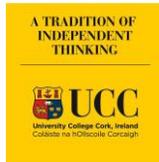




# Infection Prevention and Control A Foundation Course 2015



---

---

---

---

---

---

---

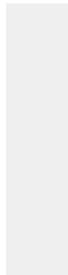
---

## Occupational Health Program

*Making sure candidates are fit for work, do not pose a risk and remain protected*

*This is achieved by:*

- **Health Assessments**  
Skin diseases, open wounds, infection
  - **Immunisation Programs**
  - **Sharps injury prevention and management**
- Also:*
- **Fitness to use Personal Protective Equipment**
  - **Chemical Agents and Disinfectants protection**
  - **Education Programs**



---

---

---

---

---

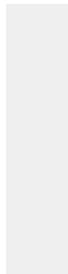
---

---

---

## Immunisations

- Hepatitis B (immunity –infectivity also if EPP)
- Chicken Pox
- BCG
- Measles Mumps Rubella
- Influenza



---

---

---

---

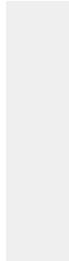
---

---

---

---

# Sharps Injury Prevention and Management



---

---

---

---

---

---

---

---

---

---

# Prevention of Sharps Injuries in the Healthcare Sector Regulations 2014

- Aims
  - To achieve the safest possible working environment
  - To prevent workers' injuries caused by all medical sharps
  - To protect workers at risk
  - To set up an integrated approach establishing policies in risk assessment, risk prevention, training, information, awareness raising and monitoring
  - To put in place response and follow up procedures



---

---

---

---

---

---

---

---

---

---

# Preventive measures

- Hepatitis B vaccination
- Standard precautions
- Safer techniques
- Disposing of used sharps correctly
- Safety devices designed to prevent injuries
- Appropriate barriers such as gloves, eye and face protection, or gowns when contact is possible
- Care during removal of waste.



---

---

---

---

---

---

---

---

---

---

## EMI guidelines



## Risk of Infection Following a Needlestick Exposure

3 main viruses

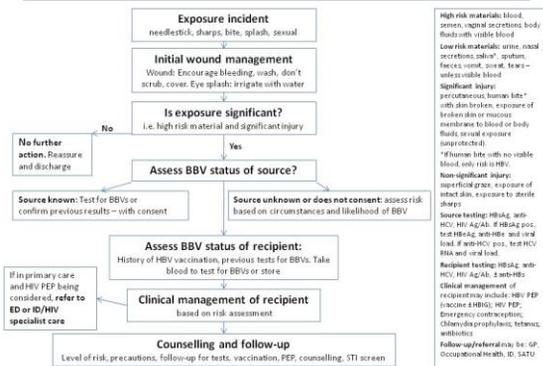
1. Hepatitis B: 1.9% - > 40% (3 to 30%)
2. Hepatitis C: 2.7% - 10% (about 3%)
3. HIV: 0.2% - 0.44% (about 0.3%)

Lower risk from mucous membrane exposure

Gorbender, New Engl J Med 1995

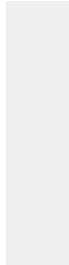


### Management of injuries where there is risk of bloodborne virus (BBV) transmission



### If an exposure occurs

- First Aid
- Bloods taken from source patient
- Bloods taken from staff member
- Bottles sent to microbiology
- Marked urgent
- Fill out yellow BBFE form
- Follow-up with Occupational Health



---

---

---

---

---

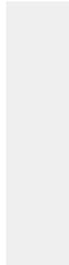
---

---

---

### Treatment post known positive exposure

- HBV: If vaccinated none required and if not Hep B immunoglobulin and/or vaccination
  - Within 24 hours no later than 7 days
- HCV: No available vaccine
  - Importance of prevention
- HIV: If known positive source - PEP
  - Begin asap within hours.



---

---

---

---

---

---

---

---

### Unknown source

- Exposure risk
- Whether source is likely to be positive
- Baseline bloods
- Follow-up bloods
  - 6 weeks, 3 months



---

---

---

---

---

---

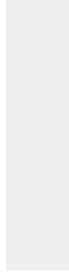
---

---

### Reporting of Accidents, Incidents and Dangerous Occurrences



- To the **person in charge** any work related accident, incident or near miss event, without unreasonable delay. This includes sharps injuries and near miss events
- Part X of the Safety, Health and Welfare (General Application) Regulations 1993, where a work related injury results in an employee being absent from work for 3 consecutive days or more, the employer must report it to the **Health and Safety Authority (HSA)** on line or by using an Form IR<sub>1</sub>



---

---

---

---

---

---

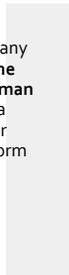
---

---

### Reporting of Accidents, Incidents and Dangerous Occurrences



- Biological Agents Regulations 1994 and amendment Regulations 1998, the employer must inform the HSA of any work related sharps injury where the **circumstances of the event are such that the incident could cause severe human infection/human illness** e.g. a percutaneous injury with a contaminated sharp where the source patient is known or found to be positive for hepatitis B, hepatitis C or HIV. (Form IR<sub>3</sub>)



---

---

---

---

---

---

---

---