# Osseodensification



Selective Preservation of Tooth (SPoT) Technique

### **Overview:** Indicated in cases of fractured teeth where implant trajectory may not coincide the root canal trajectory.

#### Step 1

Establish hard and soft tissue measurement and landmarks using clinical and radiographic imaging.

- 1. Measure distance of gingiva to bone crest.
- 2. Measure bone crest to apex (amount of shield length in bone).
- 3. Measure the amount of bone available for implant placement.



#### Step 2

- 1. Use a high-speed 3 mm round diamond bur to reduce the center of the root 2-3 mm sub-gingival leaving approximately a 1 mm shell of the tooth around the periphery (as in A).
- 2. Use a high-speed Meisinger 909 G flat diamond wheel bur from the center and move outward to flatten the root to palatal bone level (as in B and C).
- 3. Take a digital perio-apical radiograh to verify measurement from bone crest to apex (as in D).



#### Step 3

- 1. Use a high-speed Mesiginger carbide bur (7 mm cutting height) in the root canal trajectory to remove all canal contents to the apex (this will be pilot A).
- 2. Use the same bur to establish implant site trajectory at similar depth (this will be pilot B).
- 3. Both pilot holes should be approximately 1-2 mm in diameter.







Use Densah<sup>®</sup> Burs (2.0 and/or 2.3) in clockwise mode following the root canal trajectory to remove the apex. Verify with PA.





## Step 6

1. Use a level shaping bur to reduce the shield height in the buccal (as in A and B).

2. Use a high-speed round diamond or other designated shaping bur to create 3D S-Shape space for the restoration (as in C).





1. Place the implant into the Osseodensified site (as in A).

2. Fill the gap between the implant and the S-Shape



## Step 8







# Step 5

1. Use the Densah<sup>®</sup> Burs (2.0 and 2.3) in clockwise mode, in the **implant site** to a depth that is 1 mm deeper than the planned implant length.

2. Depending upon the implant type and diameter, develop the implant site further with the Densah<sup>®</sup> Bur according to the Implant System Drilling Protocol. (versah.com/implantsystem-drilling-protocols).



# Step 7

- 1. Use a high-speed long shank tapered bur (diamond or carbide as in A) to section the shield in mesial and distal direction.
- 2. Complete implant osteotomy with recommended final size Densah<sup>®</sup> Bur in CCW (as in B).







Fabricate an immediate screwed retained provisional using the original crown or a custom made provisonal abutment.





Case courtesy of Charles Schwimer, DMD



Clinician experience and judgment should be used in conjunction with this suggested use protocol.

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