

**Al-Mustaqbal University College**  
**Department of Nursing**



# **Pathophysiology**

## **Lecture \8**

**By:**

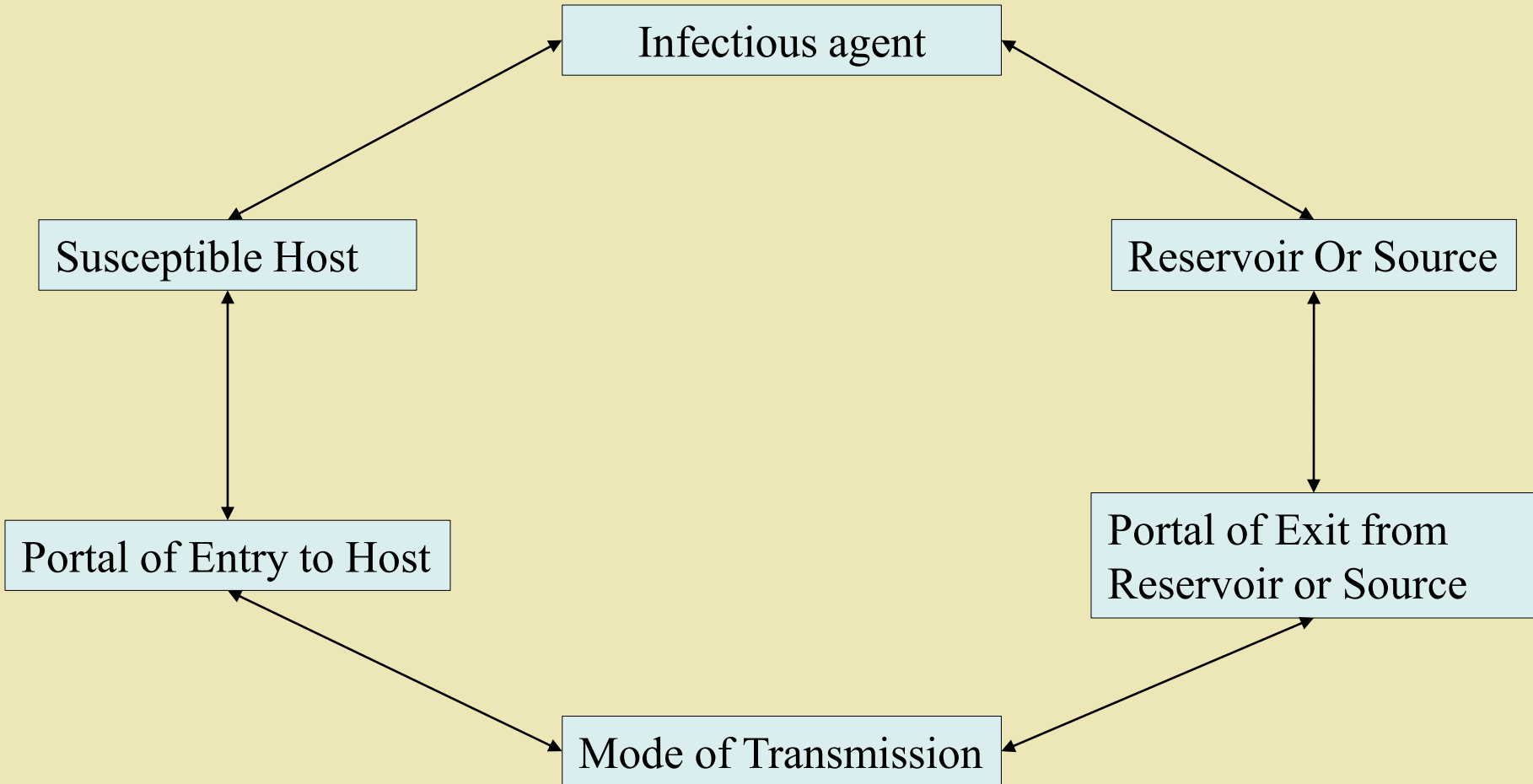
**Dr. Mahdi Hamza Al-Taei**

**Dr. Ali Faris Al- saadi**

# Infection Process

- Pathogens
  - Microorganisms that produce disease
- Infection
  - Invasion and multiplication of microorganisms
  - Results in injury

# Chain of Infection



# Chain of Infection

- Agent, host, and environment
  - Biological agents
  - Chemical agents
  - Physical agents
  - Susceptible host
  - Compromised host

# Chain of Infection

- Modes of transmission
  - Contact
  - Airborne
  - Vehicle
  - Vector-borne

# Normal Defense Mechanisms

- Nonspecific immune defense:
  - Skin and normal flora
  - Mucous membranes and sneeze, cough, and tearing reflexes
  - Elimination and acidic environment
  - Inflammation

# Normal Defense Mechanisms

- Specific immune defense:
  - Humoral immunity
  - Acquired immunity
  - Vaccination

# Stages of the Infectious Process

- Incubation period
- Prodromal stage
- Illness stage
- Convalescent stage



# Hygiene

- Factors influencing hygienic practice:
  - Body image
  - Social and cultural practices
  - Personal preferences
  - Socioeconomic status
  - Knowledge

**Any Question?**