

## Appendix 4

### Breakdown of studies

|                                | Study ID           | Perio-related studies (n=50) | Non-microbiological (n=11) | microbiological (n=36) | "Ultra"-sonic (n=44) | Air Polishing (n=4) | Hand scaling (n=3) | Prophylaxis (n=2) |
|--------------------------------|--------------------|------------------------------|----------------------------|------------------------|----------------------|---------------------|--------------------|-------------------|
| <b>Ultrasonic studies n=44</b> | 5                  | Balcos et al. 2019           | ✓                          | ✓                      | ✓                    |                     |                    |                   |
|                                | 6                  | Barnes et al. 1998           | ✓                          |                        | ✓                    |                     |                    |                   |
|                                | 8                  | Bentley et al. 1994          | ✓                          |                        | ✓                    |                     |                    |                   |
|                                | 9                  | Choi et al. 2018             |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 10                 | Chuang et al. 2014           |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 16                 | Devker et al. 2012           |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 21                 | Feres et al. 2010            |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 22                 | Fine et al. 1992             |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 23                 | Fine et al. 1993             |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 24                 | Fine et al. 1993             |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 25                 | Graetz et al. 2014           | ✓                          |                        | ✓                    |                     |                    |                   |
|                                | 29                 | Greenier 1995                |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 31                 | Gupta et al. 2014            |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 32                 | Hallier et al. 2010          |                            | ✓                      | ✓                    |                     |                    |                   |
|                                | 33                 | Harrel et al. 1996           | ✓                          |                        | ✓                    |                     |                    |                   |
|                                | 34                 | Harrel et al. 1998           | ✓                          |                        | ✓                    |                     | ✓                  |                   |
|                                | 37                 | Holloman et al. 2015         |                            | ✓                      | ✓                    |                     |                    |                   |
| 41                             | Jawade et al. 2016 |                              | ✓                          | ✓                      |                      |                     |                    |                   |

|                  |                      |                            |   |   |   |   |  |   |
|------------------|----------------------|----------------------------|---|---|---|---|--|---|
|                  | 44                   | Kaur et al. 2014           |   | ✓ | ✓ |   |  |   |
|                  | 45                   | King et al. 1997           |   | ✓ | ✓ |   |  |   |
|                  | 48                   | Labaf et al. 2011          |   | ✓ | ✓ |   |  |   |
|                  | 90                   | Miller et al. 1971         |   | ✓ | ✓ |   |  | ✓ |
|                  | 52                   | Mohan and Jagannathan 2016 |   | ✓ | ✓ |   |  |   |
|                  | 54                   | Narayana et al. 2016       |   | ✓ | ✓ |   |  |   |
|                  | 55                   | Neiatidanesh et al. 2013   | ✓ |   | ✓ |   |  |   |
|                  | 59                   | Prospero 2003              |   | ✓ | ✓ |   |  |   |
|                  | 60                   | Purohit et al. 2010        |   | ✓ | ✓ |   |  |   |
|                  | 61                   | Ramesh et al. 2015         |   | ✓ | ✓ |   |  |   |
|                  | 62                   | Rao et al. 2015            |   | ✓ | ✓ |   |  |   |
|                  | 64                   | Reddy et al. 2012          |   | ✓ | ✓ |   |  |   |
|                  | 65                   | Retamal-Valdes et al. 2017 |   | ✓ | ✓ |   |  |   |
|                  | 66                   | Rivera-Hidalho et al. 1999 | ✓ |   | ✓ |   |  |   |
|                  | 69                   | Sadun et al. 2020          |   | ✓ | ✓ |   |  |   |
|                  | 70                   | Saini 2015                 |   | ✓ | ✓ |   |  |   |
|                  | 71                   | Sawhney et al. 2015        |   | ✓ | ✓ |   |  |   |
|                  | 72                   | Serban et al. 2013         |   | ✓ | ✓ |   |  |   |
|                  | 73                   | Sethi et al. 2019          |   | ✓ | ✓ |   |  |   |
|                  | 74                   | Shetty et al. 2013         |   | ✓ | ✓ |   |  |   |
|                  | 76                   | Singh et al. 2016          |   | ✓ | ✓ |   |  |   |
|                  | 78                   | Swaminathan et al. 2014    |   | ✓ | ✓ |   |  |   |
|                  | 80                   | Timmerman et al. 2004      |   | ✓ | ✓ |   |  |   |
| 83               | Veena et al. 2015    | ✓                          |   | ✓ |   |   |  |   |
| 85               | Watanabe et al. 2013 | ✓                          | ✓ | ✓ |   |   |  |   |
| 87               | Yamada et al. 2011   | ✓                          |   | ✓ |   |   |  |   |
| <b>A I R P O</b> | 35                   | Harrel et al. 1999         | ✓ |   |   | ✓ |  |   |

|                         |    |                                  |   |   |   |   |   |   |
|-------------------------|----|----------------------------------|---|---|---|---|---|---|
|                         | 18 | Dos Santos 2014                  |   | ✓ |   | ✓ |   |   |
|                         | 49 | Logothetis 1995                  |   | ✓ |   | ✓ |   |   |
|                         | 53 | Muzzin 1999                      |   | ✓ |   | ✓ |   |   |
| Hand scaling<br>n=3     | 34 | Harrel et al. 1998 *(also in US) | ✓ |   | ✓ |   | ✓ |   |
|                         | 89 | Micik 1969                       |   | ✓ |   |   | ✓ | ✓ |
|                         | 63 | Rautemma 2006                    |   | ✓ |   |   | ✓ |   |
| Prophylaxis studies n=2 | 89 | Micik 1969* (also in HS)         |   | ✓ |   |   | ✓ | ✓ |
|                         | 90 | Miller et al. 1971* (also in US) |   | ✓ | ✓ |   |   | ✓ |