AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE





TRIM – D17-44651

OrgTRx Quick Reference Guide – Displaying % non-susceptible

This document takes you through the steps to display the percent non-susceptible (CLSI).

For EUCAST, "I" refers to "susceptible, increased exposure". Steps similar to those outlined in this guide can be used to display % susceptible (S and I) for EUCAST users.

1. Open a view you want to change (this example uses Antibiogram Blood)

昭辺公の 6公下	3 ② ☆ ♀ 雨 〒 ☆ つ ペ と ♀ ☑ ••• ☆ 坐 ♥ ? CLSI Antibiogram Blood - Selected List															
Workboard Collaboration	De	esign	View	Dim	ensior	Viev n Me	v Tools mbers		Jals	Forma	at					
Period Hierarchy 2021 Specimen Categ	ory Hierarch	y Bloo	od Culture	Spec	imen Year I	solate	First Isolat	e F	acility Ward	Hierard	chy An	timicrol	bial Hierarcl	hy	Laboratory	Hierarchy
Antibiogram Blood (2021,First Isolate,Blood Culture)																
	Antimicrobial 🍸 Measures 🕾															
Oranian -	Benzylper	nicillin	Ampici	llin	Amoxic	illin	Cefazo	lin	Cefale	cin	Flucloxa	cillin	Clindam	ycin	cin Erythromycin	
Organism	Sensitivity Pct	Count	Sensitivity Pct	Count	Sensitivity Pct	Count	Sensitivity Pct	Count	Sensitivity Pct	Count	Sensitivity Pct	Count	Sensitivity Pct	Count	Sensitivity Pct	Count Se
Escherichia coli	0.00	1	52.08	7,676	52.14	2,877	72.58	6,476	80.11	1,056			100.00	1		
Coagulase negative Staphylococcus	10.09	6,621	12.63	1,188	5.26	2,605	39.45	3,412	40.18	3,014	39.67	6,930	65.50	5,693	48.21	7,210
Staphylococcus aureus	18.63	4,622	21.79	546	16.74	956	84.81	1,744	85.78	2,222	85.33	4,691	86.29	4,317	84.59	4,691
Klebsiella pneumoniae			1.12	1,604	0.00	478	83.84	1,324	89.94	159						

2. Click on the dimension selector.



3. Select Sensitivity Status Code and drag into the slicers box and click OK

Dimensions Selector		×
•		
Antimicrobial Analysis	☑ Slicers	III Columns
dimensions	Period Hierarchy (2021) Facility Ward Hierarchy Specimen Category Hierarchy (Blood Culture) Antimicrobial Hierarchy Laboratory Hierarchy Specimen Year Isolate (First Isolate) Facility Year Isolate Sensitivity Status Code	Antimicrobial Measures
Measures		≡ Rows
Order Number Organism Patient Patient Category Period Sensitivity Status Sensitivity Status Sensitivity Status Code		Organism
 Specimen Specimen Category 	• Preview	🗌 Auto refresh 🛛 🏹 😏

4. Right click on Measures

Workboard	Col	laboration	Analyse	Design	View					
Period Hierarchy	2021	Specimen C	ategory Hierarchy	Blood Culture	Specime					
Antibiogram Blood (2021,First Isolate,Blood Culture)										
₽ I			Antimicrobial	Measures						

A							
Antimicrobia	I Me	写 Replac	e Meas	ures with 🕨	[=	Sets	1
Benzylper	nicillin	🚹 Add be	fore	•			- ef
Sensitivity Pct	Count	🟓 Add aff	➡ Add after			Antimicrobial	iv t
0.00	1	e Remov	e Meas	ures		Organism	30
10.09	6,621				۲,	Period Hierarchy	10
18.63	4,622	🔝 Select	membe	rs	Ľ,	Facility Ward Hierarchy	35
		1.12	1,604	0.0	t,	Specimen Category Hierarchy	19
		0.00	134	0.0		Antimicrobial Hierarchy	0
76.42	1,200	87.15	358	73.9		/ Internet of the second second	30
98.10	315	99.88	822	100.0	4	Laboratory Hierarchy	1
100.00	810	100.00	390	100.0	٢,	Specimen Year Isolate)0
91.61	584	96.58	117	90.2	Ľ,	Facility Year Isolate	
77.75	818	87.16	257	73.1	Ľ,	Sensitivity Status Code	31
							ш.

5. Select Replace Measures with then select Sensitivity Status Code

6. The display has now changed to show SI & R for each antimicrobial.

Workboard	Col	laboration	An	alyse	e	Desi	gn	`	View		Dim	ension	n Members		nbers
Period Hierarchy	2021	Specimen Cat	tegory	Hiera	archy	Blood	Cult	ure	Specin	nen	Year Is	olate	First	Isolate	Me
Antibiogram Bloc	ntibiogram Blood (Count,2021,First Isolate,Blood Culture)														
	Antimicrobial 👕 Sensitivity Status Code														
Organism				Benzylpenicillin A					icillin Amoxicillin			illin	Cefazolin		
					R	S	Т	R	S	Т	R	S	Т	R	S
Escherichia coli					1		7	3,671	3,998		1,377	1,500	344	1,432	4,700

7. Now click on the View tab as below

Workboard	Col	laboration	Analyse	Design	View	Dimension
Period Hierarchy	2021	Specimen Ca	ategory Hierarchy	Blood Culture	Specime	en Year Isolate

8. Select Formula, then select the + sign in the Formulas box that appears



9. Name the formula as **Total Tested** and select **Sum** as the *Formula type* from the dropdown menu. Then drag S, I and R into the *Members (Sensitivity Status Code)* box and select *Apply*.

Formulas	:	Į ×
Edit Formula	Î	\leftarrow
Name:	Format:	
Total Tested	#,##0	*
Formula type:	Precedenc	
Members (Sensitivity Status Code):	+	
O S O I O B		× ×
Sum(S,I,)		
	Ар	ply

10. A new column named **Total Tested** will now appear to the right of the I, R and S columns for each antimicrobial.

Antibiogram Blood (Count,2021,First Isolate,Blood Culture)										
Antimicrobial 🍸 Sensitivity Status Code										
_			Benzylpenicillin			Ampicillin				
Organism	-	I	R	s	∱ Total Tested	I	R	s	∱ Total Tested	
Escherichia coli			1		1	7	3,671	3,998	7,676	

11. If you want to create a % non-susceptible CLSI, first create a new formula called Total NS CLSI by adding I and R to the *Members (Sensitivity Status Code)* and select Sum as the *Formula type*, then click Apply.

Formulas 1											
Edit Formula	i ←										
Name:	Format:										
Total Non Susceptible CLSI	#,##0 💌										
Formula type:	Precedenc										
Sum 👻	6 🛨 🌑										
Members (Sensitivity Status Code)	· +										
O R											

12. Now create a new formula called **% non-susceptible CLSI.** Selecting **Ratio** as the *Formula type* and then add **Total Tested** and **Total R CLSI** to the *Members (Sensitivity Status Code),* then select **Apply**.

Formulas	Į×
Edit Formula	
Name:	Format:
% Non Susceptible CLSI	#0.0% 💌
Formula type:	Precedenc
Ratio -	6 🕂
Members (Sensitivity Status Code)	E +
O Total Tested	
Total Non Susceptible CLSI	

13. You will now have the following views available to you.

Ampicillin												
I	R	s	∱∗ Total Tested	رئس Total Non Susceptible CLSI	% Non Susceptible CLSI							
10	3,594	3,171	6,775	3,604	53.2%							

14. If you only require **% non-susceptible CLSI** you can hide the other columns that you do not want to display. Right click on the column you want to hide and select **Hide** followed by **Hide highlighted members** as below:

5 x	£.	£x	5n				
S Sort by S			non susceptible CLSI	Т	R	s	
3,99 X Hide		•	Hide highlighted members 50				
1ং 🚺 Value Filter			87.4%		2,	137	

15. Now you have a workboard that displays % non-susceptible CLSI as below:

Antibiogram Blood (Count,2021,First Isolate,Blood Culture)											
Antimicrobial 🔽 Sensitivity Status Code											
	Benzylpenicillin						Ampicillin				
Organism 👕	-	Ι	R	s	% Non Susceptible CLSI	I	R	s	% Non Susceptible CLSI		
Escherichia coli			1		100.0%	7	3,671	3,998	47.9%		
Staphylococcus aureus			4,229	974	81.3%		427	119	78.2%		

- 16. If % R is required for a EUCAST workboard repeat steps 9 & 10
- 17. Then create a % Resistant EUCAST as below and press apply:

Formulas	ĮΧ
Edit Formula	≡ ←
Name:	Format:
% Resistant EUCAST	#.00% 💌
Formula type:	Precedenc
Ratio 👻	6 🛨 🌑
Members (Sensitivity Status Code)	i: +
O Total Tested	
O R	

18. Now % resistant is displayed below using EUCAST guidelines as I & S are included as susceptible.

Antibiogram Blood (Count,2021,Fir	st Isolate,E	Bloo	d Cult	ure)							
	Ant	imicr	obial	Sens	sitivity Sta	itus Code					
		Benzylpenicillin					Ampicillin				
Organism		I	R	s	∱ Total Tested	& % Resistant EUCAST	I	R	s	∱. Total Tested	∳ % Resistant EUCAST

19. If % Susceptible is required for EUCAST then total susceptible will need to be calculated

Formulas	∓ ×
Edit Formula	≡ €
Name:	Format:
Susceptible by EUCAST	#,# 💌
Formula type:	Precedenc
Sum 👻	6 🕂
Members (Sensitivity Status Code)	. +
05	
I O	

20. To calculate % susceptible by EUCAST apply formula below:

Formulas	Į×
Edit Formula	≡ ←
Name:	Format:
% susceptible (EUCAST)	#.0% *
Formula type:	Precedenc
Ratio -	6 🛨 🌑
Members (Sensitivity Status Code)	: +
 Total Susceptible by EUCAST 	

21. Now you have % susceptible (EUCAST) in your workboard

Cumulative Antibiogram (Count,2021,First Isolate,Blood Culture)										
		Antimic	robi	al 🕈 S	ensitivity Status	Code				
	Organism List		nicin	Piperacillin and enzyme inhibitor						
		s	I	R	€ % susceptible (EUCAST)	S	I	R	€ % susceptible (EUCAST)	
	Escherichia coli	9,369	17	539	94.6%	9,340	49	503	94.9%	
	Staphylococcus aureus	3,319	5	62	98.2%					