

# Teeth for Life ?

## Amelogenesis Imperfecta

### Case 1

#### Severe form of Amelogenesis Imperfecta

- Treatment involved:**
- Composite build up (Herculite XRV Ultra and Optibond Solo Plus, Kerr, California) of the LR5 – LL5 at an increased occlusal vertical dimension.
  - Crown lengthening surgery of the upper anterior teeth.
  - After three months of healing composite build-up (Herculite XRV Ultra and Optibond Solo Plus, Kerr, California) of UR5 – UL5 at a further increase in occlusal vertical dimension.
  - The direct composite build-ups were carried out using a combination of the matrix and freehand techniques described by Robinson et al, 2008<sup>4</sup>.
  - The posterior teeth were held in position with composite stops while the anterior teeth were restored.
  - The UR67 and LR67 were restored with indirect composite onlays (Gradia, GC, Belgium) with minimal preparation. They were cemented using Mirage cementation kit (Chameleon Dental Products, USA).
  - The UL6 had a buccal composite facing which was placed with some occlusal coverage to protect the remaining tooth structure.
  - Adequate moisture control was maintained using tongue guard salivary ejector, cotton wool rolls and gauze squares.

### Case 2

#### Milder form of Amelogenesis Imperfecta

- Treatment involved:**
- Freehand direct composite veneers (Esthetix and Prime and Bond NT, Dentsply, Germany) of the UR5 – UL5 and LR5 – LL5 with no tooth preparation

**References**

1. Crawford PJ, Aldred M, Bloch-Zupan A. Amelogenesis imperfecta. *Orphanet J Rare Dis* 2007;2:17.
2. Turkun LS. Conservative restoration with resin composites of a case of amelogenesis imperfecta. *Int Dent J* 2005;55(1):38-41.
3. Sabatini C, Guzman-Armstrong S. A conservative treatment for amelogenesis imperfecta with direct resin composite restorations: a case report. *J Esthet Restor Dent* 2009;21(3):161-9; discussion 70.
4. Robinson S, Nixon PJ, Gahan MJ, Chan MF. Techniques for restoring worn anterior teeth with direct composite resin. *Dent Update* 2008;35(8):551-2, 55-8.

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### Case 1

Pre-op



Mid Treatment



(Prior to crown lengthening surgery)

(Post crown lengthening surgery)

Post-op



### Case 2

Pre-op

