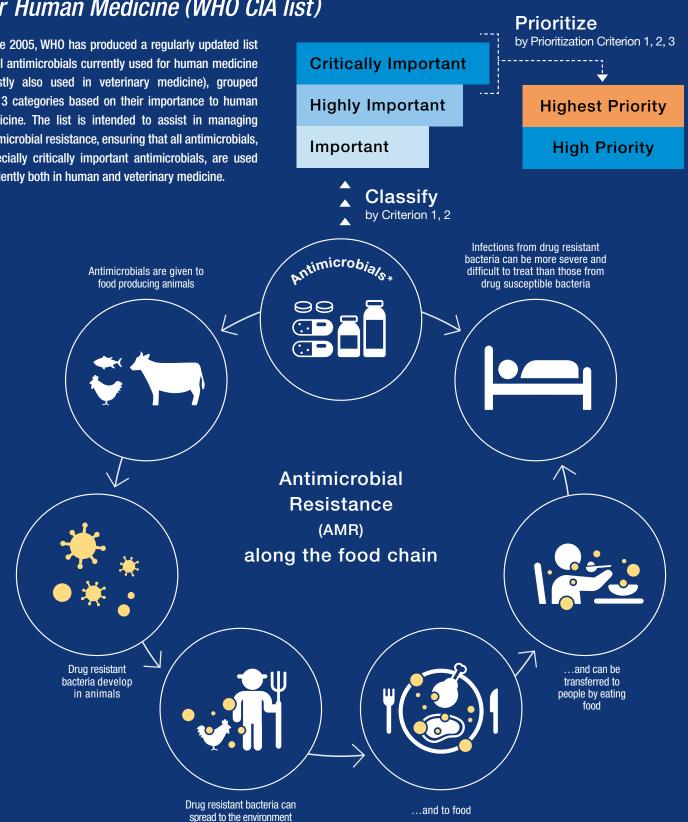
## WHO list of Critically Important Antimicrobials for Human Medicine (WHO CIA list)

Since 2005, WHO has produced a regularly updated list of all antimicrobials currently used for human medicine (mostly also used in veterinary medicine), grouped into 3 categories based on their importance to human medicine. The list is intended to assist in managing antimicrobial resistance, ensuring that all antimicrobials, especially critically important antimicrobials, are used prudently both in human and veterinary medicine.



WHO supports optimization of the use of antimicrobial medicines in human and animal to preserve their effectiveness by taking a One Health approach





## WHO Critically Important Antimicrobials for Human Medicine 5th revision

Advisory Group on Integrated Surveillance of Antimicrobial Resistance (AGISAR) October 2016

Summary of classification and prioritization of antimicrobials categorized as Critically Important, Highly Important and Important

	П	Antimicrobial class			Criterion (Yes = ●)				
		CRITICALLY IMPORTANT ANTIMICROBIALS		C1	C2	P1	P2	Р3	
		HIGHEST PRIORITY							
		Highest Priority	Cephalosporins (3rd, 4th and 5th generation)	•	•	•	•	•	
	Critically Important		Glycopeptides	•	•	•	•	•	
			Macrolides and ketolides	•	•	•	•	•	
			Polymyxins	•	•	•	•	•	
			Quinolones	•	•	•	•	•	
		HIGH PRIORITY							
Antimicrobials		Aminoglycosides		•	•		•	•	
		Ansamycins		•	•	•	•		
		Carbapenems and other penems		•	•	•	•		
		Glycylcyclines		•	•	•			
		Lipopeptides		•	•	•			
			Monobactams	•	•	•			
		<i>Oxazolidinones</i>		•	•	•			
		Penicillins (natural, aminopenicillins, and antipseudomonal)			•		•		
		Phosphonic acid derivatives		•	•	•	•		
		Drugs used solely to treat tuberculosis or other mycobacterial diseases		•	•	•	•		
t /		diseases							
tai	Highly Important		HIGHLY IMPORTANT ANTIMICROBIALS	C1	C2	P1	P2	Р3	
Medically Important Antimicrobials		Amidinopenicillins			•				
		Amphenicols			•				
		Cephalosporins (1st and 2nd generation) and cephamycins			•				
		Lincosamides			•				
		Penicillins (anti-staphylococcal) Pseudomonic acids			•				
					•				
			Riminofenazines	•	NA				
			Steroid antibacterials		•	•			
	Ĭ		Streptogramins		•	•			
	ı	Sulfona	Sulfonamides, dihydrofolate reductase inhibitors and combinations  Sulfones						
		Odirona							
		Tetracyclines							
			TELI ACYCIII IES	•					
	ī		IMPORTANT ANTIMICROBIALS	C1	C2	P1	P2	Р3	
	r			C1	C2	P1	P2	Р3	
	rtant		IMPORTANT ANTIMICROBIALS	C1	C2	P1	P2	P3	
	portant		IMPORTANT ANTIMICROBIALS  Aminocyclitols	C1	C2	P1	P2 NA	Р3	
	Important		IMPORTANT ANTIMICROBIALS  Aminocyclitols  Cyclic polypeptides	C1	C2	P1	1	Р3	
	Important		IMPORTANT ANTIMICROBIALS  Aminocyclitols  Cyclic polypeptides  Nitrofurantoins	C1	C2	P1	1	Р3	

C1 Criterion 1

The antimicrobial class is the sole, or one of limited available therapies, to treat serious bacterial infections in people.

C2 Criterion 2

The antimicrobial class is used to treat infections in people caused by either: (1) bacteria that may be transmitted to humans from nonhuman sources, or (2) bacteria that may acquire resistance genes from nonhuman sources.

P1 Prioritization criterion 1

High absolute number of people, or high proportion of use in patients with serious infections in health care settings affected by bacterial diseases for which the antimicrobial class is the sole or one of few alternatives to treat serious infections in humans.

P2 Prioritization criterion 2

High frequency of use of the antimicrobial class for any indication in human medicine, or else high proportion of use in patients with serious infections in health care settings, since use may favour selection of resistance in both settings.

P3 Prioritization criterion 3

The antimicrobial class is used to treat infections in people for which there is evidence of transmission of resistant bacteria or resistance genes from non-human sources.

WHO CIA list 5th rev. : http://who.int/foodsafety/publications/antimicrobials-fifth/en/AGISAR: http://who.int/foodsafety/areas\_work/antimicrobial-resistance/agisar/en

