

## Dry Tooth Replantation

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Sometime in 2020, on the 7th day of October precisely, while consulting in my workplace, this young boy, of about 13years old, walked into the surgery with his mother requesting for a removable partial denture for his missing anterior tooth. When I asked what happened, I was told he fell down while playing and the whole tooth jumped out of his mouth (avulsion), I got more interested, then I asked about the whereabouts of the tooth, the mother said she kept it at home in a box. When did this happen? And she replied, on the 12th of September 2020 (That is like 3weeks and 5days extra-oral time), socket almost completely healed...I told her to fetch the tooth if possible and she did. (Tooth #9 with crown fracture). I counselled them about the chances (I previously replanted an avulsed anterior tooth with 5days extra oral time successfully, for a boy older), they decided to take the chance.

- I dropped the tooth in Sodium hypochloride solution for 10minutes,
- Transferred it to doxycycline solution for another 10minutes,
- Root canal treatment (RCT) done extra-orally, -apex prepared and sealed with GIC (MTA was not available at time of presentation)
- Socket reopened and curette,
- Then tooth replanted and
- Splinted with composite and wire.
- Patient placed on meds. Including TT booster injection.

Pictures as shown below



**Figure 1:** Patient on presentation.



**Figure 2:** Tooth in sodium hypochloride solution.



Figure 3: Periapical xray of empty socket before replantation.



Figure 6: Splint placed.



Figure 4: RCT/Obturation of tooth.



Figure 7: Clinical pic 16weeks after.



Figure 5: Tooth replantation.

After first week visit patient absconded and resurfaced 16weeks later at which the splint was removed

**Assessment**

Though there is high probability that replacement resorption will set in as time pass, at least this will give the patient time to prepare for other options of tooth replacement if it eventually fail. For now, tooth is firm and functional, patient is happy.



Figure 8: PAR 16 weeks after.



Figure 11: Clinical pic 1 year 3 months after.



Figure 9: PAR 1 year after.



Figure 10: PAR 1 year and 3 months.