

APPENDIX

Table A-1 Score chart obtained to calculate the mean new bone volume

| Specimen | Scores | | | | | Total scores |
|-----------------|----------|-----------|-----|--------------------|--------|--------------|
| | New bone | Host bone | PHA | Connective tissues | Others | |
| Rabbit 1 | | | | | | |
| Right mandible | 11 | 67 | 68 | 28 | 1 | |
| (PHA) | 6 | 89 | 31 | 38 | 86 | |
| | 2 | 99 | 22 | 5 | 72 | |
| Total | 19 | 255 | 121 | 71 | 159 | 625 |
| Left mandible | 5 | 32 | - | 66 | 22 | |
| (control) | 4 | 73 | - | 18 | 80 | |
| | 2 | 77 | - | 35 | 36 | |
| Total | 11 | 182 | - | 119 | 138 | 450 |
| Rabbit 2 | | | | | | |
| Right mandible | 3 | 69 | - | 43 | 10 | |
| (control) | 3 | 99 | - | 41 | 82 | |
| | 1 | 54 | - | 48 | 47 | |
| Total | 7 | 222 | - | 132 | 139 | 500 |
| Left mandible | 11 | 76 | 49 | 33 | 6 | |
| (PHA) | 5 | 70 | 12 | 5 | 83 | |
| | 4 | 80 | 39 | 26 | 26 | |
| Total | 20 | 226 | 100 | 64 | 115 | 525 |
| Rabbit 3 | | | | | | |
| Right mandible | 9 | 40 | 2 | 46 | 28 | |
| (PHA) | 5 | 101 | 22 | 25 | 72 | |
| | 2 | 110 | 39 | 35 | 64 | |
| Total | 16 | 251 | 63 | 106 | 164 | 600 |
| Left mandible | 3 | 56 | - | 29 | 37 | |
| (control) | 1 | 61 | - | 33 | 30 | |
| | 1 | 81 | - | 37 | 31 | |
| Total | 5 | 198 | - | 99 | 98 | 400 |
| Rabbit 4 | | | | | | |
| Right mandible | 5 | 67 | - | 69 | 34 | |
| (PHA) | 4 | 77 | 34 | 12 | 48 | |
| | 1 | 129 | 45 | 18 | 32 | |

| | | | | | | |
|--------------------------|-------------|-----------------|----------------|----------------|----------------|-----|
| Total | 10 | 273 | 79 | 99 | 114 | 575 |
| Left mandible (control) | 2 1 - | 72 78 61 | - - - | 70 48 33 | 6 48 31 | |
| Total | 3 | 211 | - | 151 | 85 | 450 |
| Rabbit 5 | | | | | | |
| Right mandible (control) | 2 2 1 | 64 62 123 | - - - | 56 50 78 | 28 36 48 | |
| Total | 5 | 249 | - | 184 | 112 | 550 |
| Left mandible (PHA) | 5 3 1 | 86 110 83 | 24 30 40 | 33 20 24 | 52 62 27 | |
| Total | 9 | 279 | 94 | 77 | 141 | 600 |
| Rabbit 6 | | | | | | |
| Right mandible (PHA) | 2 2 1 | 49 66 52 | 12 28 30 | 54 13 19 | 33 91 48 | |
| Total | 5 | 167 | 70 | 86 | 172 | 500 |
| Left mandible (control) | - 2 - | 53 70 76 | - - - | 48 20 57 | 24 58 42 | |
| Total | 2 | 199 | - | 125 | 124 | 450 |
| Rabbit 7 | | | | | | |
| Right mandible (control) | - - - | 61 75 85 | - - - | 36 68 67 | 53 32 23 | |
| Total | - | 221 | - | 171 | 108 | 500 |
| Left mandible (PHA) | 9 - - | 42 39 78 | 10 21 36 | 39 14 30 | 50 51 31 | |
| Total | 9 | 159 | 67 | 83 | 132 | 450 |
| Rabbit 8 | | | | | | |
| Right mandible (control) | - - - | 57 74 71 | - - - | 56 42 52 | 37 34 52 | |

| | | | | | | |
|--------------------------|-------------|------------------|----------------|-----------------|----------------|-----|
| Total | - | 202 | - | 150 | 123 | 475 |
| Left mandible (PHA) | 1 1 1 | 61 80 88 | 15 28 27 | 27 6 23 | 46 60 36 | |
| Total | 3 | 229 | 70 | 56 | 142 | 500 |
| Rabbit 9 | | | | | | |
| Right mandible (control) | 1 - 1 | 82 137 107 | - - - | 79 44 68 | 38 44 49 | |
| Total | 2 | 326 | - | 191 | 131 | 650 |
| Left mandible (PHA) | 5 2 3 | 97 68 81 | 17 37 67 | 66 11 17 | 65 57 32 | |
| Total | 10 | 246 | 121 | 94 | 154 | 625 |
| Rabbit 10 | | | | | | |
| Right mandible (control) | 1 - - | 176 85 105 | - - - | 109 64 52 | 64 26 18 | |
| Total | 1 | 366 | - | 225 | 108 | 700 |
| Left mandible (PHA) | 2 3 1 | 98 128 90 | 24 44 32 | 48 32 21 | 78 43 31 | |
| Total | 6 | 316 | 100 | 101 | 152 | 675 |
| Rabbit 11 | | | | | | |
| Right mandible (PHA) | 2 2 3 | 68 112 136 | 9 18 33 | 41 46 47 | 80 72 31 | |
| Total | 7 | 316 | 60 | 134 | 183 | 700 |
| Left mandible (control) | 1 1 - | 127 55 139 | - - - | 65 48 38 | 57 46 48 | |
| Total | 2 | 321 | - | 151 | 151 | 625 |
| Rabbit 12 | | | | | | |
| Right mandible (PHA) | 4 - 1 | 108 101 73 | 15 48 14 | 63 59 16 | 60 42 21 | |

| | | | | | | |
|-------------------------------|---|-----|----|-----|-----|-----|
| | | | | | | |
| Total | 5 | 282 | 77 | 138 | 123 | 625 |
| Left mandible (control) | 1 | 111 | - | 59 | 79 | |
| | 1 | 84 | - | 79 | 36 | |
| | 1 | 87 | - | 51 | 86 | |
| Total | 3 | 282 | - | 189 | 201 | 675 |

Table A-2 4% buffered formalsaline

| | |
|--|----------|
| 20% paraformaldehyde solution | 200 ml |
| Phosphate buffer solution (PBS) (pH 7.4) | 1000 ml |
| | |
| <u>PBS</u> | |
| NaCl | 8.1816 g |
| KCl | 3.7280 g |
| Na ₂ HPO ₄ | 6.3882 g |
| KH ₂ PO ₄ | 3.4023 g |



Add 1000 ml of double distilled water (pH 7.4)