MUNI MED

# Restorative dentistry III. 4 th lecture

**Subgingival defects** 



Substantial loss of hard dental tissues

Subgingival cervical borders – difficulties with dry operative field (bleeding, sulcular liquid)

Adhesive procedures in region without enamel

- consider selfetching adhesive



### **SUBGINGIVAL DEFECTS**

Technical parameters: Possibility to keep the operating field dry **Biological parameters: measurement of** distance between clean gingival border and insertion of periodontal ligament or crest of alveolar bone using periodontal probe and/or xray. **Biological width** 





# **Classification of subgingival defects**

1. Ruberdam is possible to use, gingival border can be seen.

2. Rubberdam does not allow complete isolation of operating field, biological width is ok.

3. Subgingival defect, biological width is affected.



### **Solution**

1. Margin elevation – cervical margin relocation using flowable material or composite filling material

2. Gingivectomy + gingivoplasty

3. Elongation of clinical crown – crown lenghtening (gingivectomy + ostectomy)

Reconstruction: direct or indirect



# **Cervical margin relocation**

#### SEQUENCE OF OPERATION – MARGIN RELOCATION •

Consider possibility of effect of rubberdam and biological width •



# **Cervical margin relocation**

Application of rubberdam

Matrix band – can be cut (appr.3 - 5 mm) Tihgtening of the matrix with the retainer Insertion of a wooden wedge

Adhesive procedure consider selfetching adhesive system Flowable Composite







































# **Gingivectomy and gingivoplasty**

Cutting gingiva and shaping it anatomically :

Scalpel - Laser - Cauter







# **Crown lenghtening**

Surgical procedure based on gingivectomy, gingivoplasty and ostectomy.

Closed and open





























#### Gingivectomy Gingivoplasty



GIC as a temporary







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# **Extrusion**

#### Extrusion orthodontic

□Fast

Surgical

























The story continues....

