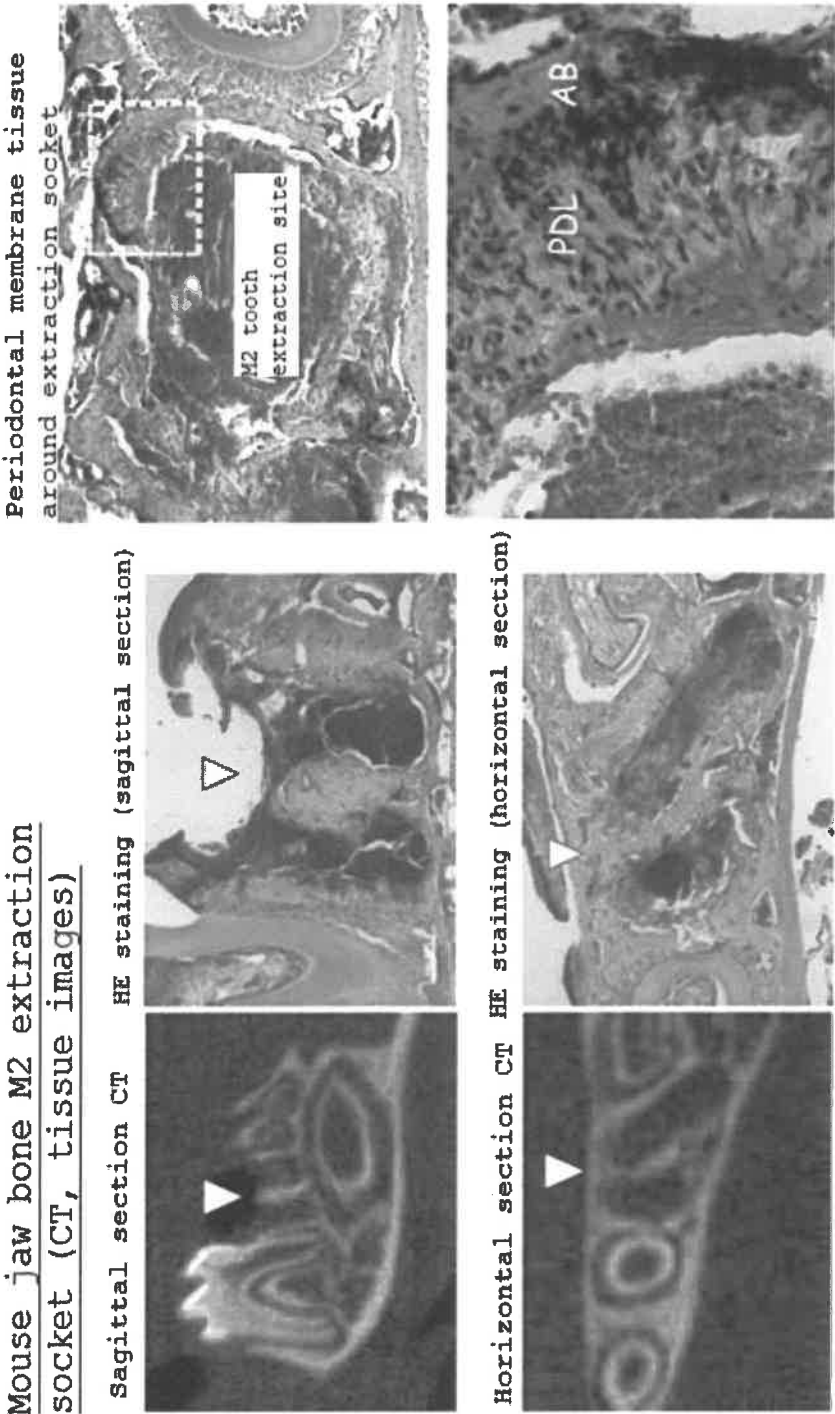
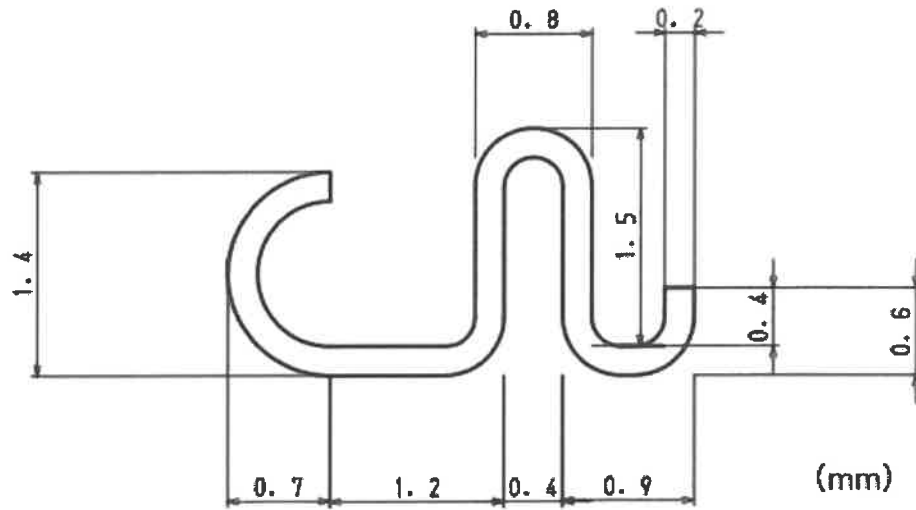


DRAWINGS

[Figure 1]

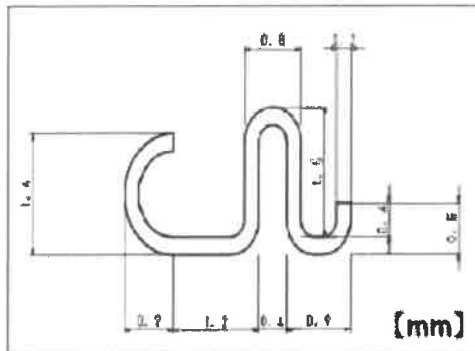


[Figure 2]

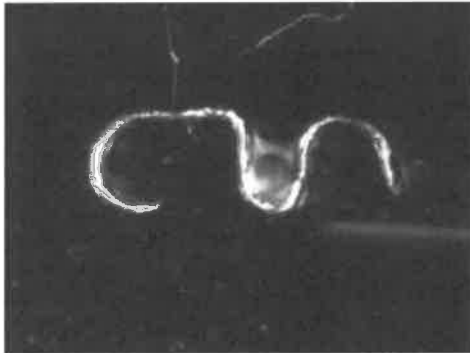
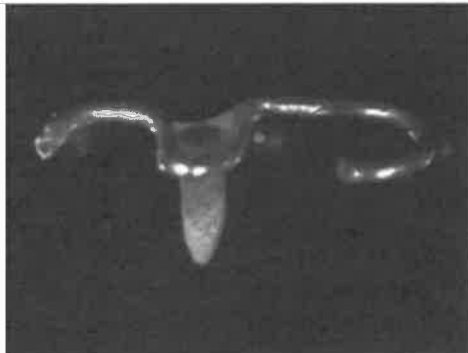


[Figure 3]

Fixation wire design

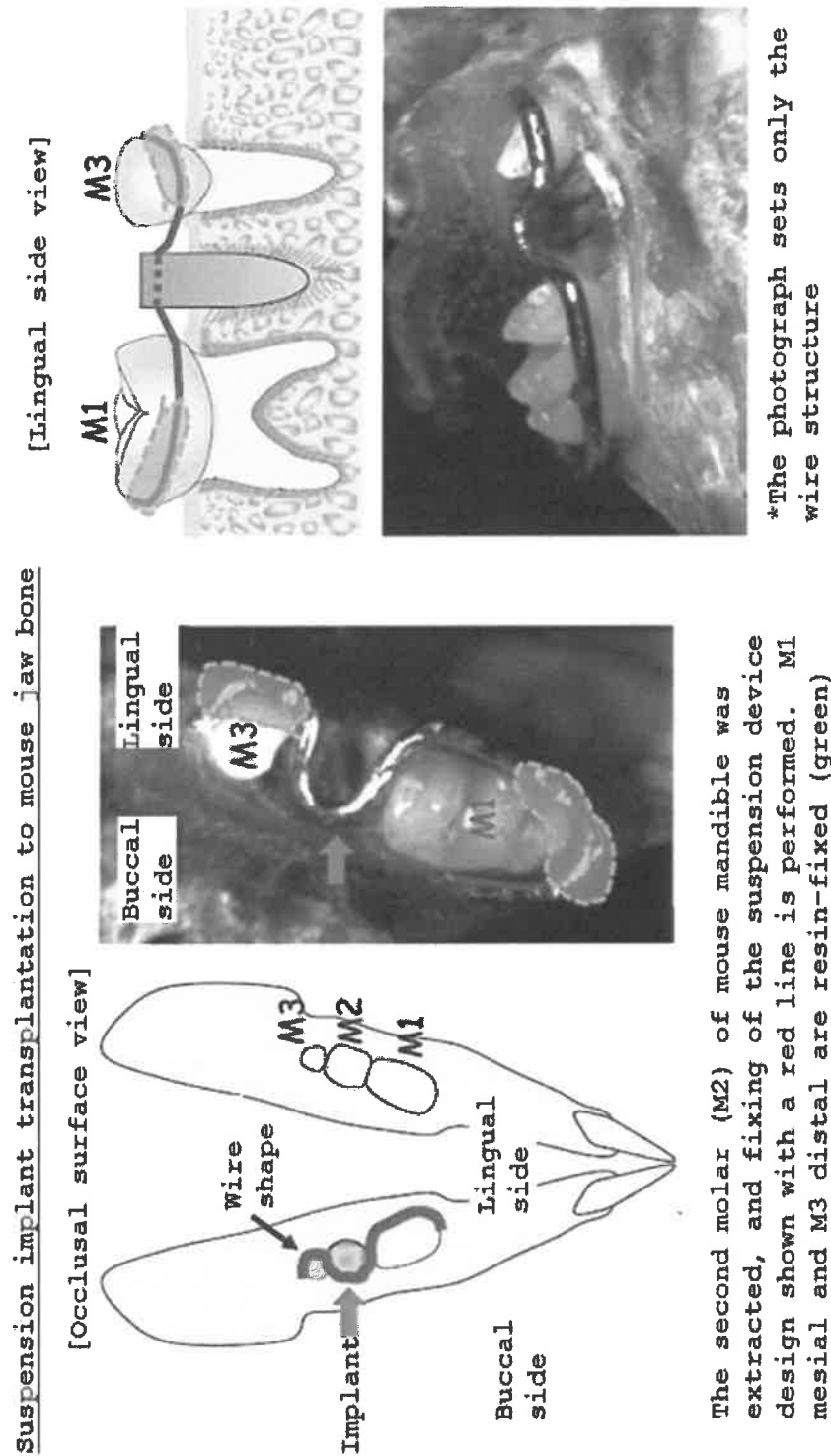


HA implant

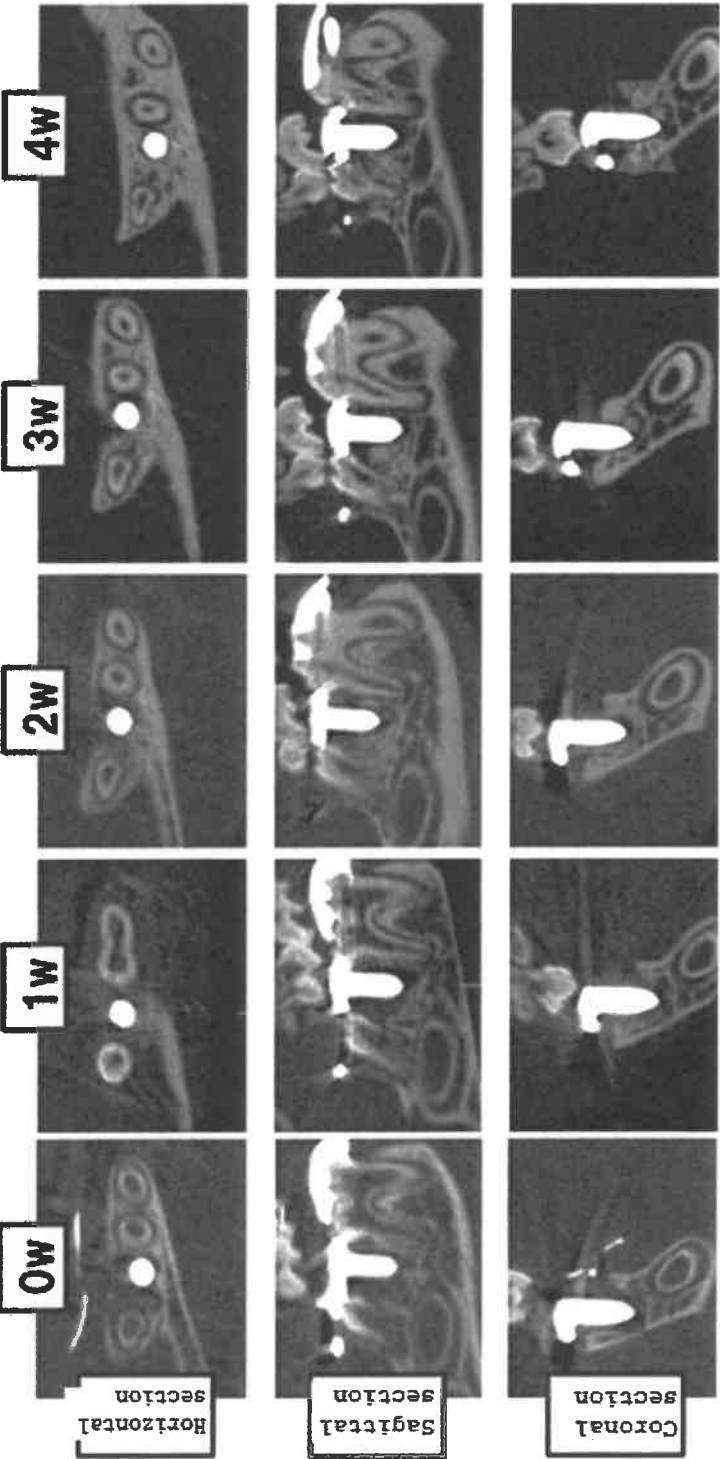
Implant fixation
(occlusal surface)Implant fixation
(buccal side)

Implant diameter: 0.4mm
Wire diameter: 0.2mm

[Figure 4]

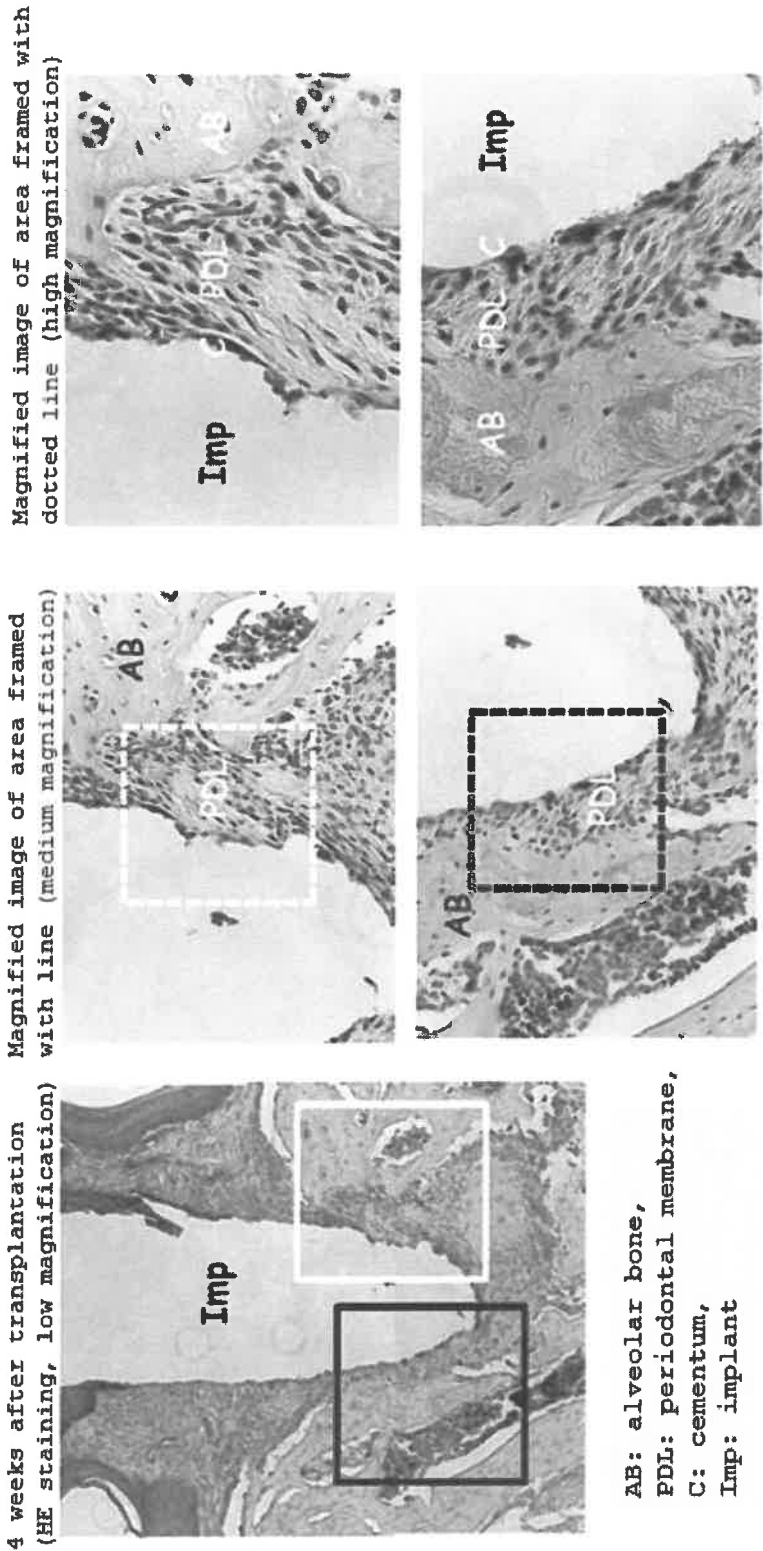


[Figure 5]

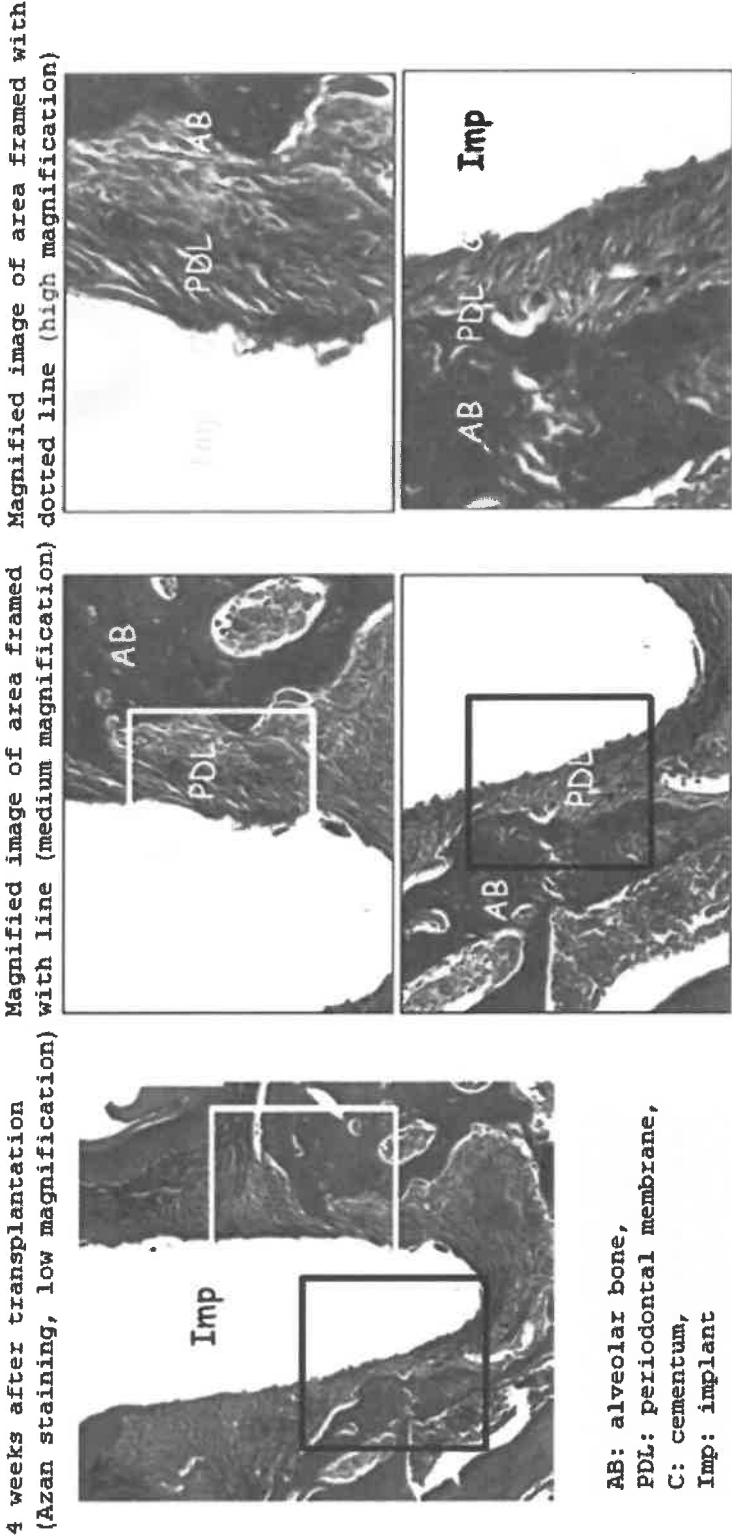


Periodontal space is confirmed around the suspension fixed transplantation implant

[Figure 6]

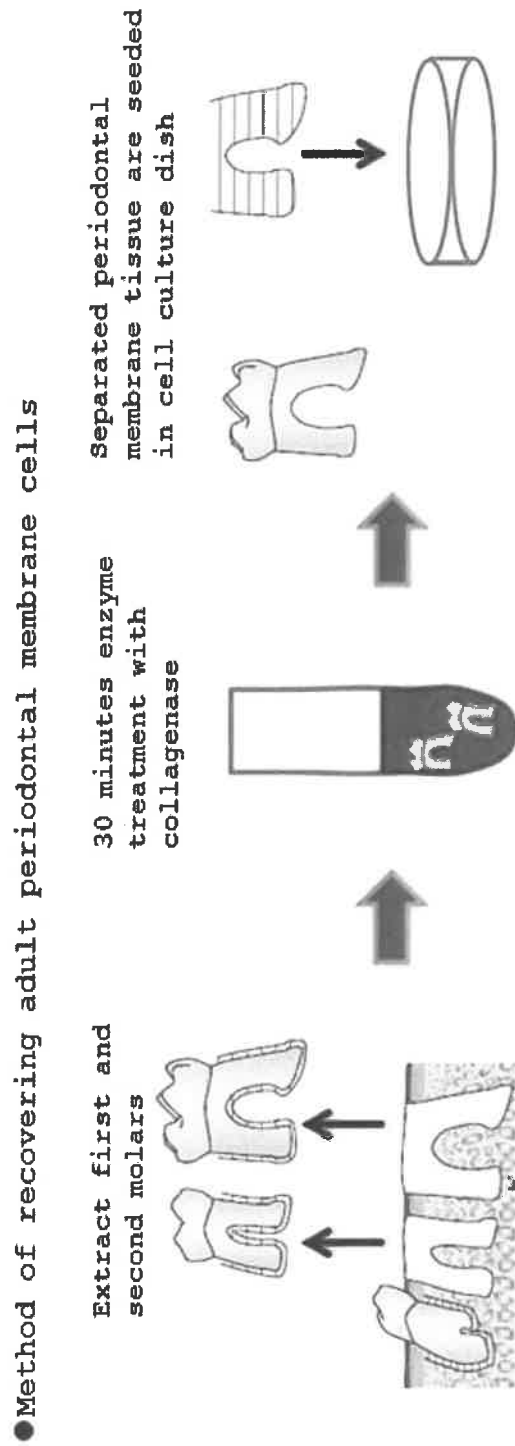


[Figure 7]

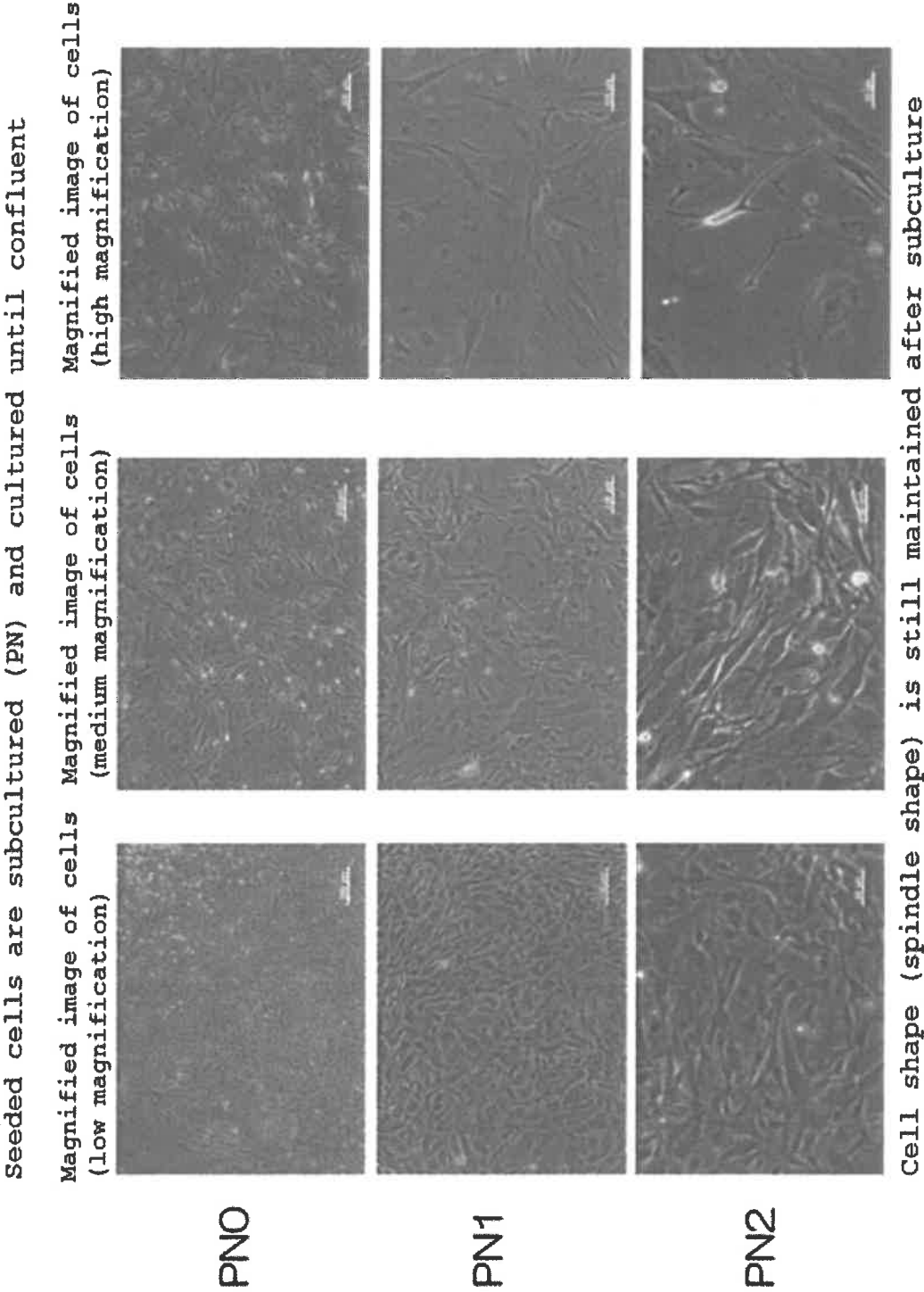


Periodontium with an appropriate run of fibers composed of the cementum, the periodontal membrane, and the alveolar bone was seen around the suspension fixed transplantation implant

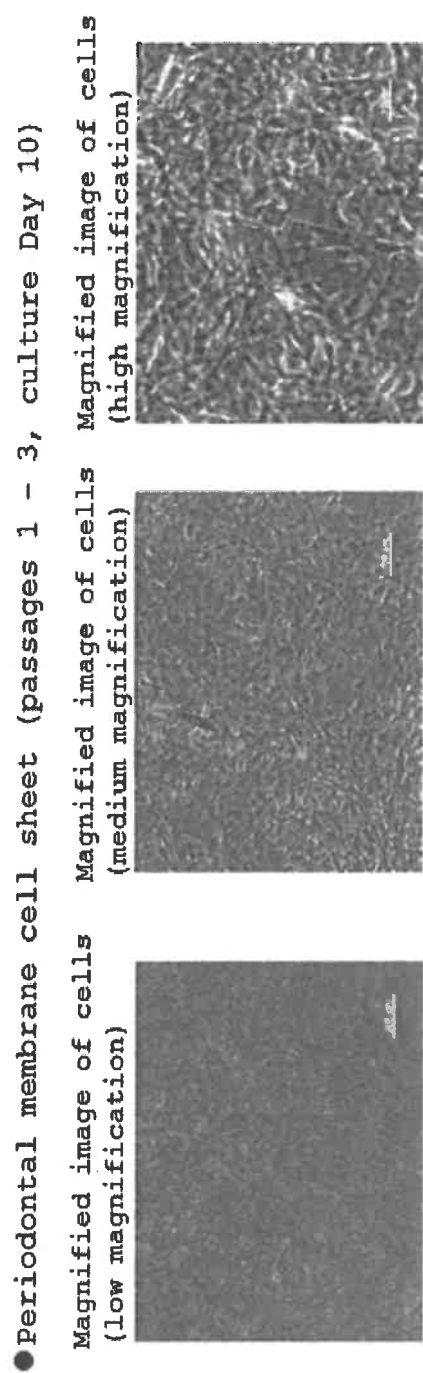
[Figure 8]



[Figure 9]

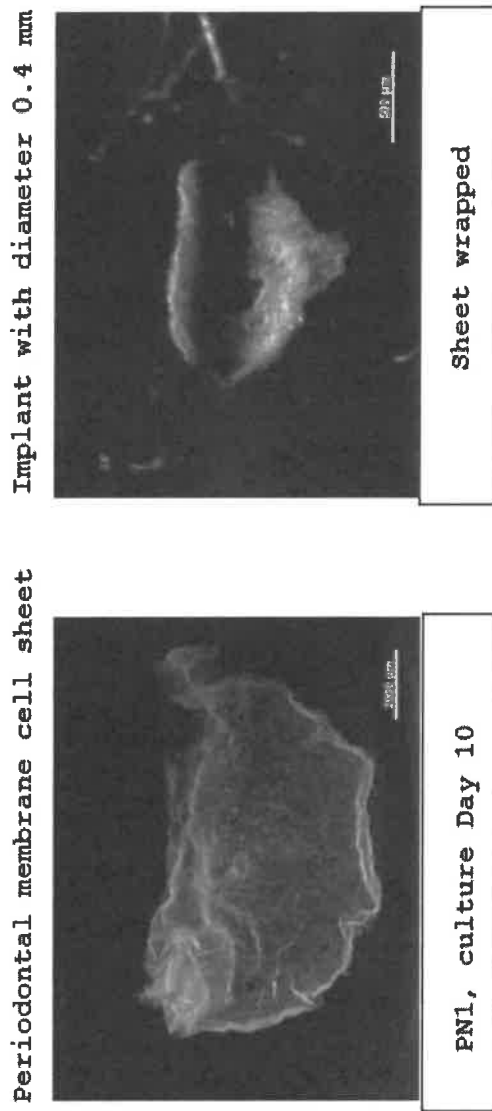


[Figure 10]



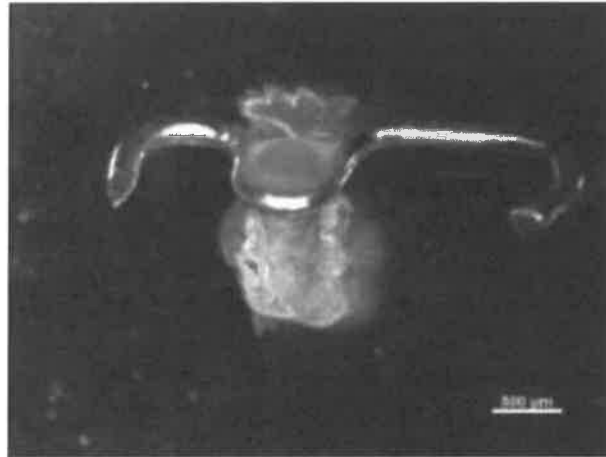
[Figure 11]

● Implant with wrapped periodontal membrane cell sheet

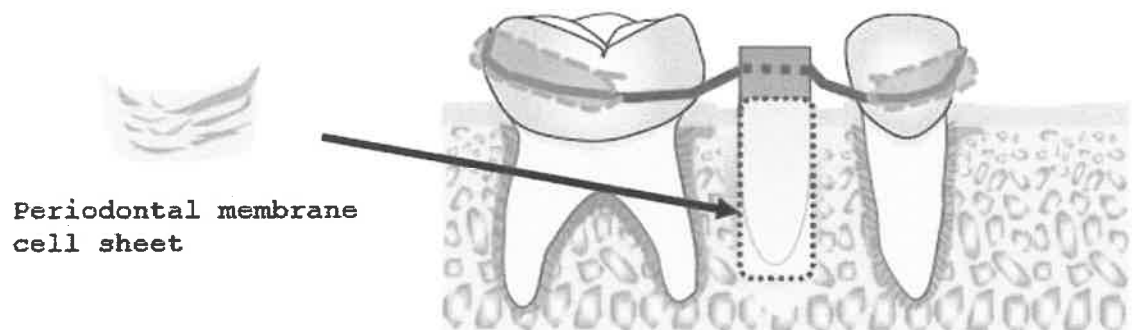


[Figure 12]

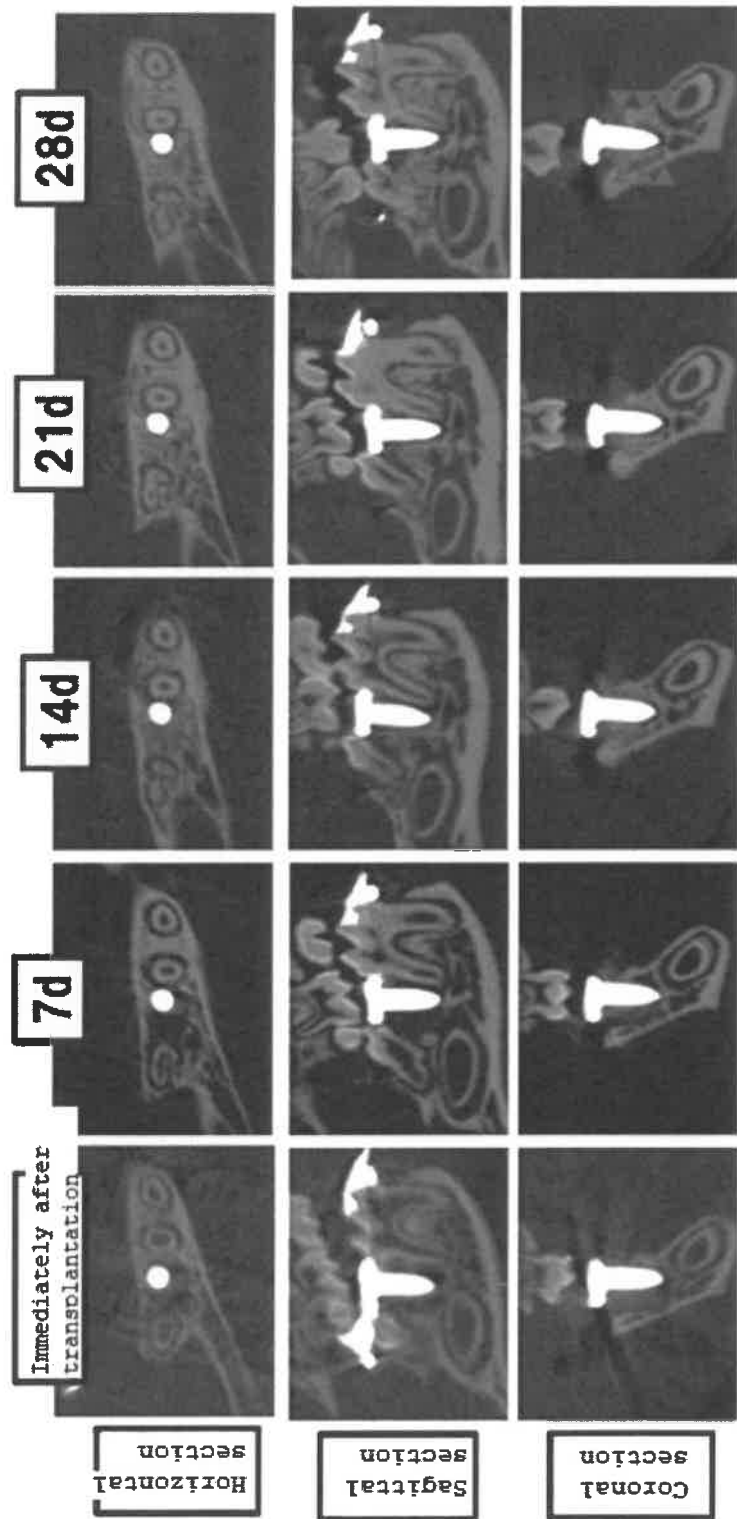
● Suspension fixed implant with cell sheet



● Schematic diagram of suspension fixed implant procedure

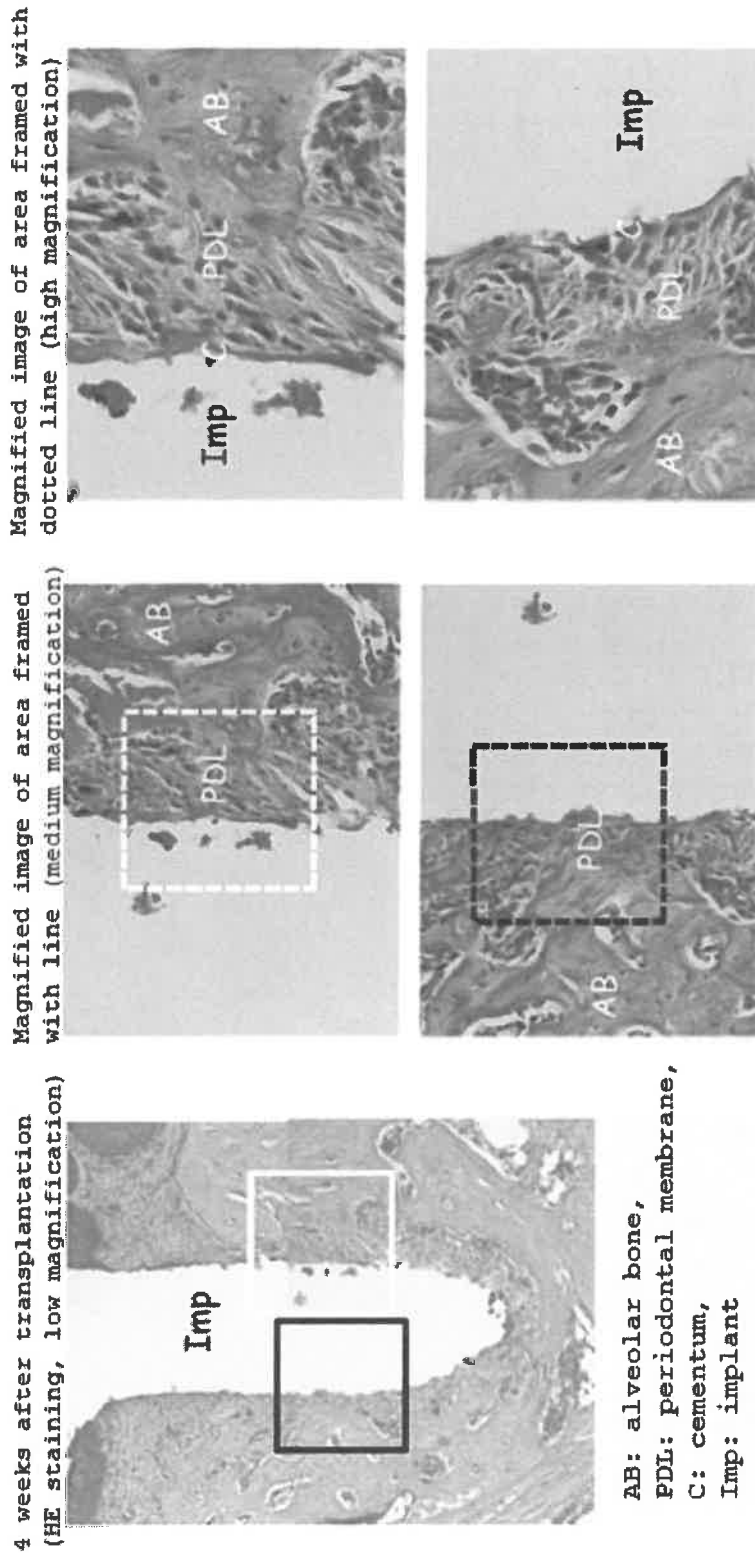


[Figure 13]



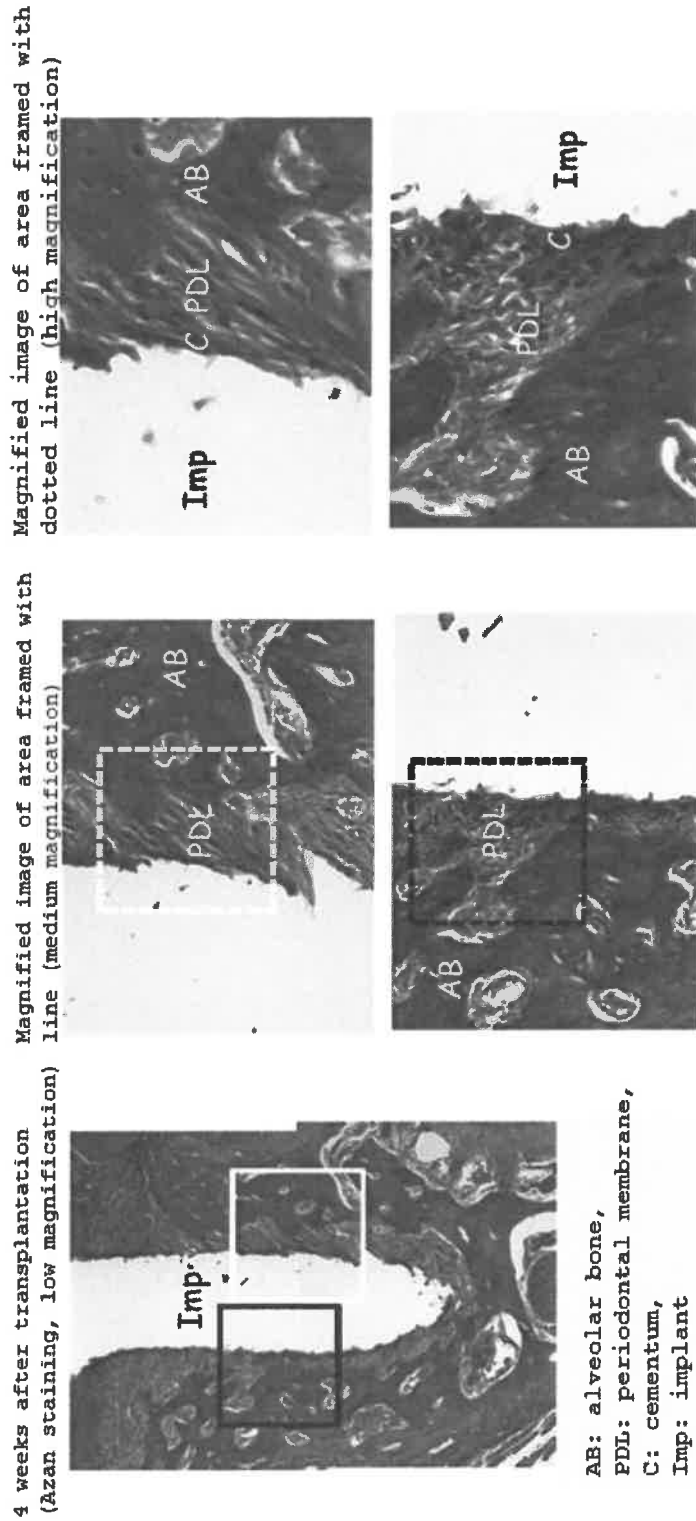
Periodontal space is confirmed around suspension fixed transplantation implant

[Figure 14]

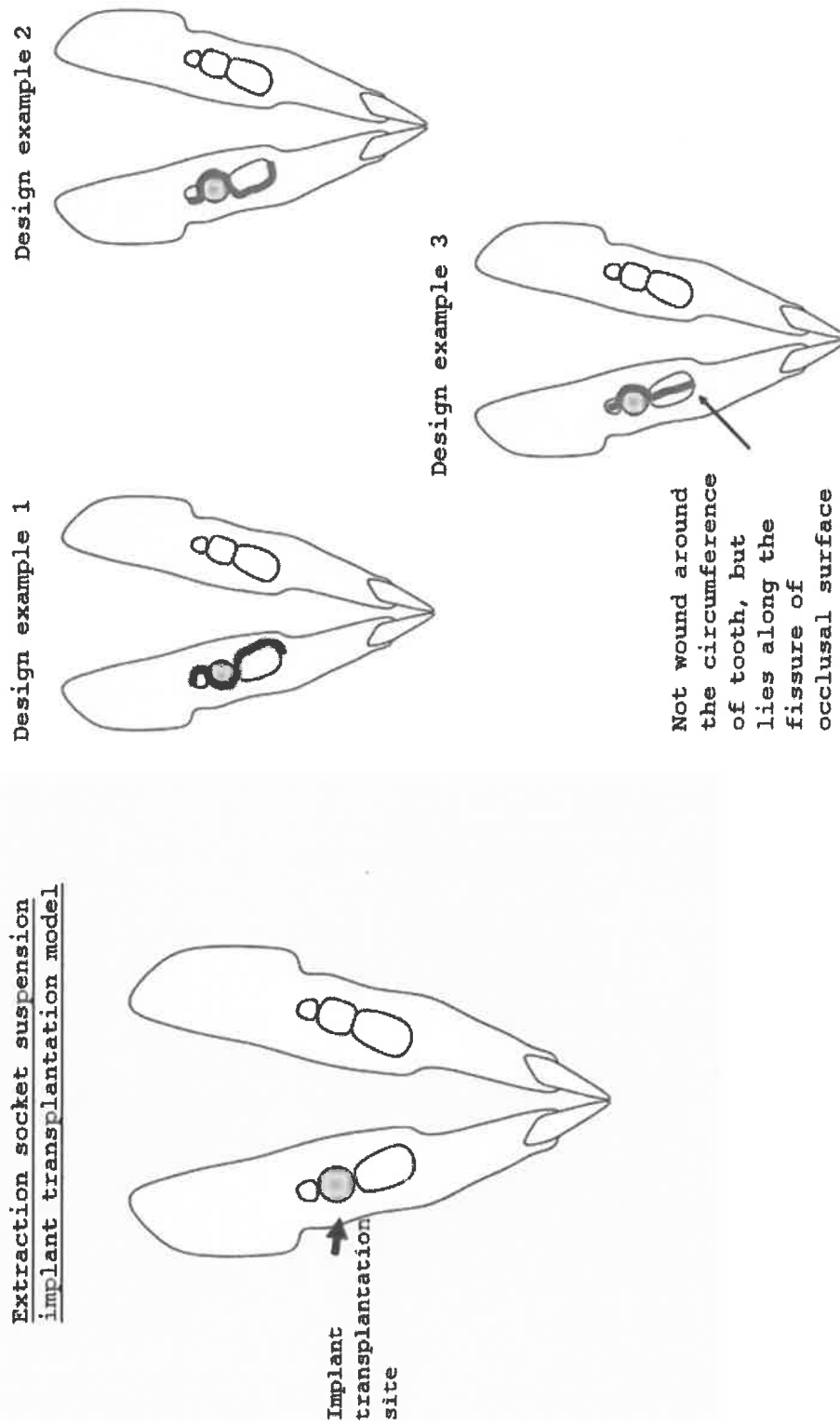


Periodontium with an appropriate run of fibers composed of the cementum, the periodontal membrane, and the alveolar bone was seen around the suspension fixed transplantation implant

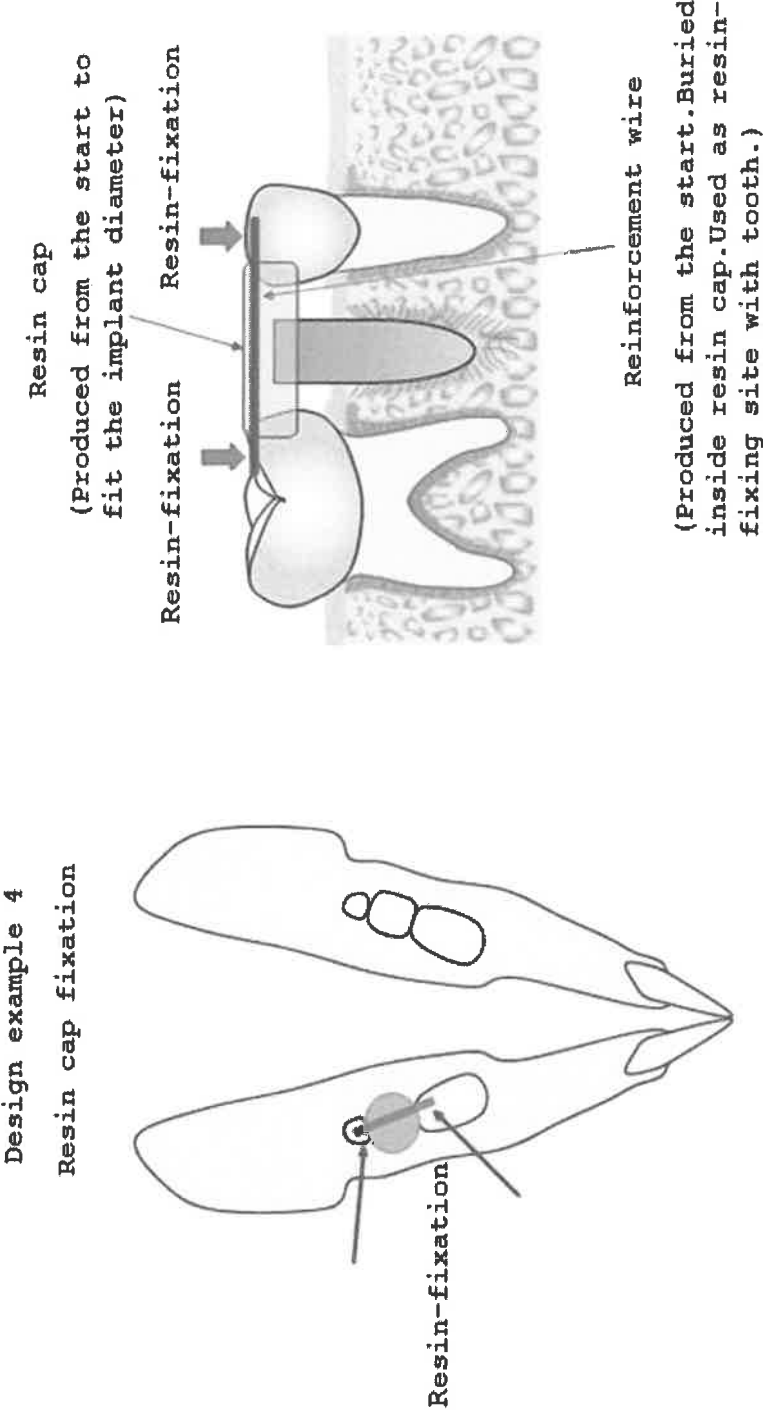
[Figure 15]



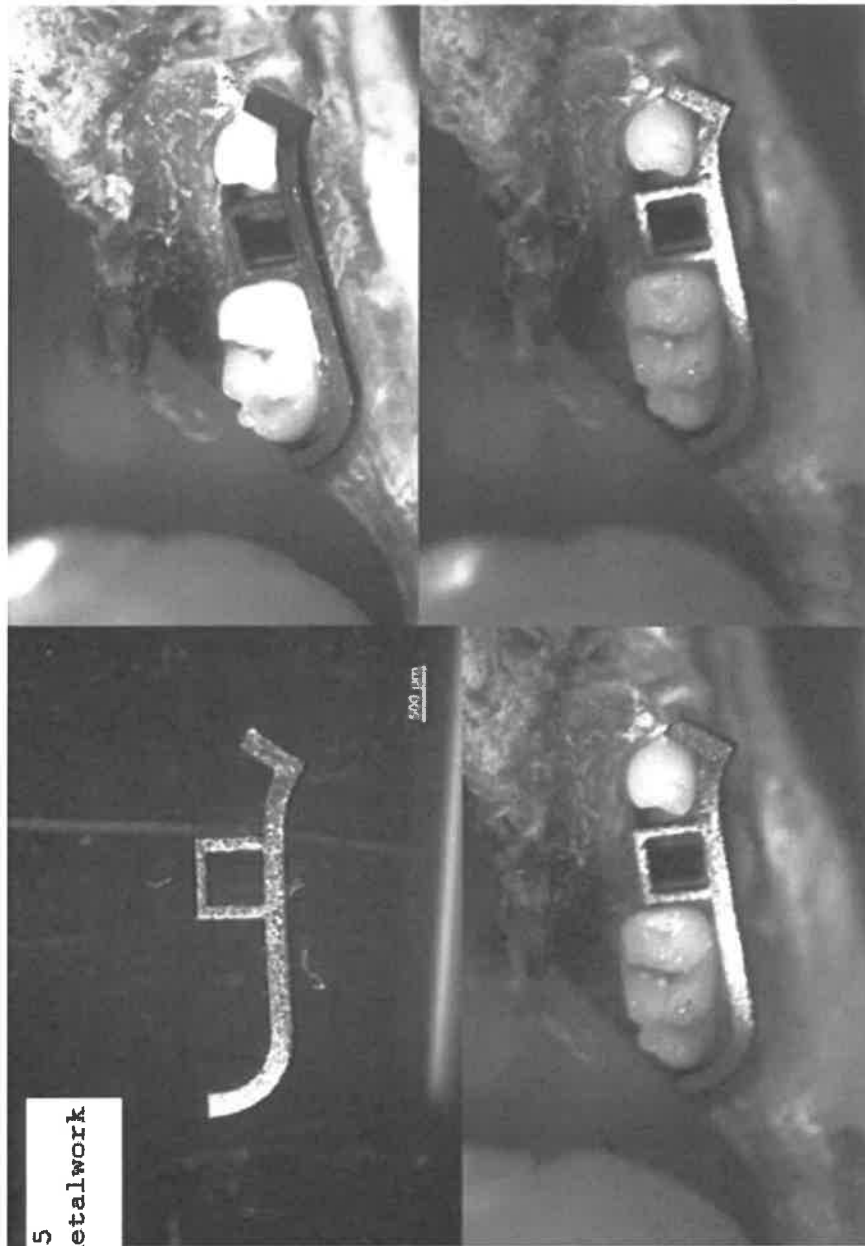
[Figure 16]



[Figure 17]

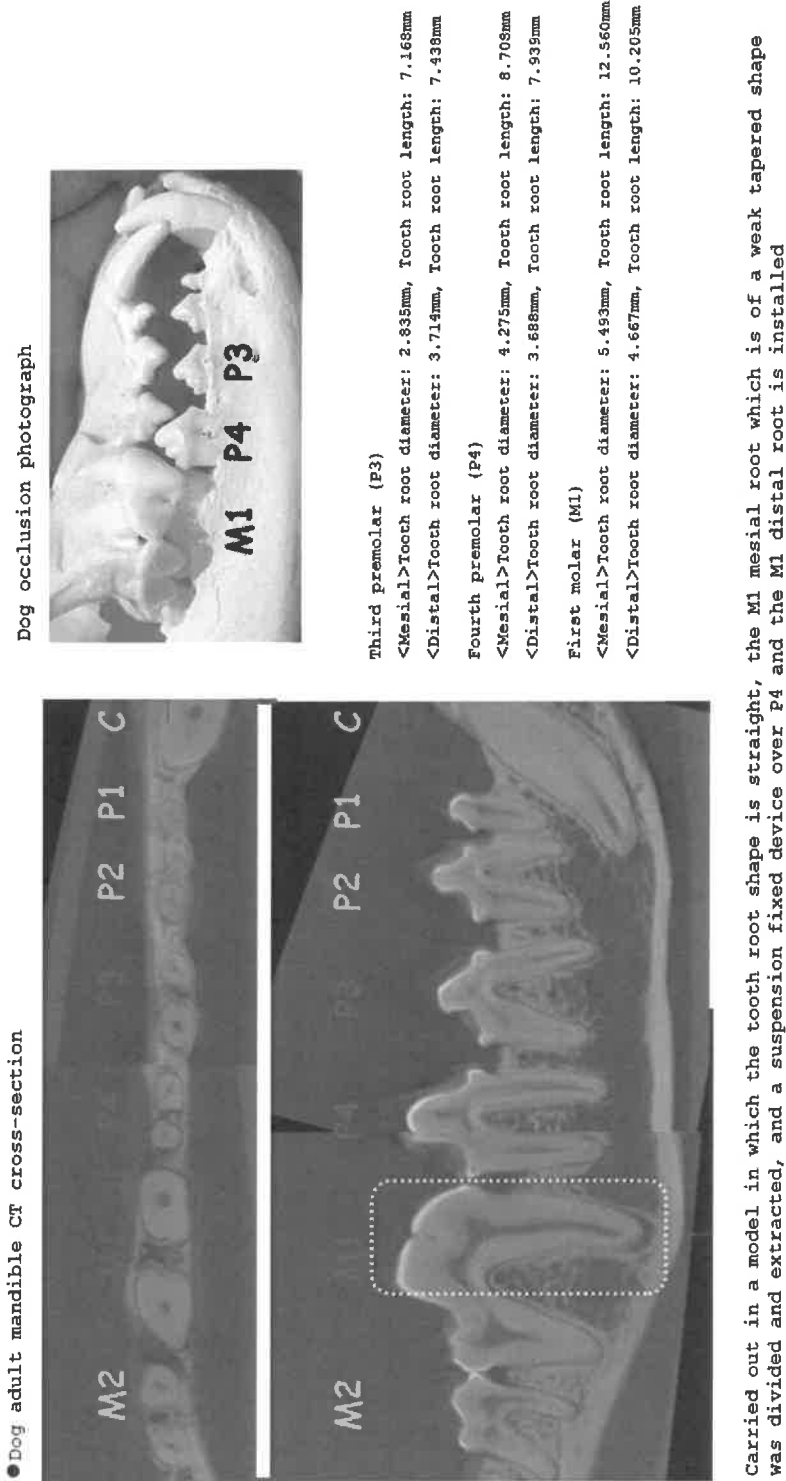


[Figure 18]



Design example 5
Production of metalwork

[Figure 19]

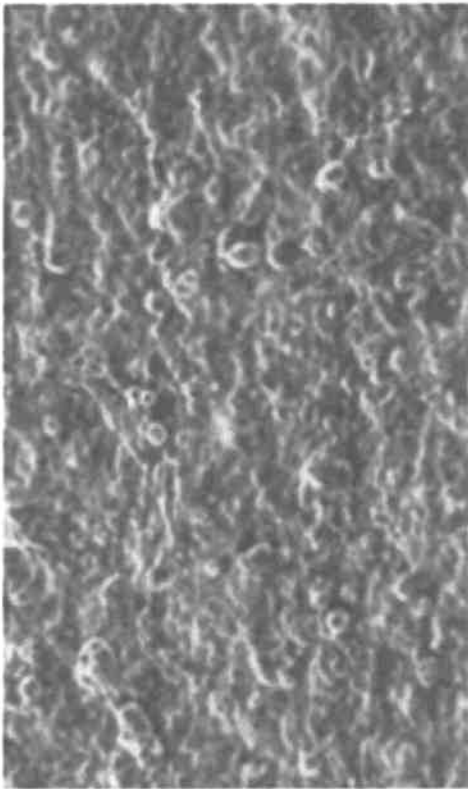


[Figure 20]

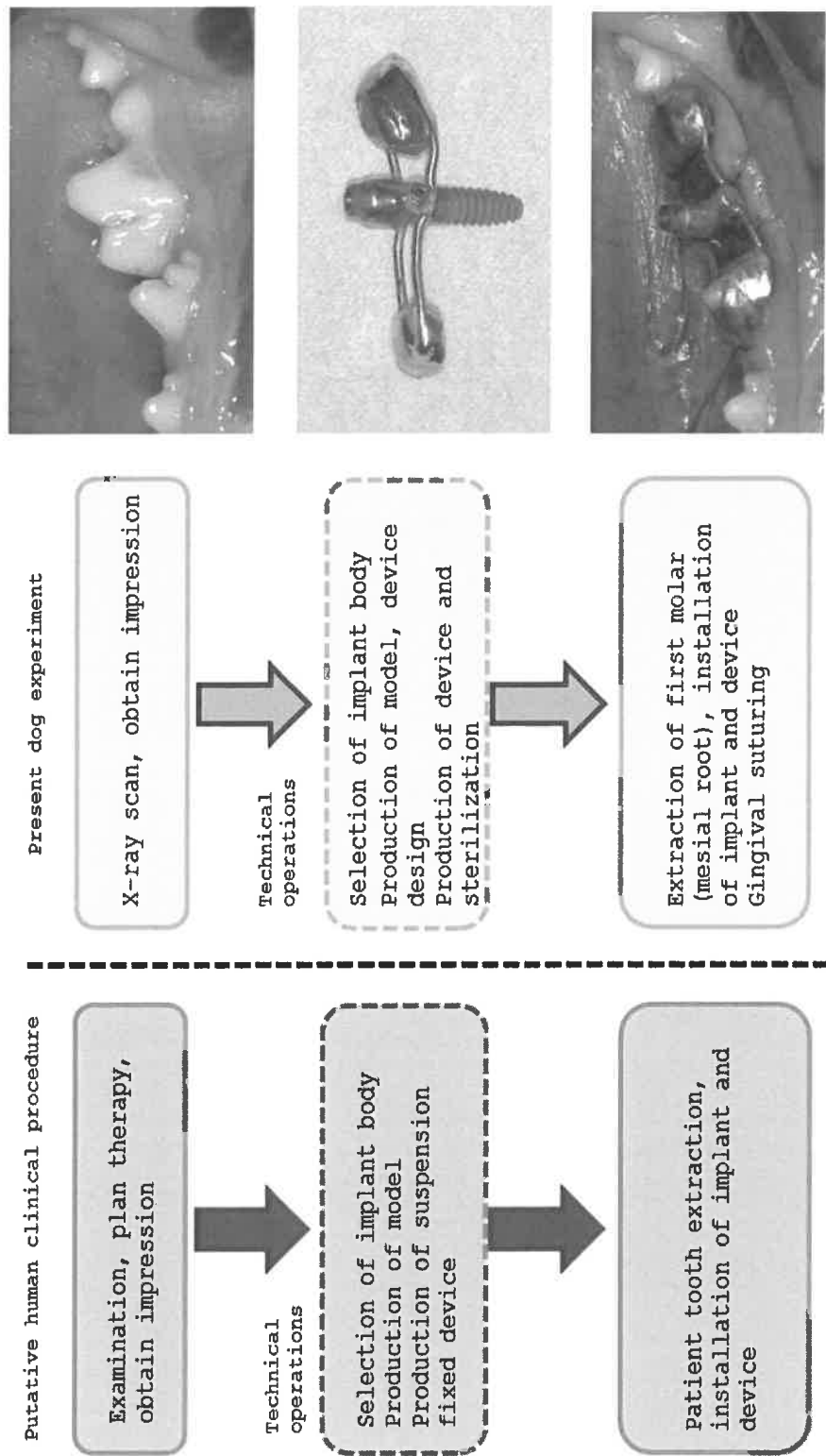
● POI-EX FINATITE



● HA-coated implant surface



[Figure 21]

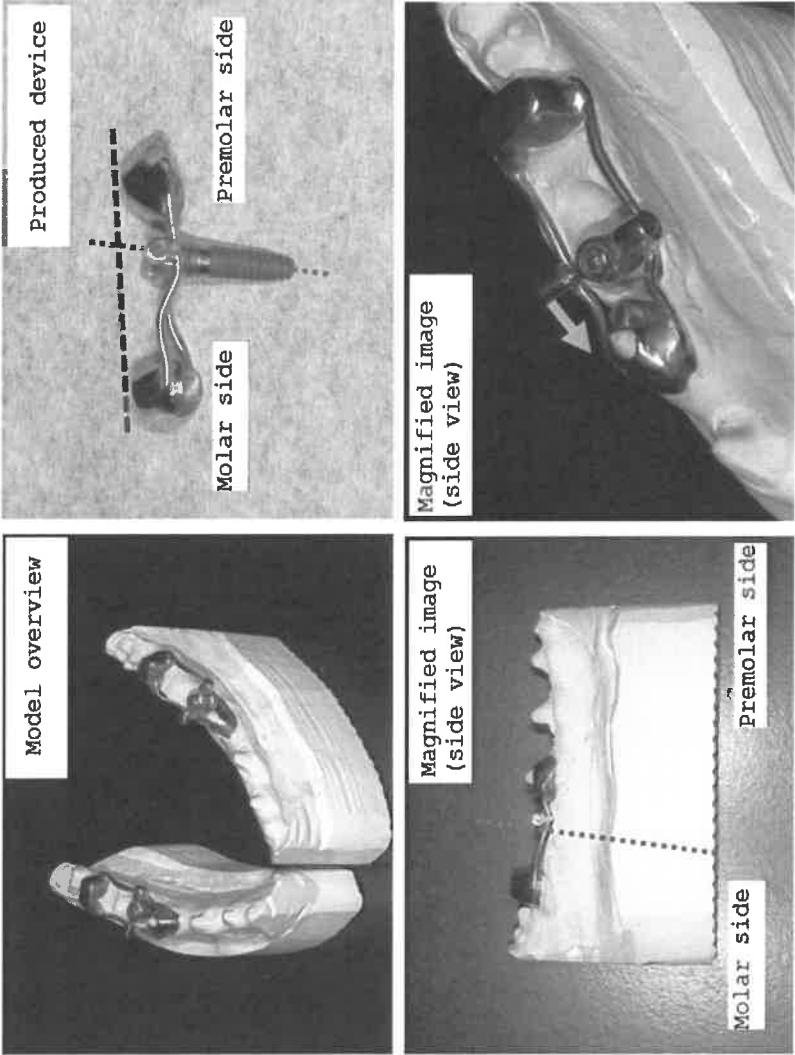


[Figure 22]

HA implant Materials used

①FINETITE Tapered type ϕ 3.4mm, Length 12mm (HAC34-12TP MF)

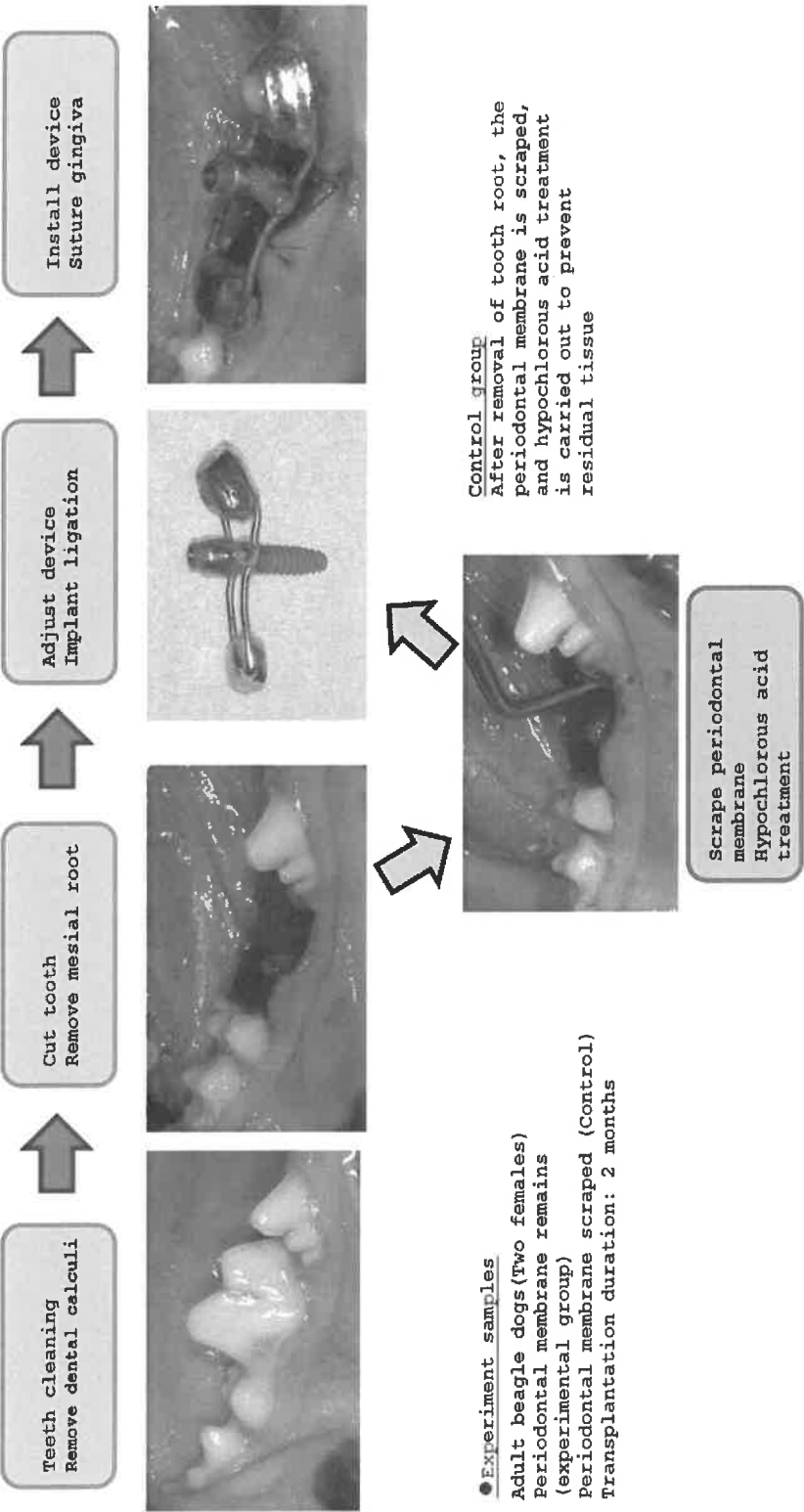
②Post abutment standard type (Post AB EX 34-1.0S)



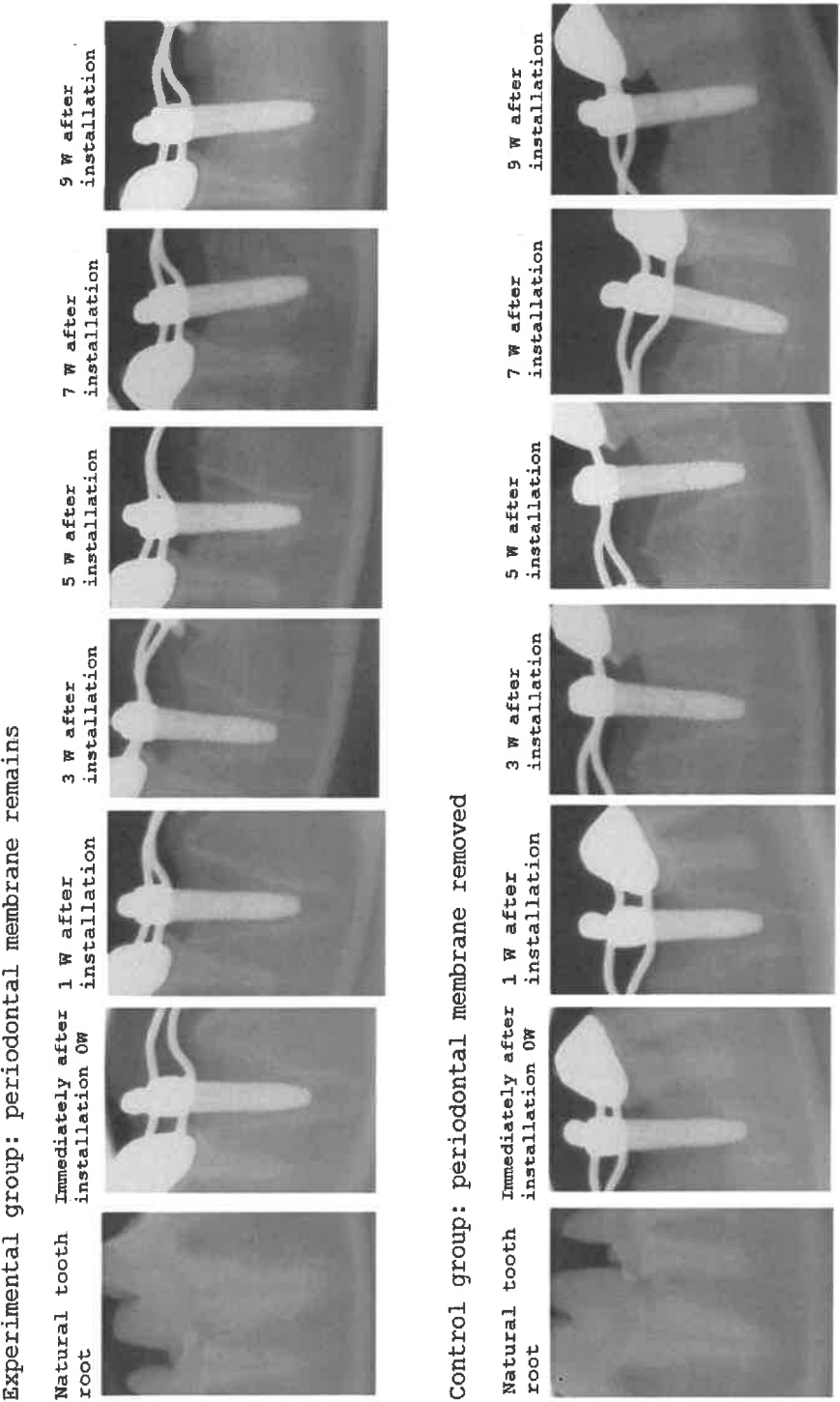
[Cautions on production]

- The insertion axis of the implant is to be a mesiodistal axis such that the head comes on the P4 premolar side and the tooth root side comes on the molar side (vertical dotted line in top right picture).
- The height of the implant abutment is to be set low. Select a short abutment to make it shorter than adjacent teeth so that not too much occlusion is applied (horizontal dotted line in top right picture).
- The initial position of the buccal and lingual sides of the implant against the extraction socket is to be set towards P4. The mesiodistal position is to be brought 1 mm to the mesial side (arrow in bottom right picture)
- The implantation depth of the implant is to be so that it is sufficiently buried in the alveolar bone

[Figure 23]

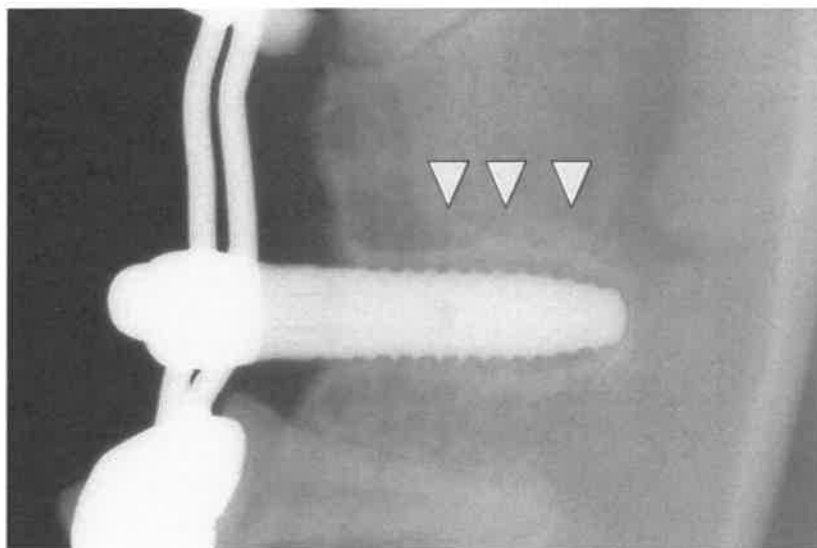


[Figure 24]



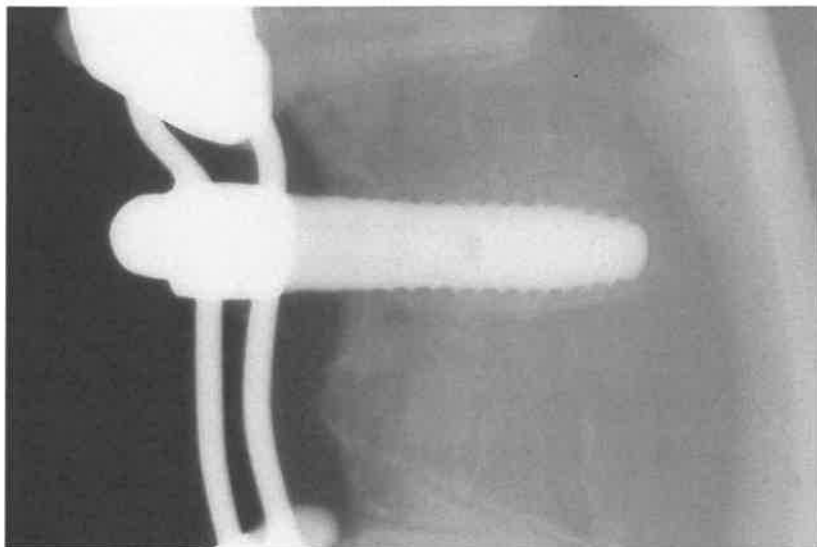
[Figure 25]

Experimental group:
periodontal membrane remains



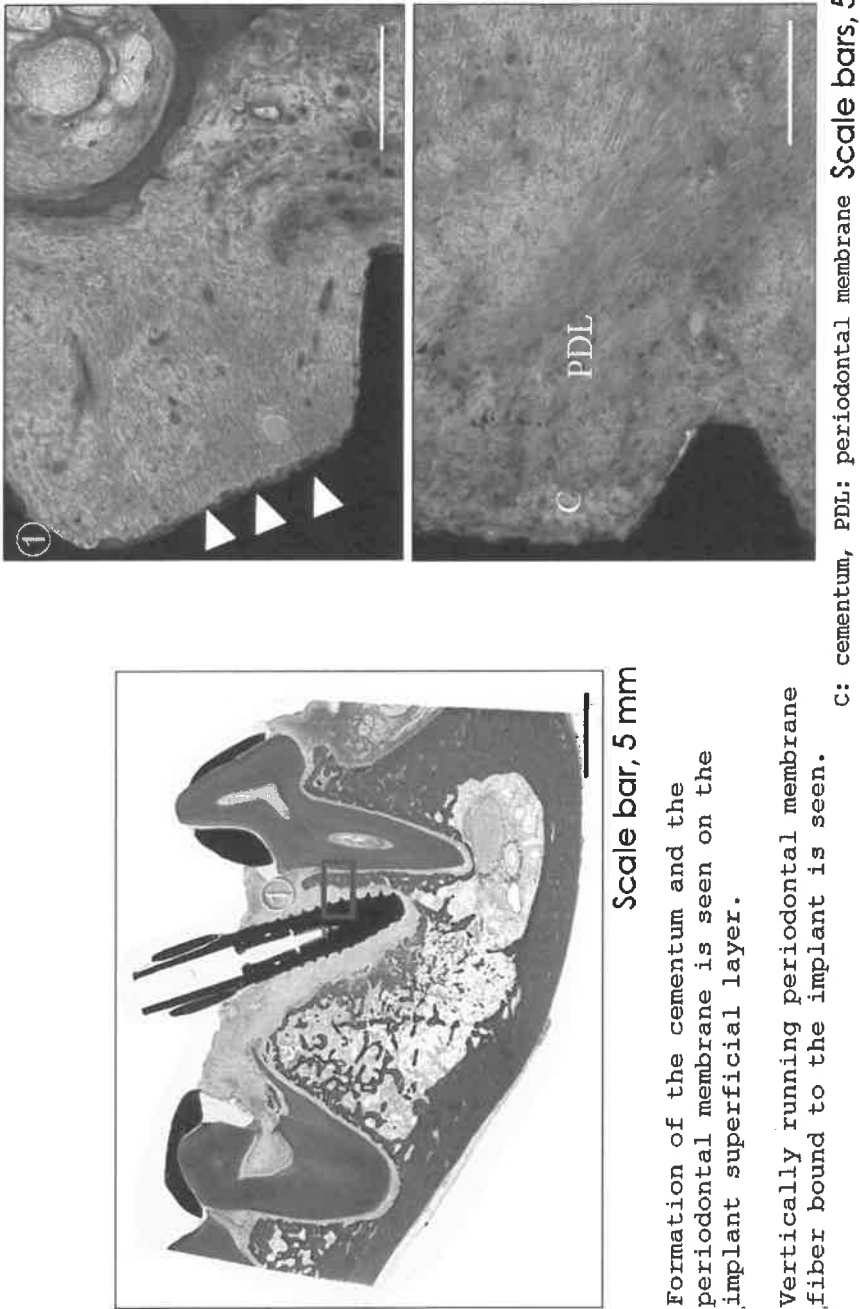
Periodontal space is confirmed
on the boundary between the
implant and bone.

Control group:
periodontal membrane removed

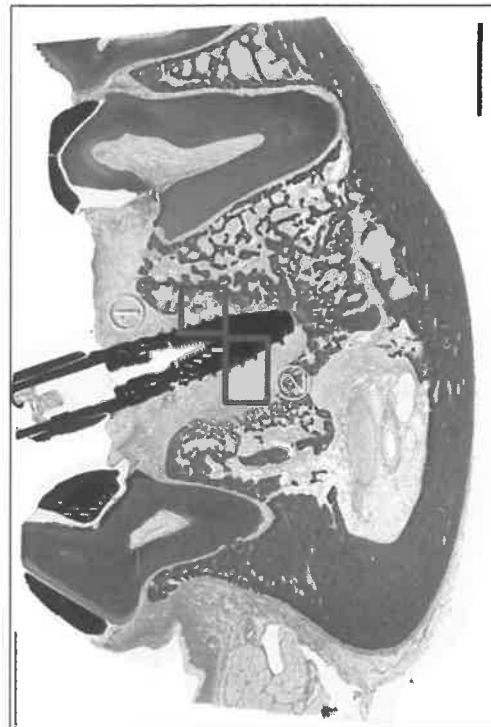
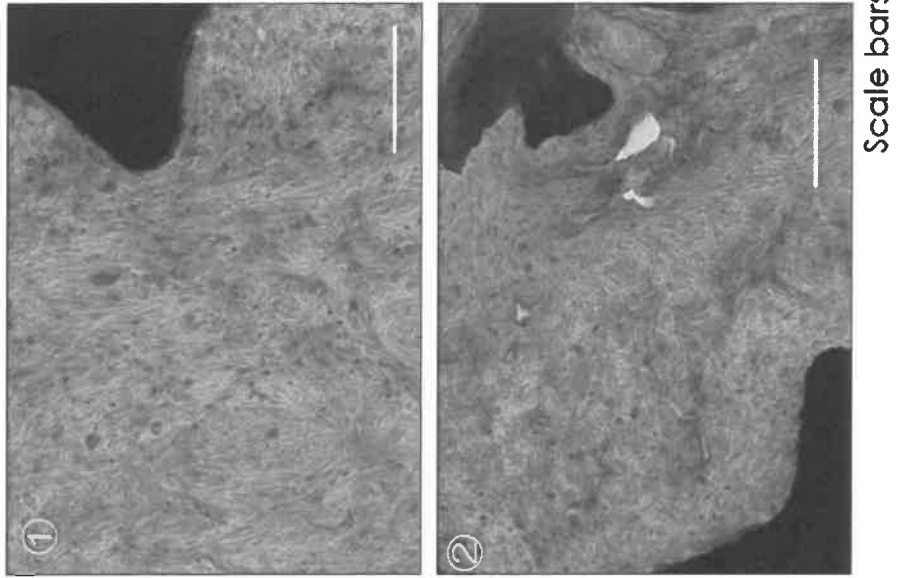


Periodontal space cannot be
confirmed.

[Figure 26]



[Figure 27]



Binding of the periodontal membrane fiber and the implant is not seen. The run of fibers is the same direction (parallel) as the implant long axis.

[Figure 28]

