

**Course**

**C1. Definitions, methods, basic processes** 2 hours

Subsections:

1. Concept definition
2. Epidemiological method vs. clinical method
3. Indicators
4. Infectious process
5. Epidemic focus (outbreak)
6. Epidemic process (predisposing factors)

**C2. Epidemic process** 2 hours

Subsections:

1. Source of infection
2. Mode of transmission
3. Susceptible host

**C3. Epidemic process and epidemiologic studies** 2 hours

Chapter: Epidemic process

Subsections:

1. manifestation forms

Chapter: Epidemiologic studies

Subsections

1. observational studies (descriptive and analytic studies)
2. trials (clinical trial and community trial)
3. errors (random error and systematic error)

**C4. Epidemiologic surveillance** 2 hours

Subsections:

1. Definition
2. The utility and attributes of surveillance system
3. Data collection and data analysis
4. Data interpretation and data dissemination
5. Evaluation

**C5. Epidemiology, prevention and control of infections** 2 hours

Subsections:

1. with respiratory transmission
2. with digestive transmission

**C6. Epidemiology, prevention and control of infections** 2 hours

Subsections:

1. with parenteral transmission
2. with sexual transmission
3. healthcare associated (nosocomial)

**Total 12 hours**

## Practical

<b>P1. General on passive and active immunoprophylaxis</b>	2 hours
Subsections: <ol style="list-style-type: none"><li>1. indications</li><li>2. biological products</li><li>3. principles of administration</li><li>4. generalities on vaccines</li></ol>	
<b>P2. Active immunoprophylaxis</b>	2 hours
Subsections: <ol style="list-style-type: none"><li>1. National Immunization Program</li><li>2. Vaccines used in NIP</li></ol>	
<b>P3. Active immunoprophylaxis</b>	2 hours
<ol style="list-style-type: none"><li>1. Vaccines recommended for risk groups</li><li>2. Optional vaccines</li></ol>	
<b>P4. Intervention in communicable disease epidemiology (epidemiologic investigation stages)</b>	2 hours
Subsections: <ol style="list-style-type: none"><li>1. Preliminary epidemiological investigation</li><li>2. Definitive epidemiological investigation</li></ol>	
<b>P5. Decontamination, disinfection, sterilization and healthcare waste management</b>	2 hours
Chapter: Decontamination	
Subsection: <ol style="list-style-type: none"><li>1. Definition</li><li>2. Classification</li><li>3. Means of decontamination</li><li>4. Levels of decontamination</li></ol>	
Chapter: Sterilization	
Subsection: <ol style="list-style-type: none"><li>1. Definition</li><li>2. Classification of instruments</li><li>3. Means and methods of sterilization</li><li>4. Sterilization controlul</li></ol>	
Chapter: Healthcare waste management	
Subsection: <ol style="list-style-type: none"><li>1. Definition</li><li>2. Classification</li><li>3. Collection of waste</li><li>4. Packaging waste</li><li>5. Temporary storage</li><li>6. Transport</li><li>7. Final elimination</li></ol>	
<b>P6. Universal precautions. Accidental exposure to biological products</b>	2 hours
Chapter: Universal precautions	
Subsections: <ol style="list-style-type: none"><li>1. Goal</li><li>2. Concept</li><li>3. Implementing rules</li></ol>	
Chapter: Accidental exposure to biological products	
Subsections: <ol style="list-style-type: none"><li>1. HBV post exposure management</li><li>2. HCV post exposure management</li><li>3. HIV post exposure management</li></ol>	
	<b>Total 12 hours</b>

## References

1. Bocsan IS. Epidemiologie practica pentru medicii de familie. Cluj-Napoca: Ed. Medicala Universitara "Iuliu Hatieganu", 1999.
2. Ivan A. Tratat de epidemiologie a bolilor transmisibile. Iasi: Ed. Polirom, 2002
3. Baicus C. Dictionar de epidemiologie clinica si medicina bazata pe dovezi. Ed. Medicala, Bucuresti, 2002
4. Ciufecu C. Esential si actual in epidemiologia bolilor transmisibile. Ed. National, Bucuresti, 2005
5. Băncescu A. Elemente de epidemiologie în medicina dentară. București: Cartea Universitară, 2005.
6. Băncescu A. Supravegherea și controlul infecțiilor în practica stomatologică. București: Cartea Universitară, 2005;
7. Porumboiu I, Bocsan I S – Vaccinuri si vaccinari in practica medicala, Ed. Medicala Universitara I. Hatieganu Cluj-Napoca, 2005
8. Pitigoi D, Ciufecu C. Ghid practic de vaccinari pentru medicii de familie. Ed. National, Bucuresti, 2007
9. Heymann DL. Manual de management al bolilor transmisibile. Editia 19-a. Bucuresti: Editura Medicala Amaltea, 2012.
10. Burlea M. (sub red.) – Recomandari de vaccinare in pediatrie, Ed. Medicala Amaltea, 2012
11. Gordis L. Epidemiology. 5th Edition. Philadelphia: Saunders Elsevier, 2014.