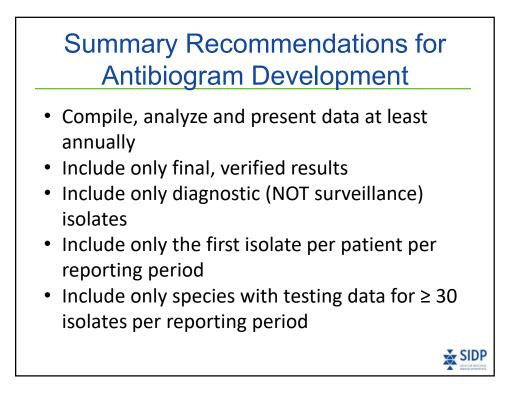


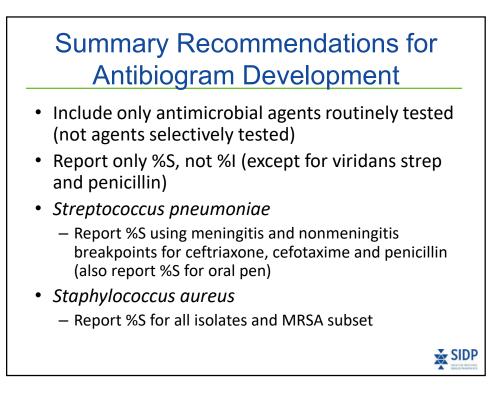
Desirable Characteristics of Data Analysis Software

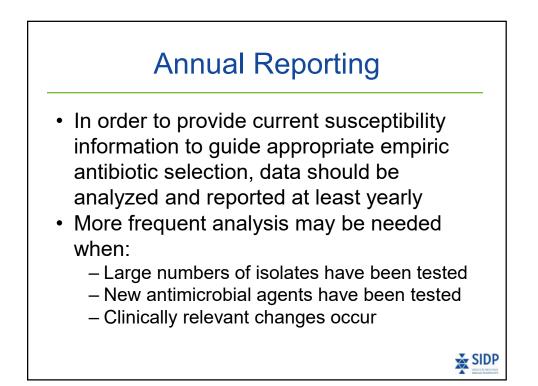
- Susceptibility test result data files should be available in a consistent format utilizing consistent codes in order to facilitate data analysis and interpretation
- Data should be preserved and communicated clearly if more than one isolate is recovered or more than one panel is used for susceptibility testing
- Data should be easily importable and modifiable

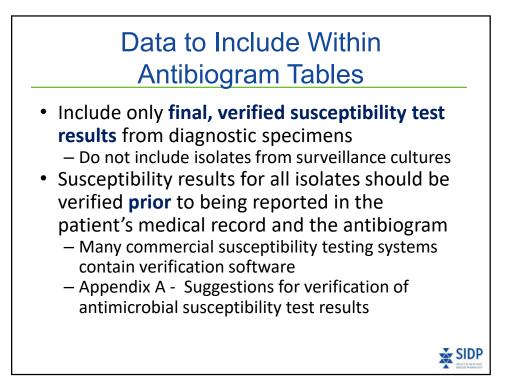
SIDP

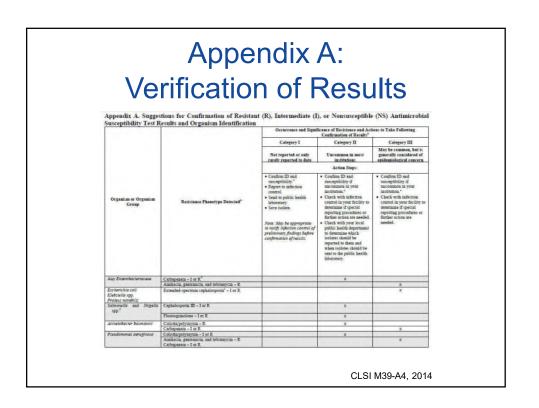
Important Information for Individual **Culture Data Patient Demographics Organism Information** Unique patient identifier Organism identification Health care facility Isolate number Date of birth or age Ability to compare results over time Gender Supplemental information Patient location **Specimen Information Susceptibility Data** Specimen identifier MIC or zone size with interpretation for all antibiotics Specimen type tested Date of collection All susceptibility testing methods Body site used SIDP



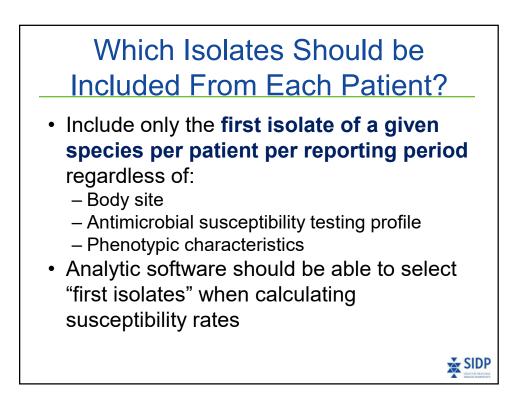


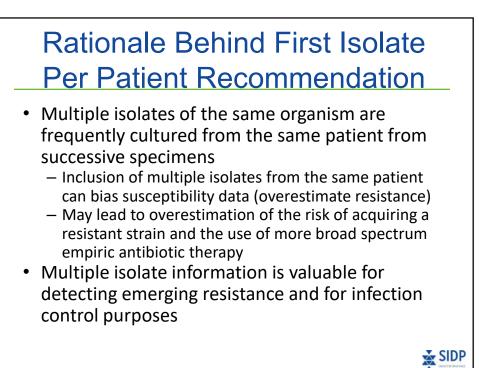






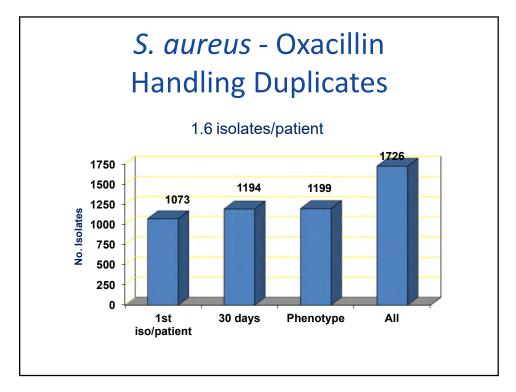
		ndix /	٦.	
Ve	erificatio			lts
		Occurrence and Signif	icance of Resistance and Ac	tions to Take Following
Organism er Organism Greup	Resistance Phenotype Detected*	Category I Not reported or only rarely reported to date	Confirmation of Results' Category II Uncommon in most institutions	Category III May be common, but is generally considered of epidemiological concern
Stenotrophomonaz maltophilia	Trimethoprim-vulfamethoxazole - I or R		x	
Haemophilus influenzae	Carbapenem – NS Ceffaroline – NS Extended-spectrum cephalosporin' – NS Photogeninolone – NS	X		
	Amoxicilin-clavulanate - R Ampicillin - R and β-lactamase negative		x	
Neissenia	Extended-spectrum cephalosporm ⁶ - NS		x	
gonarrhoeae Neisseria meningitidis	Finoroquinolone – I or R Ampicillin or pendicillin – R Extended-spectrum cephalosporin ^o – NS Meropenen – NS	x		x
	Ampicillin or penicillin – I Arithromycin – NS Chloramphasaciol – I or R Phoroogninolone – I or R Minocycline – NS Rifampia – I or R		x	
Enterococcus spp.	Daptomycin - NS Linezolid - R		x	
	Vancomycin – R. High-level aminoglycoside – R.			x
Staphylococcus aurous	Vancomycin MIC 28 µg/mL ⁶ Ceftravline - R Daptomycin - NS Linezoliń - R Qainupristin-dalfopristin - I or R Vancomycin MIC = 4 µg/mL		x ⁴ X	
Staphylococcus, congulase-megative	Oxacillin = R Deptemycin = NS Linezolid = R Quinupristan-dalfopristan = I or R Vancomycin = I or R ⁴		x	x

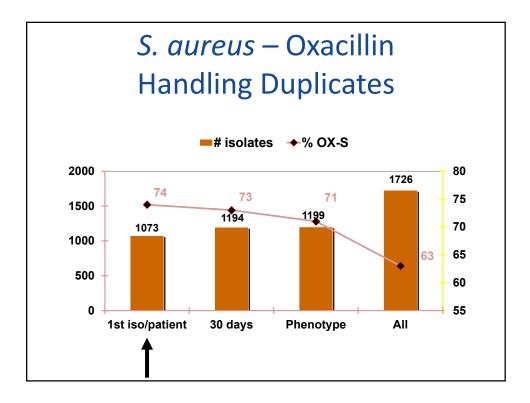


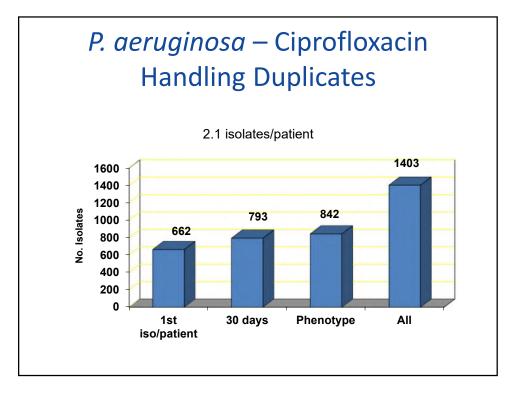


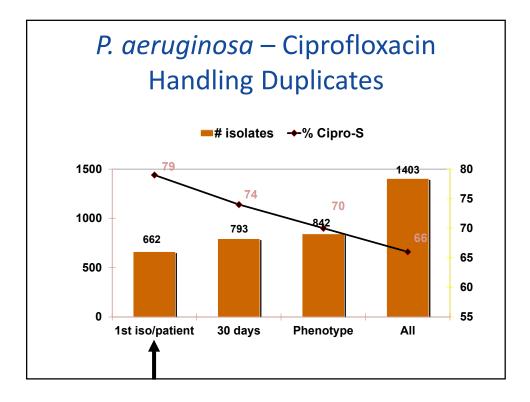
Susceptibility Rates Depending on Calculation Method Utilized

Calculation Method	N	%S
Isolate-based estimate All isolates	1892 isolates	54
Patient-based estimates		
Most susceptible	1019 patients	69
First isolate	1019 patients	67
Weighted average	1019 patients	66
Most resistant	1019 patients	64
Episode-based estimates		
First isolate, 30-day interval	1060 episodes	66
First isolate, 7-day interval	1262 episodes	61
Phenotype-based estimates		
First isolate, major or minor differences	Second Second	
in oxacillin only	1070 "strains"	66
First isolate, major differences in any	man and a set	
antimicrobial agent	1311 "strains"	61
Abbreviation: %S, percent susceptible.		
	C	LSI M39-A4, 20









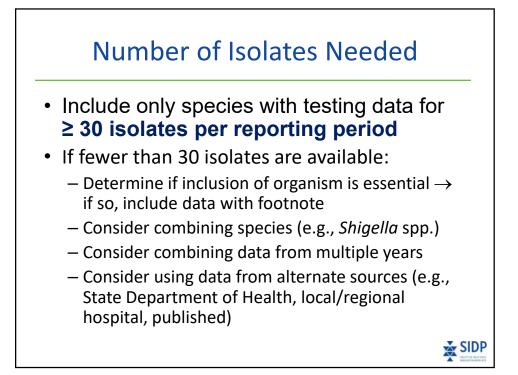
Verifying the Removal of Duplicate Isolates

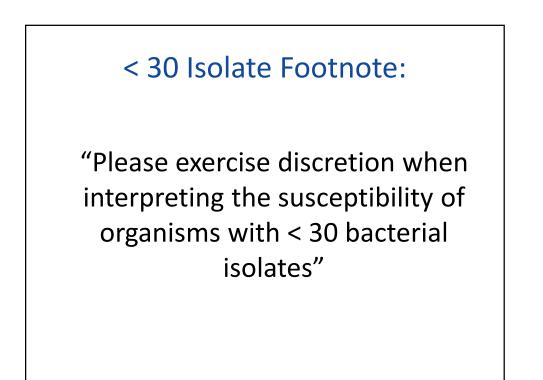
Line listings of susceptibility data should be used to manually calculate number of isolates and susceptibility rates and then compared with computer-generated reports to ensure that it is calculating the data correctly

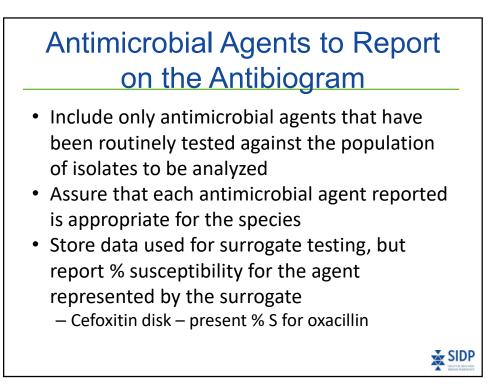
- Initial use of the program
- When changes are made to the analytical software or MIC/disk diffusion interpretive criteria
- For select organisms where multiple cultures are often performed

SIDP

ppendix	C.I			Ising	a Line 1	Listing	to Ver	fy Susce	ntibilit					Anal		Soft	ware
					a rune i	Lisung					for Dot	arminad]					
		Lamp	011	c on a				uy Suser	puom	y Rai	les Del	ermined	by the	Ana	13 212		
able Cl. S	itatict	ics Gene	rated	for St	emtococc	us men	moniae	w the An	lucis Sof	tware							
non cars		CRO			RO	- pile	T	1	1		PEN	PEN	-	PEN	1	-	1
Organism	n	Mening		Nonm	eningitis	CLI	ERY	LVX	MEM	1.000	ningitis	Nonmenin	-	oral	S	TZ	VAT
spn	35	77%			1% S	77% S	60% S	100% S			4% S	100%		54% S		% S	100%
	-	17%	I		96 I	-					NA			29% I	-	-	-
						24	-			-	-			17%			
		6% F		0	% R					4	6% R			R			
Abbreviation	s: 96L 1	ercent inte	media	te: %R. 1	percent resis	tant; %S.	percent sus	ceptible; CI	I, clindamy	cin: CR	tO, ceftria	tone; ERY, er	vinromvo	in: LV	X, levo	floxaci	n.:
												vancomycin					
Table C2	Time	Tining	e	Tealate	This	Owner	Ce	d in the T		Mart	mationte	had a single		- Alata			tinte
						Organi	sm Store	a in the L	atabase.	MOST	patients	nao a single	1solate	e, anno	ough t	wo pa	atients,
highlighted	i m gr	ay, had to	VO 150	olates es	ach.												
Institution.	-		Starling		080	CRO						1973	PEN	PEN			
runter Lon	den run	the tests	bpe	Organien	CRO Maring		cu cu	any a	N LIN		MEN MEN	PEN Mering	to Maringha	One	5.07	\$17	VAN
4815018 ed			Ege Blood	507	0.016 5		NO 128 B	\$0.060 I	50.0	5	0.016 5	0.016 5	5		107	5	0.5
2201101	T (7/	102 1/22/2804 038 1/32/2804	Sever-	100	0.016		10 125 S	20.002	20.5	5	0.5 1	2 R	5	8	2	-	0.25
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-4201250 acr	W 13	174 2/5/2004 Att 2/7/2004	COF	1001 1001	3 1		0.0 1 20.128 0	30 (R)	a08	1 1	0.010 0	2 R 0.016 S	6	8 5	10.20	5	0.0
2001100 1	3a 34	302 2/21/2304 302 3/19/2004	Bood Drug	NOT .	3 1021		#3 128 B	10.042			Conte 6	0001 5		- 10	10.78	8	0.26
	10	873 2/23/2004 461 3/12/2004	Ersa Epubro	- ADA	2 8	1	40.126 B	40.080	\$2.5	8	0.002 6	0.126 8	0.1	1	40.28	8	0.26
7540880	1 72	3142004	BAL	inger .	1016 8	5	\$0.125 8	\$0.067	\$2.5	6	0.016	0.018 5	0.8		\$0.26	6	0.28
	24	CR 4/60004	Epiter Boat	107	05 8		0.5		510		0.8 1	2 8	5		2	-	9.28
		24 4/19/204	Sevilian Book	807	0.016 6		20128 S	\$0.062 1 \$0.062	53.8	-5-	0.016 5	0.015 5	. 5		27	5	0.8
2021171 B							12 12	18 1	30.0		0.125 5	1	5	1	2		0.25
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N21171 5 900443: # 814600 m 435226 bcr 6061176 p 200060: m 3641271 6 460100 m 3641271 6 66204 m	ent 30 e1 32 sul 411 e 43 e 43 e 43 e 45	510 5/27/2004 814 5/29/2004 815 6/8/2004 886 6/29/2004 811 7/11/2004 862 7/11/2004	Sputum Eye BAL Dood Dood COF	555555	036 5 05 5 0128 6 05 8 0.062 6	5	0.25 5 20.125 5 20.125 5 20.125 5	200802 1 0.128 1 2 2	1 205 205 205	5 1	0.125 6 0.81 0 0.128 6	1 R 0125 R 1 R 25 R	5 5 5		10.28 10.28 10.28	5 5 5	0.25 0.25 0.25 0.5
2021171 5 2034/00 10 6145000 10 4030206 000 00011/6 p 2000000 10 2041271 6 4401100 6 542004 10 002000 10 002000 10 002000 10 002000 10	ent 30 1 222 237 237 237 237 237 237 237	510 3/2172304 304 3/2322304 315 6/8/2304 386 6/23/2304 386 6/23/2304 482 3715/2304 482 3715/2304 481 3715/2304 481 3215/2304	Eputam Eye BAL Dood Dood	555555	036 5 0.128 5 0.128 5 0.05 5 0.042 5 0.016 8 0.016 8		0.25 5 20.025 5 20.026 5 20.026 5 20.026 5 20.026 5 20.026 5 20.026 5	+8 1 40.962 8.128 2 40.962 1 50.962 1	1 205 205 205 205 205 205	5 1	0.125 6 0.81 0 0.8 1 0.128 6 0.016 6 0.016 8	1 R 0125 R 1 R 0316 S 0316 S	0		\$0.28 \$0.28 \$0.28 \$0.28		0.25 0.25 0.5 6.5 \$0.128 0.25
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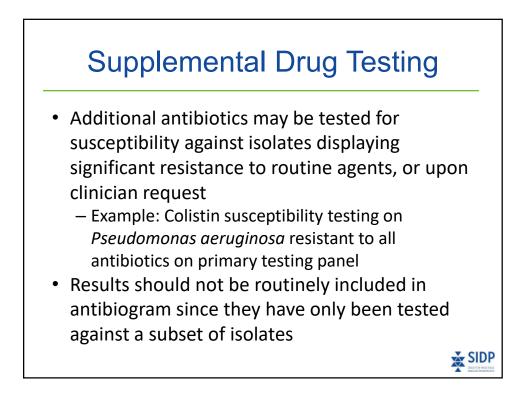


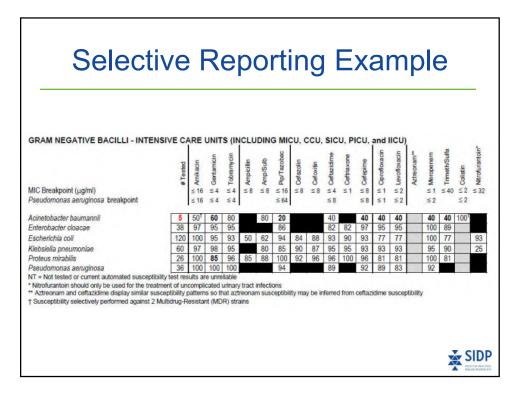




A	ntil 1 Januar			Memor 2012 Cu	rial Medi	al Center Antimicr			-				
Grain-Negative Organisms	No. Strain:	Amikacin	Ampicillin	Cefazolin	Cefotaxime	Ceftazidime	Ciprofloxacia	Nitrofurantoin [†]	Gentamicin	Meropenem	Piperaeillin- tazobactam	Trimethoprim- sulfamethoxazole	Tobramycin
Acinetobacter baumannii	32	80	R	R	34	52	51	_1	60	80	46	58	59
Citrobacter freundii	49	100	R	R	72	67	90	78	100	99	67	67	100
Enterobacter aerogenes	31	100	R	R	68	69	92	85	91	99	74	95	91
Enterobacter cloacae	76	99	R	R	61	62	92	\$1	90	99	77	84	90
Escherichia coli	1433	99	36	68	96	94	72	98	91	99	51	65	92
Klebsiella pneumoniae	543	99	R	72	91	92	84	74	94	95	86	81	94
Morganella morganii	44	100	R	R	85	\$1	99	R	100	99	64	75	100
Proteus mirabilis	88	100	87	80	99	99	89	R	90	100	70	73	93
Pseudomonas aeruginosa	397	97	R	R	R	76	75	R	80	80	85	R	83
Salmonella spp.	32	-	88	-	97	97	90	-	-	100	91	86	-
Serratia marcescens	50	100	R	R	82	94	95	R	94	99	94	91	89
Shigella spp.	33	-	64	-	100	100	95	-	-	100	84	69	-
Stenotrophomonas maltophilia	72	R	R	R	R	63	6	R	R	R	-	98	R

A	nti			Me aber 2012	morial M Cumula	ledical Ce	enter microbial S				-		
				-	lactams			A	ninoglyco	sides	FQs	0	ther
Gram-Negative Organisms	No. Strains	Ampicilia	Cefazolin	Cefota since	Ceftazidime	Meropenent	Pipera cillia- tazəbactam	Amikacin	Genta micin	Tobranycin	Ciprofloxada	Nitro farantoin [†]	Trimethoprim- sulfamethoxazole
Acinetobacter baumannii	32	R	R	34	52	80	46	80	60	59	51	_1	58
Citrobacter freundii	49	R	R	72	67	99	67	100	100	100	90	78	67
Enterobacter aerogenes	31	R	R	68	69	99	74	100	91	91	92	85	95
Enterobacter cloacae	76	R	R	61	62	99	77	99	90	90	92	81	84
Escherichia coli	1433	36	68	96	94	99	51	99	91	92	72	98	65
Elebsiella pneumoniae	543	R	72	91	92	99	\$6	99	94	94	84	74	81
Morganella morganii	44	R	R	85	81	99	64	100	100	100	99	R	75
Proteus mirabilis	\$8	87	80	99	99	100	70	100	90	93	89	R	73
Pseudomonas aeruginosa	397	R	R	R	76	80	85	97	80	83	75	R	R
Salmonella spp.	32	88	-	97	97	100	91	-	-	-	90	-	86
Serratia marcescens	50	R	R	82	94	99	94	100	94	89	95	R	91
Shigella spp.	33	64	-	100	100	100	84	-	-	-	95	-	69
Stenotrophomonas maltophilia The percent susceptible for each orga	72	R	R	R	63	R	R	R	R	R	6	R	98

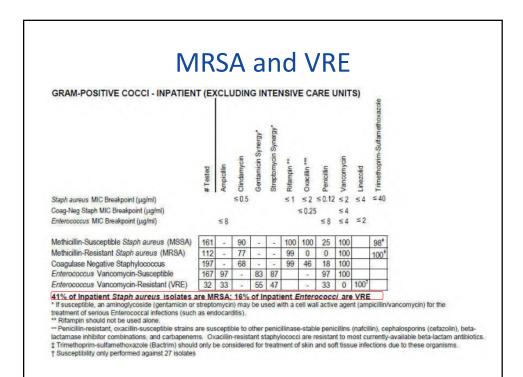




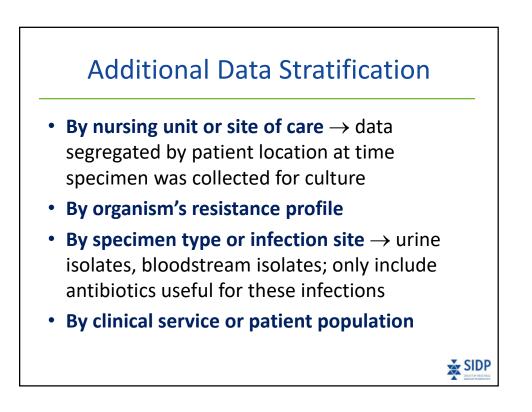
Suggested Supplemental Analyses by Organism

Organism	Suggested Analyses
Streptococcus pneumoniae	Penicillin : calculate and list %S using meningitis, non- meningitis, and oral penicillin breakpoints Ceftriaxone, cefotaxime, cefepime: calculate and list %S using meningitis and non-meningitis breakpoints
Viridans Streptococcus	Penicillin: for isolates from sterile sites, calculate and list separately %S and %I
Staphylococcus aureus	Consider including separate analysis for MSSA and MRSA; indicate % of <i>S. aureus</i> isolates that are MRSA
Enterococcus spp.	Consider separating analysis for <i>E. faecalis</i> and <i>E. faecium;</i> indicate % of Enterococci that are VRE
Klebsiella pneumoniae	Consider reporting data by resistance mechanism (ESBL- or KPC-producing) and/or hospital unit to illustrate potentially useful antibiotics for empiric therapy

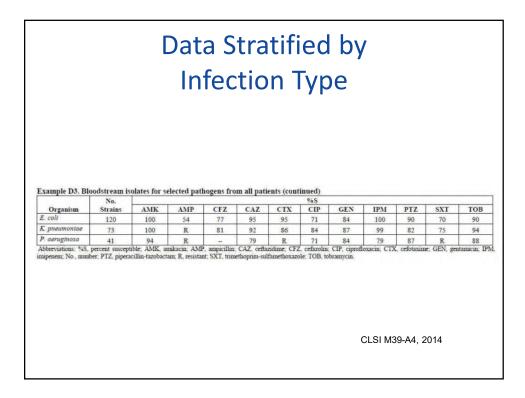
						0/	S				
Organism	No. Strains	AMX	СТХ	CRO	CLI	ERY	LVX	PEN (IV)	PEN (oral)	SXT	VAN
S. pneumoniae	110	94	2		81	64	99		64	69	100
Meningitis	110	_	85	84	-	_	_	64	_	_	_
Nonmeningitis	110		95	96	_	-	_	84	-	-	-
Meningitis Nonmeningitis Breakpoints diff meningitis applie nonmeningitis ap	110 er for cefota es to suscepti pplies to susc , percent su	ibility of p eptibility of sceptible;	95 triaxone, meumoco of pneumo AMX, at	96 and penic cci for pat cocci for p moxicillin	ients wh patients v ; CLI, c	o have me vho do no lindamyci	eningitis; t have men n; CRO,	84 efotaxim cefotaxin ningitis. ceftriaxo	ne, ceftria	cefotaxi	t pe

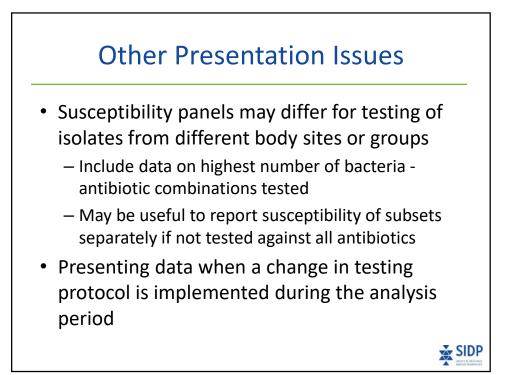


		Da	ta	Ar	nal	VS	is				
Example:						/ - /					
	No.				_	%					_
Organism	Strains	AMK	AMP	CFZ	CRO	CIP	GEN	IPM	PTZ	TET	SX
K. pneumoniae (All)	1163	63	R	44	48	46	74	64	53	84	46
K. pneumoniae (Extended-spectrum cephalosporin resistant)	233	30	R	0	0	6	48	100	0	84	3
K. pneumoniae (Carbapenem- resistant)	361	5	R	0	0	0	28	0	0	82	0
K. pneumoniae (Not resistant to extended-spectrum cephalosporins or carbapenems)	569	100	R	84	99	94	96	100	88	87	95



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								1.00		
Appendix D. Ex	camples of Su	pplemental	Analyse	es – Stra	tifying Cu	imulative A	ntibiogra	m Data by	y Various	Param
Example D1. Stap	hylococcus aure	us by patient	location							
	-	No.			1		%5			
Organism S. aureus	Location	Strains	CLI	DAP	ERY	OXA	PEN	LNZ	SXT	VAN
5. unrens	OP	781	86	99	54	75	4	99	96	100
-	IP	461	66	99	42	53	5	99	95	100
	TOTT	325	70	00	44	5.4	5	00		
Abbreviations: %S, per number; OP, outpatient							5 care unit; IP,	99 inpatient (non	96 -ICU); LNZ, 1	100 linezolid; 1
number; OP, outpatient	cent susceptible; C ; OXA, oxacillin; PI	LI, clindamycin; N, penicillin; SX	DAP, daptor T, trimethop	mycin; ERY rim-sulfame	, erythromycin thoxazole; VA	i; ICU, intensive N, vancomycin.	care unit; IP,			
number; OP, outpatient Example D2. Urin	cent susceptible; C ; OXA, oxacillin; PI	LI, clindamycin; N, penicillin; SX	DAP, daptor T, trimethop	mycin; ERY rim-sulfame	, erythromycin thoxazole; VA	i; ICU, intensive N, vancomycin.	care unit; IP,			linezolid; 1
number; OP, outpatient Example D2. Urin Organism	rcent susceptible; C ; OXA, oxacillin; Pl e isolates from i	LI, clindamycin; N, penicillin; SX inpatients and No.	DAP, daptor T, trimethop I from out	mycin; ERY rim-sulfame tpatients f	, erythromycin thoxazole; VAl or selected	i; ICU, intensive N, vancomycin. uropathogen	care unit; IP,	inpatient (non	ICU); LNZ,	
number; OP, outpatient Example D2. Urin Organism	rcent susceptible; C ; OXA, oxacillin; Pl e isolates from Location	LI, clindamycin; EN, penicillin; SX inpatients and No. Strain	DAP, daptor T, trimethop I from out	mycin; ERY rim-sulfame tpatients f	, erythromycin thoxazole; VAJ or selected CFZ	r, ICU, intensive N, vancomycin uropathogen CTX	care unit; IP,	inpatient (non NIT	ICU); LNZ, I	inezolid; 1 SXI
number, OP, outpatient Example D2. Urin Organism Escherichta coli Kiebsiella	rcent susceptible; C ; OXA, oxacillin; Pl e isolates from Location OP	LI, clindamycin; N, penicillin; SX inpatients and No. Strain 1205	DAP, daptor T, trimethop I from out	mycin; ERY rim-sulfame tpatients f	erythromycin thoxazole; VAl or selected CFZ 91	r, ICU, intensive N, vancomycin uropathogen CTX 98	care unit; IP, %S CIP 84	NIT 98	GEN 90	sXI 72
number; OP, outpatient Example D2. Urin Organism Escherichia coli	rcent susceptible; C ; OXA, oxacillin; Pf e isolates from i Location OP IP	LI, clindamycin; EN, penicillin; SX inpatients and No. Strain 1205 436	DAP, daptor T, trimethop I from out	mycin; ERY rim-sulfame tpatients f <u>AMP</u> 56 39	erythromycin thoxazole; VAl or selected CFZ 91 83	r, ICU, intensive N, vancomycin uropathogen CTX 98 93	care unit; IP, %S CIP 84 62	NIT 98 97	-ICU); LNZ, 1 GEN 90 78	sX1 72 60
number, OP, outpatient Example D2. Urin Organism Escherichta colt Klebstella pneumoniae	reent susceptible; C ; OXA, oxacillin; PI e isolates from i Location OP IP OP	LI, clindamycin; EN, penicillin; SX inpatients and No. Strain 1205 436 517	DAP, daptor T, trimethop I from out s A	mycin: ERY wim-sulfame tpatients f MP 56 39 R	erythromycin thoxazole; VAl or selected CFZ 91 83 95	r, ICU, intensive N, vancomycin uropathogen CTX 98 93 97	care unit; IP, %S CIP 84 62 95	NIT 98 97 50	ICU); LNZ, 1 GEN 90 78 97	SX1 72 60 86
number, OP, outpatient Example D2. Urin Organism Escherichta coli Kiebsiella	reent susceptible; C ; OXA, oxacillin; PI e isolates from i Location OP IP OP IP	LI, clindamycin; EN, penicillin; SX inpatients and No. Strain 1205 436 517 138	DAP, daptor T, trimethop I from out s A	mycin: ERY rrim-sulfame tpatients f MP 56 39 R R R	erythromycin thoxazole; VAI or selected CFZ 91 83 95 77	r, ICU, intensive N, vancomycin. uropathogen CTX 98 93 97 85	care unit; IP, %S CIP 84 62 95 91	NIT 98 97 50 52	GEN 90 78 97 88	SX1 72 60 86 70
number: OP, outpatient Example D2. Urin Organism Escherichia coli Klebsiella pneumoniae Proteus mirabilis Pseudomonas	reent ausceptible; C ; OXA, oxacillin; Pl e isolates from i Location OP IP OP IP OP	LI, clindamycin; N, penicillin; SX inpatients and No. Strain 1205 436 517 138 271	DAP, daptor T, trimethop I from out s A	mycin: ERY rim-sulfame tpatients f AMP 56 39 R R 83	erythromycin thoxazole; VAl or selected CFZ 91 83 95 77 95	CTX 98 93 97 85 100	care unit; IP, %S CIP 84 62 95 91 88	NIT 98 97 50 52 R	GEN 90 78 97 88 96	SX1 72 60 86 70 82
number, OP, outpatient Example D2. Urin Organism Escherichta colt Klebstella pneumoniae	reent susceptible, C ; OXA, oxacillin; PI e isolates from i Location OP IP OP IP OP IP OP IP	LI clindamycin; N, penicillin; SX inpatients and No. Strain 1205 436 517 138 271 32	DAP, daptor T, trimethop I from out s A	mycin; ERY prim-sulfame tpatients f AMP 56 39 R R R 83 74	erythromycin thoxazole; VAJ or selected 91 83 95 77 95 94	cTX 98 97 85 100 94	care unit; IP, %6S CIP 84 62 95 91 88 81	NIT 98 97 50 52 R R R	GEN 90 78 97 88 96 88	SX1 72 60 86 70 82 75





Handling Variations in Drug Panels

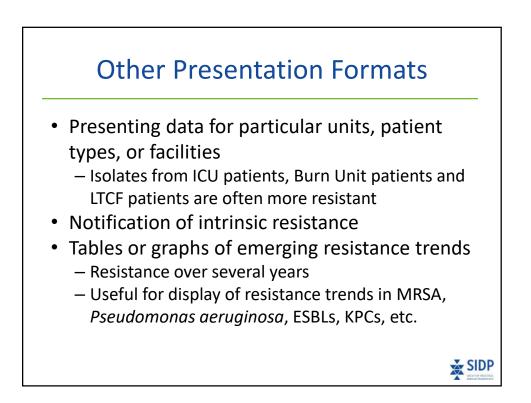
	No.					%S				
Organism	Strains	AMP	CFZ	CRO	CIP	GEN	IPM	LVX*	PTZ	SXT
E. coli (All)	3636	61	92	99	92	93	100	80	96	76
E. coli (Nonurine)	292	44	82	96	80	87	100	80	93	62
E. coli (Urine)	3417	63	93	99	93	94	100	NT	97	77

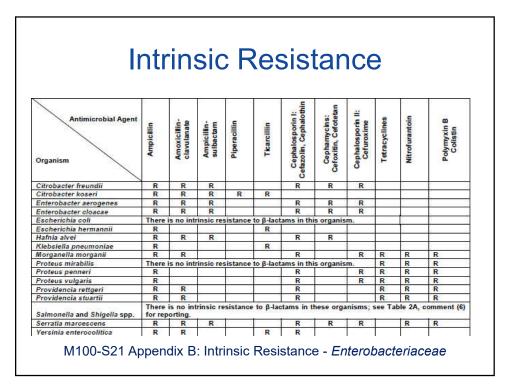
Tested on nonurine isolates only (n=292). Therefore, results should not be compared to those of other antimicrobial agents listed, all of which were tested against both urine and nonurine isolates.

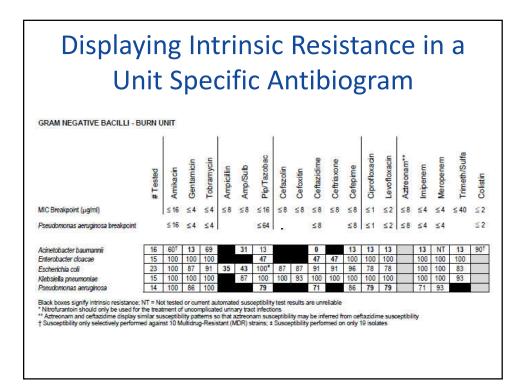
Abbreviations: %S, percent susceptible; AMP, ampicillin; CFZ, cefazolin; CIP, ciprofloxacin; CRO, ceftriaxone; GEN, gentamicin; IPM, imipenem; LVX, levofloxacin; No., number; PTZ, piperacillin-tazobactam; SXT, trimethoprim-sulfamethoxazole.

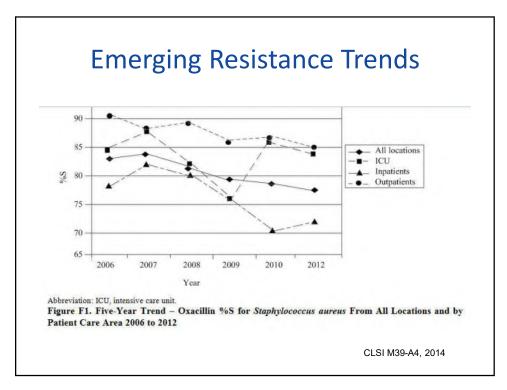
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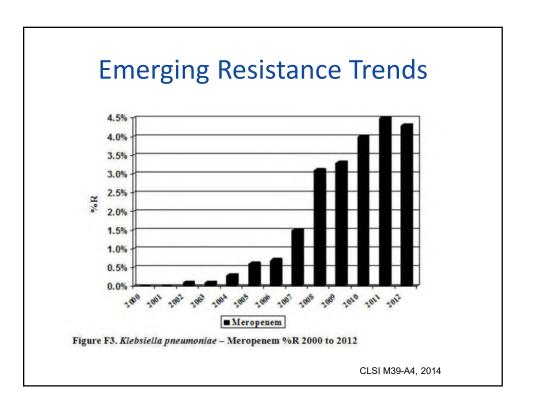
						9/05	S				
Organism	No. Strains	AMP	CFZ	CPM*	CRO	CTZ	CIP	GEN	IPM	PTZ	SXT
E. cloacae	44	R	R	86	75	76	93	95	98	84	90
E. coli	378	49	90	96	95	95	77	91	100	86	74
K. pneumoniae	97	R	94	96	94	93	95	100	98	95	86
P. aeruginosa	73	R	R	86	R	85	79	91	93	92	R
Added to test pane not tested on all i abbreviations: %S, eftriaxone; CTZ, cef rimethoprim-sulfam	solates. percent su tizoxime; Gl	sceptible;	AMP, a	ampicillin;	CFZ, co	efazolin;	CIP, cij	profloxaci	n; CPM,	cefepin	ne; CR

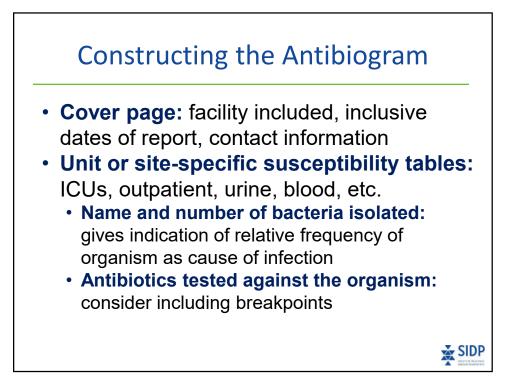


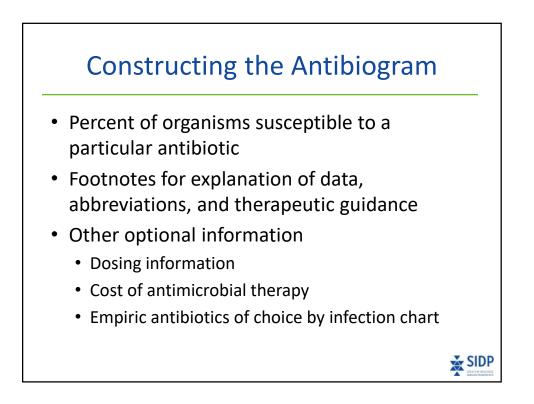




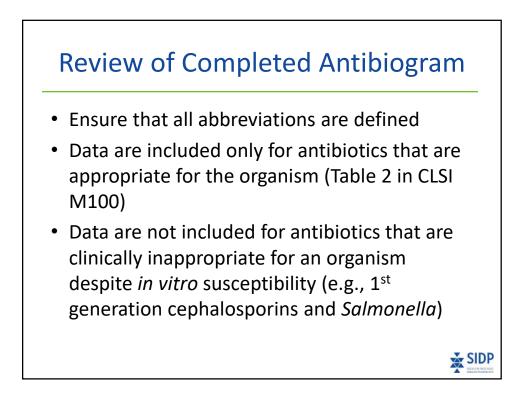


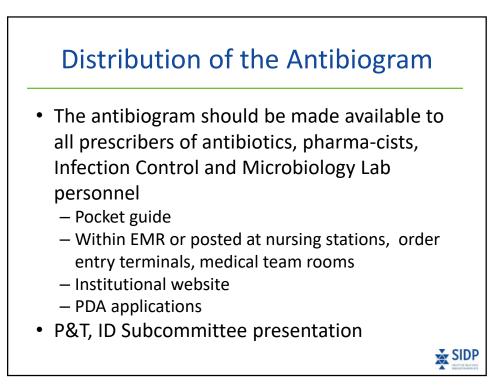


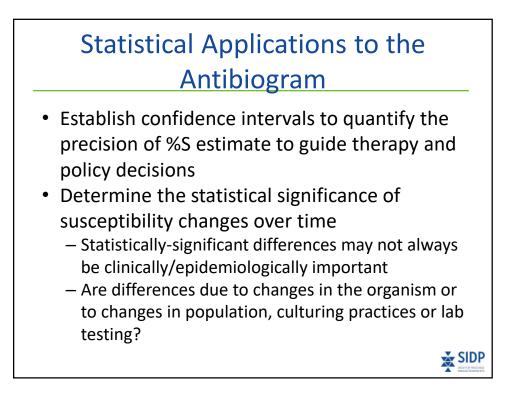




	Antibiotics of Choice Eskenazi Health Iric Antibiotic Regimens by Infection for Adult Patients							
Recommended Empi	iric Antibiotic Regimens by Infection	for Adult Patients						
Infection and Suspected Organisms	Recommended Regimen	Alternative Regimen						
Community Acquired Pneumonia Streptococcus pneumoniae, Haemophilus Influenzae, Legionelia pneumophila, etc	Ceftriaxone + Azithromycin	Levofloxacin 750mg Daily (normal renal function)						
Pseudomonas aeruginosa - consider in patients with structural king disease, recent hospitalization, recent artibiotic therapy, or need for ICU admission	Piperacillin-Tazobactam or Cefepime + Levofloxacin 750mg Daily	Piperacilin-Tazobactam, Cefepime or Meropenem + Tobramydin + Azthromycin or Levofloxacin 750mg Daily						
HAP/VAP* = Early onset (< 5 days), no risk for MDR pathogens, any severity Streptococcus pneumoniae, Haemophilus Influenzae, MSSA, antibioto sensitive enterio Gram-negative bacili	Ceftriaxone or Levofloxacin	Cefepime						
HAP/VAP/HCAP* = Late onset (2 5 days) or risk factors for MDR pathogens**, any severity Same as early onset PLUS MDR pathogens such as Revidomonas aeruginosa, Websielta pneumoniae, MRSA	Piperacillin/tazobactam (preferred in ICU patients) or Cefepime +/- Tobramycin or Ciprofloxacin ¹ + Vancomycin (if MRSA suspected)	Meropenem or Cefepime + Tobramycin or Ciprofloxacin ¹ + Vancomycin (if MRSA suspected)						
Urinary Tract Infections - Community Escherichia coli, Proteus mirabilis	Nitrofurantoin, Ciprofloxacin or Levofloxacin	Trimethoprim-Sulfamethoxazole or Cephalexin						
Urtnary Tract Infections - Nosocomial Escherichia coli, Enterobacter spp, Serratia marcescens, Pseudomonas aeruginosa, etc	Ceftriaxone or Cefepime	Aztreonam						
Acute Bacterial Meningitis - Aduits Streptococcus pneumoniae, Nelsseria meningitidis	Ceftriaxone + Vancomycin (+ Ampicillin if <i>Listeria</i> is suspected)	Vancomycin + Meropenem						
Cellulitis - without open skin wound Staphylococcus aureus (MSSA), p-hemolytic streptococcus (S. pyogenes, etc)	Nafcillin or Cefazolin	Clindamycin or Vancomycin						
Cellulitie - with abscess formation or pustules Same as above including possible CA-MRSA	Vancomycin	Trimethoprim-Sulfamethoxazole or Clindamycin						
Diabetic Foot Infections§ - ulcer with ≥ 2 features	of inflammation (erythema, warmth, pain, purulence, in	duration)						
Description	Likely Causative Organisms	Empiric Therapy						
Mild ⁴ < Celulits extends < 2 cm around ulcer, infection limited to skin/superficial tosue: patient without SIRS	p-hemolytic Streptococcus, S. aureus	PO cephalexin, diclokacilin, amoxiciliniclavuanate; use cindamycin or TMP/SMX if MRSA suspected						
Moderate ¹ - Celuits extending > 2 cm or involving structures deeper than skin/SC tissue (e.g., abocess, septic artivits, osteomyetits, fascitis); patient without SIRS	B-hemolytic Streptococcus, S. aureus Consider Enterobacteriaceae if on ambiotics within past 30 days Consider obligate anaerobes if necrotic wound that has not been debrided	Cefazolin (or vancomycin if patient has MRSA risk factors listed below) Consider ceftriaxone alone if Enterobacteriaceae suspected Add PO metroniciazole if anaerobes suspected						
Severe = Local infection with signs of SIRS manifested by $\times 2$ of the bilowing temp \times 35°C or <35°C, heart rate \times 50 beats/min, respiratory rate \times 20 breats/min, WBC \times 12,000 or <4,000 cells/uL or \times 10% immature (band) forms	D-hemolytic Streptococcus, S. aureus (MSSA, MRBA), Enterobacteriaceae, P. aeruginosa	Vancomycin PLUS Piperacillin/ fazobactam; meropenem; cefazotime/cefepime and PO metronidazole; OR levofloxichic/profloxacin with PO metronidazole						







						<u> </u>			fic									
Table H	I1. 9	95%	CIs f	or S	electe	ed Sar	nple S		tible or I	Resistan	t Rate							
Sample	10	1	20%		30%	6	40%		50%		609	6	70%		80%		90%	6
10	0	43	5	52	10	61	17	69	24	76	31	83	39	90	48	95	57	10
20	2	31	7	42	14	52	22	61	30	70	39	78	48	86	58	93	69	4
30	3	26	9	38	17	48	25	58	33	67	42	75	52	83	62	91	74	19
40	3	24	10	35	18	46	26	55	35	65	45	74	54	82	65	90	76	9
50	4	22	11	33	19	44	28	54	37	63	46	72	56	81	67	89	78	9
60	4	20	12	32	20	43	29	53	38	62	47	71	57	80	68	88	80	5
70	5	20	12	31	20	42	29	52	39	61	48	71	58	80	69	88	80	9
80	5	19	13	30	21	41	30	51	39	61	49	70	59	79	70	87	81	9
90	5	18	13	30	21	40	30	50	40	60	50	70	60	79	70	87	82	9
100	5	18	13	29	22	40	31	50	40	60	50	69	60	78	71	87	82	9
200	7	15	15	26	24	37	33	47	43	57	53	67	63	76	74	85	85	9
400	7	13	16	24	26	35	35	45	45	55	55	65	65	74	76	84	87	9
600	8	13	17	23	26	34	36	44	46	54	56	64	66	74	77	83	87	-
1000	8	12	18	23	27	33 -Coull i	37	43	47	53	57	63	67	73	77	82	88	9

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19666		Ly C	liane	ses c			C
Deveent	Cusaantibla	Desmoss					
. Percent	susceptible	Decreas	es				
			Sample S	Size			
10	20	50		2	100	600	1000
10	20	10710	70,517	222		57/257	96
	65						92
25	0.00	1.5					87
20	5.15	60	66	71	States 1	1352413	76
10	30	48	55	60	63	64	6
0	20	38	45	49	52	54	55
0	15	28	35	39	42	44	44
NS	5	20	25	30	33	34	35
NS	0	12	17	20	23	24	25
NS	NS	4	9	12	14	15	16
TIND				75	5		5
	10 30 20 10 0 0 NS NS	10 20 - - - 65 30 55 20 45 10 30 0 20 0 15 NS 5 NS 0	10 20 50 - - 84 - 65 78 30 55 72 20 45 60 10 30 48 0 20 38 0 15 28 NS 5 20 NS 0 12	10 20 50 100 - - 84 90 - 65 78 85 30 55 72 78 20 45 60 66 10 30 48 55 0 20 38 45 0 15 28 35 NS 5 20 25 NS 0 12 17	Sample Size 10 20 50 100 200 - - - 84 90 93 - - 65 78 85 89 30 55 72 78 82 20 45 60 66 71 10 30 48 55 60 0 20 38 45 49 0 15 28 35 39 NS 5 20 25 30 NS 0 12 17 20	Sample Size 10 20 50 100 200 400 - - 84 90 93 95 - 65 78 85 89 91 30 55 72 78 82 85 20 45 60 66 71 73 10 30 48 55 60 63 0 20 38 45 49 52 0 15 28 35 39 42 NS 5 20 25 30 33 NS 0 12 17 20 23	Sample Size 10 20 50 100 200 400 600 - - - 84 90 93 95 95 - - 65 78 85 89 91 92 30 55 72 78 82 85 86 20 45 60 66 71 73 75 10 30 48 55 60 63 64 0 20 38 45 49 52 54 0 15 28 35 39 42 44 NS 5 20 25 30 33 34 NS 0 12 17 20 23 24

Reporting Strategies to Guide Appropriate Antibiotic Use

Selective reporting – reporting certain antimicrobial susceptibility test results from an individual patient's isolate based on defined criteria such as organism identification, site of infection, and overall susceptibility profile

Selective Reporting Examples for *Streptococcus pneumoniae*

Antibiotic	CSF	Blood and Sterile Site	Respiratory
Penicillin G	х	Х*	Х*
Ceftriaxone	x	X*	X*
Vancomycin	х	х	
Erythromycin			х
Levofloxacin/ Moxifloxacin		х	x
Doxycycline			х
* Report suscep	otibility using mening	gitis and non-menir	ngitis breakpoints

SIDP

SIDP

Selec		eportin nteroco	g Exam Dccus	ples
Antibiotic	Urine VSE	Blood VSE	Urine VRE	Blood VRE
Ampicillin	Х	Х	x	x
Vancomycin	Х	Х	х	x
Gent-syn		Х		x
Strepto-syn		Х		x
Nitrofurantoin	Х		х	
Linezolid			х	x
Quinu/dalfo				x
Daptomycin				x

Selective Reporting Examples for Gram-Negative Bacteria

Antibiotic	Enterobacteriaceae	Pseudomonas aeruginosa
Ampicillin	Х	
Piperacillin	х	х
Cefazolin	Х	
Ceftriaxone	Х	
Ceftaz/Cefepime		х
Meropenem	Х	Х
Aminoglycosides	Х	х
Cipro/Levofloxacin	х	х
TMP-SMX	Х	
		× S

	Enterobacteriaceae				
Antibiotic	Blood	Urine			
Ampicillin	х	Х			
Piperacillin	X				
Cefazolin	Х	Х			
Ceftriaxone	X	Х			
Ceftaz/Cefepime					
Meropenem	Х				
Aminoglycosides	Х	Х			
Cipro/Levofloxacin	Х	x			
TMP-SMX	Х	Х			

		-				
Specimen:	Urine	Urine				
Culture Result:	> 105	> 10 ⁵ Escherichia coli				
Susceptibilities:						
Drug	MIC (µg/ml)	Interpretation				
Ampicillin	> 32	Resistant				
Pip/tazo	8	Susceptible				
Cefazolin	1	Susceptible				
Ceftriaxone	1	Susceptible				
Cefepime	1	Susceptible				
Meropenem	0.5	Susceptible				
Ciprofloxacin	0.25	Susceptible				
Tobramycin	1	Susceptible				
Amikacin	2	Susceptible				
Bactrim	≤ 10	Susceptible	T CI			

Specimen:	Urine	
Culture Result: Susceptibilities:	> 10 ⁵ Escheri	chia coli
Drug	MIC (µg/ml)	Interpretation
Ampicillin	> 32	Resistant
Cefazolin	1	Susceptible
Ciprofloxacin	0.25	Susceptible
Tobramycin	1	Susceptible
Bactrim	≤ 10	Susceptible
Nitrofurantoin	16	Susceptible

