Lollipop charts:

Neomycin

Categories of Bacteria	MIC
Staphylococcus aureus	0.001
Staphylococcus albus	0.001
Brucella anthracis	0.007
Salmonella (Eberthella) typhosa	0.008
Brucella abortus	0.02
Salmonella schottmuelleri	0.09
Streptococcus fecalis	0.1
Proteus vulgaris	0.1
Escherichia coli	0.1
Pseudomonas aeruginosa	0.4
Klebsiella pneumoniae	1.0
Aerobacter aerogenes	1.6
Mycobacterium tuberculosis	2.0
Streptococcus hemolyticus	10.0
Diplococcus pneumoniae	10.0
Streptococcus viridans	40.0

Streptomycin

Categories of Bacteria	MIC
Brucella anthracis	0.01
Staphylococcus aureus	0.03
Staphylococcus albus	0.1
Proteus vulgaris	0.1
Salmonella (Eberthella) typhosa	0.4
Escherichia coli	0.4
Salmonella schottmuelleri	0.8
Streptococcus fecalis	1.0
Aerobacter aerogenes	1.0
Klebsiella pneumoniae	1.2
Pseudomonas aeruginosa	2.0
Brucella abortus	2.0
Mycobacterium tuberculosis	5.0
Streptococcus viridans	10.0
Diplococcus pneumoniae	11.0
Streptococcus hemolyticus	14.0

Penicilin

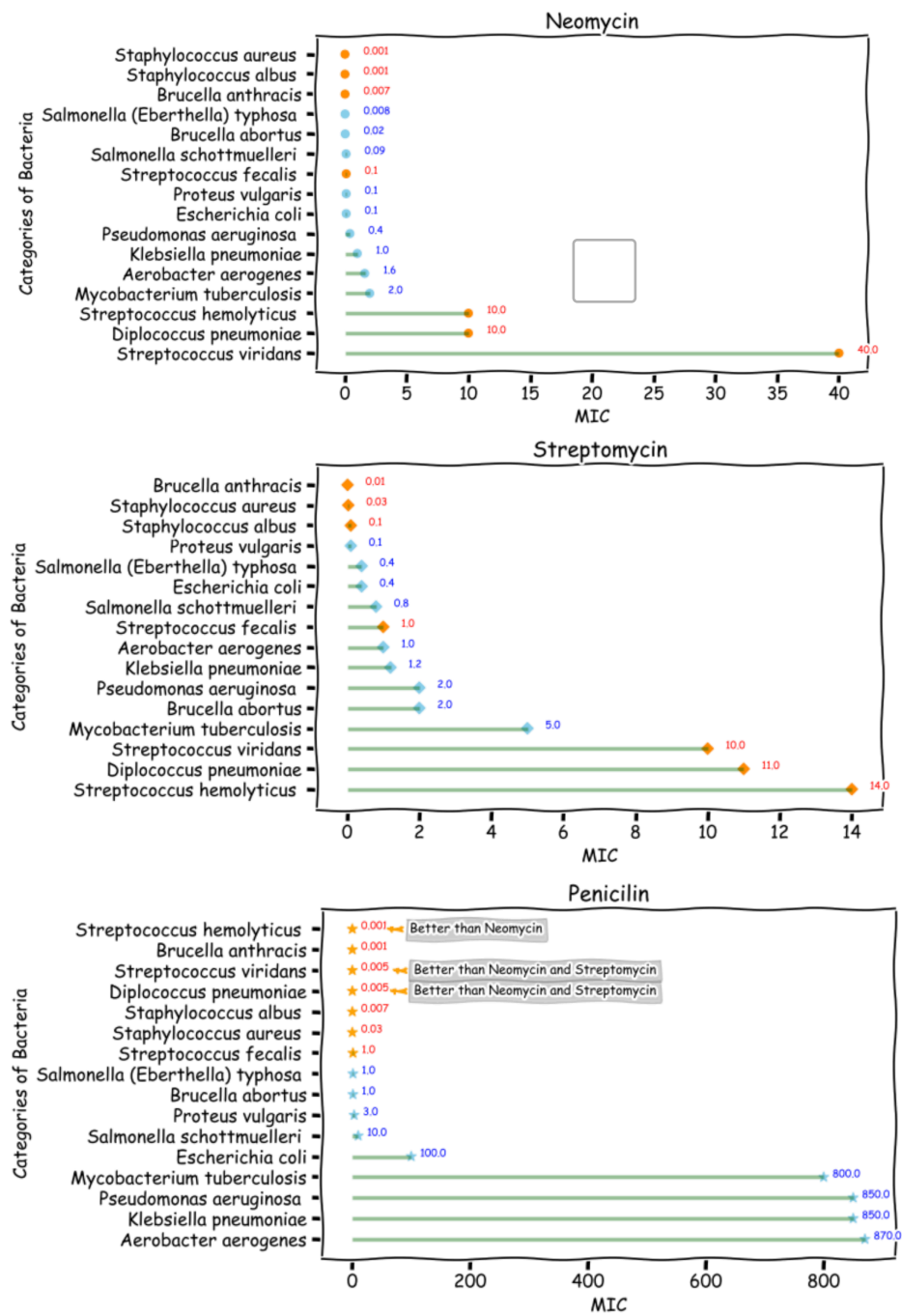| Categories of Bacteria	MIC	Note
Streptococcus hemolyticus	0.001	Better than Neomycin
Brucella anthracis	0.001	
Streptococcus viridans	0.005	Better than Neomycin and Streptomycin
Diplococcus pneumoniae	0.005	Better than Neomycin and Streptomycin
Staphylococcus albus	0.007	
Staphylococcus aureus	0.03	
Streptococcus fecalis	1.0	
Salmonella (Eberthella) typhosa	1.0	
Brucella abortus	1.0	
Proteus vulgaris	3.0	
Salmonella schottmuelleri	10.0	
Escherichia coli	100.0	
Mycobacterium tuberculosis	800.0	
Pseudomonas aeruginosa	850.0	
Klebsiella pneumoniae	850.0	
Aerobacter aerogenes	870.0	

Goal:
There are two main goals of my visualizations: 1) Find out the most effective anti-biotics; 2) For the antibiotic that is in general the least effective, what type of bacteria could it be most effectively used to prevent its growth.

Encoding:
Y axis: different types of bacteria
X axis: MIC
Text color: red means Gram staining is positive and blue means Gram staining is negative
Marker color: orange means Gram staining is positive and skyblue means Gram staining is negative

Conclusion:
Neomycin is effective for most types of bacteria. Penicilin looks very ineffective for some bacteria, but is so much better than Neomycin when it comes to curb Streptococus hemolyticus, Diplococus pneumoniane, and Streptococcus viridans.