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# **CROSS INFECTIONS IN DENTISTRY**

# Cros Infections

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- Infection of microorganisms from people/objects to people/objects
- Most common;
  - Dentistsü
  - Surgions
  - And between patients

# Cross Infections with known agents

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| <b>Microorganism</b>               | <b>Source</b>      | <b>Infective way</b> | <b>Result</b>                |
|------------------------------------|--------------------|----------------------|------------------------------|
| <b><i>M. tuberculosis</i></b>      | Patient            | Contact/<br>aerosol  | tuberkulose                  |
| <b><i>S. aureus</i><br/>(MRSA)</b> | Dentist            | Hands                | dental abscesses on patients |
| <b><i>P. aeruginosa</i></b>        | Dental spray water | Water                | dental abscesses on patients |

# Cross Infections with known agents

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| <b>MO</b>    | <b>Sourec</b>      | <b>Infective way</b>           | <b>Result</b>                     |
|--------------|--------------------|--------------------------------|-----------------------------------|
| <b>HSV-1</b> | Dentist<br>Patient | Hands<br>Saliva                | Oral herpes<br>Herpetik<br>dolama |
| <b>HBV</b>   | Dentist<br>Dentist | Non Sterile<br>needles/devices | Hepatit B inf.                    |
| <b>HIV</b>   | Dentist<br>Dentist | Sharp object<br>injur,es       | AIDS                              |

# Protection from cross infections

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- Vaccination
- Hand hygiene
- Eye and face protection
- Surgical cloths
- Education against sharp object injuries

# Vaccines for dentists

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- Diphtheria
- Pertussis
- Tetanus
- Hepatitis B
- Poliomyelitis
- Rubella
- Tuberculosis

# Hand hygiene

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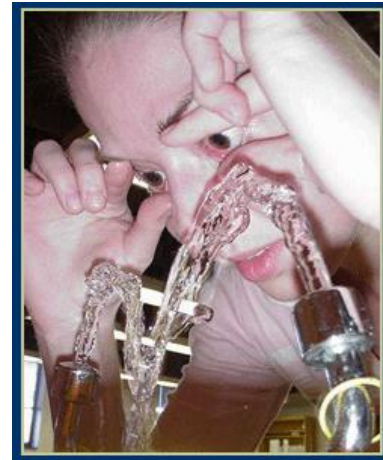
- Potential tools / source
- Hand wash
- Mousturising hand cream
- Using gloves



# Eye and face protection

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- Against Aerosole / saliva  
Protective eye glasses
- Masks





# Surgical cloths (gown)

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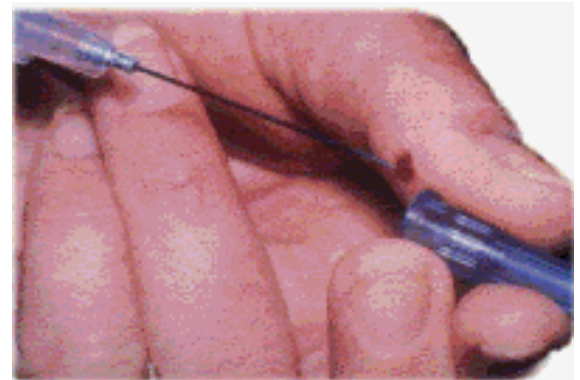
- Long sleeve
- Washable over 60 C



# Sharp object injuries

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- ❑ Most common
- ❑ Risk for blood borne viruses
- ❑ Be careful
- ❑ Precautions should be taken



# Protection against sharp objects injuries:

- ❑ Never closed caps of used needles
- ❑ Never direct tips of used needles to any side of body
- ❑ Never twist tip of used needles
- ❑ Used needles, lancets, other sharp objects must be discarded in special containers



# Surface Desinfection

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- Use surface desinfectants for surfaces, furniture and equipments
- Sodium hypochlorite( $\text{NaOCl}$ )
  - 1 g/l free clor is suitable for general environment
  - 5 g/l consantre solution for high risk surfaces
  - %3 hyfrgen peroksite ( $\text{H}_2\text{O}_2$ ) solution, can be used instead of  $\text{NaOCl}$

# Device Sterilization

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- Must be disposable
- If not disposable : **sterilization**
- Before, mechanic cleaning is required!
- Pressurized steam air: Autoclave
- Dry hot air: Pasteur's furnace
- Chemicals

# Medical Waste

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- Every waste contaminated with saliva and blood is infective
- Medical Waste (Bloody cotton/napkin)
  - Discard to medical waste bins
- Distro legally (Municipal Services)

