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Figure S1: Checklist for Reporting Of Survey Studies (CROSS)

Checklist for Reporting Of Survey Studies (CROSS)

Section/topic	Item	Item description	Reported on page #
Title and abstract			
1a Title and abstract		State the word "survey" along with a commonly used term in title or abstract to introduce the study's design.	
	1b	Provide an informative summary in the abstract, covering background, objectives, methods, findings/results, interpretation/discussion, and conclusions.	
Introduction			
Background	2	Provide a background about the rationale of study, what has been previously done, and why this survey is needed.	
Purpose/aim	3	Identify specific purposes, aims, goals, or objectives of the study.	
Methods			
Study design	4	Specify the study design in the methods section with a commonly used term (e.g., cross sectional or longitudinal).	-
	5a	Describe the questionnaire (e.g., number of sections, number of questions, number and names of instruments used).	
	5b	Describe all questionnaire instruments that were used in the survey to measure particular concepts. Report target population, reported validity and reliability information, scoring/classification procedure, and reference links (if any).	
Data collection method	ls 5c	Provide information on pretesting of the questionnaire, if performed (in the article or in an online supplement). Report the method of pretesting, number of times questionnaire was pre-tested, number and demographics of participants used for pretesting, and the level of similarity of demographics between pre-testing participants and sample population.	
	5d	Questionnaire if possible, should be fully provided (in the article, or as appendices or as an online supplement).	1
	6a	Describe the study population (i.e., background, locations, eligibility criteria for participant inclusion in survey, exclusion criteria).	
Sample characteristics	6b	Describe the sampling techniques used (e.g., single stage or multistage sampling, simple random sampling, stratified sampling, cluster sampling, convenience sampling). Specify the locations of sample participants whenever clustered sampling was applied.	
	6c	Provide information on sample size, along with details of sample size calculation.	
	6d	Describe how representative the sample is of the study population (or target population if possible), particularly for population-based surveys.	
	7a	Provide information on modes of questionnaire administration, including the type and number of contacts, the location where the survey was conducted (e.g., outpatient room or by use of online tools, such as SurveyMonkey).	
Survey	7b	Provide information of survey's time frame, such as periods of recruitment, exposure, and follow-up days.	
administration	7c	Provide information on the entry process: ->For non-web-based surveys, provide approaches to minimize human error in data entry. ->For web-based surveys, provide approaches to prevent "multiple participation" of participants.	

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Other sections			
Generalizability	16	Discuss the external validity of the results.	
Interpretations	15	Give a cautious overall interpretation of results, based on potential biases and imprecisions and suggest areas for future research.	
Limitations	14	Discuss the limitations of the study, considering sources of potential biases and imprecisions, such as non-representativeness of sample, study design, important uncontrolled confounders.	
Discussion			
	13c	Provide details about any sensitivity analysis performed. If there are considerable amount of missing data, report sensitivity analyses comparing the results of complete cases with that of the imputed dataset (if possible).	
Main findings	13b	For multivariable analysis, provide information on the model building process, model fit statistics, and model assumptions (as appropriate).	
	13a	Give unadjusted estimates and, if applicable, confounder-adjusted estimates along with 95% confidence intervals and p-values.	
Descriptive results	12	Provide characteristics of study participants, as well as information on potential confounders and assessed outcomes.	
	11d	Provide information to define how unique visitors are determined. Report number of unique visitors along with relevant proportions (e.g., view proportion, participation proportion, completion proportion).	
Respondent characteristics	11c	Report response rate, present the definition of response rate or the formula used to calculate response rate.	
D I	11b	Provide reasons for non-participation at each stage, if possible.	
	11a	Report numbers of individuals at each stage of the study. Consider using a flow diagram, if possible.	
Results			
	10g	Describe any sensitivity analysis conducted.	
	10f	Indicate whether any methods such as weighting of items or propensity scores have been used to adjust for non-representativeness of the sample.	
	10e	For longitudinal surveys, state how loss to follow-up was addressed.	
analysis	10d	State how non-response error was addressed.	
Statistical	10c	Report details about how missing data was handled. Include rate of missing items, missing data mechanism (i.e., missing completely at random [MCAR], missing at random [MAR] or missing not at random [MNAR]) and methods used to deal with missing data (e.g., multiple imputation).	
	10b	Report any modification of variables used in the analysis, along with reference (if available).	
	10a	Describe statistical methods and analytical approach. Report the statistical software that was used for data analysis.	
	9b	Provide information about survey anonymity and confidentiality and describe what mechanisms were used to protect unauthorized access.	
Ethical considerations 92		Provide information on ethical approval for the survey if obtained, including informed consent, institutional review board [IRB] approval, Helsinki declaration, and good clinical practice [GCP] declaration (as appropriate).	
Describe any preparation process before conducting the survey (e.g., interviewers' training process, advertising the survey).			

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Role of funding source 17		State whether any funding organization has had any roles in the survey's design, implementation, and analysis.
Conflict of interest	18	Declare any potential conflict of interest.
Acknowledgements	19	Provide names of organizations/persons that are acknowledged along with their contribution to the research.

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Figure S2: Content of the questionnaire that was sent out to the physicians.

	ex?
	o Male
	o Female
2. How old are yo	ou?
3. What is your h	ospital affiliation?
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	
l. What is your cl	linical position?
. What is your ci	Postgraduate medical training
	Resident
	o Fellowship (1. half)
	o Fellowship (2. half)
	 Senior registrar
	o Consultants
	o Unclassified
	o Other
5. How often have	e you prescribed Pip/Taz within the past month?
	Every shift
	 Several times a week
	o Weekly
	o Rare
	o Never
6. Do vou have kn	nowledge of the regional guidelines for prescribing Pip/Taz?
,	• Yes
	o No
	t do you follow the regional guidelines when prescribing Pip/Taz?
7. To what extent	All the time
7. To what extent	- '
7. To what extent	 More than half of the time
7. To what extent	More than half of the timeHalf of the time
7. To what extent	
7. To what extent	 Half of the time

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- 8. Have you prescribed Pip/Taz within the past month despite the regional guidelines recommended narrow-spectrum antibiotic?
 - o Yes
 - o No
 - o Don't know
- 9A.What was the reason for prescribing Pip/Taz despite the regional guidelines recommended narrow-spectrum antibiotic?
 - o I usually prescribe Pip/Taz
 - I felt pressured to prescribe Pip/Taz, for instance due to pressure of time
 - o The nurse recommended me to prescribe Pip/Taz
 - o I was in doubt of what to choose
 - I consulted the patient with a colleague and was recommended Pip/Taz
 - I was worried about the patient's condition (e.g. suspected sepsis or deterioration of vital signs)
 - o Patient/relative requested treatment with Pip/Taz

 Other 	
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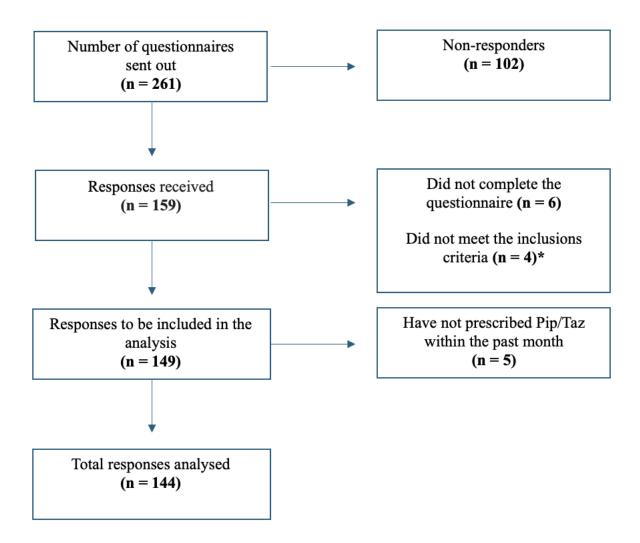
- 9B. What consideration (s) were behind your last prescription of Pip/Taz? Choose a maximum of 3
 - I usually prescribe Pip/Taz
 - o I felt pressured to prescribe, for instance due to pressure of time
 - o The nurse recommended me to prescribe Pip/Taz
 - o I was in doubt of what to choose
 - I consulted the patient with a colleague and was recommended Pip/Taz
 - I was worried about the patient's condition (e.g. suspected sepsis or deterioration of vital signs)
 - o Patient/relative requested treatment with Pip/Taz
 - The patient met the requirement for receiving treatment with Pip/Taz cf. guidelines

0	Other				

10. I	you have any	other comments	s about physicians	' prescription of Pip/Taz in
e	mergency dep	artment, please v	vrite them here	

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Figure S3. Flowchart illustrating the included responses.



^{*}Inclusion criteria: physicians (postgraduate medical training, residents, fellows, senior registrar, consultants or physicians in an unclassified position) employed in one of the 5 EDs.

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Table S1: Considerations regarding the last prescription of Pip/Taz by the physicians who had followed the regional guidelines.

What consideration (s) were behind your last prescription of Pip/Taz? Choose a maximum					
of 3 $(n = 107)$ *					
The patient met the requirement for receiving treatment with Pip/Taz	83 (40.9)				
cf. guidelines n (%)					
I was worried about the patient's condition (e.g., suspected sepsis or	66 (32.5)				
deterioration of vital signs) n (%)					
I consulted a colleague about the patient who recommended Pip/Taz.	43 (21.2)				
n (%)					
Other** n (%)	11 (5.4)				

^{*}A single dropout due to non-response of the above, n = 107.

³³ chose 3 out of 3 possible reasons. 30 chose 2 out of 3 possible reasons. 44 chose 1 out of 3 possible reasons, resulting in a total of 203 responses.

^{**}Other: 'I usually prescribe Pip/Taz', 'allergy', 'medicine shortages', 'I felt pressured to prescribe, for instance, do to pressure of time', 'unclear focus', 'I was in doubt about what I had to choose' and 'immunocompromised patients.'