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Inappropriate antibiotic prescribing: understanding clinicians' perceptions to enable changes in prescribing practices

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Supplementary S1: Survey Questionnaire

Electronic Consent

Please note that completion of the survey indicates your consent to being involved in the study.

i.	What is your age, please select the appropriate age category								
	□ Below 18 □ Above 6		24	□ 25-34	□ 35-44	□ 45-54	□ 55-64		
ii.	What is yo	ur gender?							
	□ Male	□ Fer	nale	□ Oth	ner				
iii. You have been practicing medicine for									
	□ 1-5 years	s 🗆 6-10 y	/ears	□ 11-15 years	s □ 16-20 y	ears □ > 2	20 years		
iv.	Select the	area of specia	lization						
	Vedicine	□ Surgery	□ Paedi	iatrics 🗆 Gy	naecology and	Obstetrics	□ Orthopaedics		
	Jrology	Dermatolog	y □C	Ophthalmology	🗆 Cardiolo	gy 🗆 Othe	rs		
v.	Select the	type of your p	ractice(s)						
	Public practic	e	Privat	e practice		ixed practice			
vi.	vi. Please enter the postcode of your workplace(s)								
vii.	Do you foll	ow any specif	ic antibio	tic prescriptio	on guidelines i	n your practice	} ?		
a. Yes									
b. No									
	c. No inform	No information about antibiotic prescription guidelines							
	lf yes, p	If yes, please specify whether these guidelines are:							
	a. Intranet/local guidelines								
	b. National	guidelines (e.	g. Therape	utic Guidelines	: Antibiotics)				

viii. How often do you use the above specified guidelines for prescribing antibiotics?

- a. Multiple times in a day
- b. Once a day
- c. Once a week
- d. Once a month
- e. Never
- ix. In your opinion, which of the following factors can be barriers to appropriate antibiotic prescribing (please select all that apply):
 - a. Delay in diagnostic tests/cultures
 - b. Lack of information (formulary restrictions, local resistance pattern etc.)
 - c. Absence of prescription guidelines
 - d. Pressure from patients
 - e. Knowledge and perceptions of healthcare providers
 - f. Others (please specify):

x. Does your hospital have any electronic system/module for the following purposes?

		No system	Basic system	Fully functional advanced system
a.	Patient information management (i.e. electronic medical records)			
b.	Medication management (i.e. electronic ordering)			

- c. Decision support (i.e. alerts and reminders)
- xi. If there is an clinical decision support system in your hospital(s), which of the following functionalities it provides specifically for antibiotic stewardship (please select all that apply):
 - a. Optimal selection of treatment
 - b. Formulary information on antibiotic treatments

- c. Protocols and antibiotic prescription guidelines
- d. Knowledge-base (central repository of information)
- e. Allergy/mismatch alerts
- f. Prescription based-reminders
- g. Dosing calculators
- h. No functionality is specific to antibiotic stewardship
- i. Any other: (please specify)

xii. In your opinion, what can be the likely impact of electronic decision support systems on antibiotic management in your hospital?

		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
a.	Improvement in quality of care and patient safety					
b.	Increase in efficacy of antibiotic treatment					
C.	Access to protocols, guidelines and medicine information					
d.	Decrease in unnecessary broad-spectrum antibiotic prescriptions					
e.	Reduction in cost of antibiotic therapy					

xiii. Do you think that the following factors can be considered as barriers for clinical decision support system?

		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
a.	Lack of knowledge, training and technical support on					
b.	Clinical time constraints					
C.	Patients' preferences					
d.	Limits professional autonomy					
e.	Lack of confidence in the content of the system					

- f. Ethical Risks associated with clinical decision support systems
- g. Medico-legal liability
- xiv. Which of the following factors can facilitate the use of clinical decision support system in your daily practice?

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
a. Departmental/Organizational support					
b. Ease of use					
c. Technical support and training)				
 Users' participation in plannin designing and implementatior phases 	•				
e. Timely access to resources					

xv. Do you want to share any specific recommendation(s)/concern(s) for implementation of clinical decision support systems for antibiotic management?