## Isolation of the operating field

### Restorative dentistry 3rd year Lecture 2



# Dry field in oral environment?





#### Setting of materials



## What does complicate the treatment?



> Cooling water spray

Blood

## Dry field management

Relative dry field

Absolute dry field



## Relatively dry field

#### **Cotton rollers**

### Cotton squares



#### **Cotton cups**





## Relative dry operating field

> Belvedere matrix

> Wooden wedges

CERT

> Minidam







Access to the cavity (retracts the gingiva)

Dry field (stops bleeding)

- Matrix adaptation (presses the strip tightly)

## Absolutely dry oparating field

Rubber dam (kofferdam)

A membrane which isolates the operation field from oral envionment.



## Benefits

- Protection of patient against gulp or aspiration
- Protection of dentist and assistant against infection
- Aseptic approach
- Absolute dry field
- Retraction of soft tissues
- Protection of soft tissues
- Better access to the operation field

## **RISKS**

- Limitation of oral breathing
- Fear
- Latex allergy
- Aspiration or gulp of the clampDamage of hard and soft tissues





















#### Rubber

#### Roll

#### Square (blank)



## Perforation



#### **Round aperture**











How big will the perforation be?

According to:

Size of the tooth

Thickness and kind of the rubber dam

**Mode of application** 



















wings

5



















#### Clamps for retention





#### Clamps for retraction













## Contact – areal



#### 4 pointed



























## Rubber dam frame

















Latex rollers wedjets














### How many teeth should be isolated?





#### Mode of application

- Rubber first
- Clamp first
- Clamp and rubber dam together
- Application in seconds

#### Rubber first





#### Clamp first





# Rubber, clamp and frame together – application in seconds



### Interdental adaptation













## Interdentál adaptation



















Latex rollers wedjets



#### Thermoplastic impression material









#### Elongation of the clinical crown before application od the clamp









#### Lubrication







#### Modifications



> Optradam

> Minidam

lenka.roubalikova@tiscali. cz

#### Optidam



Tenka.roubalikova@tiscali.



lenka.roubalıkova@tıscali.



lenka.roubalikova@tiscali. cz

#### Minidam

