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Pink esthetic score with autogenous dentin chips versus xenograft with conventional immediate implantation in thin buccal bone: (Randomized Controlled clinical trial)

Background:

Objective: soft tissue in the esthetic zone for an immediate implant Is considered challenging. This study aimed to evaluate soft tissue aesthetics around immediate dental implants with dentin chips and xenograft in thin buccal bone.

Methodology:

Non-restorable teeth (n=16) were recruited in this study for immediate implant placement with augmentation using dentin chips and xenografts. Patients were randomly assigned into two equal groups (n=8). Pink aesthetic scores are recorded on loading, at 6 months & after 1 year of implant insertion according to Vanlööglu. ; buccal, crestal bone resorption was measured using CBCT at months & 1 year and implant stability was measured using ostel twice, and pain is recorded according to Breivik.

Results:

Both groups showed better PES after 6 months and 1 year
P-value = 0.343; P-value = 0.199; the nearly same level of crestal bone & The buccal bone at 6 months & 1 year; implant stability is better at 6 months and one year P-value = 0.514; P-value = 0.340 and reduction in the post-operative pain within 1 week following implant placement but with statistically significant difference between both groups.

Conclusions:

The use of autogenous dentin chips proved to be a valid alternative to bone grafting materials to fill the jumping gap in conjunction with immediate implants in the aesthetic zone.

PES, the overall difference between the control and the intervention groups showed no statistical significance.

Biography:

Cherine Emad Mahmoud Mohamed Hamada, Completed her BDS from MSA University 2013, MSc **Periodontology** Cairo University 2021. She has an Membership in the Egyptian Scientific Society for Dental Implantologist. She is also a Member of WIN "Woman implantology network". She is an Assistant lecturer in **Oral medicine & Periodontology**, MSA University since 2015 till now. She is a Ph.D .candidate in periodontology Cairo University, October 2022. She is passionate about teaching my students & interns because periodontology is much more postgraduate learning than undergraduate, good periodontist can be a good **implantologist** as we are aware of hard & Soft tissue that what we are now teaching our internship students. She loves nature & photography, she is also passionate about traveling the world & knowing more about people & country's cultures.



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