

# DENTAL CROWN/BRIDGE/VENEER/ONLAY: CHOICES AND MATERIALS



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When a tooth is broken down due to injury or after root canal treatment, heavy/big restoration or huge cavity because of decay, your dentist may suggest a crown to cover the tooth. Crown can strengthen the weaken tooth structure and can improve your smile. There are three types of material used for tooth crowning, which are metal (normal metal or precious metal), porcelain or combination of metal and porcelain. To construct a crown, 2-3 visits are needed.

1) (30 minutes) Examination, model analysis and crown design. If the tooth is broken heavily, filling may be needed and tooth will be left 1 week to several months for observation. If there is/was pain/swelling, root canal treatment may be needed.

2) (60 minutes) Removal of the soften/broken part of the tooth. If the tooth is broken down badly after root canal treatment, build back of the inner core (with or without a screw) may be necessary. The tooth is then grind smaller. Take a mold and make model. The relation of upper & lower teeth is registered bite. The tooth that is grind will be covered with temporary crown (plastic or metal) for protection.  
 3) (30 minutes) After 7-14 days, remove the temporary crown and clean the tooth. Try the new crown on the tooth and modify if needed. Crown is then cement on the tooth with hard cement.



Full porcelain fused to metal    Full porcelain crown    Full cast alloy crown

### COMPOSITE OR FULL PORCELAIN/TOOTH COLORED/ NON-METAL BASED

- Esthetic, color and translucency similar to natural tooth.
- Dirt/Oil is easier to be removed from the surface of the porcelain.
- Require two layers, therefore tooth need to be grind like porcelain and metal.
- May need local anesthetic.
- Suitable for: front tooth where esthetic or translucency is important.

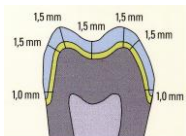
EMPRESS II (Casted Full Porcelain): >RM950  
 Alumina: RM1250-1400  
 Zirconia: RM1350-1800 (stronger than alumina, but more whitish/opaque, more for back teeth).  
 Porcera (Computer Designed):RM2200-2500. During the promotion the manufacturer provides 5 years warranty on core/base <not on the surface porcelain)



Direct Composite Veneer: for front teeth: RM550-600 per tooth RM600-650 setiap gigi

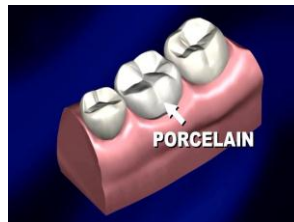


### METAL BASE AND PORCELAIN SURFACE



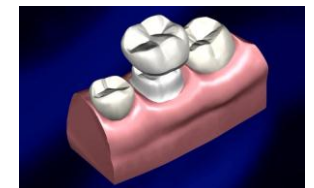
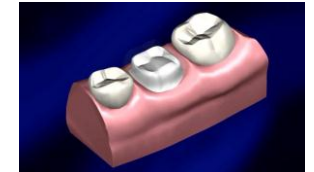
- Esthetic, tooth colored, but the translucency less than full porcelain crown.
- Rigid, wear resistant because the base is metal.
- Comfortable and durable.
- Require two layers, therefore tooth need to be grind more.
- May need local anesthetic.
- Suitable for: Front or back teeth.

Porcelain with Stainless Steel Metal Base: RM980-RM1250  
 Precious metal: Extra RM650-800



### FULL METAL

- Full metal
  - Steel/Gold/Palladium
  - Most durable, hard and wear resistant, less maintenance.
  - Metal color NOT suitable for front tooth.
  - Can be made thin, therefore no need to grind much, so more original tooth structure remaining. (Onlay= a smaller version of crown, not necessary grind to gum level, the size is ¾ to ½ of a full coverage crown, preserve more original tooth structures)
  - Normally, local anesthetic is not needed.
  - Highly suitable for back tooth where the bite force is high or beauty is not a concern
- Stainless steel metal: RM980-1150  
 Precious Metal (Gold): Extra RM650++  
 \*\*Prices is for references only, please consult the doctor.  
 \*Crown does not include any root canal treatment that may be needed before, during or after the crowning. Pre-crown treatment such as change the old filling/base etc and post-crown enhancement such as gum recontouring etc is expressly chargeable separately.



CrownENPT.pdf





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## Digital Dentistry- One Visit

Crown, Bridge, Veneer, Trim-less veneer, Partial crown, inlay, onlay

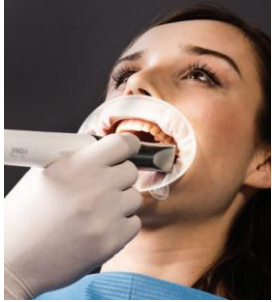
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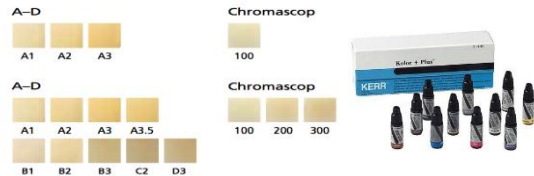
Preparation and Scan: No need to take mold, no gagging/vomiting.



Design & Milling: Single composite/polymer crown can be fabricated in 10 minutes.



Wide ranges of colour to choose from, at the chairside. Shade can be selected, tested and confirmed by patient before milling. What you see is what you get.



Upon request, individual preference and characterization eg. slight modification in colour/spots can be done chair side.

Cementation-leave with beautiful smile in the same day



Design with 40 times magnification, better margin, fitting and better contact with adjacent teeth and opposing teeth.



Advantages:

Same day finish, save time, travel and money.



No need temporary crown/inlay, more effective and comfort. No loosening/repair of temporaries between visits.

Digital bite: No messy material to hold the upper and lower teeth together, thus more accurate and less adjustment needed when fitting the restoration on the tooth.

Various options: crown, bridge, Veneer, Laminate(No trimming), inlay, onlay, partial crown



Cost:

Cost is depend on the time used, materials, size and unit of restorations:

Polymer/Composite Crown/Veneer/Bridge: RM850-1250 (3 unit crowns joined together counted as 3 units Crown)

Full Ceramic Crown RM1800-1950 (45 minutes surface smoothing in oven needed)

Zirconia (Normally for back teeth) : RM2500-2800 (8 hours heating in oven to harden is needed)

Wide range of materials:

Composite/Polymer/hybrid (Not Porcelain), Porcelain, Zirconia (Vita, Ivoclar, Dentsply Sirona, Coltene, Shofu, Merz & GC)



Disadvantages and limitations:

- i)Not suitable for bridges more than 2 teeth lost.
- ii)Not suitable if the margin of the crown is too deep under the gum
- iii)Zirconia might take 8 hours to heat inside the furnace-same day crown will only be possible with precise time planning.

