Table 1: base-line details of the subjects

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| variables | G11 | G12 | G21 | G22 |
| Gender |  |  |  |  |
| Female | 10(41.67%) | 13(52.00%) | 17(51.52%) | 14(42.42%) |
| Male | 14(58.33%) | 12(48.00%) | 16(48.48%) | 19(57.57%) |
| Age,y,mean  (standard deviation) | 12.4 (0.6) | 12.9 (0.6) | 13.1(0.8) | 11.9(0.5) |
| Tooth | 24 | 25 | 33 | 33 |
| Maxillary Incisor teeth | 21 | 22 | 32 | 30 |
| Maxillary lateral Incisor teeth | 2 | 2 | 1 | 2 |
| Maxillary Canine teeth | 0 | 1 | 0 | 0 |
| Mandibular Incisor teeth | 0 | 0 | 0 | 1 |
| Mandibular lateral Incisor teeth | 0 | 1 | 0 | 0 |
| Mandibular Canine teeth | 0 | 0 | 0 | 0 |

Table 2: The clinical and radiological outcome in the first year in four groups

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | G11 | G12 | G21 | G22 |
| Success | 16 | 22 | 21 | 20 |
| Periodontal healing | 12 | 16 | 19 | 17 |
| Root resorption less than 2 cm | 3 | 3 | 1 | 1 |
| Lossen at the degree I | 1 | 3 | 1 | 2 |
| Fail | 6 | 1 | 9 | 12 |
| Pain | 1 | 0 | 2 | 1 |
| Lossen at the degree II or III | 3 | 1 | 4 | 6 |
| Radiolucent shadow | 2 | 0 | 2 | 2 |
| Internal root resorption | 0 | 0 | 1 | 3 |

Table 3: Varies of root length at in the first year in four groups

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Variable | *S* | *χ2* | *P* |
| baseline |  |  |  |  |
| G11 | 1.82±0.6 | 0.26 |  |  |
| G12 | 1.75±0.5 | 0.15 |  |  |
| G21 | 2.55±0.4 | 0.21 |  |  |
| G22 | 2.38±0.8 | 0.26 | 2.05 | 0.020 |