| *Additional file 3: Table S3*: Outcomes of included studies |
| --- |
| Study(year) | Periodontal probe | B-PD(T vs. C) | B-CAL(T vs. C) | B-IBD(T vs. C) | Follow-up (m) | C-PD(T vs. C) | C-CAL(T vs. C) | C-IBD(T vs. C) |
| Pradeep(2010)  | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.43±1.59 vs. 6.87±1.61 | 6.23±1.45 vs. 6.20±1.65 | 4.35±1.14 vs. 4.38±1.19 | 6 | 1m: 3.03±0.99 vs. 1.73±1.112m: 3.80±1.09 vs. 1.66±1.024m: 4.23±1.33 vs. 1.66±1.246m: 4.26±1.59 vs. 1.20±1.24 | 1m: 2.73±1.70 vs. 1.46±1.732m: 3.43±1.71 vs. 1.76±1.904m: 3.96±1.75 vs. 1.73±1.986m: 4.36±1.92 vs. 1.63±1.99 | 6m: 1.41±0.74 vs. 0.09±0.58 |
| Pradeep(2012) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.33±1.49 vs. 6.80±1.32 | CAL:7.92±1.50 vs. 7.43±1.53RHAL: 8.43±1.28 vs. 7.86±1.46 | 4.57±1.14 vs. 4.33±0.99 | 6 | 3m: 3.06±1.09 vs. 1.66±1.196m: 4.05±1.31 vs. 1.30±1.01 | CAL: 3m: 3.70±1.21 vs. 2.36±1.256m: 4.63±1.01 vs. 2.46±1.49RHAL: 3m: 3.50±1.28 vs. 2.30±1.756m: 4.33±1.42 vs. 2.43±1.66 | 6m: 1.15±0.61 vs 1.15±0.61 |
| Rath(2012) | Not report | 6.3±1.7 vs. 6.6±1.5 | 7.5±1.6 vs. 7.4±1.0 | 7.2±1.2 vs. 7.3±1.1 | 6 | 2m: 1.9±1.7 vs. 1.1±0.53m: 3.1±1.5 vs. 1.8±0.76m: 4.0±1.6 vs. 2.1±0.8 | 2m: 2.2±1.5 vs. 1.4±1.13m: 3.6±1.6 vs. 2±1.46m: 4.6±1.5 vs. 2.3±1.1 | 6m: 0.57±1.0 vs. 0.08±0.1 |
| Pradeep(2013a) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.77±1.30 vs. 7.73±1.14 | 7.03±1.43 vs. 7.40±1.22 | 4.79±0.54 vs. 4.75±0.51 | 9 | 3m: 2.20±0.54 vs. 1.36±0.546m: 3.40±0.56 vs. 1.56±0.539m: 3.70±0.59 vs. 1.46±0.55 | 3m: 2.70±0.54 vs. 1.86±0.556m: 4.20±0.60 vs. 2.36±0.519m: 4.46±0.60 vs. 2.26±0.51 | 6m: 1.60±0.24 vs. 0.13±0.259m: 1.70±0.24 vs. 0.08±0.26 |
| Pradeep(2013b) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 8.31±1.04 vs. 7.86±1.09 | 6.41±0.87 vs. 6.31±0.81 | 4.89±0.51 vs. 4.92±0.56 | 9 | 3m: 2.79±1.18 vs. 1.48±0.576m: 3.79±1.15 vs. 1.69±0.769m: 4.03±1.27 vs. 1.55±0.95 | 3m: 2.48±0.74 vs. 1.00±0.276m: 3.83±0.97 vs. 1.38±0.569m: 3.97±1.18 vs. 1.14±0.83 | 6m: 1.38±0.73 vs. 0.19±0.379m: 1.62±0.71 vs. 0.23±0.49 |

| Study(year) | Periodontal probe | B-PD(T vs. C) | B-CAL(T vs. C) | B-IBD(T vs. C) | Follow-up (m) | C-PD(T vs. C) | C-CAL(T vs. C) | C-IBD(T vs. C) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rao(2013) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.87±0.90 vs. 7.93±1.12 | 6.20±1.16 vs. 6.13± 0.94 | 4.75±0.85 vs. 4.86± 0.46 | 9 | 3m: 2.30±1.06 vs. 1.23±1.016m: 3.37±1.27 vs. 1.90±1.329m: 3.83±1.26 vs. 1.57±1.22 | 3m: 2.13±0.94 vs. 1.00±0.796m: 3.20±1.32 vs. 1.67±1.189m: 3.63±1.10 vs. 1.47±1.41 | 6m: 1.17±0.45 vs. 0.13±0.269m: 1.51±0.47 vs. 0.21±0.27 |
| Pradeep(2015) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.08±0.74 vs. 7.05± 0.65 | 6.27±0.63 vs. 6.24±0.49 | 4.59±0.62 vs. 4.59±0.74 | 6 | 1m: 3.14±0.28 vs. 2.60±0.083m: 3.31±0.28 vs. 2.27±0.1 4m: 3.68±0.3 vs. 1.78±0.076m: 4.04±0.34 vs. 1.31±0.24 | 1m: 2.31±0.04 vs. 1.98±0.193m: 2.92±0.07 vs. 1.68±0.144m: 3.61±0.23 vs. 1.68±0.166m: 4.20±0.17 vs. 1.40±0.15 | 6m: 2.23±0.32 vs. 0.46±0.02 |
| Kumari(2016) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 8.17±1.12 vs. 8.03±1.19 | 7.10±1.16 vs. 6.93±1.08 | 4.84±0.47 vs. 4.80±0.47 | 9 | 3m: 2.43±0.85 vs. 1.33±0.806m: 3.56±1.10 vs. 1.66±0.959m: 3.80±1.18 vs. 1.53±1.04 | 3m: 2.46±1.13 vs. 1.2±1.036m: 3.63±1.40 vs. 1.46±1.509m: 3.76±1.43 vs. 1.36±1.54 | 6m: 1.42±0.44 vs. 0.17±0.129m: 1.51±0.44 vs. 0.12±0.10 |
| Pradeep(2016) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | I: 7.37 ± 0.62II: 7.29 ± 0.66III: 7.29 ± 0.60 | I: 5.37 ± 0.62II: 5.29 ± 0.66III: 5.29 ± 0.60 | I: 5.98 ± 0.35II: 5.96 ± 0.19III: 5.92 ± 0.26 | 9 | 6m: I: 3.03 ± 0.43II: 2.33 ± 0.48III: 1.47 ± 0.506-9m: I: 1.55 ± 0.64II: 1.03 ± 0.51III: 0.44 ± 0.50 | 6m: I: 2.88 ± 0.42 II: 2.33 ± 0.48III: 1.37 ± 0.496-9m: I: 1.40 ± 0.50II: 1.00 ± 0.48III: 0.48 ± 0.50 | 6m: I: 2.83 ± 0.53II: 2.29 ± 1.06III: 0.07 ± 0.266-9m: I: 1.48 ± 0.57II: 1.03 ± 0.19III: 0.03 ± 0.19 |

| Study(year) | Periodontal probe | B-PD(T vs. C) | B-CAL(T vs. C) | B-IBD(T vs. C) | Follow-up (m) | C-PD(T vs. C) | C-CAL(T vs. C) | C-IBD(T vs. C) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Garg(2017) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.36±1.12 vs. 7.23±1.25 vs. 7.63±1.06 | CAL: 8.56±1.22 vs. 8.83±1.11 vs. 8.86±1.07RHAL: 8.26±1.04 vs. 8.43±1.13 vs. 8.36±0.99 | 4.21±0.21 vs. 4.07±0.31 vs. 4.10±0.38 | 9 | 6m: 3.3±0.46 vs. 2.43±0.62 vs. 1.63±0.499m: 4.33±0.54 vs. 3.10±0.75vs. 1.83±0.87 | CAL: 6m: 3.63±0.55 vs. 3.00±0.58 vs. 1.80±0.409m: 4.50±0.73 vs. 3.86±0.43 vs. 2.06±0.52RHAL: 6m: 3.23±0.55 vs. 2.70±0.46 vs. 1.86±0.629m: 3.93±0.73 vs. 3.33±0.54 vs. 2.10±0.48 | 6m: 1.31±0.42 vs. 1.06±0.43 vs. 0.196±0.159m: 1.77±0.39 vs. 1.42±0.44 vs. 0.213±0.16 |
| Kumari(2017) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 6.97±1.44 vs. 7.03±1.38 | 6.90±1.40 vs. 6.94±1.41 | 4.73±0.54 vs. 4.71±0.52 | 9 | 3m: 1.54±1.17 vs. 0.88±0.606m: 2.66±1.43 vs. 1.00±0.939m: 3.84±0.83 vs. 0.91±1.07 | 3m: 2.27±1.07 vs. 1.48±0.976m: 3.61±1.41 vs. 1.91±1.249m: 4.06±1.64 vs. 1.85±1.28 | 6m: 1.44±0.41 vs. 0.14±0.099m: 1.53±0.40 vs. 0.15±0.13 |
| Pradeep(2017) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 6.56±1.38 vs. 6.76±1.22 | 6.13±0.89 vs. 6.13±1.13 | 5.46±0.81 vs. 5.17±0.35 | 9 | 3m: 1.06±0.63 vs. 0.33±0.476m: 2.46±0.97 vs. 1.06±0.909m: 3.53±1.27 vs. 1.50±1.07 | 3m: 1.66±0.60 vs. 0.16±0.376m: 3.7±0.91 vs. 1.16±0.949m: 4.26±1.08 vs. 1.50±1.07 | 6m: 1.90±0.44 vs. 0.09±0.179m: 1.98±0.72 vs. 0.12±0.17 |
| Martande(2017) | UNC-15 periodontal probe, Hu-Friedy, Chicago, IL | 7.53 ± 1.35 vs. 7.70 ± 1.29 vs. 7.63 ± 1.18 | 6.70 ± 1.17 vs. 6.83 ± 1.14 vs. 6.83 ± 1.01 | 4.86 ± 0.56 vs. 4.75 ± 0.50 vs. 4.72 ± 0.47 | 9 | 3m: 2.2±1.19 vs. 1.97±1.14 vs. 1.17±1.646m: 3.08±1.17 vs. 2.97±1.14 vs. 1.55±1.639m: 3.37 ± 1.32 vs. 3.10 ± 1.55 vs. 1.25 ± 1.24 | 3m: 2.24±1.09 vs. 2.1±1.08 vs. 1.2±1.006m: 3.34±1.07 vs. 3.07±1.23 vs. 1.43±1.049m: 3.46 ± 1.47 vs. 3.13 ± 1.56 vs. 1.30 ± 1.51 | 6m: 1.62±0.52 vs. 1.45±0.47 vs. 0.16±0.459m: 1.69 ± 0.34 vs. 1.53 ± 0.41 vs. 0.12 ± 0.10 |

| Study(year) | Periodontal probe | B-PD(T vs. C) | B-CAL(T vs. C) | B-IBD(T vs. C) | Follow-up (m) | C-PD(T vs. C) | C-CAL(T vs. C) | C-IBD(T vs. C) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DILEEP P(2018) | UNC 15 color-coded periodontal probe, Hu-Friedy, Chicago, IL | 7.30 ± 1.17 vs. 6.80 ± 1.21 | 6.23 ± 1.01 vs. 6.06 ± 1.17 | 5.26 ± 0.87 vs. 5.15 ± 0.35 | 12 | 6m: 2.661 ± .844 vs. 1.033 ± 0.76 12m: 3.733 ± 1.284 vs. 1.533 ± 1.074 | 6m: 2.766 ± 1.135 vs. 1.233 ± 0.897 12m: 3.900 ± 1.155 vs. 1.4667 ± 1.074 | 6m: 1.523 ± 0.780 vs. 0.0767 ± 0.19912m: 2.173 ± 0.784 vs. 0.1067 ± 0.199 |

B-PD, baseline value of probing depth; B-CAL, baseline value of clinical attachment loss; B-IBD, baseline value of intrabony defect; C-PD, change value of probing depth; C-CAL, change value of clinical attachment loss; C-IBD, change value of intrabony defect; SMV, simvastatin; ATV, atorvastatin; RSV, rosuvastatin