Questionnaire of Parents' Knowledge, Attitudes and Practice of Children Antibiotic Use in China

Part 1: The General Information

If you have more than one child, the child in this questionnaire refers to the one who is currently taking the vaccine at the vaccination site or the one who is attending the sample kindergarten or primary school.

prin	nary school.			
1.	Gender of your child: □Male □Female			
2.	The child's date of birth:			
3.	Number of children:			
	3.1 How many children do you have?;			
	3.2 Which one is the child involved in this survey?			
4.	You are the child's: □Father □Mother			
5.	Who is the main child caregiver at home?			
	□Father □Mother □Grandfather □Grandmother □Others			
6.	Your education level:			
	□Primary school or below □Middle school □High school/Technical secondary school			
	☐College/Junior college ☐Postgraduate or above			
7.	Your spouse's education level:			
	□Primary school or below □Middle school □High school/Technical secondary school			
	□College/Junior college □Postgraduate or above			
8.	Your location of residence? □Rural □Urban			
9.	Do you have any medical education background? \Box Yes \Box No			
10.	Does your spouse have any medical education background? \Box Yes \Box No			
11.	Are grandparents at home involved in treatment decisions when your child is ill?			
	□Never □Sometimes □Often □Always			
12.	Your average household income per month (RMB)?			
	$\square < 3,000 \square \ 3,001-5,000 \square \ 5,001-10,000 \square \ 10,001-20,000 \square > 20,000$			
Par	t 2: Antibiotics Related Knowledge			
13.	Antibiotics are effective for viral infections.			
	□Yes □No □Don't know			

14.	Antibiotics are anti-inflammatory drugs.				
	□Yes □No □Don't know				
15.	. The more frequently people use antibiotics, the harder it is to cure the bacterial infections.				
	□Yes □No □Don't know				
16.	Excessive use of antibiotics can lead to bacterial antibiotic	Excessive use of antibiotics can lead to bacterial antibiotic resistance.			
	□Yes □No □Don't know				
17.	Expensive antibiotics are more effective than cheap ones.				
	□Yes □No □Don't know				
18.	Excessive use of antibiotics is a serious problem in China.				
	□Yes □No □Don't know				
19.	Bacterial antibiotic resistance in China will become a serie	ous probl	em.		
	□Yes □No □Don't know				
20.	New antibiotics are more effective than old ones.				
	☐Yes ☐No ☐Don't know				
21.	Excessive use of antibiotics can produce superbugs.				
	☐Yes ☐No ☐Don't know				
22.	Do you think the following drugs are antibiotics (or not)?				
	• Penicillin (amoxicillin, etc.)	□Yes	□No	□Don't know	
	• Cephalosporin (cefaclor, ceftriaxone sodium, etc.)	□Yes	□No	□Don't know	
	Non-steroidal anti-inflammatory drugs (ibuprofen,	□Yes	\square No	\square Don't know	
	aspirin, etc.)				
	● Steroids (dexamethasone, prednisone, etc.) □Yes □No □Don't l			□Don't know	
	• Quinolones (norfloxacin, ofloxacin, etc.)	□Yes	□No	□Don't know	
	• Macrolides (azithromycin, roxithromycin, etc.)	□Yes	\square No	\square Don't know	
23.	Do you think antibiotics are appropriate when your cl	hild has	the follo	owing conditions	
	(diseases)?				
	• Sore throat	□Yes	□No	□Don't know	
	• Common cold (cough, runny nose)	□Yes	□No	□Don't know	
	 Diarrhea 	□Yes	□No	□Don't know	
	• Fever	□Yes	□No	□Don't know	
	Otitis media	□Yes	□No	□Don't know	

<i>2</i> 4.	Using antibiotics can speed up your child's cold recovery.		
	□Yes □No □Don't know		
25.	Using antibiotics can alleviate your child's cold symptoms.		
	□Yes □No □Don't know		
26.	If your child needs antibiotics, it is better to be administered by infusion.		
	□Yes □No □Don't know		
27.	Once your child's symptoms are relieved, antibiotic use should be stopped immediately.		
	□Yes □No □Don't know		
28.	There will be fewer and fewer effective antibiotics in the future if we don't use antibiotics		
	properly.		
	□Yes □no □Don't know		
29.	Antibiotics are effective for child's viral infections.		
	☐Yes ☐No ☐Don't know		

Part 3: Antibiotic Use Behaviors (can't go back to Part 1 or Part 2)

Dear parent, before you start answering the following questions, please read the following messages about antibiotic knowledge:

- 1. Antibiotics are different from anti-inflammatory drugs; antibiotics can kill bacteria but are not effective for viral infections.
- 2. Common-used antibiotics include:
 - Penicillin (amoxicillin, etc.)
 - Cephalosporin (cefaclor, ceftriaxone sodium, etc.)
 - Quinolones (norfloxacin, ofloxacin, etc.)
 - Macrolides (azithromycin and roxithromycin etc.)
 - Sulfa

You may find that some of your answers to the questions in the second part of this survey are wrong, but it doesn't matter because what we need is to know your genuine antibiotic knowledge level. Please don't be uneasy about the answers.

` '	case don't be uneasy about the unswers.
30.	Did your child get sick in the last month?
	☐ Yes ☐ No (skip to No.42)
31.	If yes, which condition or disease did your child get?
	31.1 Common cold (cough, runny nose): □Yes □No
	31.1.1 If yes, the cold lasted for days.
	31.2 Fever: □Yes □No
	31.2.1 If yes, the fever was up to $__$ $^{\circ}$ C;
	31.2.2 If yes, the fever lasted for days.
	31.3 Sore throat: $\square \text{Yes} \square \text{No}$
	31.3.1 If yes, the sore throat lasted for days.
	31.4 Diarrhea: □Yes □No
	31.4.1 If yes, the diarrhea lasted for days.
	31.5 Otitis media: □Yes □No
	31.5.1 If yes, the otitis media lasted for days.
	31.6 Others: □Yes □No
32.	Did your child get treated? □Yes □No (skip to No. 42)
33.	If yes, what treatment did your child get?
	□ Pure self-treatment (skip to No. 33.1)
	☐ Self-treated first, then sought formal health care if not getting better (skip to No. 33.2)

	☐ Sought formal health care (skip to No. 36)					
	33.1	Did you use antibiotics	for your child during self-trea	tment?		
		☐Yes (skip to No. 34)	\square No (skip to No. 42)			
	33.2	Did you use antibiotics	for your child during self-trea	tment?		
		☐ Yes (skip to No. 34)	\square No (skip to No. 42)			
34.	If ye	es, please tell us the name	e of the antibiotic(s):		·	
35.	Whe	ere did you get the antibio	otic(s)?			
	□Н	ousehold storage				
	□Pı	urchased over the counte	r at the pharmacies			
	$\Box B$	rought by others				
	□О	thers				
36.	Whi	ch health facility did you	go to?			
	•	Private clinic/Village c	linics	\square No	\square Yes	
	•	Community health cen	ters/Township hospital	\square No	\square Yes	
	•	Secondary/County hos	pital	\square No	\square Yes	
	•	Tertiary hospital		□No	□Yes	
37.	Whe	en visiting the doctor at	the health facility, did he/she	prescrib	e any antibio	otics for your
	chile	d?				
	$\Box Y$	tes \Box No (skip to No. 4.	2)			
	37.1	If yes, please tell us the	name of the antibiotic(s):		•	
38.	If th	e doctor prescribed antib	iotics, were they used by oral	adminis	stration or infi	asion?
	О	ral administration	fusion Both			
39.	Did	you immediately stop us	ing antibiotics (either oral adm	inistrati	ion or infusion	n) when you
	chile	d's symptoms were reliev	ved?			
	□Y					
40.		_	did you request antibiotics	s from	the doctor	(either ora
		inistration or infusion)?				
		es, I requested for infusion				
	□Y	es, I requested for oral ar	ntibiotic prescriptions.			
		o (skip to No. 42)				
41.		the doctor agree to your sion)?	request for antibiotic prescrip	tion (eit	ther oral adm	inistration or

	□Yes □No				
12.	Do you keep antibiotics at home for your child (not for current use) at the time of the survey?				
	□Yes □No				
13.	3. If yes, where did you get the antibiotics?				
	☐ Leftover prescriptions				
	☐ Purchased over the counter at the pharmacies before				
	☐Brought by others	☐Brought by others			
	\Box Others				
14.	4. In the past year, did you give your child antibiotics to prevent disea	ses (e.g. when your child's			
	classmates got a cold or flu)?				
	□Yes □No				
15.	As a parent, what are the main information sources for you to get knowledge about dealing				
	with child's common cold, fever, diarrhea and other diseases?	with child's common cold, fever, diarrhea and other diseases?			
	● Medical advice □No	□Yes			
	● Family advice/experience □No	□Yes			
	● TV □No	□Yes			
	● Internet □No	□Yes			
	● Radio □No	□Yes			
	● Newspapers/magazines/books □No	□Yes			
	● Weibo, Wechat or QQ □No	□Yes			
	● Others □No	□Yes			