

## Supplementary file

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Table S1. Inhibitory activity of various commensal *Neisseria* and other species in agar overlay assay

Study	Sample.IDX	Species	Pitting	Target strains zone of inhibition (mm)																									
				WHO F	WHO W	WHO X	ATCC 49226	MohG 003	MohG 004	18.527	18.530	18.531	19.572	RL1	RL3	RL7	RL8	07. 110	07. 177	21. 162	21. 163	21. 164	21. 165	21. 166	21. 167	21. 168	21. 169	21. 186	21. 189
Other Neisseria species																													
Prego	19040471/1	Neisseria meningitidis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19040874/2	Neisseria meningitidis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19040900/1	Neisseria subflava/ flavescens/perflava		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19051904/2	Neisseria subflava/ flavescens/perflava		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19111422/7	Neisseria sp.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000761/1	Neisseria lactamica		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000761/7	Neisseria oralis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000763/1	Neisseria oralis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000765/1	Neisseria meningitidis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000767/3	Neisseria elongata		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000769/3	Neisseria cinerea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000771/1	Neisseria lactamica		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000776/1	Neisseria oralis		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000776/4	Neisseria cinerea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000777/2	Neisseria subflava/ flavescens/perflava		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000777/4	Neisseria subflava/ flavescens/perflava		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N.mucosa/macacae group																													
Prego	19041762/2	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19051904/1	Neisseria mucosa/macacae	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19052394/2	Neisseria mucosa/macacae	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19062968/1	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19081774/2	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prego	19111422/4	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000770/5	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000771/4	Neisseria mucosa/macacae	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000772/3	Neisseria mucosa/macacae	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000773/3	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000779/1	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000783/3	Neisseria mucosa/macacae	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000787/3	Neisseria mucosa/macacae	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Comcom	Co000788/1	Neisseria mucosa/macacae	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collection	ITM 1621	Neisseria mucosa (ITM 1621)	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collection	ATCC 19696	Neisseria mucosa (ITM 2252)	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collection	ATCC 19697	Neisseria mucosa (ITM 3369)	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collection	ATCC 19695	Neisseria mucosa (ITM 3375)	/	-	-	-	-	-	-	-	-	-	-	-	-	-													

-: no inhibition, NA: Not available, P:pitting observed, /: no pitting observed

Table S2. Clinical study, anatomical site, year of isolation and antimicrobial susceptibilities of isolates used in the study

Study	Sample.IDX	Species	MIC (µg/ml)			Year	Site
			Azithromycin	Ceftriaxone	Ciprofloxacin		
<u>Other Neisseria species</u>							
Prego	19040471/1	Neisseria meningitidis	0.380	<0,016	0.003	2019	Pharynx
Prego	19040874/2	Neisseria meningitidis	2	0.016	0.004	2019	Pharynx
Prego	19040900/1	Neisseria subflava/ flavescens/perflava	>256	0.094	0.380	2019	Pharynx
Prego	19051904/2	Neisseria subflava/ flavescens/perflava	2	0.064	0.380	2019	Pharynx
Prego	19111422/7	Neisseria sp.	1	0.032	0.016	2019	Pharynx
Comcom	Co000761/1	Neisseria lactamica	2	<0,016	0.190	2020	Pharynx
Comcom	Co000761/7	Neisseria oralis	2	0.064	0.016	2020	Pharynx
Comcom	Co000763/1	Neisseria oralis	1	0.032	0.012	2020	Pharynx
Comcom	Co000765/1	Neisseria meningitidis	0.500	<0,016	0.004	2020	Pharynx
Comcom	Co000767/3	Neisseria elongata	0.500	0.190	0.004	2020	Pharynx
Comcom	Co000769/3	Neisseria cinerea	1	<0,016	0.006	2020	Pharynx
Comcom	Co000771/1	Neisseria lactamica	1	<0,016	0.064	2020	Pharynx
Comcom	Co000776/1	Neisseria oralis	4	0.047	0.016	2020	Pharynx
Comcom	Co000776/4	Neisseria cinerea	24	<0,016	0.032	2020	Pharynx
Comcom	Co000777/2	Neisseria subflava/ flavescens/perflava	0.250	0.047	0.500	2020	Pharynx
Comcom	Co000777/4	Neisseria subflava/ flavescens/perflava	>256	0.047	2	2020	Pharynx
<u>N.mucosa/macacae group</u>							
Prego	19041762/2	Neisseria mucosa/macacae	3	0.03	0.02	2019	Pharynx
Prego	19051904/1	Neisseria mucosa/macacae	2	0.05	0.25	2019	Pharynx
Prego	19052394/2	Neisseria mucosa/macacae	4	0.03	0.01	2019	Pharynx
Prego	19062968/1	Neisseria mucosa/macacae	16	0.06	6	2019	Pharynx
Prego	19081774/2	Neisseria mucosa/macacae	24	0.09	0.02	2019	Pharynx
Prego	19111422/4	Neisseria mucosa/macacae	1.5	0.03	0.02	2019	Pharynx
Comcom	Co000770/5	Neisseria mucosa/macacae	3	0.05	0.02	2020	Pharynx
Comcom	Co000771/4	Neisseria mucosa/macacae	6	0.06	0.02	2020	Pharynx
Comcom	Co000772/3	Neisseria mucosa/macacae	4	0.03	0.01	2020	Pharynx
Comcom	Co000773/3	Neisseria mucosa/macacae	2	0.03	0.01	2020	Pharynx
Comcom	Co000779/1	Neisseria mucosa/macacae	2	0.13	0.03	2020	Pharynx
Comcom	Co000783/3	Neisseria mucosa/macacae	6	0.03	0.01	2020	Pharynx
Comcom	Co000787/3	Neisseria mucosa/macacae	4	0.09	0.06	2020	Pharynx
Comcom	Co000788/1	Neisseria mucosa/macacae	2	0.03	0.01	2020	Pharynx
Collection	ITM 1621	Neisseria mucosa (ITM 1621)				1977	Vaginal
Collection	ATCC 19696	Neisseria mucosa (ITM 2252)	NA	NA	NA	NA	NA
Collection	ATCC 19697	Neisseria mucosa (ITM 3369)	NA	NA	NA	NA	NA
Collection	ATCC 19695	Neisseria mucosa (ITM 3375)	NA	NA	NA	NA	NA
Collection	ATCC 19694	Neisseria mucosa (ITM 3380)	NA	NA	NA	NA	NA
Collection	ATCC 25999	Neisseria mucosa (ITM 3391)	NA	NA	NA	NA	Pharynx
Collection	ATCC 25996	Neisseria mucosa (DSM4631)	NA	NA	NA	NA	NA
Collection	<u>Other isolates</u>						
Collection	ATCC 29213	Staphylococcus aureus	NA	NA	NA	NA	NA
Collection	ATCC 25923	Staphylococcus aureus	NA	NA	NA	NA	NA
Collection	ATCC 49619	Streptococcus pneumoniae	NA	NA	NA	NA	NA
Collection	ATCC 25922	Escherichia coli	NA	NA	NA	NA	NA
Collection	LMG 14238	Streptococcus pyogenes	NA	NA	NA	NA	NA
Collection	LMG 9479	Lactobacillus crispatus	NA	NA	NA	NA	NA

NA: Not available