

Patient Presentation

- Male 34, treated in teens by GDP to change colour of teeth
- Increasingly required to complete public speaking duties
- Dislikes margins of restorations, colour and shape of teeth
- Medically fit and well, Officer in the Parachute Regiment



Preoperative photography

Examination

Intra & Extra Oral Soft tissues

- NAD
- Vital responses for teeth 16, 13, 11, 21, 23, 26

Sensitivity Testing

- Bitewings showing marginal failure of 26

Radiography

- Periapicals showing apical health of anterior abutment teeth including a reduction in size of a treated apical lesion associated with 14

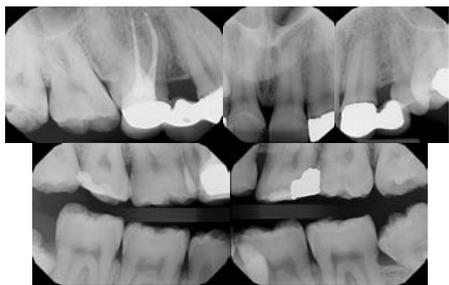
Smile assessment

- Mid to cervical third incisal show on normal smile showing gingival zenith on wide smile
- Incisal edge show at rest but with competent lips
- Wide buccal corridors
- No maxillary cant
- Centre lines coherent

- RCP taken with lucia and wax wafer
- Wax up and rehearsal

Articulated study models

- RCP taken with lucia and wax wafer
- Wax up and rehearsal



Preoperative radiographs



RCP Registration & Wax up for rehearsal and planning

Diagnoses

- Amelogenesis Imperfecta with associated localised posterior tooth surface loss due to attritional wear that appears to have good bonding potential
- Localised Hypodontia, missing 12 22
- Mesialised, camouflaged canines
- Edentulous spaces in the canine positions
- Localised Periodontitis Stage I Grade A
- Successful RCT of 14 completed 16 months prior to OH review (abutment tooth for fixed fixed bridge)
- Generalised gingivitis
- Fissure caries 46 27
- Fractured restoration 26

Treatment

Stabilisation

- Oral hygiene instruction, with continued feedback
- Resin restoration of broken down occlusal fissures 46, 27
- Amalgam replacement of failing restoration 26^{DO}
- XLA 35 15 to remove plaque traps



Test composite bonding 46

Composite provisional bridges

Provisional

- Removal of anterior bridge work – examination of abutments – provision of composite temporaries
- Tested efficacy of Carbamide Peroxide 10% intermittent bleaching on lower anterior teeth (Two weeks on two weeks off, symptom dependant)



Minimal Gold Onlay Placement

Shown at increased initial OVD

Refresh of preparations for definitive prosthesis with cord retraction in place

Definitive treatment sequence

- Provision of posterior occlusal stability opposing minimal prep gold onlays for teeth 17, 36, 46 and ¾ gold crown for 16
- Relative axial movement of teeth awaited to re-establish a pre-treatment ICP, demonstrated with shimstock holds.
- Concurrent restoration of anterior bridge with PFM conventional prosthesis and upper centrals with lithium disilicate veneers.
- Accept appearance of lower centrals at improved A3 shade after extended period of intermittent bleaching
- Wear facets on posterior teeth asymptomatic so not restored



Postoperative photography

Reflections

- Working to achieve bilateral group function with a lack of non-working side interference was difficult as checks were required at key stages throughout treatment as the dentition moved. However this was achieved with shimstock holds as per prior to treatment.
- At the placement of the gold onlays I had the opportunity to restore teeth posterior to these sympathetically with composite using the space created. Discussed with the patient copying the decision for the anterior lower teeth this was not done to reduce the restorative burden. However with the success of the composite bonding achieved elsewhere I feel that this may have been an error.