

## **Autotransplantation of teeth: surgical technique and healing of the transplant**

Pawel Plakwicz, D.D.S., Ph.D.

Autotransplantation of teeth before the root is fully formed is an established treatment option for replacing missing teeth in growing individuals. Favourable orthodontic indications, good surgical access and optimal tooth morphology are mandatory for a successful outcome of the treatment. Premolars with developing roots due to their morphology and position in the dental arch are optimal donors with reported success rate of over 90 per cent. Autotransplantation of developing, unerupted premolars to maxillary anterior region and to replace missing mandibular premolars will be presented. The description of the surgical technique and factors, which may influence the treatment outcome will be given and discussed.

On top of that, a natural potential of transplanted teeth for bone preservation and regeneration at sites of transplantation will be demonstrated, using clinical examples, that those teeth may in many cases serve as a natural providers of bone growth and may help in regeneration of the alveolus in patients with bone defects. This advantage of the treatment seems to be the most strategic factor in favour of performing tooth autotransplantation of teeth in children in order to avoid the need for implant placement in the future.