APPENDIX C – Data extraction form content

Section	Variables captured	Answer options (empty is open question)
General section	Email Address	
	Title	
	First author (last name)	
	Year published	
	Disease area	(General) respiratory tract infection Influenza Pneumonia (specifically) Urinary tract infection gastroenteritis General reflux complaints Tuberculosis Malaria Dengue HIV Fungal infection Appendicitis Typhoid Other
	Specific pathogens (if given, separate by semicolon ;)	
	Objective (from abstract)	
	Research question(s)	
	Health economic study?	Yes No
Health economic study	Explicit statement on the context of the study	Yes No
	Explanation of relevance for health policy or practise decision	Yes No
	Country	
	Is the model used based on a previously published model? (If yes, give author and year)	
	Target population and subgroups	
	Setting (Primary care, hospital, home, etc.)	Home Primary care Emergency department Hospital Other:
	Study perspective	Societal perspective Healthcare payer's perspective Healthcare centre's perspective Other:
	Interventions or strategies being compared [separate different strategies with a semicolon ;]	
	Duration of the intervention (years)	
	Treatment options included in the analysis [separate different strategies with a semicolon ;]	
	Time horizon (years)	
	Is a time framework and reasoning provided by the authors (are reasons given for the chosen time horizon, e.g. one flue season (when the time horizon is a couple of months to a year) or in concordance with the national guidelines, for a lifetime horizon)	Yes No
	Discount rate for base case (health outcomes)	
	Discount rate for base case (economic outcomes)	
	Study type [As qualified by the authors]	
	Study type [As qualified by the reviewer (use Drummond book for background)]	
	What input parameters were used? (separate by semicolon ;)	
	What were the reported output variables? (separate by semicolon ;)	Life years Life expectancy QALYs DALYs Quality-adjusted life expectancy (QALE) Antibiotic prescriptions saved Hospitalizations saved Days free from disease Other:

Measurement of effectiveness	Single-study based estimates Synthesis-based estimates Other:
Did the authors describe the following: for Single study–based estimates: describe fully the design features of the single effectiveness study and why the single study was a sufficient source of clinical effectiveness data; for synthesis-based estimates: describe fully the methods used for the identification of included studies and synthesis of clinical effectiveness data.	Yes No
Did the authors describe the population and methods used to elicit preferences for outcomes?	Yes No N/A
Are the resource and cost estimations explained in the article?	Yes No
Costs of training method (in reported currency) [separate different strategies with a semicolon ;]	
Costs of treatment options (in reported currency) [separate different strategies with a semicolon ;]	
Currency/currencies reported	US dollars Euros Pound Sterling Japanese yen Other:
Currency year used	
Is the method for currency conversion described?	Yes No
Type of model	Decision tree Markov (compartimental) model Discrete-event simulation Individual sampling model Dynamic compartmental model Individual-contact model / agent-based model Network model Other:
Is the model stochastic or deterministic	Stochastic (or probabilistic) Deterministic Other:
Description of model	
Software used to program the model and statistical analyses	Microsoft Excel TreeAge Pratt Medical Decision maker IBM SPSS R Python C++ Not reported Other:
Is the model design thoroughly described in the article?	Yes No
Are structural or other assumptions underpinning the decision-analytical model described?	Yes No
Is a description given for the analytical methods supporting the evaluation? (e.g. methods for dealing with missing data, skewed data, uncertainty)	Yes No
Is antibiotic resistance included in the model?	Yes No
If yes, how is antibiotic resistance included?	
Unit of incremental costs and outcomes	Costs or savings /QALY Costs or savings /DALY Costs or savings /LYG Costs or savings /antibiotic prescription saved Costs or savings /patient QALYs/DALYs Correct diagnoses Time to correct diagnosis Hospital length-of-stay Disease duration Other:
How is the uncertainty reported?	Deterministic sensitivity analysis (DSA) Table of DSA

Supplemental material

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		Tornado diagram of DSA Sensitivity analysis graph (with one parameter varied) Two-way sensitivity analysis graph Three-way (or more) sensitivity analysis graph Probabilistic sensitivity analysis (PSA) Cost-effectiveness plane of PSA Cost-effectiveness acceptability curve(s) Cost-efficiency/efficiency frontier Other:
	Have subgroup analyses been performed? (If yes, which subgroups and how?)	
	Main findings	
	Are limitations of the study described?	Yes No
	Specific limitations/gaps in the assessment of Training	
	Is generalisability discussed?	Yes No
	To what extend do authors consider the results generalizable?	Specific hospital/healthcare center Nationwide Continental Worldwide Other:
	Have the results been linked to current knowledge?	Yes No
	What is the main conclusion or conclusions? The strategy/strategies being compared was...	Cost-saving Cost-effective Not cost-effective Unclear Other:
	If reported, which willingness-to-pay threshold(s) was/were used?	
	Source of funding	Industrial Governmental grant Academic grant No funding Not reported Other:
	Is a statement on the conflicts of interest present?	Yes No
Non-Health economic study	What is the research design?	
	Country	
	Target population and subgroups	
	Setting (Primary care, hospital, home, etc.)	Home Primary care Emergency department Hospital Other:
	Interventions or strategies being analyzed [separate different strategies with a semicolon ;]	
	Treatment options included in the analysis [separate different strategies with a semicolon ;]	
	Duration of the intervention (years)	
	Variables reported/used (please specify all)	Life years Life expectancy QALYs DALYs Quality-adjusted life expectancy (QALE) Antibiotic prescriptions saved Hospitalizations saved Days free from disease Prescription of right antibiotics Money spent on antibiotics Mortality increase/decrease De-escalation/escalation of antibiotic use Duration of hospital stay Number of diagnostic tests done Other:
	Is antibiotic resistance included in the research?	Yes No
	If yes, how is antibiotic resistance included?	

	Have subgroup analyses been performed? (If yes, which subgroups and how?)	
	Main findings	
	Are limitations of the study described?	Yes No
	Source of funding	Industrial Governmental grant Academic grant No funding Not reported Other:
	Is a statement on the conflicts of interest present?	Yes No