

Online Data Supplement

Isoniazid-Monoresistance and Rate of Culture Conversion among Confirmed Tuberculosis Patients in the State of Georgia, 2009 – 2014

Argita D Salindri, Rose-Marie F Sales, Lauren DiMiceli, Marcos C Schechter, Russell R Kempker, Matthew J Magee

Supplemental Tables	Page
Supplemental Table 1. Comparison between clinical TB and culture-confirmed TB patients in the state of Georgia, 2009 – 2014 (N=2049)	2
Supplemental Table 2. Univariate and multivariate models for odds of INH-monoresistant TB among adult patients with pulmonary TB, Georgia, 2009 – 2014 (N=1141)	3
Supplemental Table 3. Multivariable models for cause-specific proportional hazard among adult patients with pulmonary TB, Georgia, 2009 – 2014 (N=1116)	4
 Appendix Tables	
Appendix Table 1. Unadjusted and adjusted odds ratios for poor final TB treatment outcome among patients with culture-confirmed TB in the state of Georgia, USA, 2009 – 2014 (N=1087)	7
Appendix Table 2. Covariate selection sensitivity analyses of multivariable hazard models for sputum culture conversion among adult patients with pulmonary TB, Georgia, 2009 – 2014 (N=1116)	9
Appendix Table 3. Effect modification between INH-monoresistant TB and key characteristics of patients with culture-confirmed TB in the state of Georgia, USA, 2009 – 2014 (N=1116)	10
Appendix Table 4. Sensitivity analysis of externally adjusted odds ratios for poor TB treatment outcomes and all-cause mortality during TB treatment comparing patients with and without INH-monoresistance (OR _{DX})	12

Supplemental Table 1. Comparison between clinical TB and culture-confirmed TB patients in the state of Georgia, 2009 – 2014 (N=2049)

Characteristics	Clinical TB [†] N (%) = 863 (42.1) N (%)	Culture-confirmed TB N (%) = 1186 (57.9) N (%)	Total N = 2049 N (%)	P-value [‡]
Age				
15 – 24	87 (10.1)	140 (11.8)	227 (11.1)	0.02*
25 – 44	322 (37.3)	438 (36.9)	760 (37.1)	
45 – 64	296 (34.3)	447 (37.7)	743 (36.3)	
≥ 65	158 (18.3)	161 (13.6)	319 (15.6)	
Gender				
Female	330 (38.2)	347 (29.3)	677 (33.0)	<0.001*
Male	533 (61.8)	839 (70.7)	1372 (67.0)	
Race				
White, Non-Hispanic	122 (14.3)	173 (14.7)	295 (14.6)	0.01*
Black, Non-Hispanic	413 (48.5)	580 (49.3)	993 (48.9)	
Hispanic, all races	131 (15.4)	225 (19.1)	356 (17.6)	
Asian, Non-Hispanic	186 (21.8)	198 (16.8)	384 (18.9)	
Missing	11	10	21	
Foreign Born				
No	440 (51.0)	648 (54.6)	1088 (53.1)	0.10
Yes	423 (49.0)	538 (45.4)	961 (46.9)	
Occupation				
Employed	326 (38.5)	487 (41.6)	813 (40.3)	0.14
Unemployed	322 (38.0)	450 (38.4)	772 (38.2)	
Ineligible for employment	199 (23.5)	235 (20.1)	434 (21.5)	
Missing	16	14	30	
Homelessness				
No	805 (93.7)	1013 (85.5)	1818 (88.9)	<0.001*
Yes	54 (6.3)	172 (14.5)	226 (11.1)	
Missing	4	1	5	
Illicit Drug Use				
No	795 (93.6)	1038 (87.8)	1833 (90.3)	<0.001*
Yes	54 (6.4)	144 (12.2)	198 (9.8)	
Missing	14	4	18	
HIV Status				
Negative	700 (88.4)	980 (86.7)	1680 (87.4)	0.26
Positive	92 (11.6)	151 (13.4)	243 (12.6)	
Missing	71	55	126	
Diabetes Status				
Negative	739 (89.0)	998 (86.7)	1737 (87.7)	0.12
Positive	91 (11.0)	153 (13.3)	244 (12.3)	
Missing	33	35	68	

Abbreviations: HIV – human immunodeficiency virus;

[†]Including patients with missing culture results

[‡]Chi square or Fisher's exact test p-value

*Indicates that the finding is statistically significant at level of confidence of 5% (P-value 0.05)

Supplemental Table 2. Univariate and multivariable models for odds of INH-mono-resistant TB among adult patients with pulmonary TB, Georgia, 2009 – 2014 (N=1141)

Models	Odds Ratios (95% Confidence Interval)	P-value	Covariates included in the model
Crude HIV Negative HIV Positive	1.00 3.14 (2.04 – 4.76)*	<0.001	N/A
Model 1 HIV Negative HIV Positive	1.00 1.46 (0.75 – 2.65)	0.23	HIV and genotype
Model 2 [†] HIV Negative HIV Positive	1.00 1.85 (1.08 – 3.13)*	0.02	Age, gender, race, foreign born, occupation, homelessness, TB history, illicit drug use, HIV status, diabetes, cavitory disease, and miliary disease
Model 3 HIV Negative HIV Positive	1.00 1.57 (0.75 – 3.13)	0.22	Age, gender, race, foreign born, occupation, homelessness, TB history, illicit drug use, HIV status, diabetes, cavitory disease, miliary disease, and genotype information

[†]Model reported in manuscript

*Indicates that the finding is statistically significant at level of confidence of 5% (P-value 0.05)

Supplemental Table 3. Multivariable models for cause-specific proportional hazard among adult patients with pulmonary TB, Georgia, 2009 – 2014 (N=1116)

Characteristics	Converted 956/1116 [†] (85.7%) N %	Median (IQR) [‡] 30 (13 – 58)	Conventional Cox Proportional Hazards Model		Cause-Specific Hazard Model				
			aHR [§] (95% CI)	p-value for aHR	Culture Conversion		Death		
					aHR [§] (95% CI)	p-value for aHR	aHR [§] (95% CI)	p-value for aHR	
INH-mono-resistance									
No	826/976 (84.6)	32 (13 – 59)	1.00		1.00		1.00		
Yes	130/140 (92.9)	27 (10 – 51)	1.15 (0.95 – 1.39)	0.16	1.15 (0.95 – 1.40)	0.17	1.40 (0.59 – 3.28)	0.45	
Age									
15 – 24	107/131 (81.7)	27 (12 – 50)	1.00		1.00		1.00		
25 – 44	360/412 (87.4)	26 (11 – 53)	0.98 (0.79 – 1.23)	0.89	1.01 (0.81 – 1.26)	0.93	0.40 (0.07 – 2.19)	0.29	
45 – 64	376/422 (87.0)	39 (14 – 64)	0.84 (0.67 – 1.05)	0.12	0.80 (0.64 – 1.00)*	0.049	2.80 (0.65 – 12.02)	0.16	
≥ 65	122/151 (80.8)	33 (14 – 57)	1.01 (0.77 – 1.32)	0.94	0.90 (0.68 – 1.19)	0.45	6.28 (1.40 – 28.10)*	0.02	
Gender									
Female	289/325 (88.9)	29 (13 – 55)	1.00		1.00		1.00		
Male	667/791 (84.3)	32 (13 – 59)	0.93 (0.81 – 1.07)	0.31	0.91 (0.79 – 1.05)	0.18	1.79 (0.85 – 3.77)	0.12	
Race									
White, Non-Hispanic	136/159 (85.5)	46 (17 – 81)							
Black, Non-Hispanic	482/556 (86.7)	31 (13 – 56)							
Hispanic, all races	163/208 (78.4)	33 (13 – 56)							
Asian, Non-Hispanic	165/183 (90.2)	25 (10 – 48)							
Foreign born									
No	532/617 (86.2)	35 (13 – 62)							
Yes	424/499 (85.0)	28 (13 – 53)							
Occupation									
Employed	408/454 (89.9)	32 (14 – 58)							
Unemployed	367/424 (86.6)	30 (11 – 56)							
Ineligible for employment, student, retired	176/226 (77.9)	34 (13 – 66)							
Homelessness									
No	813/952 (85.4)	31 (12 – 59)	1.00		1.00		1.00		
Yes	142/163 (87.1)	30 (14 – 55)	1.19 (0.98 – 1.44)	0.08	1.22 (1.00 – 1.48)*	0.049	0.68 (0.29 – 1.62)	0.39	
History of									

Characteristics	Converted 956/1116 [†] (85.7%) N %	Median (IQR) [‡] 30 (13 – 58)	Conventional Cox Proportional Hazards Model		Cause-Specific Hazard Model			
			aHR [§] (95% CI)	p-value for aHR	Culture Conversion		Death	
					aHR [§] (95% CI)	p-value for aHR	aHR [§] (95% CI)	p-value for aHR
imprisonment No Yes	901/1037 (86.9) 51/55 (92.7)	32 (13 – 59) 22 (6 – 45)						
Resident of Long Term Care Facility No Yes	946/1100 (86.0) 9/15 (60.0)	31 (13 – 58) 28 (22 – 33)						
TB History No Yes	900/1052 (85.6) 56/64 (87.5)	31 (13 – 58) 24 (8 – 60)						
Illicit drug use No Yes	834/974 (85.6) 120/138 (87.0)	32 (13 – 58) 26 (11 – 58)						
Alcohol abuse No Yes	771/902 (85.5) 181/208 (87.0)	30 (12 – 58) 33 (15 – 58)						
HIV Status Negative Positive Missing	808/925 (87.4) 122/141 (86.5) 26/50 (52.0)	34 (14 – 59) 18 (8 – 39) 30 (10 – 64)	1.00 1.23 (1.01 – 1.50)*	0.042	1.00 1.14 (0.92 – 1.40)	0.22	1.00 4.15 (1.98 – 8.71)*	<0.001
Diabetes Status No Yes Missing	812/940 (86.9) 121/142 (85.2) 23/34 (67.7)	29 (12 – 56) 51 (27 – 65) 25 (2 – 59)	1.00 0.88 (0.73 – 1.07)	0.19	1.00 0.87 (0.71 – 1.06)	0.16	1.00 1.17 (0.56 – 2.48)	0.68
History of LTBI Prophylaxis No Yes	893/1039 (86.0) 40/43 (93.0)	30 (13 – 58) 36 (20 – 57)						
Baseline TST Negative Positive Not Done/Missing	202/236 (85.6) 471/523 (90.1) 283/357 (79.3)	35 (18 – 64) 32 (13 – 58) 28 (10 – 52)	1.00 1.13 (0.96 – 1.34)	0.15	1.00 1.14 (0.96 – 1.36)	0.13	1.00 0.58 (0.24 – 1.42)	0.23

Characteristics	Converted 956/1116 [†] (85.7%) N %	Median (IQR) [‡] 30 (13 – 58)	Conventional Cox Proportional Hazards Model		Cause-Specific Hazard Model			
			aHR [§] (95% CI)	p-value for aHR	Culture Conversion		Death	
					aHR [§] (95% CI)	p-value for aHR	aHR [§] (95% CI)	p-value for aHR
Baseline Smear Negative Positive	290/348 (83.3) 665/762 (87.3)	14 (1 – 38) 39 (19 – 63)	1.00 0.65 (0.5 – 0.75)*	<0.001	1.00 0.60 (0.52 – 0.69)*	<0.001	1.00 1.79 (0.92 – 3.48)	0.09
Baseline CXR Reading Normal Abnormal	60/68 (88.2) 848/980 (86.5)	14 (1 – 45) 32 (14 – 59)						
Cavitary Disease No Yes	566/671 (84.4) 333/370 (90.0)	24 (8 – 50) 43 (22 – 65)						
Miliary Disease No Yes	868/997 (87.1) 26/32 (81.3)	31 (13 – 58) 24 (11 – 58)						
TB Site Pulmonary only Pulmonary + extrapulmonary	870/1016 (85.6) 86/100 (86.0)	33 (14 – 59) 21 (7 – 46)						
TB Treatment Duration ≤ 6 months 7-12 months > 12 months	85/183 (46.5) 765/820 (93.3) 106/113 (93.8)	28 (14 – 48) 30 (12 – 57) 39 (19 – 77)						

Abbreviations: IQR – Inter Quartile Range; AHR - Adjusted Hazard Ratio; TB – Tuberculosis; HIV – human immunodeficiency virus; LTBI - Latent Tuberculosis Infection; TST – Tuberculin Skin Test; CXR – Chest X-Ray; INH – Isoniazid;

[†]Patients converted with positive culture at baseline

[‡]Among patients who converted, median time (measured in days) from the initial TB treatment until date of sputum culture conversion

[§]Adjusted hazard ratio after controlling for age, gender, HIV status, diabetes status, TST at baseline, smear status, and INH-mono-resistance

*Indicates that the finding is statistically significant at level of confidence of 5% (p-value < 0.05)

Appendix Table 1. Unadjusted and adjusted odds ratios for poor final TB treatment outcome among patients with culture-confirmed TB in the state of Georgia, USA, 2009 – 2014 (N=1087)

Variable	Odds Ratio	
	COR (95% CI)	AOR (95% CI) [†]
INH-monoresistant TB		
No	1.00	1.00
Yes	1.06 (0.59 – 1.80)	1.61 (0.67 – 3.70)
Age		
15 – 24	1.00	1.00
25 – 44	1.10 (0.48 – 2.81)	0.70 (0.24 – 2.21)
45 – 64	2.29 (1.08 – 5.66)*	1.48 (0.54 – 4.51)
≥ 65	5.67 (2.57 – 14.33)*	2.84 (0.95 – 9.27)
Gender		
Female	1.00	1.00
Male	1.58 (1.02 – 2.54)*	1.61 (0.84 – 3.19)
Race/Ethnicity		
White, Non-Hispanic	1.00	
Black, Non-Hispanic	1.28 (0.74 – 2.35)	
Hispanic, all races	1.13 (0.57 – 2.28)	
Asian, Non-Hispanic	0.59 (0.26 – 1.30)	
Foreign born		
No	1.00	
Yes	0.75 (0.51 – 1.11)	
Occupation		
Employed	1.00	
Unemployed	1.93 (1.21 – 3.12)*	
Ineligible for employment, student, retired	2.92 (1.75 – 4.92)*	
Homelessness		
No	1.00	
Yes	1.00 (0.57 – 1.66)	
History of imprisonment		
No	1.00	
Yes	0.33 (0.05 – 1.07)	
Resident of Long Term Care Facility		
No	1.00	
Yes	1.65 (0.25 – 6.36)	
Contact with TB Patient		
No	1.00	
Yes	0.41 (0.17 – 0.84)*	
TB History		
No	1.00	
Yes	0.87 (0.33 – 1.90)	
Illicit drug use		
No	1.00	
Yes	0.93 (0.49 – 1.62)	
Alcohol abuse		
No	1.00	
Yes	1.62 (1.03 – 2.50)*	
HIV Status		

Variable	Odds Ratio	
	COR (95% CI)	AOR (95% CI) [†]
Negative	1.00	1.00
Positive	2.25 (1.37 – 3.60)*	3.80 (1.78 – 8.17)*
Diabetes Status		
No	1.00	
Yes	1.73 (1.04 – 2.80)*	
ESRD		
No	1.00	
Yes	5.18 (1.73 – 14.24)*	
Baseline TST		
Negative	1.00	
Positive	0.40 (0.24 – 0.66)*	
Baseline Smear		
Negative	1.00	1.00
Positive	1.23 (0.81 – 1.91)	2.83 (1.50 – 5.55)*
Baseline CXR Reading		
Normal	1.00	
Abnormal	1.37 (0.63 – 3.62)	
Cavitary Disease		
No	1.00	
Yes	1.01 (0.66 – 1.51)	
Miliary Disease		
No	1.00	
Yes	1.64 (0.55 – 4.04)	
Site of Disease		
Pulmonary	0.38 (0.15 – 1.19)	
Pulmonary + extrapulmonary	0.67 (0.23 – 2.27)	
Extrapulmonary only	1.00	
Treatment Duration		
≤ 6 months	1.00	1.00
7-12 months	0.01 (0.01 – 0.02)*	0.01 (0.01 – 0.02)*
> 12 months	0.02 (0.01 – 0.05)*	0.02 (0.01 – 0.04)*

[†]Model adjusted for INH-monoresistant TB, age, gender, HIV status, smear and TB treatment duration

*Indicates that the finding is statistically significant at level of confidence of 5% (p-value < 0.05)

Appendix Table 2: Covariate selection sensitivity analyses of multivariable hazard models for sputum culture conversion among adult patients with pulmonary TB, Georgia, 2009 – 2014 (N=1116)

Models	Hazard Ratio (95% Confidence Interval)	P-value	Covariates included in the model
Crude No INH-mono-resistant INH-mono-resistant	1.00 1.17 (0.97 – 1.41)	0.10	N/A
Model 1 No INH-mono-resistant INH-mono-resistant	1.00 1.21 (1.00 – 1.46)*	0.046	Age and gender
Model 2 No INH-mono-resistant INH-mono-resistant	1.00 1.17 (0.96 – 1.41)	0.11	Age, gender, HIV status, and diabetes status
Model 3 No INH-mono-resistant INH-mono-resistant	1.00 1.17 (0.97 – 1.41)	0.11	Age, gender, HIV status, diabetes status, and TST result
Model 4 No INH-mono-resistant INH-mono-resistant	1.00 1.14 (0.94 – 1.39)	0.19	Age, gender, HIV status, diabetes status, TST result, and homelessness
Model 5 [†] No INH-mono-resistant INH-mono-resistant	1.00 1.15 (0.94 – 1.39)	0.17	Age, gender, HIV status, diabetes status, TST result, homelessness, and smear status
Model 6 No INH-mono-resistant INH-mono-resistant	1.00 1.08 (0.89 – 1.32)	0.44	Age, gender, HIV status, diabetes status, TST result, homelessness, and cavitary disease
Model 7 No INH-mono-resistant INH-mono-resistant	1.00 1.16 (0.95 – 1.41)	0.14	Age, gender, race, HIV status, diabetes status, TST result, homelessness, and smear status
Model 8 No INH-mono-resistant INH-mono-resistant	1.00 1.15 (0.94 – 1.39)	0.18	Age, gender, HIV status, diabetes status, TST result, homelessness, history of imprisonment, and smear status
Model 9 No INH-mono-resistant INH-mono-resistant	1.00 1.15 (0.94 – 1.40)	0.17	Age, gender, HIV status, diabetes status, TST result, homelessness, history of imprisonment, alcohol, and smear status
Model 10 No INH-mono-resistant INH-mono-resistant	1.00 1.15 (0.94 – 1.40)	0.08	Age, gender, HIV status, diabetes status, TST result, homelessness, history of imprisonment, alcohol, illicit drug use, and smear status

[†]Model used in the manuscript

*Indicates that the finding is statistically significant at level of confidence of 5% (p-value < 0.05)

Appendix Table 3: Effect modification between INH-mono-resistant TB and key characteristic of patients with culture-confirmed TB in the state of Georgia, USA, 2009 – 2014 (N=1116)

Interaction Covariates		INH-mono-resistant TB	Conversion (%)	Hazard Rate [†] (95% CI)	Adjusted Hazard [‡] Rate (95% CI)
Gender	Female	No	263/299 (88.0)	1.00	1.00
		Yes	26/26 (100.0)	1.22 (0.81 – 1.83)	1.03 (0.67 – 1.57)
	Male	No	563/677 (83.2)	1.00	1.00
		Yes	104/114 (91.2)	1.17 (0.95 – 1.45)	1.14 (0.90 – 1.43)
Race	Other	No	422/505 (83.6)	1.00	1.00
		Yes	50/53 (94.3)	1.10 (0.82 – 1.48)	1.12 (0.82 – 1.53)
	Black	No	402/469 (85.7)	1.00	1.00
		Yes	80/87 (92.0)	1.22 (0.96 – 1.56)	1.18 (0.91 – 1.53)
Foreign Born	No	No	443/520 (85.2)	1.00	1.00
		Yes	89/97 (91.8)	1.21 (0.96 – 1.52)	1.14 (0.89 – 1.47)
	Yes	No	383/456 (84.0)	1.00	1.00
		Yes	41/43 (95.4)	1.25 (0.90 – 1.73)	1.19 (0.86 – 1.67)
TB History	No	No	779/921 (84.6)	1.00	1.00
		Yes	121/131 (12.5)	1.14 (0.94 – 1.38)	1.12 (0.92 – 0.37)
	Yes	No	47/55 (85.5)	1.00	1.00
		Yes	9/9 (100.0)	1.96 (0.92 – 4.17)	1.05 (0.42 – 2.64)
Alcohol	No	No	668/792 (84.3)	1.00	1.00
		Yes	103/110 (93.6)	1.24 (1.01 – 1.53)*	1.18 (0.95 – 1.48)
	Yes	No	154/178 (86.5)	1.00	1.00
		Yes	27/30 (90.0)	0.94 (0.62 – 1.42)	0.88 (0.56 – 1.40)
Homelessness	No	No	741/875 (84.7)	1.00	1.00
		Yes	72/77 (93.5)	1.03 (0.81 – 1.31)	1.04 (0.81 – 1.33)
	Yes	No	84/100 (84.0)	1.00	1.00
		Yes	58/63 (92.1)	1.51 (1.07 – 2.13)*	1.40 (0.94 – 2.10)
HIV	No	No	716/828 (86.5)	1.00	1.00
		Yes	92/97 (94.9)	1.10 (0.89 – 1.37)	1.11 (0.88 – 1.38)
	Yes	No	87/103 (84.5)	1.00	1.00
		Yes	35/38 (92.1)	1.08 (0.73 – 1.60)	1.04 (0.63 – 1.72)
	Missing	No	23/45 (51.1)	1.00	
		Yes	3/5 (60.0)	1.39 (0.41 – 4.73)	
Diabetes	No	No	694/813 (85.4)	1.00	1.00
		Yes	118/127 (92.9)	1.18 (0.97 – 1.43)	1.15 (0.94 – 1.42)
	Yes	No	109/129 (84.5)	1.00	1.00
		Yes	12/13 (92.3)	0.99 (0.53 – 1.85)	1.01 (0.53 – 1.92)
TST	Negative	No	169/199 (84.9)	1.00	1.00
		Yes	33/37 (89.2)	1.29 (0.89 – 1.88)	1.29 (0.86 – 1.96)
	Positive	No	415/464 (89.4)	1.00	1.00
		Yes	56/59 (94.9)	1.28 (0.96 – 1.69)	1.24 (0.92 – 1.67)
Smear	Negative	No	247/303 (81.5)	1.00	1.00
		Yes	43/45 (95.6)	1.40 (1.01 – 1.94)*	1.25 (0.88 – 1.79)
	Positive	No	578/667 (86.7)	1.00	1.00
		Yes	87/95 (91.6)	1.07 (0.86 – 1.34)	0.99 (0.78 – 1.26)

[†]Variables included in the model were INH-mono-resistant TB and interaction term

[‡]Model adjusted for age, gender, homelessness, HIV status, DM status, TST result, and smear

result at baseline

*Indicates that the finding is statistically significant at level of confidence of 5% (p -value < 0.05)

Appendix Table 4. Sensitivity analysis of externally adjusted odds ratios for poor TB treatment outcomes and all-cause mortality during TB treatment comparing patients with and without INH-monoresistance (OR_{DX})

P_{Z1}	P_{Z0}	OR_{XZ}	Various OR_{DX} (Poor TB treatment Outcome)					Various OR_{DX} (All-cause Mortality)				
			OR_{DZ}					OR_{DZ}				
			1.5	2	3	4	5	1.5	2	3	4	5
0.167	0.038	5.075	0.99	0.94	0.85	0.78	0.73	1.03	0.97	0.88	0.81	0.75
0.072	0.001	77.799	1.02	0.99	0.93	0.87	0.82	1.05	1.02	0.95	0.90	0.85
0.086	0.027	3.450	1.03	1.00	0.95	0.91	0.87	1.06	1.03	0.98	0.94	0.90
0.112	0.037	3.260	1.02	0.99	0.93	0.88	0.84	1.05	1.02	0.96	0.91	0.87
0.155	0.057	3.022	1.01	0.97	0.90	0.85	0.80	1.04	1.00	0.93	0.87	0.83
0.064	0.091	0.685	1.07	1.08	1.11	1.13	1.15	1.10	1.12	1.14	1.16	1.18
0.154	0.020	8.836	0.99	0.93	0.84	0.77	0.71	1.02	0.96	0.87	0.79	0.73
0.160	0.090	1.928	1.02	0.99	0.95	0.91	0.88	1.05	1.02	0.97	0.94	0.90
0.123	0.094	1.347	1.04	1.03	1.01	0.99	0.98	1.08	1.06	1.04	1.02	1.01
0.119	0.066	1.912	1.03	1.01	0.97	0.93	0.91	1.06	1.04	1.00	0.96	0.93
0.046	0.019	2.488	1.04	1.03	1.01	0.98	0.96	1.08	1.06	1.04	1.01	0.99

Note:

P_{Z1} = proportion of TB treatment change among patients with INH-monoresistant TB

P_{Z0} = proportion of TB treatment change among patients with drug-susceptible TB

