

Epidemiology in public health planning

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Opportunities

Threats

Strength

Weakness

Portfolio analysis

Health situation analysis

Priorities setting

Gap analysis

Strategic direction

Epidemiology and prevention of AIDS

AIDS: Acquired Immune Deficiency Syndrome

HIV: Human Immuno-deficiency Virus

opportunistic infection

Pandemic

Epidemiology and Control of Nosocomial Infection

Nosocomial or Hospital-acquired infection

Measures of nosocomial infection

Factors influencing hospital infection

- Host susceptibility
- Environment
- Microbial agents

Prevention hospital infection

- Prophylactic measures in therapeutics

 - Close urinary drainage, Intravenous catheterization,
Tracheostomy tube

- Isolation

 - Period of communicability

- Sterilization and disinfection

 - Sterilization

 - Disinfection

- Environmental control

 - Airborne contamination

 - Surface contamination

Prevention hospital infection

- Surveillance
- Identification of hospital reservoirs of infection
- Hospital personal health program
- Regulation for hospital visitors
- Architectural control of patient ward
- In-service training

Confounding and Its Control in Epidemiology

- Confounding
- Exposure
- Disease / Outcome
- Exposure disease association
- Crude relative risk / odds ratio
- Adjusted relative risk / odds ratio

Control of confounding

Confounder , Confounding

- Control in design

Randomization , Restriction , Matching

- Control in analysis

Stratified analysis , Multivariate analysis

- Adjusted relative risk / odds ratio

Control in design

- Randomization

Confounder

- Simple randomization

- Block randomization

- Stratified randomization

Staging

- Restriction

Reference

- Annette Bachand, Introduction to Epidemiology: Colorado State University, Department of Environmental Health
- Leslie Gross Portney and Mary P. Watkins (2000). Foundations of Clinical Research: Applications to Practice. Prentice-Hall, Inc. New Jersey, USA