

## Neisseria spp - other (LTR79372)

Edit Approved By: Verity, Bob (08/02/2023)

Revision: 3.00

**Organism**
**Neisseria spp. (other)**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• <i>N. cinerea</i></li> <li>• <i>N. elongata</i></li> <li>• <i>N. flava</i></li> <li>• <i>N. flavescens</i></li> <li>• <i>N. lactamica</i></li> </ul> | <ul style="list-style-type: none"> <li>• <i>N. mucosa</i></li> <li>• <i>N. perflava</i></li> <li>• <i>N. polysaccharea</i></li> <li>• <i>N. sicca</i></li> <li>• <i>N. subflava</i></li> </ul> |
|---|--|

**Clinical**

*Neisseria sp.* are part of the normal oropharyngeal flora of humans and animals. They have been implicated in infections such as native and prosthetic valve endocarditis, septic arthritis, septicemia, meningitis, peritonitis, osteomyelitis, and pneumonia.

**Usual susceptibility pattern**

Reduced susceptibility to penicillin is common in *N. lactamica* and has also been reported in other species including *N. mucosa* and *N. subflava*. Variable susceptibility to cefixime and ciprofloxacin has been reported in *N. lactamica*. Ceftriaxone non-susceptible *N. lactamica* isolates have also been reported.

**Susceptibility method**

Etest method using Mueller-Hinton with 5% sheep blood incubated in 5% CO<sub>2</sub> at 35° C for 24 hours.

**Note:** For Etest use 0.5 McFarland suspension in broth.

**Susceptibility reporting**

	CSF/ Brain	Blood/ Sterile Body Site	Other	Comments
β-lactamase	*	*	*	Test but do not report
Cefotaxime	*	*	2*	2 <sup>nd</sup> line if pen I/R *Report if patient <1 month instead of ceftriaxone
Ceftriaxone	✓	✓	2	2 <sup>nd</sup> line if pen I/R Do not report if patient <1 month
Ciprofloxacin		✓	✓	Do not report if patient < 18 y
Penicillin	✓	✓	✓	If β-lactamase positive – report pen R

**Neisseria spp. (other), Continued**

**Interpretation** For Etest, report actual MIC result. For interpretation (S, I, or R) report according to the nearest higher doubling dilution (**Appendix 1**).

Antibiotic	Interpretive document	Add comment							
Cefotaxime/ Ceftriaxone	CLSI: <i>N. meningitidis</i> <table border="1"> <thead> <tr> <th>MIC</th> <th>Interpretation</th> </tr> </thead> <tbody> <tr> <td>≤ 0.12 µg/mL</td> <td>Susceptible</td> </tr> <tr> <td>≥ 0.25 µg/mL</td> <td>Non-susceptible *</td> </tr> </tbody> </table>	MIC	Interpretation	≤ 0.12 µg/mL	Susceptible	≥ 0.25 µg/mL	Non-susceptible *	Susceptibility testing for this organism was performed by a non-reference method and/or required modifications to the standard test conditions. Results are probable but not definite. <b>&amp;2130 &amp;2338</b>	
MIC	Interpretation								
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Ciprofloxacin	CLSI: <i>N. meningitidis</i> <table border="1"> <thead> <tr> <th>MIC</th> <th>Interpretation</th> </tr> </thead> <tbody> <tr> <td>≤ 0.03 µg/mL</td> <td>Susceptible</td> </tr> <tr> <td>0.06 µg/mL</td> <td>Intermediate</td> </tr> <tr> <td>≥ 0.12 µg/mL</td> <td>Resistant</td> </tr> </tbody> </table>	MIC	Interpretation	≤ 0.03 µg/mL	Susceptible	0.06 µg/mL	Intermediate	≥ 0.12 µg/mL	Resistant
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*Consult Microbiologist prior to reporting non-susceptible result.									