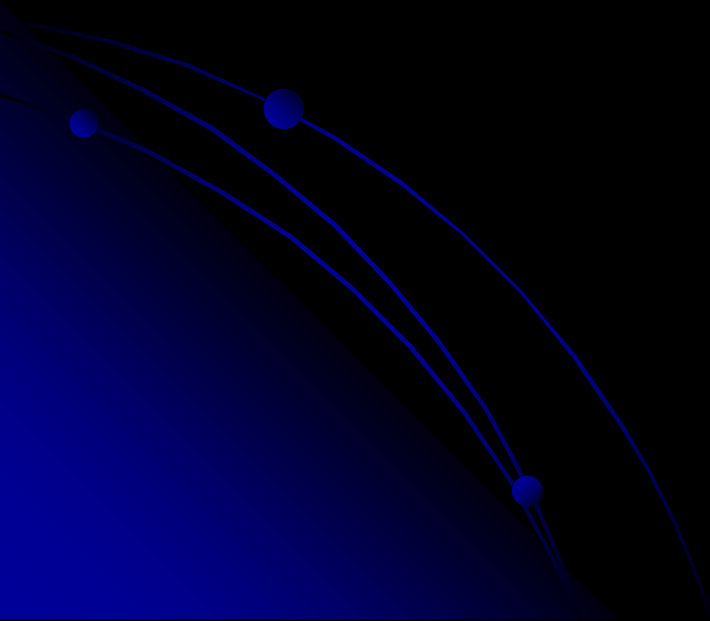


D Y PATIL DENTAL SCHOOL


DEPARTMENT OF
PUBLIC HEALTH DENTISTRY



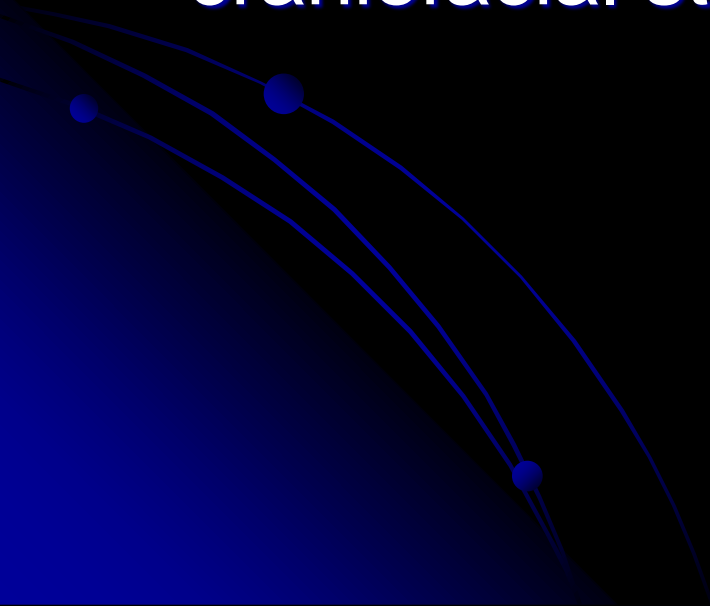
Preventive and interceptive orthodontics



Introduction


- Preventive orthodontics is aimed at elimination of factors that may lead to malocclusion.
 - Interceptive orthodontics is undertaken at a time when the malocclusion is developing.
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Preventive orthodontics

- It is that part of orthodontic practice which is concerned with the patients and parents education, supervision of the growth and development of the dentition and the craniofacial structures.
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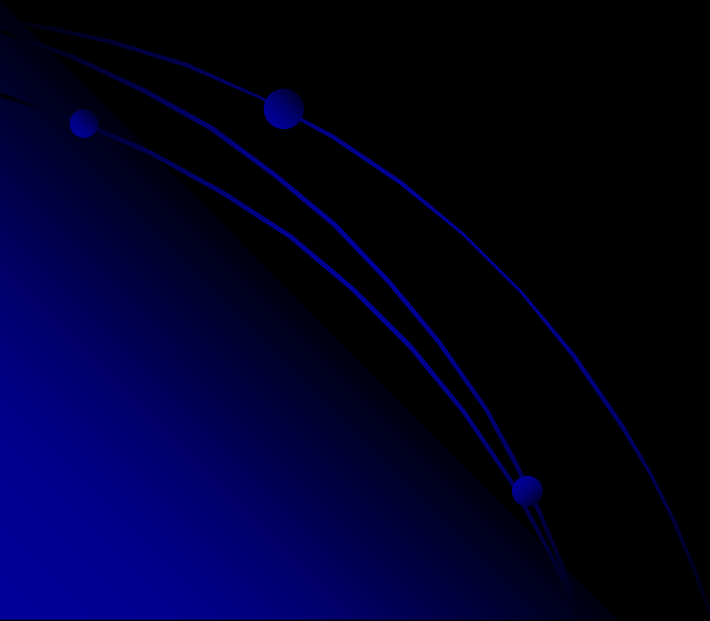
Some of the procedures undertaken in preventive orthodontics

1. Parent education

- It should ideally begin much before the birth of child.
 - Soon after the birth the mother should be taught on proper nursing and care of the child.
 - Educating about oral hygiene and feeding practices.
- 

2 Caries Control

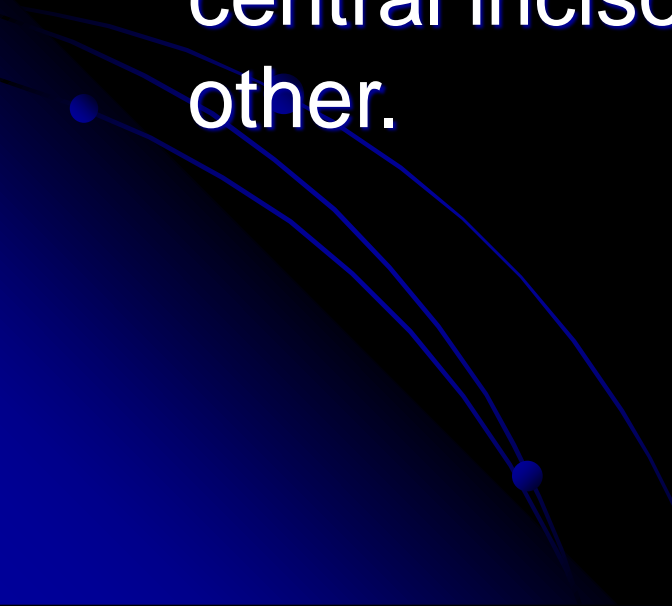
- Caries involving the proximal surfaces of deciduous teeth if not restored leads to loss of arch length by movement of adjacent teeth into that space.



3 Care Of Deciduous Dentition

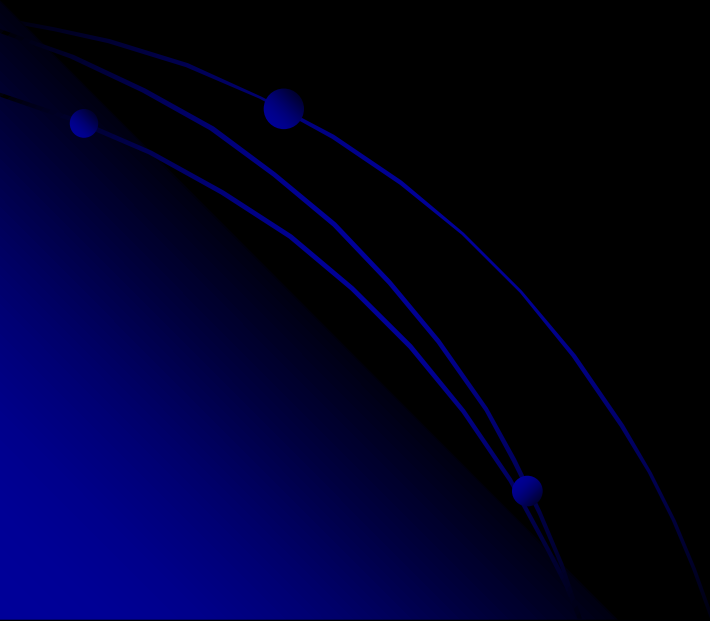
- The deciduous dentition are excellent space maintainers until the developing permanent teeth are ready to erupt into the oral cavity.
- Simple preventive procedures such as application of topical fluoride and pit and fissure sealant help in preventing caries.

4 Extraction of supernumerary teeth.

- Presence of supernumerary and supplemental teeth can deflect adjacent teeth to erupt in abnormal positions.
 - Presence of mesiodens prevents the two central incisors from approximating each other.
- 

Eliminating the occlusal interference.

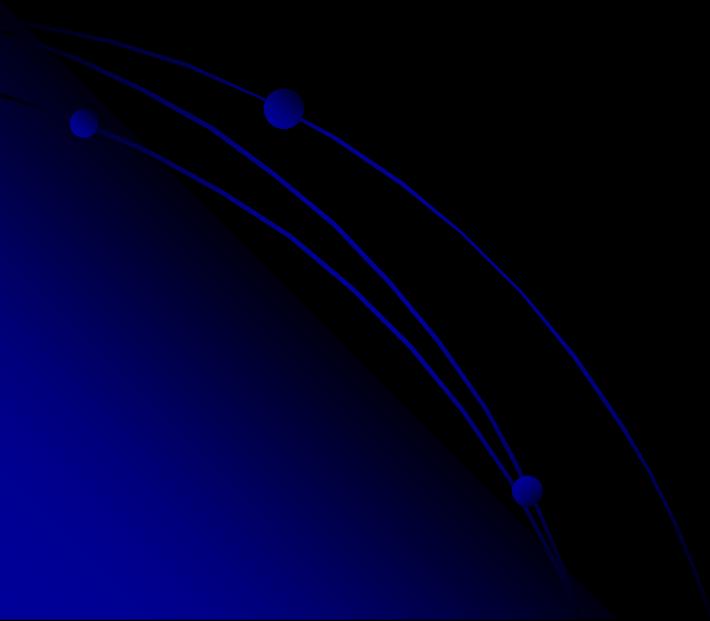
- All functional prematurities should be eliminated as they can lead to deviations in the mandibular path of closure and also predispose to bruxism.



Maintenance of tooth shedding time table.

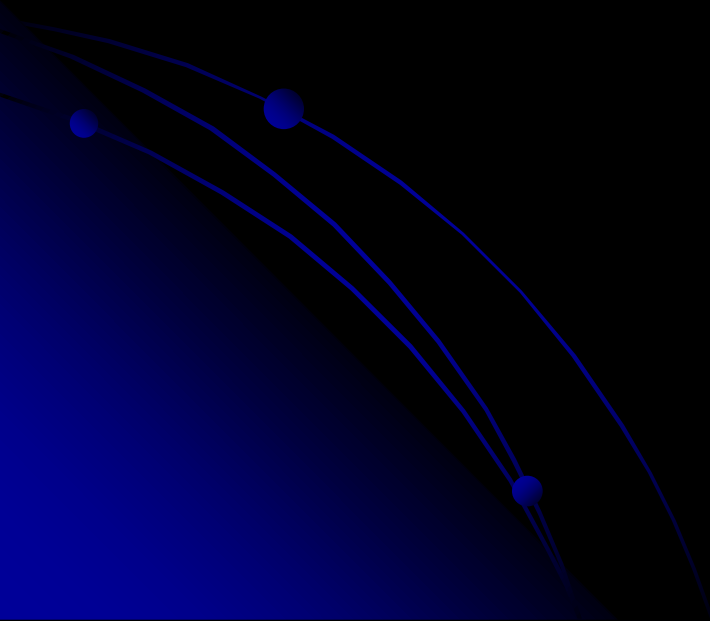
- Delay in eruption may be due to :-
 1. Presence of over retained deciduous tooth or root.
 2. Supernumerary tooth
 3. Cysts
 4. Over hanging restorations in deciduous teeth
 5. Fibrosis of gingiva
 6. Ankylosed primary teeth.

- Ankylosed teeth do not get resorbed and therefore prevent the deciduous teeth from erupting or deflect them to erupt in abnormal locations.



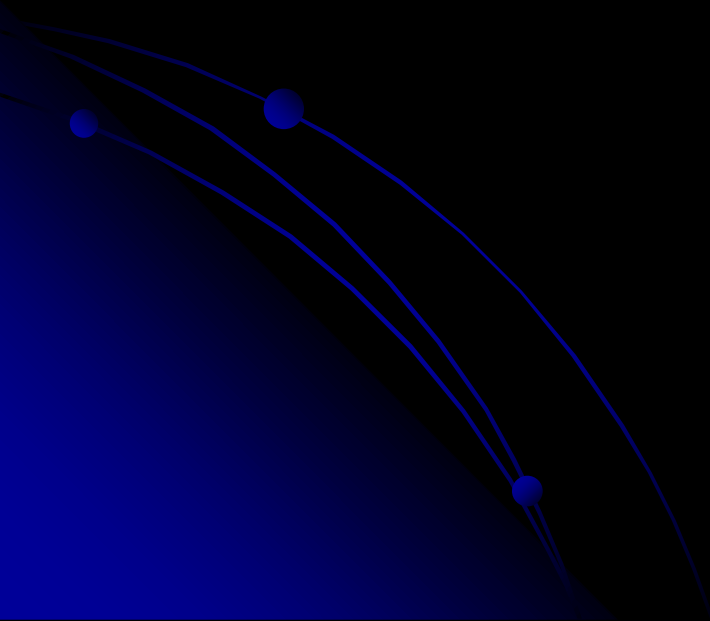
Management of abnormal frenal attachments

- The presence of thick and fleshy maxillary labial frenum that is attached relatively low prevents the maxillary central incisors from approximating each other.



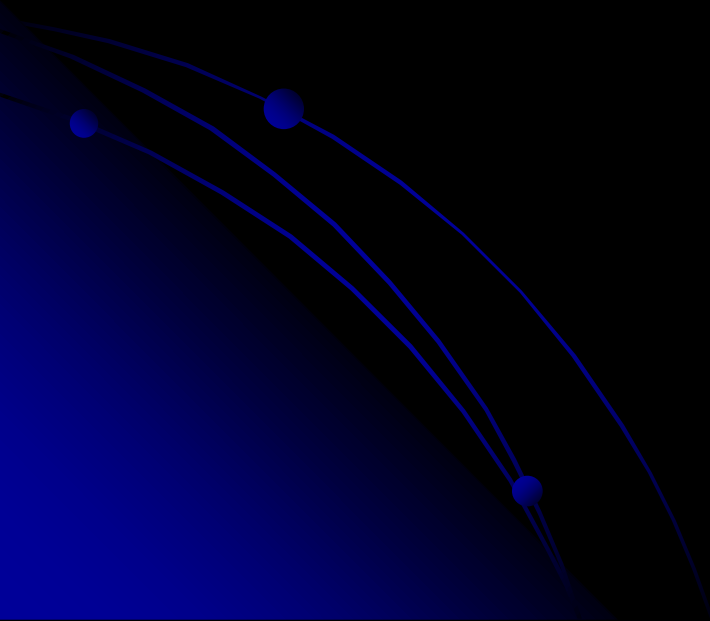
Oral habits check up and patient parents education

- Habits such as finger and thumb sucking ,nail biting, tongue thrusting and lip biting should be identified and patient /parents educated on the ill effects of these habits.



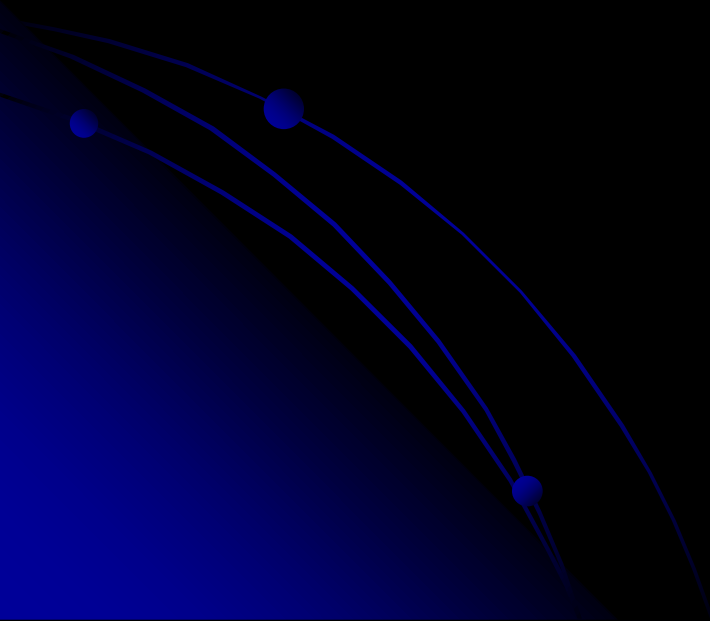
Deeply locked permanent first molars

- The deciduous second molars occasionally have a prominent distal bulge which presents the eruption of the permanent first molars.



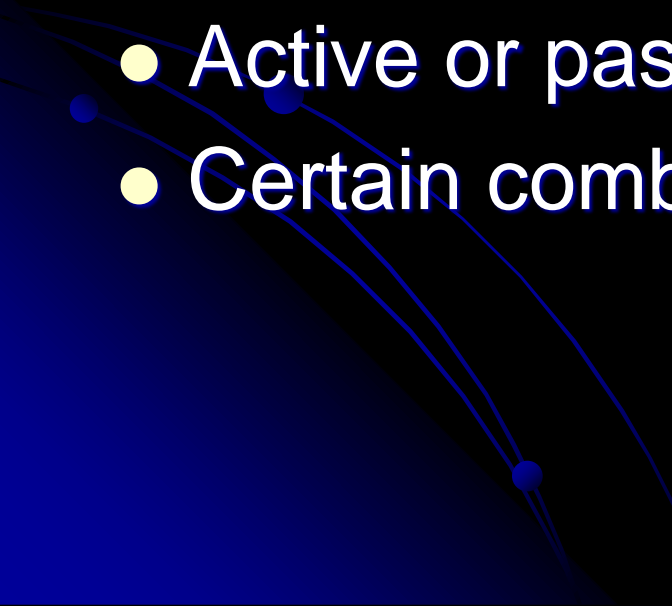
Space maintenance

- It is a device which is used to maintain the space created by the loss of a deciduous tooth.



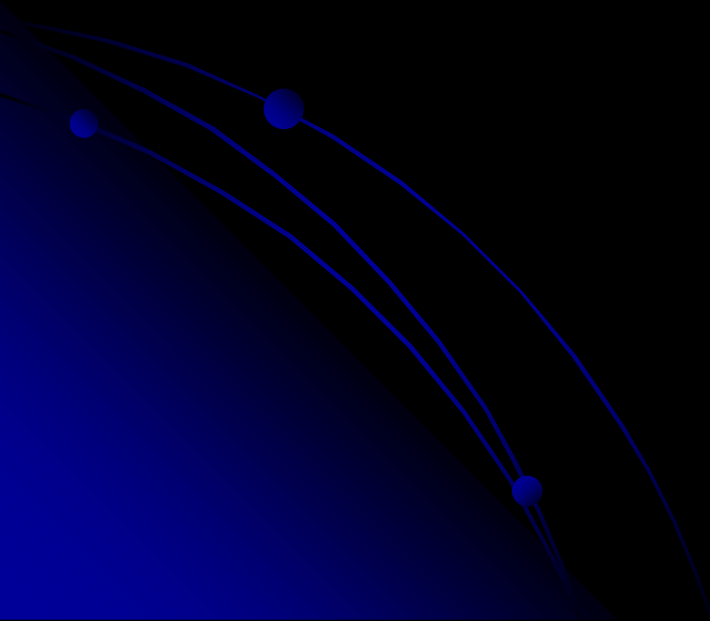
Classification of space maintainers

I According to Hitchcock:-

- Removable , fixed or semi fixed
 - With bands or without bands
 - Functional or non functional
 - Active or passive.
 - Certain combinations of the above
- 

According to Raymond C Thurow

- Removable
- Complete arch:-lingual arch
extra oral anchorage
- Individual tooth



According to Hinrichsen

I fixed space maintainer:

class I-NON FUNCTIONAL TYPES

1. Bar type
2. Loop type

FUNCTIONAL TYPE

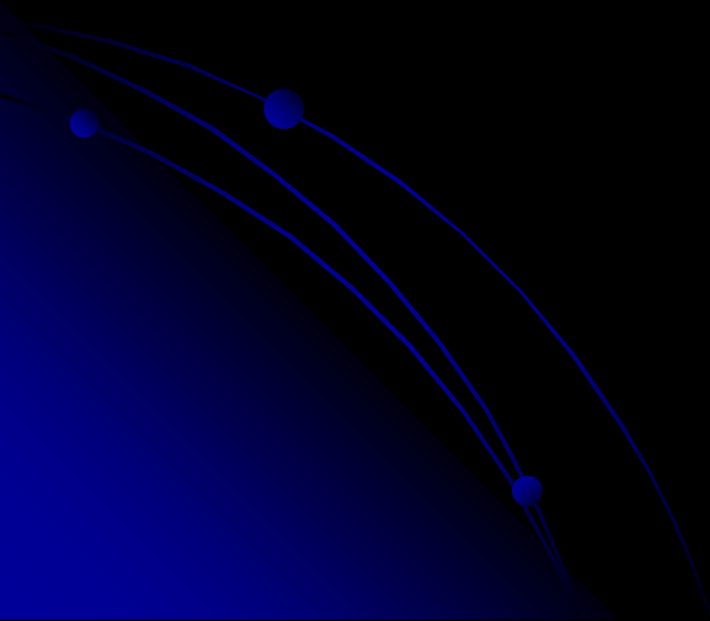
1. Pontic type
2. Lingual arch type

- Class II –cantilever type (distal shoe, band and loop)

2 Removable type space maintainer

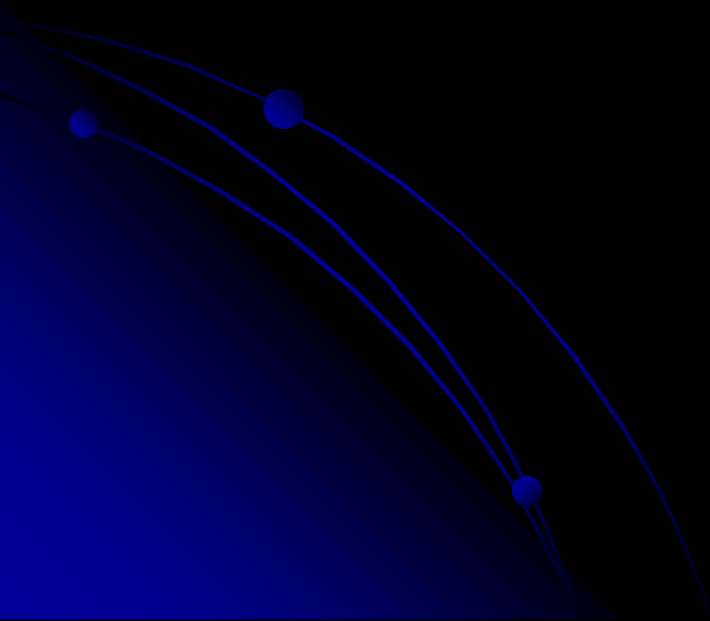
- Acrylic partial denture

Requirements of space maintainer



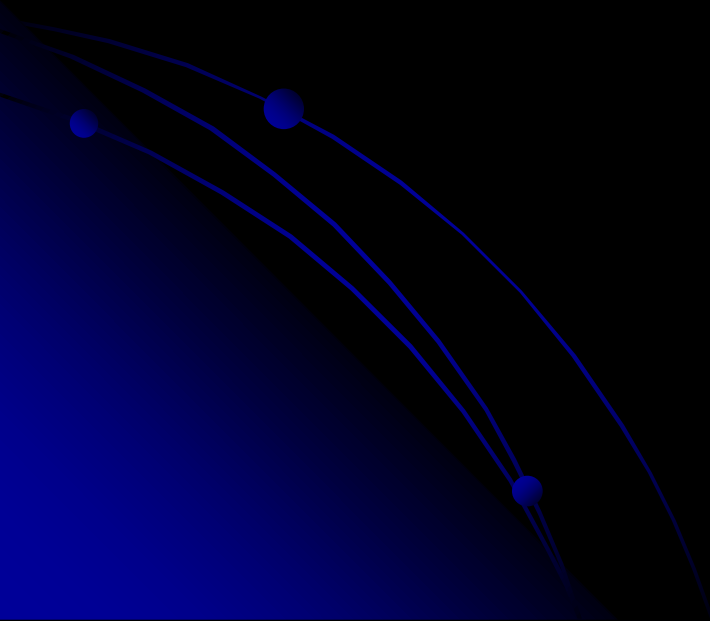
Commonly used removable space maintainer

- Acrylic partial denture
- Complete denture
- Removable distal shoe space maintainer



Fixed space maintainer

- Advantages of fixed space maintainer
- Disadvantages of fixed space maintainer



Commonly used fixed space maintainer

- Band and loop space maintainer
- Crown and loop space maintainer
- The lingual arch space maintainer
- Palatal arches
- The transpalatal arch
- Distal shoe space maintainer
- Esthetic anterior space maintainer
- Band and bar space maintainer

To be continued...

