

Epidemiology - Course Study Sheet

Course: Epidemiology Cluster: Health and Nursing Foundations

Studies disease frequency, association, study designs, bias, confounding, screening, and causal reasoning.

Five-module course map

Module	Active evidence to produce
1. incidence and prevalence	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. measures of association	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. study designs	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. bias and confounding	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. screening and causal inference	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

define population exposure outcome and time, choose a design or measure, build the comparison, quantify uncertainty, and identify bias

Representative application

Compare risks in a cohort and explain why association, confounding, selection, and measurement affect causal interpretation.

Weekly study cycle

1. Preview the objective and write two questions. 2. Attend or engage and capture decisions rather than every sentence. 3. Reconstruct the main idea within 24 hours. 4. Complete independent practice. 5. Analyze the first unsupported move on each error. 6. Use feedback. 7. Schedule a delayed mixed recheck.

Self-check before moving on

Can you explain the idea without notes, complete a fresh task, detect a near-miss, verify the result, and state a limitation? Watch especially for: confusing prevalence with incidence or treating a relative association as causal without absolute risk and study limitations.

What to save

an epidemiologic analysis with population, measures, design, bias assessment, uncertainty, and conclusion

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