

Single tooth implant following ridge preservation with AARD concept — a case report

吳尚恆 醫師



This 52-year-old female patient with good health has adequate occlusal supports and canine guidance on both sides.



The initial chief complaint was the biting pain from upper left 2nd premolar, which had been previously endodontic-treated and post/crown restored.

There was also a periapical lesion and distal root caries found on x-ray.



After the crown/post removed, a deep decay was noted and a crack line was obviously seen on the canal wall, thus extraction was recommended by the endodontist



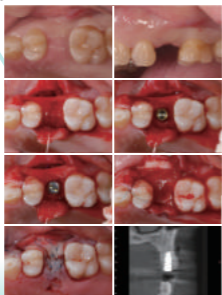
Ridge preservation with ABBM grafts and Terudermis® after tooth removal



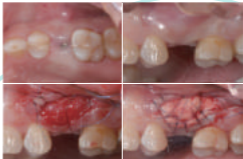
4 months following ridge preservation, diagnostic wax-up was made to ascertain the final image and 3-line diagnosis system was used with CBCT to determine the implant position for surgical stent.



A $\phi 3,8 \times 9,5$ mm Xive® implant was inserted in the proposed site and covered by gingival former (GH2). Releasing incision was made to allow tension-free closure after GBR with FDBA and collagen membrane.



3 months after the implant placement, BPF technique was applied to regain the width of immobile keratinized mucosa.



Provisional crown, by which the cervical line and interdental papilla were shaped at this phase, was delivered 1 month after BPF operation.



Final Impression with the copy model of subgingival contour of the provisional crown.



Delivery of the friction-retained crown



With friction retention system, the supra-structure can be easily removed whenever necessary during maintenance. The periapical X-ray showed stable bone level 1 year after implant placement.



Thanks to Dr. Sugiyama's simple method of ridge preservation, which reduced the need to augment great amount of bone before or at the time of implant placement. Although there is still much to be improved at each step in this case by a less-experienced dentist, AARD concept does provide a systemic and safe approach with predictable and desirable outcomes.