Case Report 6

Tooth Loss Due to Trauma - Immediate Anterior Conical Implant Restoration

Immediate conical Implant Immediate conical abutment & provisionalization

X-ray following the immediate management of trauma

After implant osseointegration A Zirconia based final high esthetic crown will be delivered

Materials and Methods

PALTOP Conical Implant
PALTOP Concave
Anatomical Conical Abutment
Immediate Composite Crown

Post Immediate Treatment

Teeth 11,21 were restored using composite.
Tooth #12 had a pulpotomy, temporary root filling post and natural crown resin cemented. This was done as an immediate measure for esthetic reasons.

Intra oral status prior to implantation

Diagnosis:
Tooth #12 is Hopeless
Teeth #11-#21 Crown fracture, Vital.

Immediate Treatment

Immediate treatment for esthetic and infection control will be administered including:
Tooth #12 pulpotomy and metapex as infection control, tooth crown used as temporary. Teeth #11-21 immediate composite restoration for appearance purposes.

Intra oral picture after first aid treatment

Intra oral status prior to implantation

Surgery: Dr. Gil Asafrana
Restoration: Gil Asafrana, DMD
June 2015

Patient Information

Gender: Male
Age: 31
Patient complaint:
“A Wrench hit My mouth breaking three teeth, one is hanging by a thread”
Medical History:
no significant findings
Clinical Findings:
Tooth #12 horizontal broken tooth crown at the bone level with exposed pulp, possible root fracture
Teeth #11-#21 broken incisals with no pulpal involvement and normal signs of vitality

Facial trauma #2 broke, crown dropped #11, 2 broken incisors

Treatment Plan

After immediate treatment a session for an Immediate extraction and placement of Conical PALTOP Implant & concave conical abutment, followed by immediate restoration using a composite copy of original crown form.

Intra oral picture after first aid treatment

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Atraumatic Extraction
Tooth #12 with total crown fracture and vertical root fracture atraumatically extracted without traumatizing adjacent papilla.
Atraumatic extraction of fractured root

Immediate Crownform Composite Replica
An immediate PALTOP anatomical concave abutment is placed, with platform shifting and switching. This will enable maximum soft tissue thickness and health while minimizing bone loss around implant neck.

Immediate placement of a PALTOP conical implant

Immediate Concave Anatomical Abutment
An immediate PALTOP anatomical concave abutment is placed, with platform shifting and switching. This will enable maximum soft tissue thickness and health while minimizing bone loss around implant neck.

New composite crown is highly polished and reseated.

1 week follow up findings
Soft tissue is healing nicely around the abutment neck at 2 weeks, and 1 month. After 3 months there will be further soft tissue evaluation.

Results
A simple procedure of extraction implantation and immediate restoration in a young man who broken anterior tooth due to trauma, the implant type and abutment ensure the healing of a thick soft tissue and retaining of the adjacent pappilae, thus promoting a later easier esthetic final restoration.