireland) are associated with the the World Health Organization. The Roadmap to Implement the Tuberculosis Action Plan for			
indicators (Pis) for TB prevention and control across four countries in the UK. Indicators and stratification/comparisons are based on information provided in recent annual TB surveillence reports for each country. Two countries (England and Scotland) have developed TB of frameworks to help guide monitoring and progress		Legend-	Indicators listed in country 12 Strategy or Framework highlighted inpl hig							2016–2020 was created to guide Eurpean countries to create a framework recommendations set out in this action	or TB monitoring. Listed below are the		
towards TB elimination - the indicators described in these frameworks have been highlighted in the table (as noted in the legend).	England		Scotla	nd	Wa	es	Norther	n Ireland		World Health Organization			
	From:Tuberculosis in England: 2018 Presenting data to end of 2017 and Collab 2015 to 2020	aborative Tuberculosis Strategy for England	Enhanced Surveillance of Mycobacterial Infections(ESMI) Framework for Scotle		Tuberculosis in Wales Annual Repo	rt 2018: Data to the end of 2017	Epidemiology of Tuberculosis in Northern	Ireland: Annual Surveillence Report 2016		Roadmap to Implement the Tuberculosis Action Plan for the WHO Eu Towards ending tuberculosis and multidrug-resistant			
	1a. Proportion of eligible new entrants covered by the LTBI testing programme who accept LTBI testing		2.Percentage of LTBI eligible new entrants who completed prophylaxis										
	The number of eligible people offered a test as a proportion of the total number age an of individuals tested	and gender, place of birth, CCG and year, number BI tests by control board	Percentage of new healthcare workers from a high risk country (150 TB cases per 100,00 population) are offered screening for LTBI										
		and gender, CCG and year, number of LTBI tests by rol board											
	A. Proportion of patients that take up treatment amongst those that have been												
	offered it 5. The number of people who complete treatment as a proportion of the number												
	who started treatment 6.The proportion of patients who experience significant drug events amongst those who initiated treatment	otoms of adverse event											
UK tuberculosis pre-entry screening programme	those who initiated treatment												
ok tuberculosis pre-entry screening programme	Number and rate of people with TB detected in high incidence countries through the UK pre-entry screening programme age		Percentage of cases identified through new entrant screening										
	programme countries and those identified within one year of UK entry TB cas	iagnosed by pre-screening, vs predicited TB cases; ases identified in the UK vs Predicted TB cases tified in the UK	Percentage of new entrants diagnosed in another country										
Drug susceptibility testing of positive TB cultures for pre-entry screening in the UK	Percentage people sensitive to all drugs		3. Percentage of new entrants positive for LTBI and active disease										
	2.Percetnage resistant to one 1st Line drug other than Isoniazid or Rifampicin												
	3. Percentage resistant to 2 or more 1st line drugs, without MDR 4. Percentage INH-R but not RR TB or MDR TB												
	S.Percentage RR TB but not INH-R or MDR TB												
	6. Percentage MDR TB but not XDR TB												
	Reference: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/att achment.dsta/file/774093/TB. Annual Report. 2018. 2.pdf		References: https://hpspubsrepo.blob.core.windows.net/hps- website/nss/2657/documents/1 tb-annual-report-2018-10- 30.pdf		References: https://pspubsrepo.blob.core.windows.net/hps- website/nss/2657/documents/1_tb-annual-report-2018-10- 30.pdf		References: https://www.publichealth.hscni.net/sites/default/files/N% 20Ireland%20TB%20Surveillance%20Report%202016%20fin al.pdf						
	https://assets.publishing.service.gov.uk/government/uploads/system/uploads/att achment_data/file/403231/Collaborative TB Strategy for England 2015 2020_p df_		https://hpspubsrepo.blob.core.windows.net/hps- website/nss/2304/documents/1 TB-Framework-v1.1-May- 2018.pdf		http://www.wales.nhs.uk/sites3/Documents/457/Wales20 15AnnualTBReport v1.pdf								

TB Peformance Indicators for Australia (Australian Government Department of Health: Tuberculosis notifications in Australia, 2014 and The strategic plan for control of tuberculosis in Australia: 2011–2015

The following table provides performance indicators (Pis)
for 18 prevention and control in Australia as described in
their 2014 TB surveillance report and 2011-2015 Strategic
Plan.

Indicators listed in a country's TB Strategy/Framework that are not yet
monitored are written in RED
monitored are written in RED

Framework Objectives

Rapid diagnosis, treame	ent and notification of TB	Surveillance and Reporting		TB in the Australian Population		Drug Resistant TB		High Risk Group		Global TB control activites	
Indicator with target rates	Stratifier	Indicator with target rates	Stratifier	Indicator with target rates	Stratifier	Indicator with target rates	Stratifier	Indicator with target rates	Stratifier	Indicator with target rates	Stratifier
1. Proportion of cases with a diagnostic delay of greater than 1 month.		1.Proportion of TB cases with a recorded HIV status	Australain born Indigenious/ non indigenious, overseas born	1.Indicence of TB in children <15 years of age by risk group (<0.1/100,000)	Australian born Indigenous; Australian- born Non-indigenious	1.Time to identification of drug resistant TB		Incidence of TB in Aboriginal and Torres Strait Islanders		1.Incidence of TB in the region.	by state/territory and year; 5 year mean
	Annually reporting to the WHO, continuous involvement of stakeholders	2. Proportion of people notified with TB tested for HIV (100%)		(<1.0/100,000)	Australian born Indigenous; Australian- born Non-indigenious; age, gender	Incidence and characteristics of drug resistant TB acquired within Australia	name of resistant drug, number of drugs resistants; MDR-TB; XDR-TB; Indigeneous vs Non indigenious, travel history, contact history	2.Indicence and characteristics of TB in overseas born persons	state/territory, country of birth, permanent residents, students, other, age and gender	Reporting on Australia's participation in global control activities, annually.	
2.Proportion of TB notifications confirmed by microbiological laboratory diagnosis	lab diagnosed/clincial/radiological	3. Proportion of people notified with HIV tested for TB		3.Number of cases of TB acquired within Australian health care institutions/laboratories		3. Incidence and characteristics of drug resistant TB in migrants	place of birth, pulmonary vs extra pulmonary, sputum smear result, MDR vs XDR-TB	3.Incidence and characteristics of TB in Healthcare workers	s place of work at time of diagnosis or within 12months of dignosis; type of TB; sputum smear result		
3. Proportion of laboratories meeting recommended turn around time		4. Proprotion of TB cases pulmonary vs extra pulmonary	site of disease, age group	4. Incidence of TB in Austrailian population by case	new cases, relapsed cases, total cases	Proportin of TB cases with postiive sputum smear tested drug resistant TB		4.Incidence and characteristics of TB in Irregular Maritime Arrivals			
	cured, completed treatment, place of birth, deaths, subgroup	5.Completeness of quartely reporting.			full treatment in Australia; partial treatment; full or partial treatment overseas			5. Number of TB cases identifed through offshore premigration screening process	country migrating from; status- student/refugee/temporary visa/visitor		
4a. Percentage of TB cases evaluated for treatment outcome (100%)											
4b. Percentage of TB cases that have completed treatment and are cured (treatment success) (>90%)											
4c. Percentage of cases that are recoreded at treatment failures (<2%)											
5.Proportion of cases initially treated in Australia who relapse within 5 years of treatment.		Publication of a combined notification and laboratory annual TB report by December of the following year.		6. Incidence of TB in population overall (<6.0/100,000)				Number of cases reported having a household member with TB			
 Proportion of culture-confirmed cases that undergo drug susceptibility testing 		7. Annual reporting to WHO						7. Number of TB cases identifed with past travel to or residence in a high risk country			
 Proprotion of TB cases bacteriologically/histologically confirmed 								Number of people notified with TB had ever resided in correctional facility			
Proportion of TB cases bacterologically confirmed were smear culture positive	sputum, bronchoscpy aspirate, subgroup							Number of people notified with TB had ever resided in a aged care facility	resiedents, employess		
								10. Number of people notified with TB were ever homeless			
								Number of persons notifed with TB ever have past travel to or residency in high risk countries Number of people notifed with TB had chest xray			
								suggestive of old untreated TB 13. Number of people notifed with TB receving			
								immunosuppressice therapy 14. Number of Australian born children notified with TB			
								have one or more parent born in a high risk country 15. Number of people notified with TB none of the above			
								risk factors			
References: https://www.health.gov.au/internet/main/publishing.nsf/c											
ontent/cda-cdi3603i.htm https://www.health.gov.au/internet/main/publishing.nsf/											
Content/9938F170EAA88BD3CA2581F70014931D/\$File/C DI4103-k.pdf											