Osseointegration: Application in Reconstructive Plastic Surgery

Osseointegration has been applied clinically since 1965.

It is mainly applied in Dentistry and about 800,000 patients have been treated so far, with the number rapidly increasing.

Osseointegration has much wider implications in Reconstructive Plastic Surgery, especially in the areas of H&N Reconstruction, and Amputee Rehabilitation. This type of reconstruction has been introduced at the Alfred Hospital since 2007.

In H&N Reconstruction, we have applied its use in auricular, orbital, nasal and dental rehabilitation.

In Amputee Rehabilitation, this technique has been applied to both upper & lower limb amputates and our longest follow up is 12 years for Above-knee amputees.

Discussions will concentrate on its applications in various aspect of reconstructive plastic surgery, surgical complications and the importance of soft tissue management.

Clinical cases are presented.