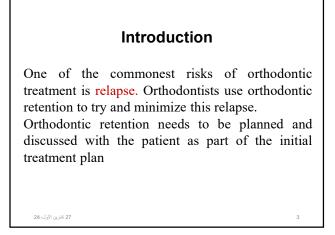


Retention after completion of orthodontic treatment







Stability what makes teeth instable after orthodontic treatment?

Relapse

Relapse = retrogression or return to origin

Definition of relapse

Relapse is officially defined by the British Standards Institute as the return, following correction, of the features of the original malocclusion.

However, for patients, relapse is perhaps better described as any change from the final tooth position at the end of treatment. This may be a return towards the original malocclusion, but may also be movement caused by age changes and unrelated to the orthodontic treatment

5

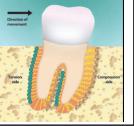
27 تشرين الأول، 24

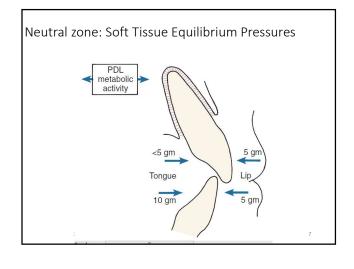
Etiology of relapse

Gingival and periodontal factors

When teeth are moved the periodontal ligament and associated alveolar bone remodels.

Until the periodontium adapts to the new position,.





27 تشرين الأول، 24

Etiology of relapse

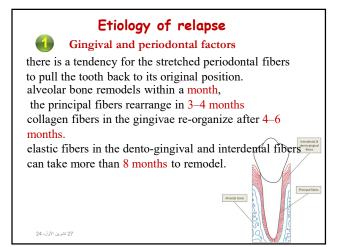
Occlusal factors

The way the teeth occlude at the end of treatment may affect stability.

It has been suggested that if the teeth interdigitate well at the end of treatment then the result is likely to be more stable.

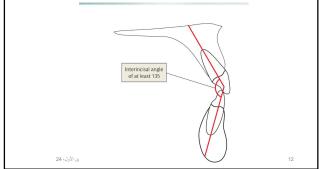


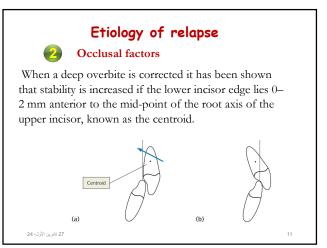
27 تشرين الأول، 24

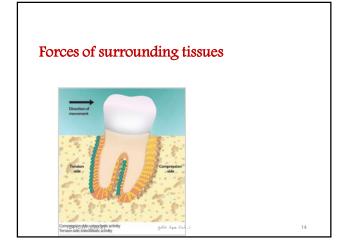


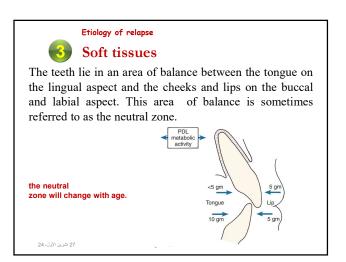
Inter-incisal angle

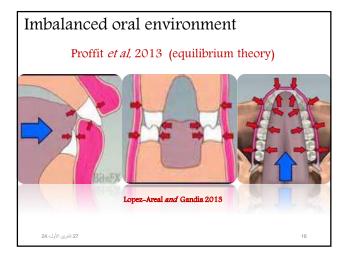
It is also desirable to have a favorable inter-incisal angle close to 135°, to produce a strong occlusal stop and prevent the incisors erupting past each other









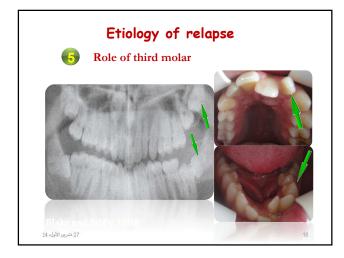


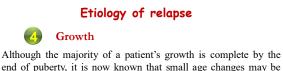


Where possible the original lower archform is therefore maintained throughout treatment, and the upper archform is then planned around the lower



27 تشرين الأول، 24



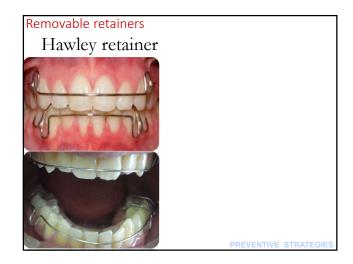


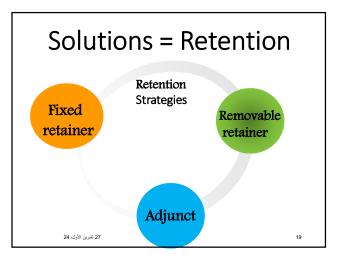
Annough the majority of a patient's growth is complete by the end of puberty, it is now known that small age changes may be occurring throughout life. Subtle changes in the relative positions of the maxilla and the mandible mean that the oral environment and therefore the pressures on the dentition are constantly changing. If the pressures on the teeth are always changing, then it is perhaps not surprising that there is a risk of relapse of the teeth as the patient gets older.

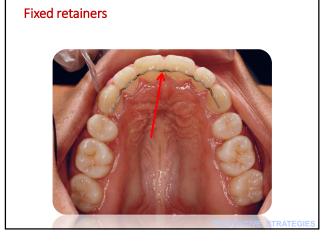
27 تشرين الأول، 24

د. مُذاد جهاد عاشج

17







Removable retainers Vacuum-formed, Essix (invisible retainer)

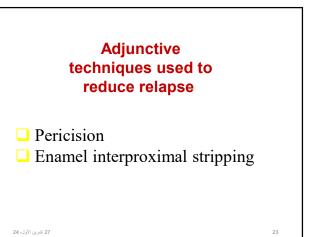
Vacuum-formed retainers offer a number of potential advantages over Hawley retainer

- Superior aesthetics
- Less interference with speech
 More economical and quicker to make
- Less likely to break
- Ease of fabrication
- Superior retention of the lower incisors

Surgery

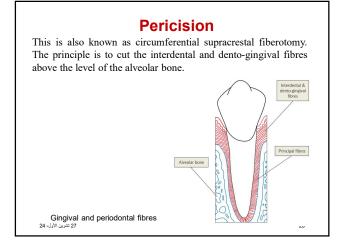
The elastic fibers within the interdental and dento-gingival fibers have a tendency to pull the teeth back towards their original position. This is particularly true with teeth that have been derotate.

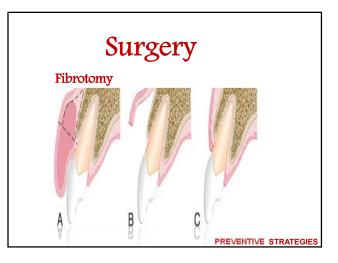
hat have been



Gingival and periodontal fibres 24 شرین الأرك 27

Pericision





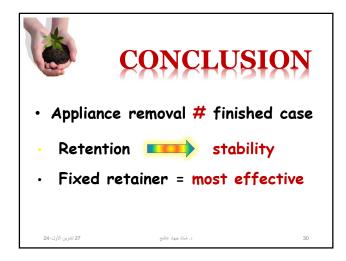


Enamel interproximal stripping his is also known as reproximation. The removal of small amounts of enamel mesio-distally has been used to reshape teeth and to create small amounts of space. It is not clear why this process can reduce relapse. It has been suggested that by flattening the interdental contacts, this will increase the stability between adjacent teeth. It may also be the case that by removing small amounts of tooth tissue any minor crowding is relieved, avoiding possible proclination of the lower labial segment and increase in the intercanine width, both of which are potentially unstable movement

Interproximal stripping using abrasive strips.



27 تشرين الأول، 24



PLEASE NOTE:

27 تشرين الأول، 24

Important notes

- Retention is an important part of almost every case of orthodontic treatment. This is because relapse is an unpredictable risk.
- □ The patient needs to be made aware of the long-term risk of relapse and informed of ways of reducing the risk of this relapse. This should be discussed before treatment.

29