

Supporting Information

Antibiotic Resistance of Selected Bacteria after Treatment of the Supragingival Biofilm with Subinhibitory Chlorhexidine Concentrations

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Table S1. Exact rating-values of the MALDI-TOF-analysis. Values > 2 show a reliable genus and species identification, Values = 2.0-1.7 show a probable genus and species identification, Values < 1.7 shows an insufficient identification.

| Title | Genus | Species | MALDI-Rating |
|---------------------------|-----------------------|-----------------|--------------|
| P1 - Org | <i>Streptococcus</i> | <i>oralis</i> | 2.16 |
| P1 - Passaged without CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.15 |
| P1 - Passaged with CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.09 |
| P2 - Org | <i>Streptococcus</i> | <i>oralis</i> | 2.21 |
| P2 - Passaged without CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.15 |
| P2 - Passaged with CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.13 |
| P3 - Org | <i>Streptococcus</i> | <i>oralis</i> | 2.33 |
| P3 - Passaged without CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.02 |
| P3 - Passaged with CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.14 |
| P4 - Org | <i>Streptococcus</i> | <i>oralis</i> | 2.32 |
| P4 - Passaged without CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.01 |
| P4 - Passaged with CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.15 |
| P5 - Org | <i>Streptococcus</i> | <i>oralis</i> | 2.19 |
| P5 - Passaged without CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.2 |
| P5 - Passaged with CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.09 |
| P6 - Org | <i>Streptococcus</i> | <i>oralis</i> | 2.16 |
| P6 - Passaged without CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.14 |
| P6 - Passaged with CHX | <i>Streptococcus</i> | <i>oralis</i> | 2.13 |
| P5 - Org | <i>Granulicatella</i> | <i>adiacens</i> | 2.23 |
| P5 - Passaged with CHX | <i>Granulicatella</i> | <i>adiacens</i> | 2.2 |

Table S2. The actual values of Antibiotic susceptibility of the isolates (in µg/mL). (a) P1- *S. oralis* (b) P2- *S. oralis* (c) P3- *S. oralis* (d) P4- *S. oralis* (e) P5- *S. oralis* (f) P6- *S. oralis* (g) P5- *G. adiacens* .

| (a) Proband 1 - <i>S. oralis</i> | | | |
|---|----------------------------|----------------------------|------------------------------------|
| Antibiotic | Org- MIC(µg/mL) | CHX- MIC(µg/mL) | Without CHX- MIC(µg/mL) |
| Erythromycin | 3 | 6 | 2 |
| Clindamycin | 0.064 | 0.047 | 0.094 |
| Penicillin G | 0.094 | 0.094 | 0.094 |
| Ampicillin | 0.032 | 0.19 | 0.125 |
| Amoxicillin | 0.016 | 0.094 | 0.064 |
| Gentamicin | 32 | 16 | 16 |
| Tetracycline | 32 | 0.25 | 0.25 |
| Vancomycin | 0.25 | 0.38 | 0.5 |
| Meropenem | 0.047 | 0.094 | 0.064 |
| Ciprofloxacin | 2 | 2 | 3 |
| Cefuroxime | 0.25 | 1 | 1.5 |
| Tigecycline | 0.094 | 0.032 | 0.064 |
| Moxifloxacin | 0.19 | 0.125 | 0.25 |
| (b) Proband 2 - <i>S. oralis</i> | | | |
| Antibiotic | Org- MIC(µg/mL) | CHX- MIC(µg/mL) | Without CHX- MIC(µg/mL) |
| Erythromycin | 0.094 | 6 | 0.064 |
| Clindamycin | 0.064 | 0.094 | 0.064 |
| Penicillin G | 0.064 | 0.064 | 0.032 |
| Ampicillin | 0.023 | 0.016 | 0.047 |
| Amoxicillin | 0.016 | 0.023 | 0.032 |
| Gentamicin | 16 | 16 | 16 |
| Tetracycline | 0.19 | 0.25 | 0.125 |
| Vancomycin | 0.38 | 0.25 | 0.5 |
| Meropenem | 0.032 | 0.047 | 0.064 |
| Ciprofloxacin | 4 | 12 | 4 |
| Cefuroxime | 0.125 | 0.094 | 0.19 |
| Tigecycline | 0.064 | 0.064 | 0.064 |
| Moxifloxacin | 0.25 | 0.25 | 0.125 |
| (c) Proband 3 - <i>S. oralis</i> | | | |
| Antibiotic | Org- MIC(µg/mL) | CHX- MIC(µg/mL) | Without CHX- MIC(µg/mL) |
| Erythromycin | 256 | 3 | 2 |
| Clindamycin | 256 | 0.064 | 0.047 |
| Penicillin G | 0.023 | 0.032 | 0.032 |
| Ampicillin | 0.032 | 0.032 | 0.032 |
| Amoxicillin | 0.032 | 0.032 | 0.023 |
| Gentamicin | 6 | 16 | 16 |
| Tetracycline | 16 | 0.25 | 0.19 |
| Vancomycin | 0.25 | 0.5 | 0.5 |
| Meropenem | 0.032 | 0.047 | 0.047 |
| Ciprofloxacin | 0.75 | 4 | 3 |
| Cefuroxime | 0.19 | 0.125 | 0.125 |
| Tigecycline | 0.016 | 0.047 | 0.047 |
| Moxifloxacin | 0.064 | 0.125 | 0.19 |
| (d) Proband 4 - <i>S. oralis</i> | | | |
| Antibiotic | Org- MIC(µg/mL) | CHX- MIC(µg/mL) | Without CHX- MIC(µg/mL) |
| <i>Erythromycin</i> | 2 | 4 | 6 |
| <i>Clindamycin</i> | 0.064 | 0.094 | 0.125 |
| <i>Penicillin G</i> | 0.023 | 0.032 | 0.016 |
| <i>Ampicillin</i> | 0.023 | 0.047 | 0.016 |
| <i>Amoxicillin</i> | 0.023 | 0.032 | 0.032 |

| | | | |
|----------------------|-------|-------|-------|
| <i>Gentamicin</i> | 16 | 16 | 16 |
| <i>Tetracycline</i> | 0.19 | 0.25 | 0.19 |
| <i>Vancomycin</i> | 0.38 | 0.5 | 0.38 |
| <i>Meropenem</i> | 0.032 | 0.064 | 0.023 |
| <i>Ciprofloxacin</i> | 1.5 | 4 | 3 |
| <i>Cefuroxime</i> | 0.094 | 0.125 | 0.047 |
| <i>Tigecycline</i> | 0.047 | 0.047 | 0.064 |
| <i>Moxifloxacin</i> | 0.19 | 0.19 | 0.25 |

(e) Proband 5 - *S. oralis*

| Antibiotic | Org- MIC($\mu\text{g/mL}$) | CHX- MIC($\mu\text{g/mL}$) | Without CHX- MIC($\mu\text{g/mL}$) |
|---------------|---------------------------------|---------------------------------|---|
| Erythromycin | 0.094 | 3 | 4 |
| Clindamycin | 0.064 | 0.064 | 0.064 |
| Penicillin G | 0.016 | 0.047 | 0.25 |
| Ampicillin | 0.047 | 0.032 | 0.5 |
| Amoxicillin | 0.032 | 0.023 | 0.38 |
| Gentamicin | 16 | 16 | 4 |
| Tetracycline | 0.19 | 64 | 24 |
| Vancomycin | 0.5 | 0.38 | 0.25 |
| Meropenem | 0.016 | 0.032 | 0.032 |
| Ciprofloxacin | 2 | 4 | 1.5 |
| Cefuroxime | 0.125 | 0.125 | 0.5 |
| Tigecycline | 0.064 | 0.094 | 0.047 |
| Moxifloxacin | 0.094 | 0.19 | 0.25 |

(f) Proband 6 - *S. oralis*

| Antibiotic | Org- MIC($\mu\text{g/mL}$) | CHX- MIC($\mu\text{g/mL}$) | Without CHX- MIC($\mu\text{g/mL}$) |
|---------------|---------------------------------|---------------------------------|---|
| Erythromycin | 0.094 | 0.125 | 2 |
| Clindamycin | 0.064 | 0.094 | 0.094 |
| Penicillin G | 0.023 | 0.023 | 0.032 |
| Ampicillin | 0.047 | 0.032 | 0.047 |
| Amoxicillin | 0.047 | 0.023 | 0.032 |
| Gentamicin | 24 | 16 | 32 |
| Tetracycline | 0.19 | 0.25 | 0.19 |
| Vancomycin | 0.5 | 0.5 | 0.5 |
| Meropenem | 0.064 | 0.032 | 0.047 |
| Ciprofloxacin | 4 | 1.5 | 3 |
| Cefuroxime | 0.125 | 0.094 | 0.19 |
| Tigecycline | 0.094 | 0.094 | 0.047 |
| Moxifloxacin | 0.38 | 0.094 | 0.19 |

(g) Proband 5 – *G. adiacens*

| Antibiotic | Org- MIC($\mu\text{g/mL}$) | CHX- MIC($\mu\text{g/mL}$) |
|---------------|---------------------------------|---------------------------------|
| Erythromycin | 0.19 | >256 |
| Clindamycin | 0.19 | >256 |
| Penicillin G | 0.008 | 0.094 |
| Ampicillin | <0.016 | 0.047 |
| Amoxicillin | <0.016 | 0.064 |
| Gentamicin | 2 | 3 |
| Tetracycline | 0.5 | 16 |
| Vancomycin | 0.38 | 0.75 |
| Meropenem | 0.047 | 0.094 |
| Ciprofloxacin | 0.19 | 2 |
| Cefuroxime | 0.016 | 4 |
| Tigecycline | 0.064 | 0.094 |
| Moxifloxacin | 0.064 | 0.25 |