



Figure S1: Exclusions from standardised patient-facility interactions

'Home facility' refers to a primary healthcare facility that the SP used regularly. Failed visits were defined as an SP not entering the facility or being turned away from the facility at any point before being seen by a healthcare worker.

Table S1: List of external reviewers of TB screening instruments

Department, Institution	Job Title	Inputs
Health Impact Assessment Unit, Department of Health, Western Cape Government	Public Health Specialist (1)	Provided referrals to relevant stakeholders for review of instruments.
	Public Health Specialist (2)	Provided the relevant TB guidelines. Reviewed early versions of the instruments.
Desmond Tutu TB Centre, Stellenbosch University	Research Clinician (1)	Provided clinical expertise when drafting instruments. Reviewed instruments.
	Research Clinician (2)	Provided clinical expertise when drafting instruments. Reviewed instruments.
Facility-based Programmes, Department of Health, Western Cape Government	Programme Manager	Provided insights about integrated approach to primary healthcare assessment. Ensured that instruments contained integrated clinical questions.
HAST (HIV & AIDS, STI and TB) Directorate: TB Prevention and Management, Department of Health, Western Cape Government	Deputy Director	Provided insights about the current management of presumed TB patients at primary healthcare facilities. Reviewed instruments and provided inputs.
	Assistant Deputy Director	Provided insights about the current management of presumed TB patients at primary healthcare facilities. Reviewed instruments.
Integrated Strategic Management, Eastern Cape Government Department of Health	Chief Director	Provided referrals to relevant stakeholders for review of instruments.
TB Directorate, Department of Health, Eastern Cape Government	Provincial Programme Manager	Provided insights about the current management of presumed TB patients at primary healthcare facilities. Reviewed instruments and provided inputs.

Instruments include both the TB screening script and score sheet.

Table S2: Standardised patient characteristics (n=8)

Characteristic		n (%)
Gender	Male	4 (50)
	Female	4 (50)
Age	<30 years	4 (50)
	≥30 years	4 (50)
Race	Black	6 (75)
	Coloured	2 (25)
Education	< Matric	1 (12.5)
	Matric	3 (37.5)
	> Matric	4 (50)

Matric is the final year of secondary schooling, i.e. 12 years of education completed and passed.

In South Africa there are four main racial classifications – Black, Coloured, White and Indian.

Table S3: Failed visit rate of standardised patients

	Total
Anticipated SP interactions	n=156
Facility not visited since SP's 'home facility'	n=4
Failed visits	n=9
Realised SP interactions	n=143
Failed visit rate	0.06

'Home facility' refers to a primary healthcare facility that the SP used regularly.

Failed visits were defined as an SP not entering the facility or being turned away from the facility at any point before being seen by a healthcare worker.

Table S4: Summary statistics of variables of interest

Variable	Observations	Mean	Std. Dev.	Min	Max
Adequately managed	143	.4265734	.4963176	0	1
TB test conducted	143	.8391608	.3686739	0	1
HIV test offered	143	.4685315	.5007627	0	1
Asked about household TB contacts	143	.5384615	.5002708	0	1
Opening statement only 'coughing a lot'	136	.9117647	.2846854	0	1
Asked about cough duration	142	.8028169	.3992801	0	1
Asked about night sweats	143	.5874126	.4940302	0	1
Asked about weight loss	143	.5454545	.4996798	0	1
Asked about fever duration	143	.2517483	.4355429	0	1
Blood pressure measured	141	.4326241	.4972060	0	1
Weight measured	141	.3829787	.4878462	0	1
Pulse checked	140	.1285714	.3359269	0	1
Temperature taken	141	.1560284	.3641759	0	1
Temperature taken if asked about fever duration	36	.2222222	.421637	0	1
Antibiotics prescribed without taking temperature	119	.0840336	.2786113	0	1
Access to surgical mask	143	.4825175	.5014507	0	1
Return for TB test results communicated	103	.8543689	.3544608	0	1
Explained importance of returning for TB test results	119	.2773109	.4495642	0	1

Table S5: One-way ANOVA of variables of interest by standardised patient and facility

Variable	Between standardised patients			Between facilities		
	Lowest mean	Highest mean	Prob > F	Lowest mean	Highest mean	Prob > F
Adequately managed	.05263158	1	0.0000	0	1	0.0000
TB test conducted	.36842105	1	0.0000	.5	1	0.5284
HIV test offered	.05263158	1	0.0001	0	1	0.0000
Asked about household TB contacts	0	.89473684	0.0002	0	1	0.5665
Opening statement only 'coughing a lot'	.68421053	1	0.0004	.5	1	0.7803
Asked about cough duration	.47368421	1	0.0020	.33333333	1	0.5941
Asked about night sweats	.10526316	1	0.0000	.25	1	0.3508
Asked about weight loss	.31578947	1	0.0558	0	1	0.1764
Asked about fever duration	0	.52631579	0.0004	0	1	0.1751
Blood pressure measured	0	.8	0.0524	0	1	0.0040
Weight measured	0	.52631579	0.7884	0	1	0.0000
Pulse checked	0	.53333333	0.0000	0	.5	0.8192
Temperature taken	0	.33333333	0.3495	0	.75	0.0004
Temperature taken if asked about fever duration	0	.66666667	0.3638	0	1	0.7215
Antibiotics prescribed without taking temperature	0	.47058824	0.0000	0	.66666667	0.6943
Access to surgical mask	.6875	1	0.0018	0	1	0.0005
Return for TB test results communicated	.5625	1	0.0059	0	1	0.0691
Explained importance of returning for TB test results	0	.69230769	0.0030	0	1	0.0031

Standardised patient: n=8; Facility: n=39.

Table S6: One-way ANOVA of variables of interest by gender and age

Variable	Between genders			Between age categories		
	Men mean	Women mean	Prob > F	≤ 30 years mean	> 30 years mean	Prob > F
Adequately managed	.43478261	.41891892	0.8493	.375	.50909091	0.1163
TB test conducted	.92753623	.75675676	0.0052	.80681818	.89090909	0.1855
HIV test offered	.44927536	.48648649	0.6586	.40909091	.56363636	0.0725
Asked about household TB contacts	.71014493	.37837838	0.0000	.67045455	.32727273	0.0000
Opening statement only 'coughing a lot'	.92424242	.9	0.6215	.87058824	.98039216	0.0289
Asked about cough duration	.82608696	.78082192	0.5015	.86363636	.7037037	0.0200
Asked about night sweats	.68115942	.5	0.0279	.70454545	.4	0.0003
Asked about weight loss	.66666667	.43243243	0.0047	.59090909	.47272727	0.1697
Asked about fever duration	.23188406	.27027027	0.6002	.29545455	.18181818	0.1295
Blood pressure measured	.46376812	.40277778	0.4685	.47727273	.35849057	0.1703
Weight measured	.36231884	.40277778	0.6242	.35227273	.43396226	0.3373
Pulse checked	.15942029	.09859155	0.2857	.18181818	.03846154	0.0142
Temperature taken	.17391304	.13888889	0.5699	.15909091	.1509434	0.8982
Temperature taken if asked about fever duration	.25	.2	0.7292	.19230769	.3	0.5004
Antibiotics prescribed without taking temperature	.03508772	.12903226	0.0659	.13513514	0	0.0097
Access to surgical mask	.52173913	.44594595	0.3683	.5	.45454545	0.5997
Return for TB test results communicated	.8852459	.80952381	0.2889	.88235294	.8	0.2661
Explained importance of returning for TB test results	.21875	.34545455	0.1258	.21126761	.375	0.0509

Men: n=4; Women: n=4; ≤ 30 years: n=5; > 30 years: n=3.