

## Phase I

- examine the patient both extraorally and intraorally,
- examine the strength and stability of alveolar ridges,
- have X-rays made,
- explain the patient ZX-27 system and other suitable therapeutical solutions of his problems,
- examine X-rays,
- work out a therapeutical plan in cooperation with the patient



## Phase II

- prepare hard dental tissues in compliance with the type of chosen pillar construction (full cast metal crown, veneer crown-with special resin or ceramic veneering, etc.),
- prepare impression either using the one stage technique or two stage technique by elastomers,
- **impress always the whole dental arch and not only part of it!**
- impress the antagonist dental arch, e.g. with alginate impression mass!
- make a wax bite impression – bite into wax (or use other material),
- if there are no support zones preserved, record interalveolar relations with wax rims.

## Phase III

- test the metal structure with freely applied glass abutments to find out the precision of both the metallic structure and glass abutments,
- **Attention! Do not cement the abutments! Moisten them with water only. Moisten the structure as well.**
- place abutments to their correct positions (the dental technician marks beforehand the labial and/or buccal side of the glass abutment with a leading groove),
- the moistened glass abutments will hold in the structure through their own adhesion,
- **while testing the structure see that the structure fits exactly on the alveolar arch mucosa when the structure is pressed on the patient's own pillar teeth. When the structure is depressed at the points of glass abutments, the abutments will slightly anemize the mucosa.**

## Phase IV

- test the abutments in the finished bridge in the same way as with the structure test in Phase III. without cementing,
- if the prepared supplement meets all the prosthetic criteria, start cementing the glass abutments into the ready bridge,
- take the bridge off the model so that the abutments remain at their own places on the model,
- apply mixed cement, the best is phosphate of thiner consistency at the place of glass abutments in the bridge,
- replace the bridge on the model and glass abutments, which are on the model at their own places. This enables to find the correct position of glass abutments in the bridge. This position is fixed and finalized first by pressing the bridge together with the glass abutments to their own places within the oral cavity and then by pressing the bridge at the place of the patient's own pillar teeth. **Attention! Do not let the patient bite into the rolls!**
- after cementation of the glass abutments, test the bridge in the mouth and if the prepared bridge meets all the prosthetic criteria (**it is important to see that all glass abutments exactly contact the mucosa of the alveolar arch and when the bridge is depressed at the points of glass abutments, the abutments slightly anemize the mucosa**), start cementing the prosthesis.



## Phase V

- check up after handing over of the prosthesis in regular intervals: after one week, three months, each half year; however, if there are problems, recommend the patient to visit his dentist immediately,
- it is normal if the patient feels a slight pressure on the mucosa around the abutments for about 3-5 days,
- instruct the patient on oral and dental hygiene and on prosthesis care: superfloss, interdental brushes, oral water...,
- have a check-up orthopantomogram made one year after the cementation of the prosthesis.

The manufacturer shall not guarantee for the shortcomings created in the course of application of the supplement if the prescribed procedure are not observed and the specified materials are not used. The manufacturer shall guarantee for the quality of the material only if it is purchased his exclusive distributor and if ZX-27 glass abutments are made from prefabricates by certified dental technicians. The manufacturer shall not hold himself responsible for iatrogenous injuries with patients having different material for the abutment of fixed dental prosthesis. Therefore, we highly recommend you to contact only certificated dental technicians.





# Attractive Glass Abutment System ZX-27

*A unique technique in prosthetic dentistry of the new millennium. A unique progress in prosthetic dentistry and prosthetics; a real tool and new alternative for progressively thinking dentists and dental technicians.*

Dear Friends,

How do you feel if your patient leaves your office satisfied because the treatment has been successful? You may experience this wonderful feeling if you have the right tool to satisfy your patients with. Such a tool is undoubtedly the ZX 27 Attractive Glass Abutment system.

This system brings new hope for many patients because it provides them with an esthetic, fixed dental prosthesis even in cases where only partially removable prostheses have been recommended.

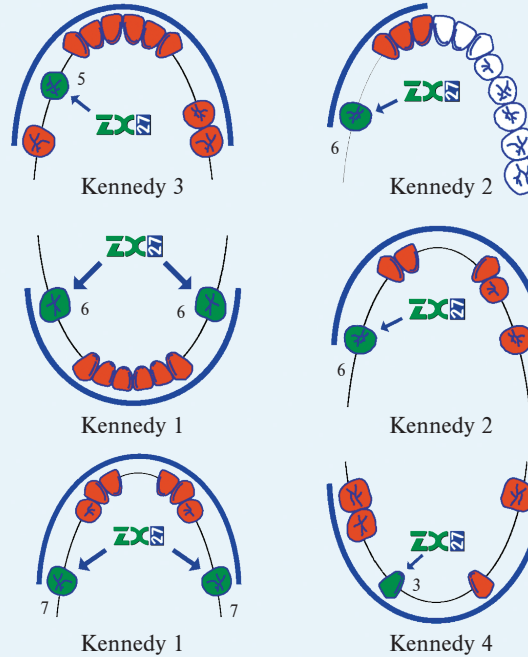
**ZX-27 glass abutment system is unique because it eliminates the problem of missing own abutments necessary for the application of fixed dental prosthesis. Moreover, there is no need for any surgical intervention. ZX-27 glass abutments fabricated of special material adhere to the alveolar arch mucosa in the edentulous parts of upper or lower dental arch and therefore replace the missing own abutments. Each patient receives his/her own personal ZX-27 glass abutment made of a prefabricated piece treated both thermally and mechanically by certified dental technicians to match exactly his/her alveolar arch mucosa.**

Our experience acquired throughout the years and thousands satisfied patients as well as numerous clinical tests and studies prove that our abutment made of a material specifically developed for this purpose and placed loosely on the dental alveolus works very well. **It may be successfully applied both with alveolar arches shortened at one and/or both ends and for supporting fixed prosthesis, thus, solving the problem of large splinting bridge. The system may be successfully applied with implants too.**

Its employment requires certain theoretical knowledge and practical skills. Dentists need and shall need information propagated through various presentations and articles. Unlike dentists, dental technicians are required to participate in training courses. All dental technicians who graduate from such training courses and obtain internationally acknowledged certificates shall be allowed to buy ZX-27 glass abutment prefabricates from our exclusive dealers and make special fixed dental prosthesis supported with ZX-27 glass abutments.

Our ZX 27 Attractive Glass Abutment is protected with world trademark and has been awarded the highest quality certificate ISO 9002 as well as CE European Quality Mark as a tested medical product.

## Indications



■ Own prepared abutments    
 ■ Place of glass abutment in the bridge    
 ⤵ Range of fixed bridge

### Contraindications

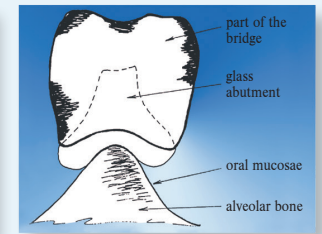
- unstable flabby alveolar ridge (5-8 mm side movements),
- insufficient alveolus height and widths with extensive bone resorption,
- very narrow alveolus forming a narrow ridge created partially by submucous tissue,
- insufficiently healed alveolus after extractions,
- oral mucosa disease (leucoplakia, lichen ruber planus, etc.) - consult with periodontologist,
- if the antagonist of the prospective glass abutment in the antagonist dental arch is in supraocclusion.



### Principles of ZX-27 glass abutment system

- the most important is to have a firm and pronounced alveolar ridge at the place of future ZX-27 glass abutments,
- unwritten rule: the more proper own abutments are ground mesially, the more missing teeth may be replaced distally (i.e. when replacing 5 and 6, it is ideal to grind 3 and 4; 5 will make the pontic and 6 will be the glass abutment),
- glass abutment is always the most distal part of the bridge with shortened dental arch, (defects in accordance with Kennedy 1, Kennedy 2)
- there must be at least one 1st class pillar among the prepared own teeth; the more 1st class ground pillars, the better the result,
- glass abutment must have his antagonist to renew occlusal relations and denture function.

## The use of Glass Abutment System ZX-27



Ask for detailed information about the system and scheduled training courses for dental technicians from exclusive representative:

**HypoDent**  
INTERNATIONAL

international exclusive sales representative  
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 mobil phone: ++421 905 901 825  
 e-mail: hypodent@stonline.sk  
[www.hypodent.sk](http://www.hypodent.sk) [www.zx-27.com](http://www.zx-27.com)  
 Manufacturer: DentAvantgArt, division KFT

ISO 9002  
 SUKL 07/10/99  
 CE 1008