

PUBLISHED BY ALLIANCE FOR THE PRUDENT USE OF ANTIBIOTICS (APUA)-NEPAL

Editorial...

This is the sixteenth newsletter that APUA-Nepal presents you with. We hope that this newsletter will help us all in its small way, to not lose our focus from ever increasing problem of bacterial resistance.

APUA-Nepal intends to bring out its newsletter regularly to update our valued members about its activities, recent scenario and advancement in the field of antimicrobial resistance. We will indeed be grateful if you could contribute in any way possible by your suggestions, advice and comments.

We also like to request anyone working in the field of health profession to join us, to become member of APUA-Nepal.

We like to thank everyone who was involved in bringing out this newsletter.

Lastly, we intend to present this newsletter to our readers as a Dashain greetings. So, please accept our Dashain and Tihar greetings.

STUDY OF SENSITIVITY PATTERNS OF COMMON ISOLATES IN URINE AND BLOOD FROM DIFFERENT HOSPITALS OF NEPAL

APUA- Nepal published antibiotic sensitivity patterns of common isolates in urine, blood and pus samples from different hospitals (regional, zonal and medical college teaching hospital) of Nepal in its Newsletter published from 2004 to 2018. The average sensitivity percentage in isolates from May or June to July or August from the hospital were included in Newsletters. This issue of Newsletter includes average sensitivity percentage of pathogens in urine and blood samples after 2015 from Tribhuvan University Teaching Hospital (TUTH) and Lumbini Zonal Hospital (LZH). The data published earlier in the Newsletter have been used. The results show differences in sensitivity patterns of the isolates and use of antibiotics discs for sensitivity testing.

Urine Isolates

Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 531)	% isolates sensitive May - July 2015 LZH (n= 40)
<i>E. coli</i>		
Amikacin	92.0	92.5
Amoxicillin + clavulanic	37.0	DNU
Ampicillin	26.0	DNU
Ampicillin + sulbactam	80.0	DNU
Cefepime	76.0	DNU
Cefixime	43.0	52.5
Cefoperazone + sulbactam	85.0	DNU
Cefotaxime	DNU	60.0
Ceftazidime	96.0	DNU
Ceftriaxone	43.0	57.5
Chloramphenicol	93.0	DNU
Ciprofloxacin	46.0	55.0
Colistin	100.0	DNU
Cotrimoxazole	45.0	50.0
Doxycycline	81.0	DNU
Gentamicin	85.0	DNU
Imipenem	93.0	DNU
Levofloxacin	73.0	DNU
Meropenem	94.0	DNU
Nitrofurantoin	80.0	75.0
Norfloxacin	41.0	57.5
Ofloxacin	DNU	52.5
Piperacillin + tazobactam	85.0	DNU
Tigecycline	92.0	DNU

DNU= Disc not used

ACTIVITIES BY APUA-NEPAL IN LAST ONE YEAR

- Publication and distribution of Vol. 15 of APUA-Nepal Newsletter to different medical colleges and hospitals.
- APUA has merged with the International Society of Antimicrobial Chemotherapy (ISAC). ISAC would carry on and develop the work of all APUA Chapters, including Nepal Chapter. APUA and ISAC will retain their own identity.

STUDY OF.....

Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 80)	% isolates sensitive May - July 2015 LZH (n = 8)	Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 33)	% isolates sensitive May - July 2015 LZH
<i>K. pneumoniae</i>			<i>S. aureus</i>		
Amikacin	73.0	75.0	Amikacin	100.0	
Ampicillin + sulbactam	41.0	DNU	Ampicillin	57.0	
Cefepime	61.0	DNU	Cephalexin	71.0	Data not available
Cefixime	43.0	75.0	Ciprofloxacin	65.0	
Cefoperazone + sulbactam	79.0	DNU	Clindamycin	80.0	
Cefotaxime	DNU	87.5	Cloxacillin	72.0	
Ceftazidime	44.0	DNU	Cotrimoxazole	79.0	
Ceftriaxone	43.0	75.0	Doxycycline	100.0	
Chloramphenicol	76.0	DNU	Gentamicin	89.0	
Ciprofloxacin	56.0	62.5	Imipenem	DNU	
Colistin	100.0	DNU	Levofloxacin	75.0	
Cotrimoxazole	47.0	37.5	Meropenem	DNU	
Doxycycline	73.0	DNU	Nitrofurantoin	93.0	
Gentamicin	64.0	DNU	Norfloxacin	67.0	
Imipenem	85.0	DNU	Teicoplanin	100.0	
Levofloxacin	57.0	DNU	Tigecycline	100.0	
Meropenem	82.0	DNU	Vancomycin	100.0	
Nitrofurantoin	35.0	25.0			
Norfloxacin	47.0	50.0			
Ofloxacin	DNU	37.5			
Piperacillin + tazobactam	69.0	DNU			
Tigecycline	100.0	DNU			
Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 69)	% isolates sensitive May - July 2015 LZH	Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH	% isolates sensitive May - July 2015 LZH (n = 5)
<i>E. faecalis</i>			<i>Morganella</i>		
Ampicillin	43.0		Amikacin	Not among four common isolates	100.0
Ampicillin + sulbactam	56.0		Amoxicillin		DNU
Amoxicillin + clavulanic	56.0		Cefixime		40.0
Ciprofloxacin	25.0		Cefotaxime		60.0
Doxycycline	85.0	Data not available	Ceftriaxone		40.0
Gentamicin	51.0		Ciprofloxacin		40.0
Levofloxacin	34.0		Cotrimoxazole		20.0
Nitrofurantoin	66.0		Nitrofurantoin		80.0
Norfloxacin	25.0		Norfloxacin		40.0
Piperacillin + tazobactam	84.0		Ofloxacin		40.0
Tigecycline	100.0				
Teicoplanin	100.0				
Vancomycin	100.0				

Blood Isolates			International Society of Antimicrobial Chemotherapy (ISAC) -a brief history
Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 26)	% isolates sensitive May - July 2015 LZH	
S. aureus			<p>The society was originally called the International Society of Chemotherapy for Infection and Cancer (ISC) and was formally established in 1961. It was renamed the International Congress of Chemotherapy (ICC) in 1963. The new name ISAC was given in 2016-17, reflecting the focus of the society. ISAC aims to advance the education and the science of therapy of infection through the establishment of an international federation of affiliated national and regional societies with similar aims and objectives to its own. ISAC currently has a worldwide membership composed of 86 member societies, which in turn have over 50,000 individual members.</p>
Amikacin	86.0		
Ampicillin	35.0		
Cephalexin	71.0		
Ciprofloxacin	58.0		
Chloramphenicol	89.0		
Clindamycin	63.0	Data not available	
Cloxacillin	75.0		
Cotrimoxazole	62.0		
Doxycycline	DNU		
Erythromycin	32.0		
Gentamycin	72.0		
Levofloxacin	78.0		
Ofloxacin	63.0		
Teicoplanin	100.0		
Tigecycline	83.0		
Vancomycin	100.0		
Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 76)	% isolates sensitive May - July 2015 LZH	
S. enterica typhi			<div style="border: 1px solid black; padding: 10px; background-color: #e0f0e0;"> <p> PIG6afoff]6ssf] Ij j \$kof{ kof]u gugf] xfn pknAw w]h; f] PIG6afoff]6s ; E klt/f]w ug{ ; Sg] Hofb}xflgsf/s AofS6]v/ofx? b]yf kg{yfn\$]f 5g\ </p> <p><i>Source: APUA-Nepal Poster 2009</i></p> </div>
Ampicillin	96.0		
Amoxicillin + clavulanic	97.0		
Azithromycin	79.0	Data not available	
Cefixime	98.0		
Ceftriaxone	98.0		
Chloramphenicol	DNU		
Ciprofloxacin	28.0		
Cotrimoxazole	100.0		
Levofloxacin	49.0		
Ofloxacin	60.0		
Antibiotic sensitivity	% isolates sensitive May - July 2018 TUTH (n= 7)	% isolates sensitive May - July 2015 LZH	
S. paratyphi A			<div style="border: 1px solid black; padding: 10px; background-color: #e0f0e0;"> <p> PIG6afoff]6s AofS6]v/ofx?sf]Ij ?4 dfq pkof]uL xG5, ef0{; (Virus) j f6 nflg]/f]u, h:t}??3fvf\$]Lsf] pkrf/sf]nflu slxn]klg PIG6afoff]6s kof]u gugx]f \ </p> <p><i>Source: APUA-Nepal poster, 2009</i></p> </div>
Ampicillin	100.0		
Amoxicillin + clavulanic	100.0		
Azithromycin	80.0	Data not available	
Cefixime	100.0		
Ceftriaxone	100.0		
Chloramphenicol	DNU		
Ciprofloxacin	20.0		
Cotrimoxazole	100.0		
Levofloxacin	43.0		
Ofloxacin	33.0		

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Reader's form

Please send your comments on the following:

1. Usefulness and quality of this newsletter

2. Suggestion for the future topics

3. Any other comments

Name _____

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