



## **Conventional Metal Removable Partial Dentures**

A partial denture is useful for a person missing some teeth, but still having a number of natural teeth. This device is also called a removable prosthesis, and is a means by which artificial replacement teeth are held in the mouth.

The prosthesis is commonly kept in place by means of clasps. These are thin, finger-like structures, usually made of a special resilient metal alloy, that rest upon and wrap around some remaining natural teeth. Clasps keep the prosthesis securely in place but still allow a person to easily take it out for regular cleaning and proper brushing of remaining natural teeth.

### **Some reasons for having a partial denture made:**

- To replace missing teeth
- To improve the ability to chew more naturally
- To chew food with confidence
- To make it possible to eat certain favourite foods
- To maintain a healthier and socially acceptable mouth
- To help in the preservation of remaining natural teeth
- (In many cases) to improve speech
- To have a more pleasing and confident smile
- To support the face - often with a more youthful appearance
- To enhance self esteem
- It is an economical way to replace missing teeth
- Many times an additional tooth may be added to an existing partial denture if a natural tooth is lost
- Partial dentures are usually easy to repair if they are broken

### **Aesthetics and the conventional partial denture**

Generally clasp design is reasonably aesthetic, and often it is possible for them not to be seen. However, depending upon partial denture design, which is based on mouth conditions, there may be some visible clasps. It doesn't often mean a problem in appearance. However, if avoiding an unacceptable show of clasps would compromise optimal partial denture design, various special attachments can be employed to do away with conventional clasps.

These attachments are technically more complex and are often referred to as precision or semi-precision attachments.

### **How long will a partial denture last?**

Accidents happen, and the mouth is constantly changing. Partial dentures may no longer fit properly, can break or bend or simply wear out. In fact there is nothing made for the mouth that is permanent. Fractured clasps and other things may often need reparation.

On average, a partial denture may be expected to last about five years. Depending upon circumstances, a certain removable prosthesis can last longer or for a shorter time.



## **How often should a partial denture be checked?**

It is best to have a partial denture, as well as the rest of the mouth, checked at six-month intervals. If left uncorrected, small problems can develop into major ones that could cause disease or loss of teeth or can necessitate premature prosthesis replacement.

## **Partial dentures need to be relined**

The jaw ridge a partial denture rests upon is constantly changing. It is normal and necessary to regularly modify how a partial denture contacts the ridge. This maintenance correction is called relining and on average needs to be performed annually for optimum function. However, this is dependent upon how an individual's mouth changes. A licensed dental professional can best advise when a reline is needed, and when a reline will no longer adequately restore proper function.

## **Precision and Semi-Precision Metal Partial Dentures**

Precision and semi-precision partial dentures, like conventional partial dentures, replace missing natural teeth with artificial teeth. However, the means by which they are retained in the mouth is different from that of conventional clasp prosthesis. To better understand these partial denture types, it is best to first review the basics of conventional partial denture clasps.

## **How do conventional partial denture clasps function?**

Most partial dentures are usually kept in place by clasps. These are thin, finger-like projections of special resilient metal alloy, or in certain cases, plastic or plastic-like.

- Clasps rest on and around certain remaining natural teeth so that their ends extend into undercut areas below a gentle bulge on the tooth. Sometimes it is necessary to shape a tooth or to make a crown for a tooth or teeth in order to develop the right amount and relationship of undercut and bulge for retention.
- When a partial denture is placed in the mouth, clasps gently spring over a tooth bulge and rest in a relaxed state within an undercut.
- A partial denture is held in place during normal eating, speaking and other activities because clasps resist springing back over tooth bulges.

## **Advantages of semi-precision and precision partial dentures:**

- It is a cosmetically enhanced partial denture as compared to conventional partial dentures
- No show of metal clasps
- Blends in with the conformity of remaining natural teeth
- Functions with a more even pressure on remaining natural teeth than conventional partial dentures

## **Disadvantages of semi-precision and precision partial dentures:**

- More costly to fabricate
- Usually some natural teeth need to be crowned
- More difficult to fabricate and adjust
- Some components may need periodic replacement