

2D/3D Imaging to Analyze the Regeneration Rate of Autologous Bone

NCT06141239

Status	RECRUITING
Phase	Not Applicable
Sponsor	Chang Gung Memorial Hospital
Enrollment	48 participants

Key Eligibility Criteria

Inclusion (4)

- Willing to sign written subject consent
- The tooth extraction socket is located in the anterior and posterior areas of the upper and lower jaws.
- The area of the extraction socket (bone defect) in the mouth will need to be treated with artificial dental implants in the future.
- The patient does not have systemic diseases (such as patients with hypertension, osteoporosis, bone-related diseases, kidney disease, thyroid and parathyroid diseases, etc.).

Exclusion (4)

- Patients with potentially weakened healing abilities such as cancer, diabetes, bone infection, tuberculosis, anemia due to heme abnormalities or congenital immune deficiency, cellulitis, acute periodontal cyst, severe cusp disease (cyst size) $>2\text{mm}^2$ or patients with dental and jaw lesions.
- Women who are pregnant or breastfeeding.
- Exclude heavy smokers or betel nut chewers who smoke more than one pack of cigarettes per day.
- The bone defect in the extraction socket is severe and requires other bone regeneration surgeries (GBR), otherwise it will not be possible to have enough volume to provide artificial dental implants in the future.

Locations (1 total)

Chang Gung Memorial Hospital, Taoyuan District, Taiwan