

UNIVERSITY OF OTTAWA

Population Health Risk Assessment: Applications in Health Geoscience

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What is “Population Health Risk Assessment”?

Risk assessment is a process to *characterize risk* using scientific methods.

Population health risk assessment is the comprehensive assessment of health risks in the general population based on *genetic & biological, environmental & occupational, social & behavioural* determinants of health.

This forms the basis for evidence-based *population health risk policy analysis*, and, ultimately, cost-effective *population health risk management decisions*.



Population Health

Regulatory
Action

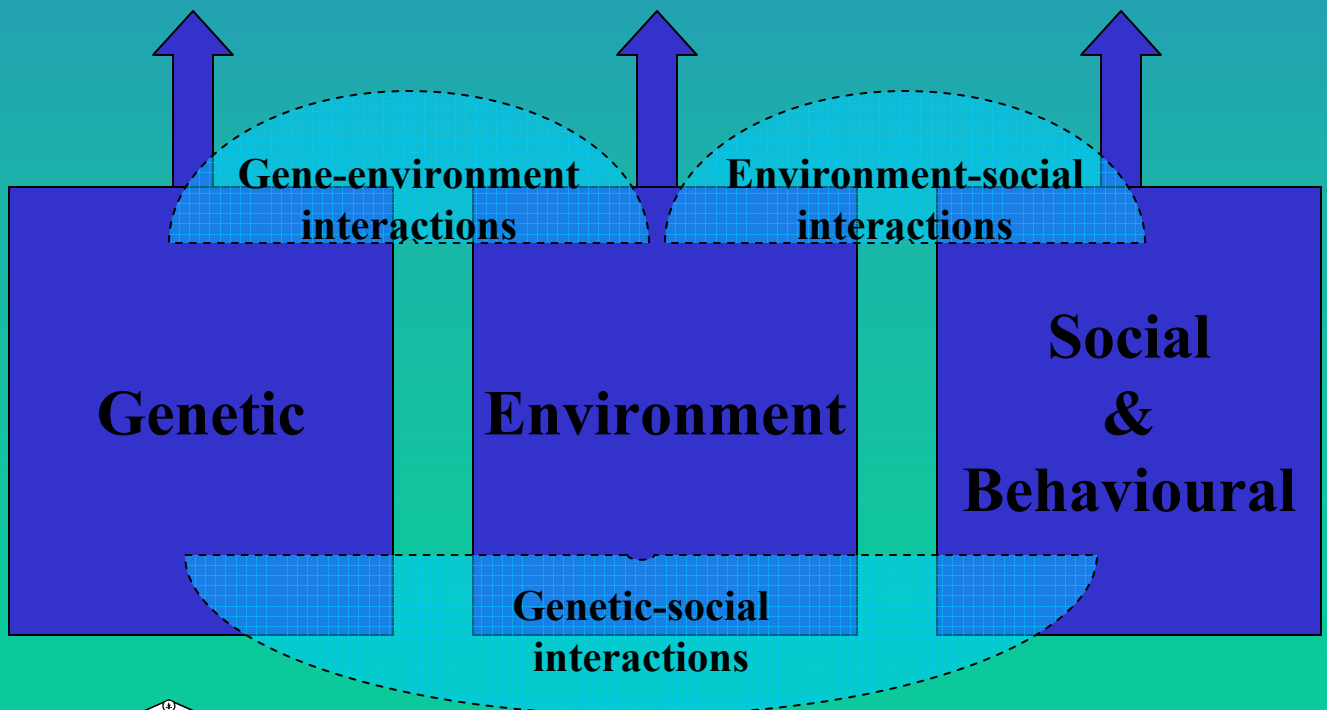
Community
Action

Risk
Communication

Health
Care
Delivery

Health Risk Policy Analysis
Evidence Based Policy

Health Risk Science
Determinants and Interactions



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Population Health

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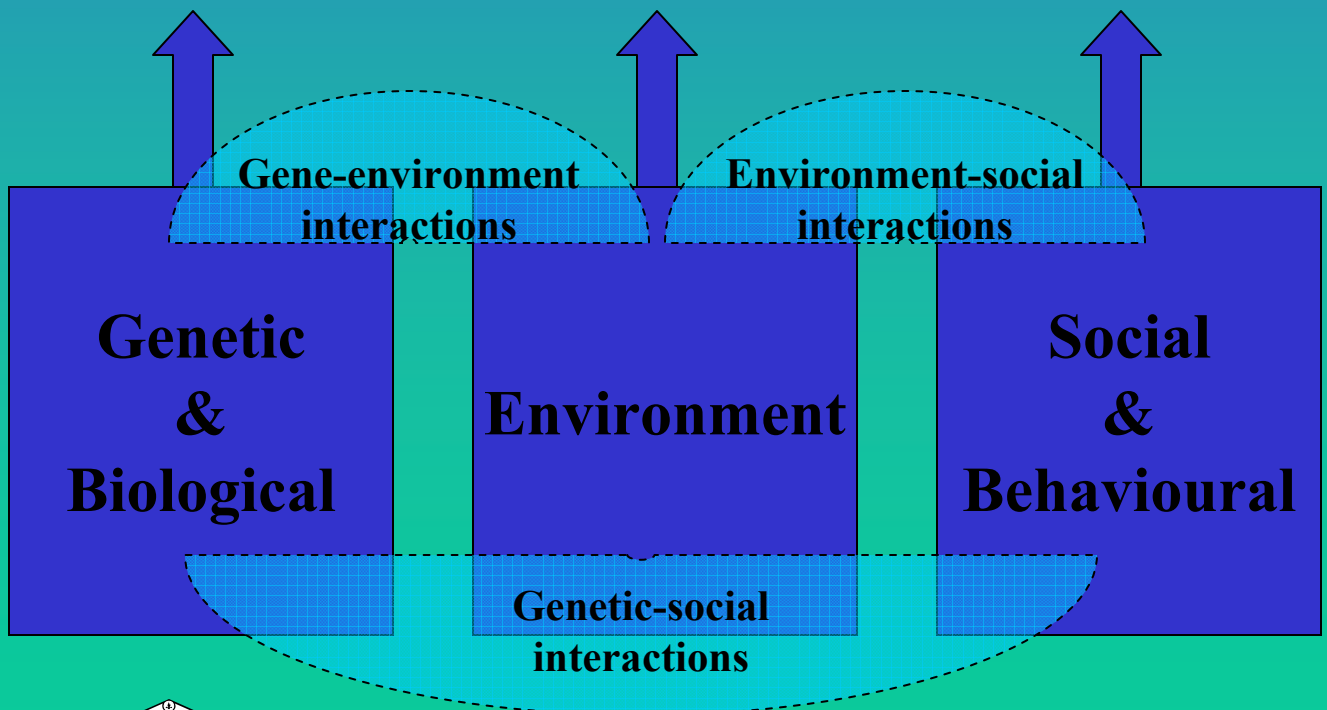
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Existing Population Health Risks

Diet

Air pollution

Infectious disease

Ionizing radiation

Lifestyle

Pesticide residues

Water pollution

Prions

“Assess and Manage”



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Emerging Population Health Risks

Cellular telephones?

Biotechnology products?

Superbug?

Child poverty?

Endocrine disrupting chemicals?

Climate change?

Youth violence?

Genetically modified crops?

“Anticipate and Prevent”

