

## Additional file 4

### Missing value analysis

#### *Univariate Statistics*

	N	Mean	SD	Missing		No. Of Extremes <sup>a</sup>	
				Count	Percent	Low	High
work_experience_year_T0	151	25.91	7.99	1	0.7	0	1
age_T0	147	54.81	7.50	5	3.3	3	0
sex_T0	149	0.67	0.47	3	2.0	0	0
medical_speciality_T0	150	1.89	1.63	2	1.3	0	15
patient_quantity_T0	140			12	7.9		
practice_area_T0	150			2	1.3		
<b>Structural conditions</b>							
structure_guide_T0							
... motivate me to treat patients increasingly guideline-based	149			3	2.0		
structure_involve_T0							
... support me in taking shared therapy decisions with the patients	151			1	0.7		
structure_expect_T0							
... support me in handling patient expectations regarding the prescription of antibiotics	151			1	0.7		
structure_change_T0							
... are helpful when implementing new routines in the practice	150			2	1.3		
structure_time_T0							
... impact the amount of time available to me per patient	151			1	0.7		
structure_impact_T0							
... impact my decision to prescribe antibiotics	151			1	0.7		
<b>Existing processes and organizing processes in the practice ...</b>							
orga_guide_T0							
... motivate guideline-oriented patient care	151			1	0.7		

orga_involve_T0							
... support me in taking a shared the therapy decision with the patients	151			1	0.7		
orga_expect_T0							
... supports me in managing patient expectations regarding the prescription of antibiotics	151			1	0.7		
orga_change_T0							
... are helpful with implementing new routines in the practice	151			1	0.7		
orga_time_T0							
... impact the amount of time available to me per patient	151			1	0.7		
orga_impact_T0							
... impact my decision to prescribe antibiotics	151			1	0.7		
<b>External defined general conditions ...</b>							
regulation_guide_T0							
... motivate guideline-oriented patient care	151			1	0.7		
regulation_decision_T0							
... support me in taking a shared the therapy decision with the patients	152			0	0		
regulation_expect_T0							
... supports me in managing patient expectations regarding the prescription of antibiotics	152			0	0		
regualtion_change_T0							
... are helpful with implementing new routines in the practice	152			0	0		
regulation_time_T0							
... impact the amount of time available to me per patient	152			0	0		
regulation_impact_T0							
... impact my decision to prescribe antibiotics	151			1	0.7		

<b>Participating in the network ...</b>							
PCN_guide_T0							
... motivates guideline-oriented patient care	152			0	0		
PCN_involve_T0	152			0	0		
... supports shared-decision making							
PCN_expect_T0	152			0	0		
... supports managing patient expectations regarding the prescription on antibiotics							
PCN_change_T0	152			0	0		
... supports implementing new routines							
PCN_impact_T0	151			1	0.7		
... has an impact on my antibiotic prescribing decisions							
<b>In my primary care network</b>							
PCN_subject_T0	152			0	0		
... antibiotics therapy is discussed							
PCN_exchange_gen_T0	152			0	0		
... peer exchange about guideline-oriented antibiotics therapy is offered							
PCN_exchange_specif_T0	152			0	0		
... exchange about antibiotic prescribing routines for non-complicated infections is possible							
PCN_agreement_T0	152			0	0		
... there are conventions about antibiotics for non-complicated infections							
PCN_training_T0	151			1	0.7		
... training on guideline-oriented antibiotics therapy is offered							
PCN_training_used_T0	151			1	0.7		
... I participated in training on guideline-oriented antibiotics therapy							

<sup>a</sup> Number of cases outside the range (Q1 – 1.5\*IQR, Q3 + 1.5\*IQR).

*EM-Correlation<sup>a</sup>*

	work_experience_year_T0	age_T0	sex_T0	medical_speciality_T0
work_experience_year_T0	1			
age_T0	0.922	1		
sex_T0	0.12	0.112	1	
medical_speciality_T0	0.011	0	0.209	1

<sup>a</sup> Little's MCAR test: Chi-Square = 13.741, DF = 10, Sig. = .185