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Nursing-Sensitive Quality Indicators in Public Health

Monique Lloyd, RN, PhD

Sara Clemens, RN, MN

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Agenda

- Research question
- Search strategy
- Search results
- Findings of included studies
- Limitations of included studies
- Recommendations

Investigative Team

- Monique Lloyd, RNAO
- Sara Clemens, RNAO
- Katie Dilworth, President, CHNIG
- Jo Ann Tober, President, ANDSOOHA
- Karen Quigley-Hobbs, President Elect, ANDSOOHA
- Carol Timmings, CNO, Toronto Public Health



The Research Question

***“How is Public Health Nursing
quality measured?”***

Research Question

Population: Clients of public health nursing with no limits on type of program or service

Intervention: Public Health Nursing

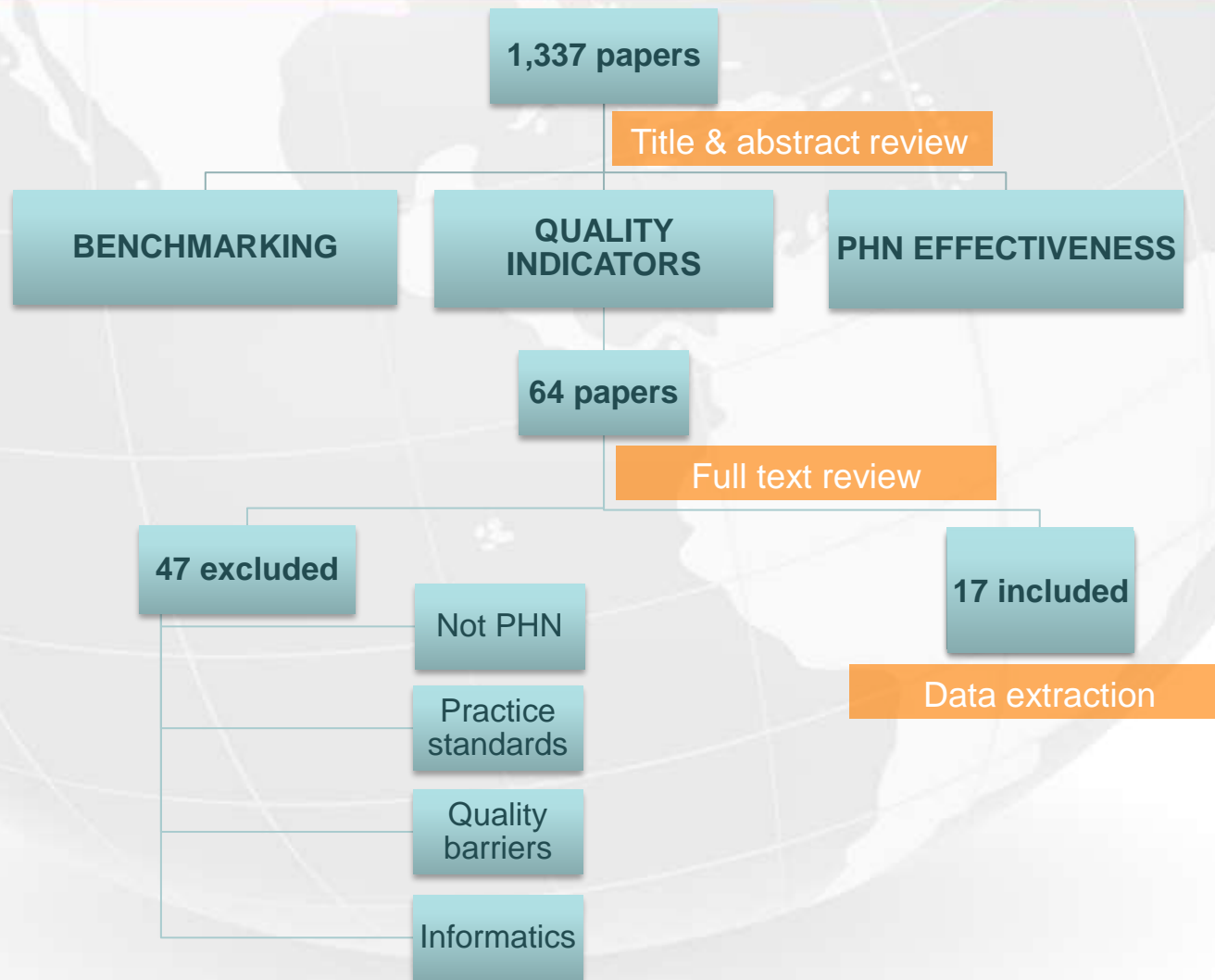


Outcome: indicators, performance measures, quality assessment / assurance / monitoring

Inclusion Criteria

- Focus of paper
 - Indicators
 - A priori identification
 - Public health
 - Public health nursing





Search Results

Types of Papers	Number of Papers
Research studies (1-2,7-9,12-13)	7
Narrative articles (3,6,14-15)	4
Theoretical papers (10-11)	2
Reviews (4-5,16-17)	4

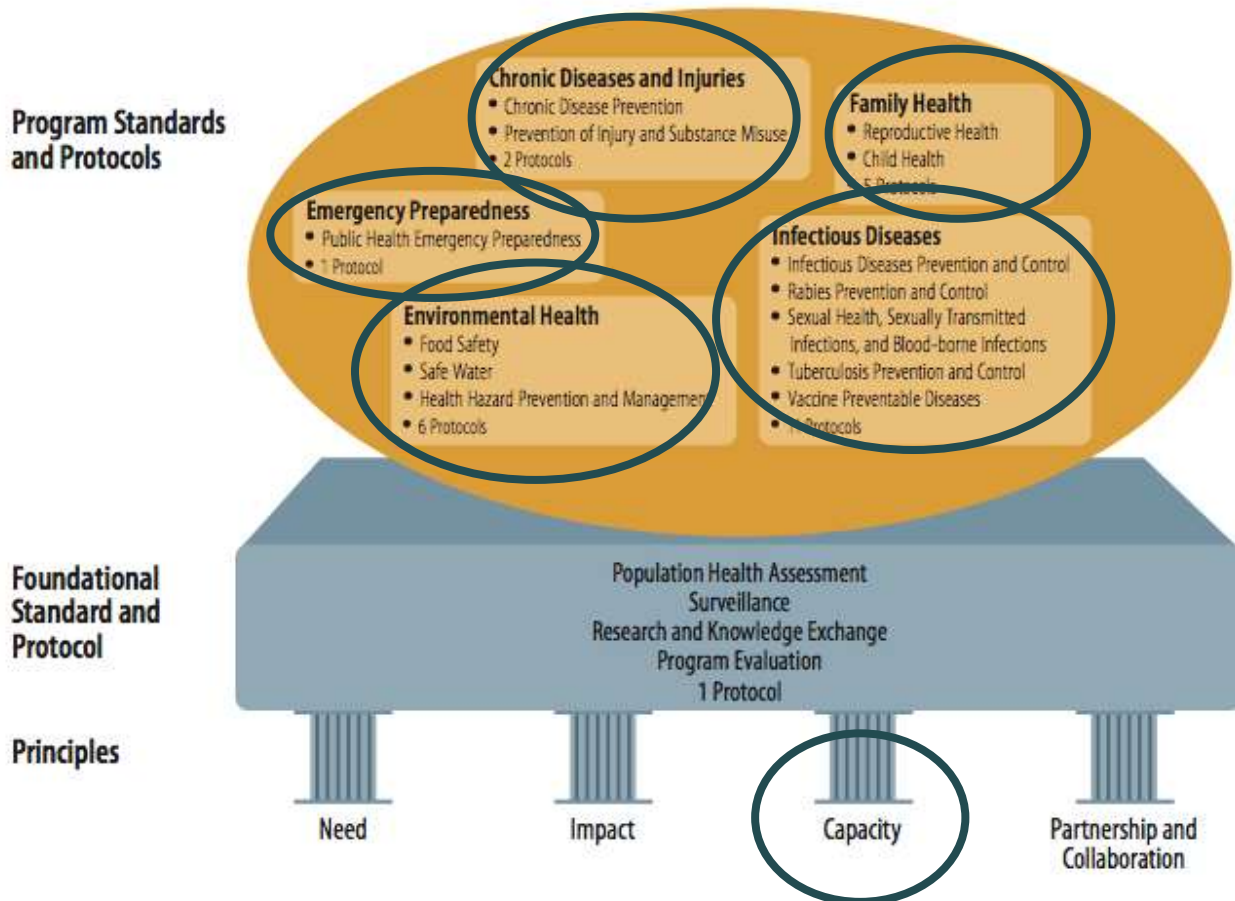
Search Results

Purpose of Paper	Number of Papers
Describe existing indicator sets (3-4,14-15)	4
Propose theoretical model of service quality (8,10-11)	4
Program evaluation (5-6,17)	3
Indicator validation (1-2,7,9,12-13,16)	7

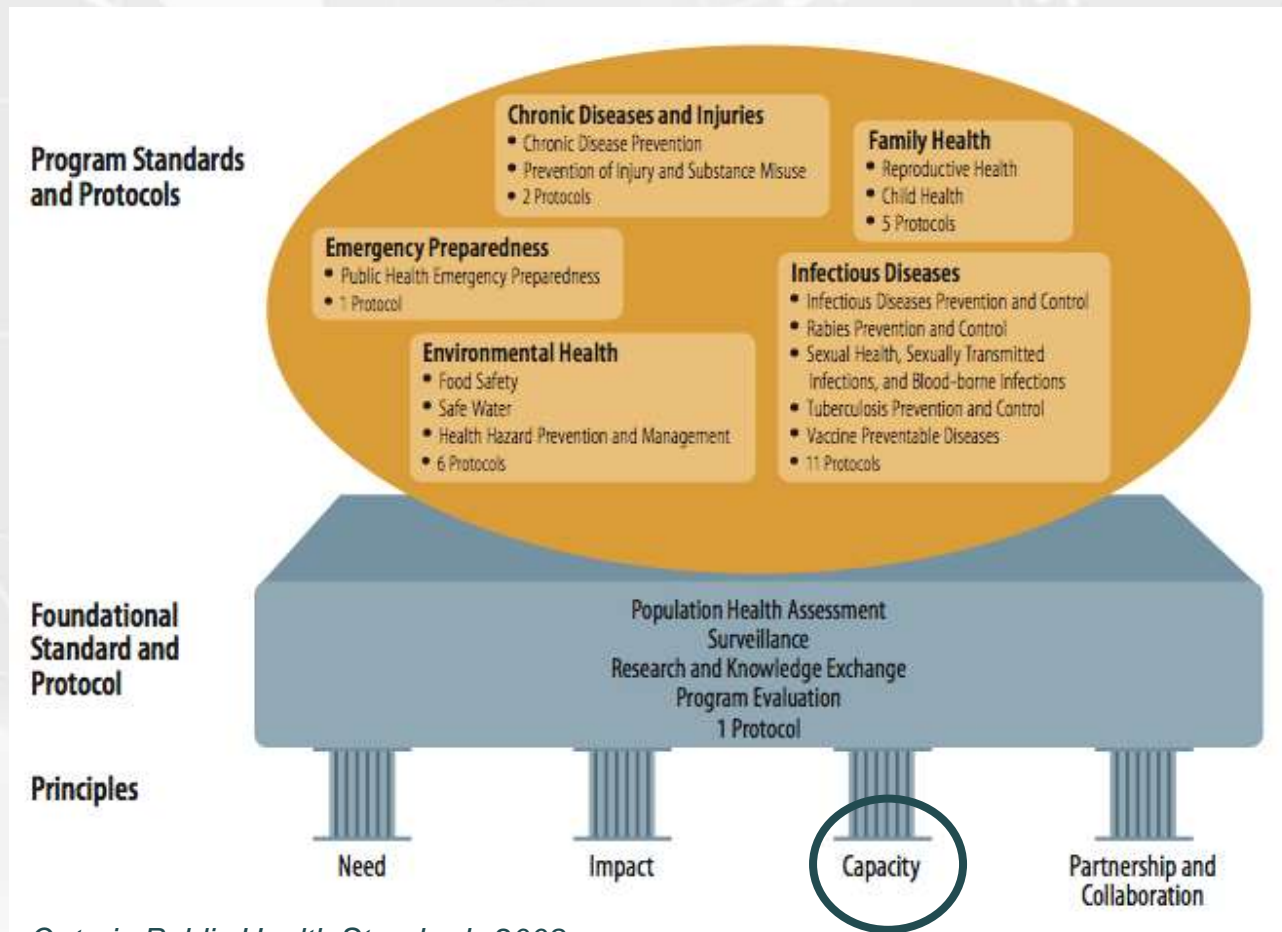
Search Results

'Clinical' Topics	Number of Papers
Community-based non-acute care (1-2,4,9,14-15)	6
School nursing (3,7,10,13,16)	5
Maternal/family-child health (5,8,17)	3
Tobacco use (6)	1
Patient safety (11)	1
Patient-population (12)	1

Organizing Framework Ontario Public Health Standards 2008



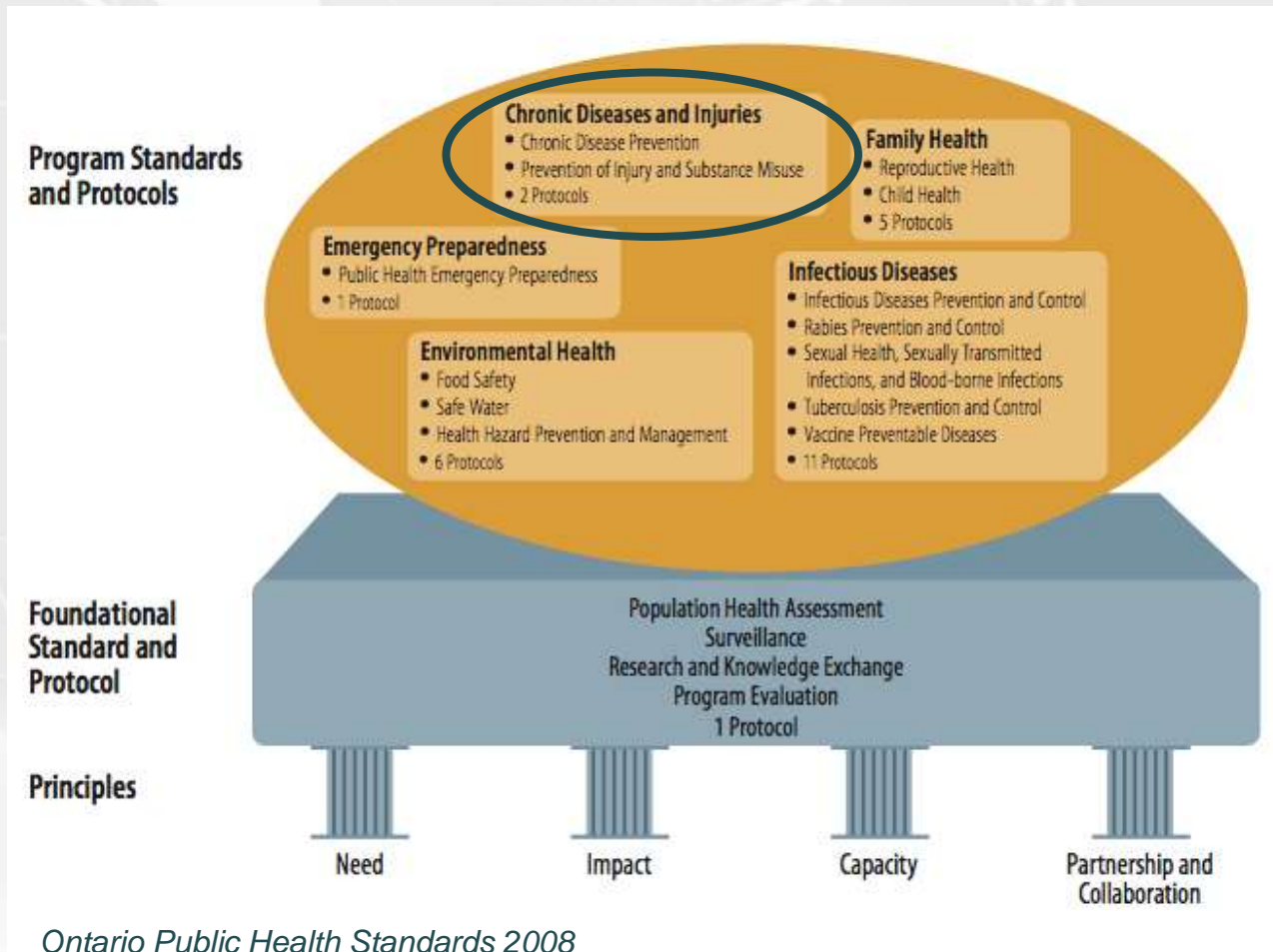
Findings – Capacity



Findings - Capacity

- Intensity of PHN
 - # of nursing encounters or contacts
- Ratio nurses to “clients”
- Skill mix
 - Number of unlicensed personnel
- BScN preparation
- Interagency & community coalitions

Findings – Chronic Diseases



Findings – Chronic Disease & Injuries

Risk reduction

- Public education: availability & attendance / year
 - # of clients attending CV disease education
 - Nutrition and exercise programs
 - Participation of target population in attending risk reduction / screening programs
- Self-management education
- Obesity rates
- Health disparities – Diabetes

Findings – Chronic Disease & Injuries

Tobacco cessation

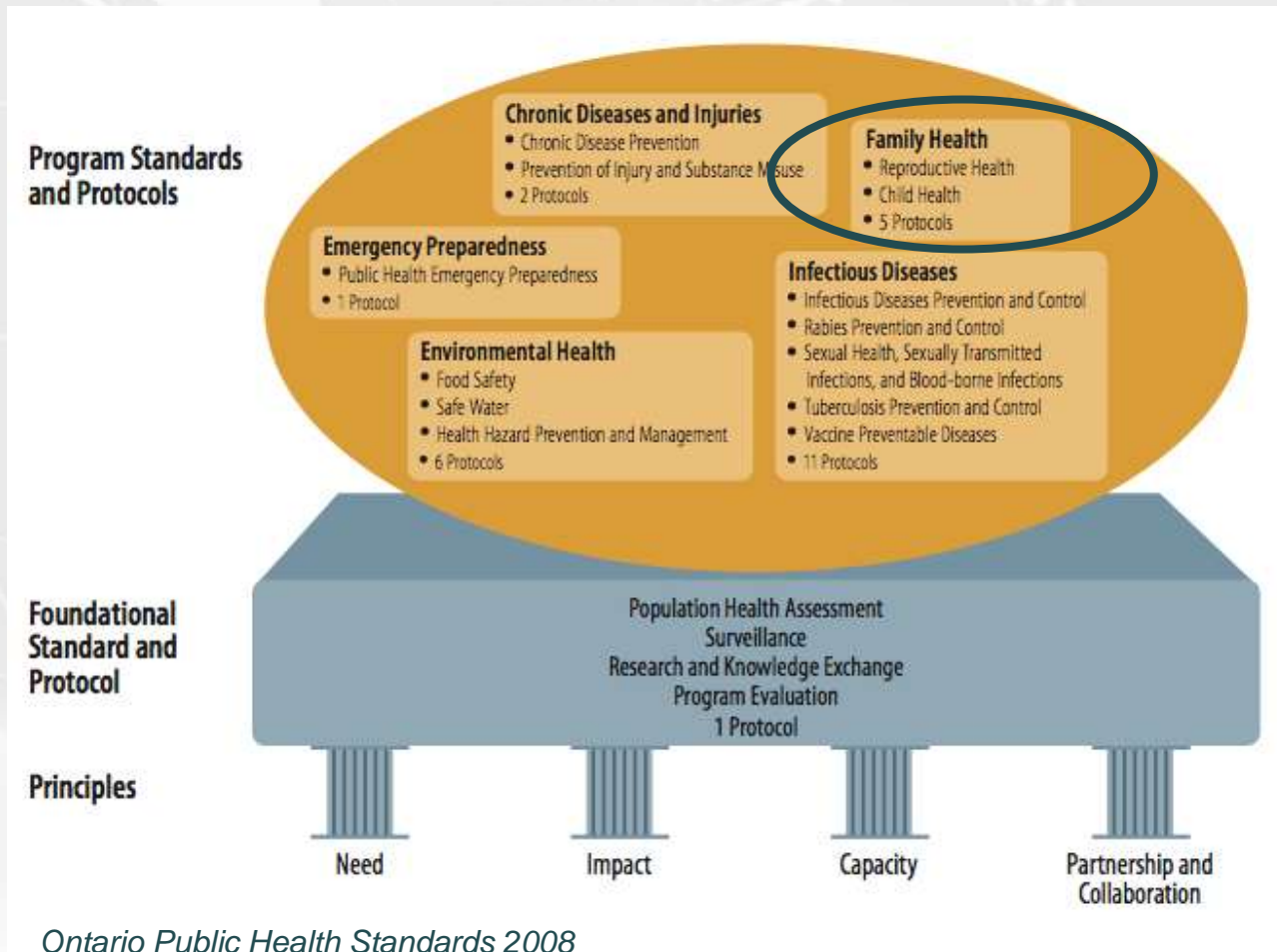
- # of smoke-free environments
- Population awareness campaigns
- Implementation of tobacco marketing policies
- Prevention / risk reduction programs for tobacco use
- Community interventions for tobacco cessation

Findings – Chronic Disease & Injuries

School Health

- Drug use
 - Rates of use
 - Alcohol and drug abuse awareness
 - Tobacco cessation interventions
- Curriculum
 - Health education (nutrition and exercise)
- Level of self-care management of health & symptoms
- Implementation of school nutrition policies

Findings – Family Health



Findings – Family Health

Infant & Child Health

- Birth & abortion rates
- Morbidity and mortality (failure to thrive)
- Breastfeeding rates
- Physical activity
- Health disparities – infant mortality

Maternal Health

- Physiological
- Psychological
- Health habits
- Maternal-child interaction
- Rates of 1st trimester prenatal care

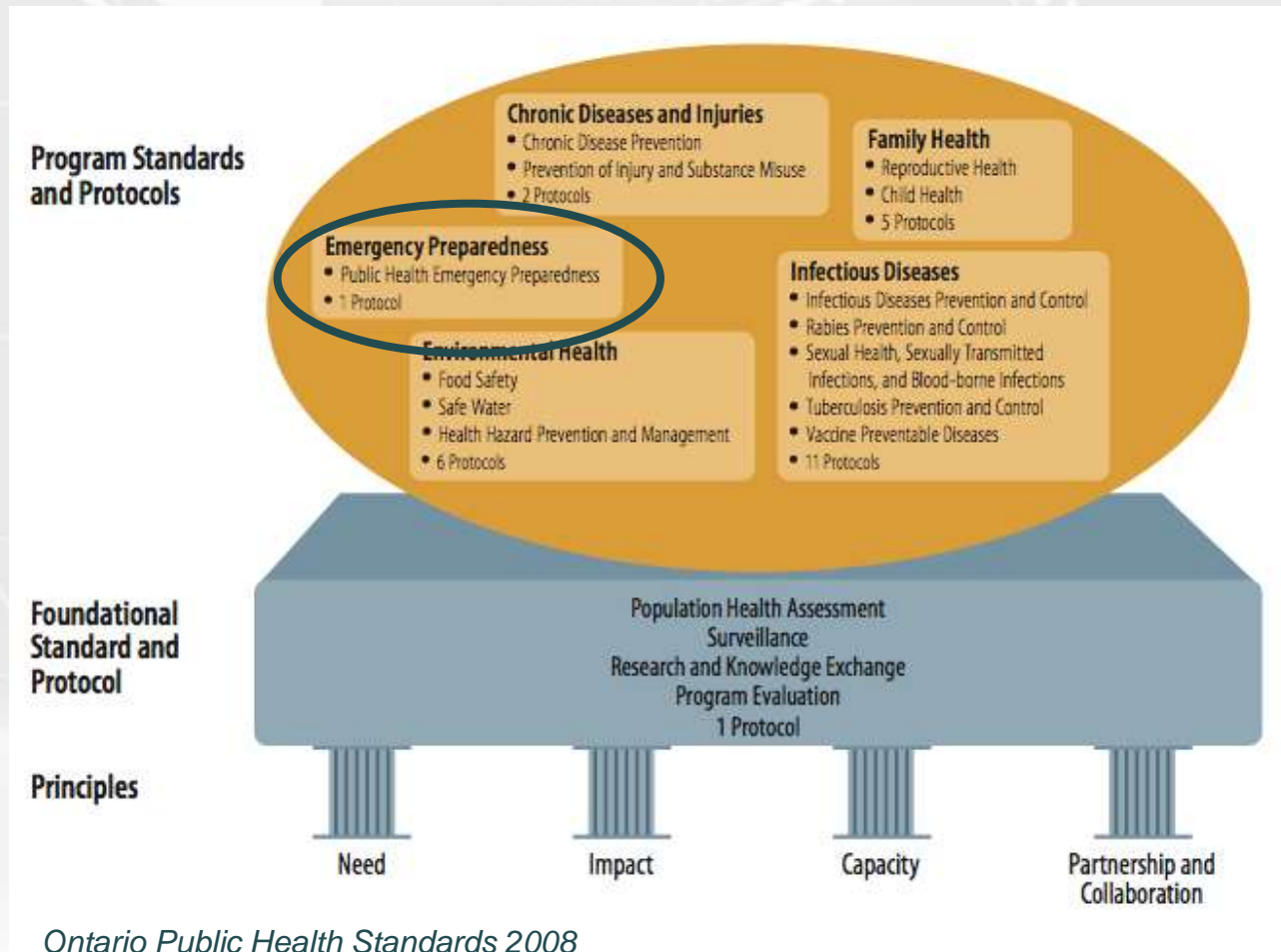
- Availability & utilization rates of community services

Findings – Family Health

School health

- # of days missed due to illness
 - Improved hygiene (gastroenteritis)
- Asthma admission rate
- Failure to rescue
- Referrals (vision, hearing deficits)
- Knowledge, self-esteem, self-efficacy skills
 - Attendance rates at health promotion programs
- Delay of onset of sexual behaviour
 - # of teen pregnancies, births, abortions
- Early identification of eating disorders
- Levels of physical activity

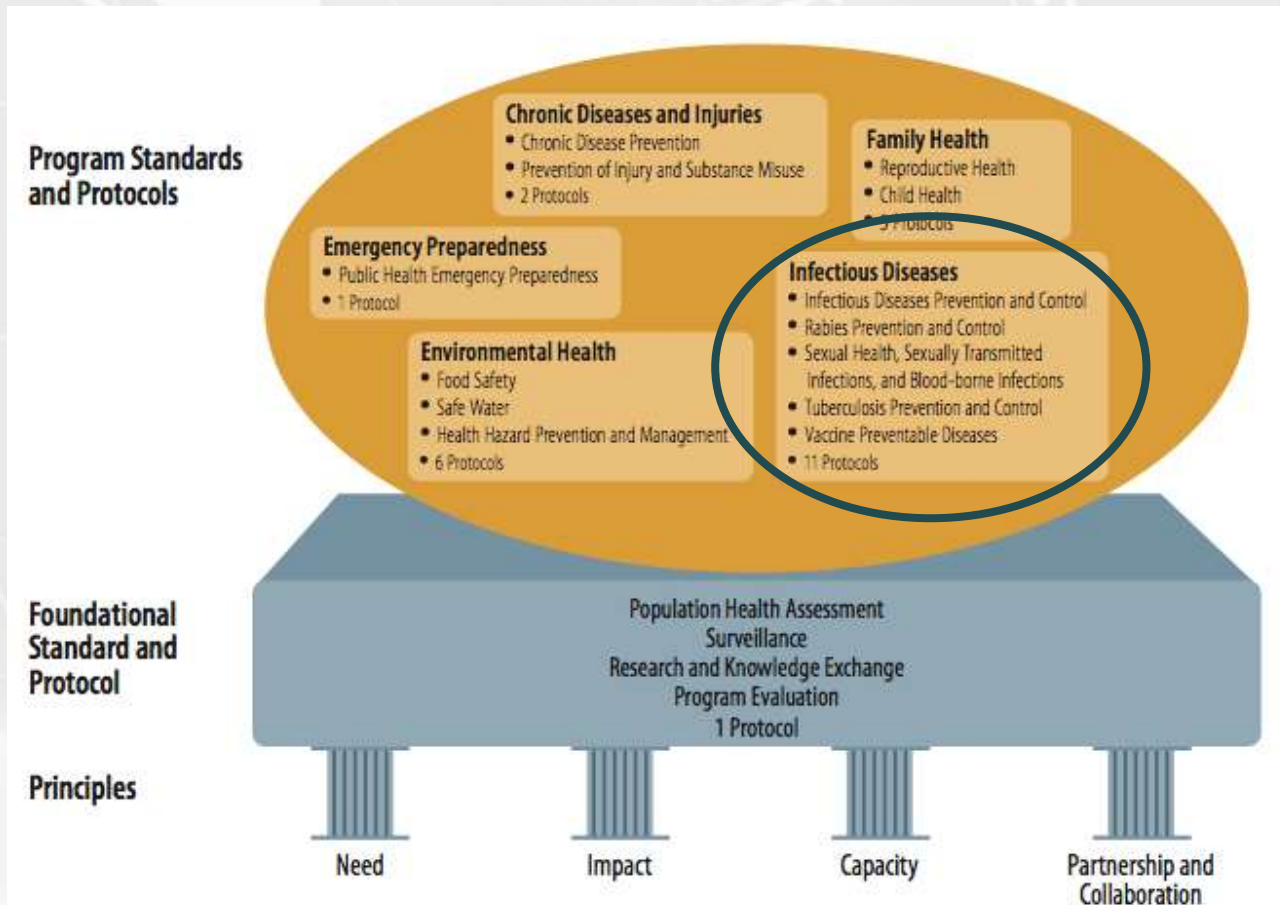
Findings – Emergency Preparedness



Findings – Emergency Preparedness

- # of trained staff members
- Schools
 - Number of 'safe schools'

Findings – Infectious Diseases



Findings – Infectious Disease

Immunization

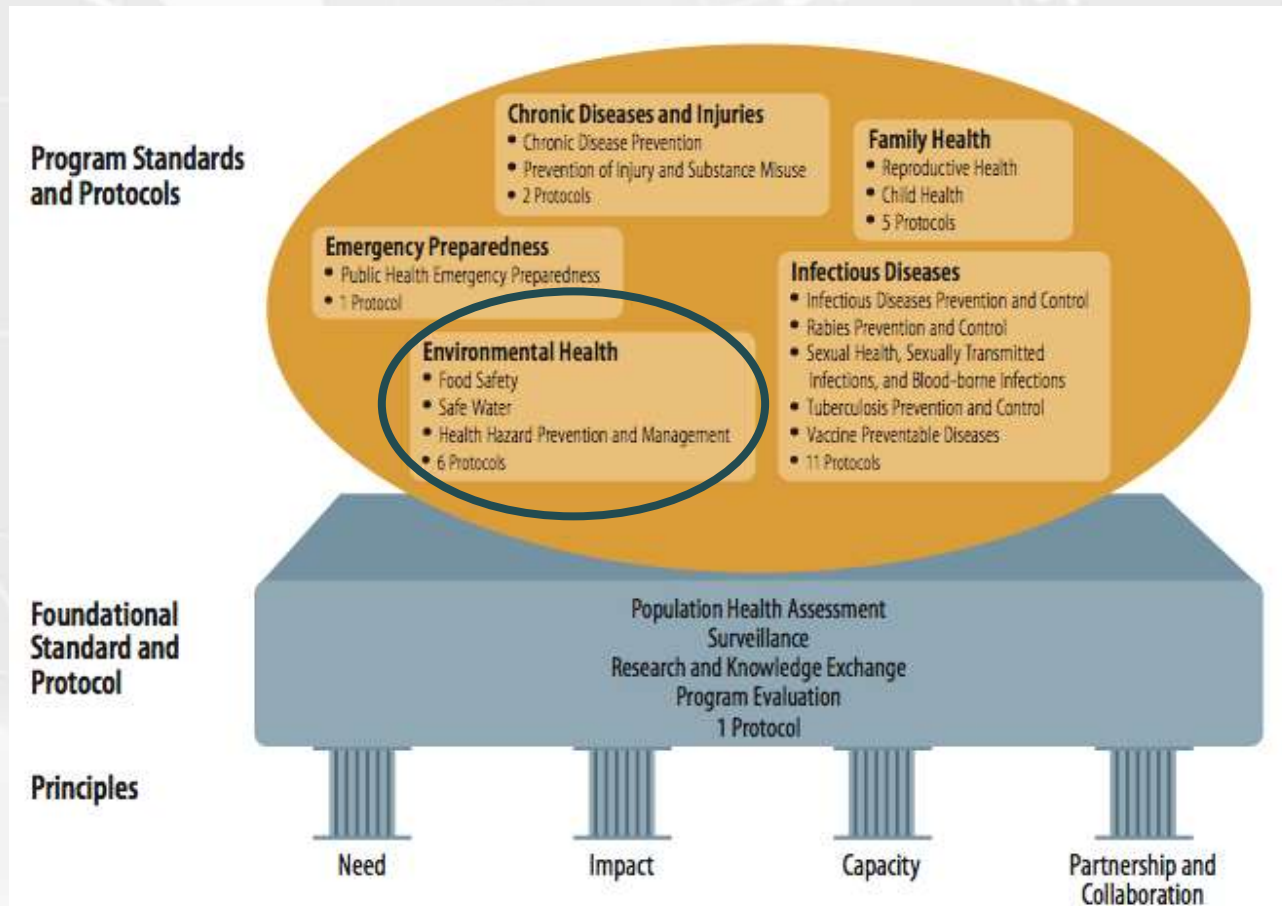
- Sufficient availability
- Rates of early childhood immunization
- Incidence of vaccine-preventable disease
- Screening of targeted high-risk groups
- Public education of benefits

Findings – Infectious Disease

Disease Surveillance

- Rates of community disease
 - STD rates per 100,000 population
 - School surveillance
- Accurate & effective communication of outbreak information
- Health disparities - tuberculosis

Findings – Environmental Health



Findings – Environmental Health

- Community assessments
 - Need for homeless shelters
- Rates of exposure to environmental hazards
 - Rates of lead exposure in children

Findings – Facilitators to Quality

“What aspects of PHN facilitate quality outcomes?”

Organization-level capacity

Evidence-based practice

Professional development

Findings – Barriers to Quality

“What negatively impacts nursing quality in public health?”

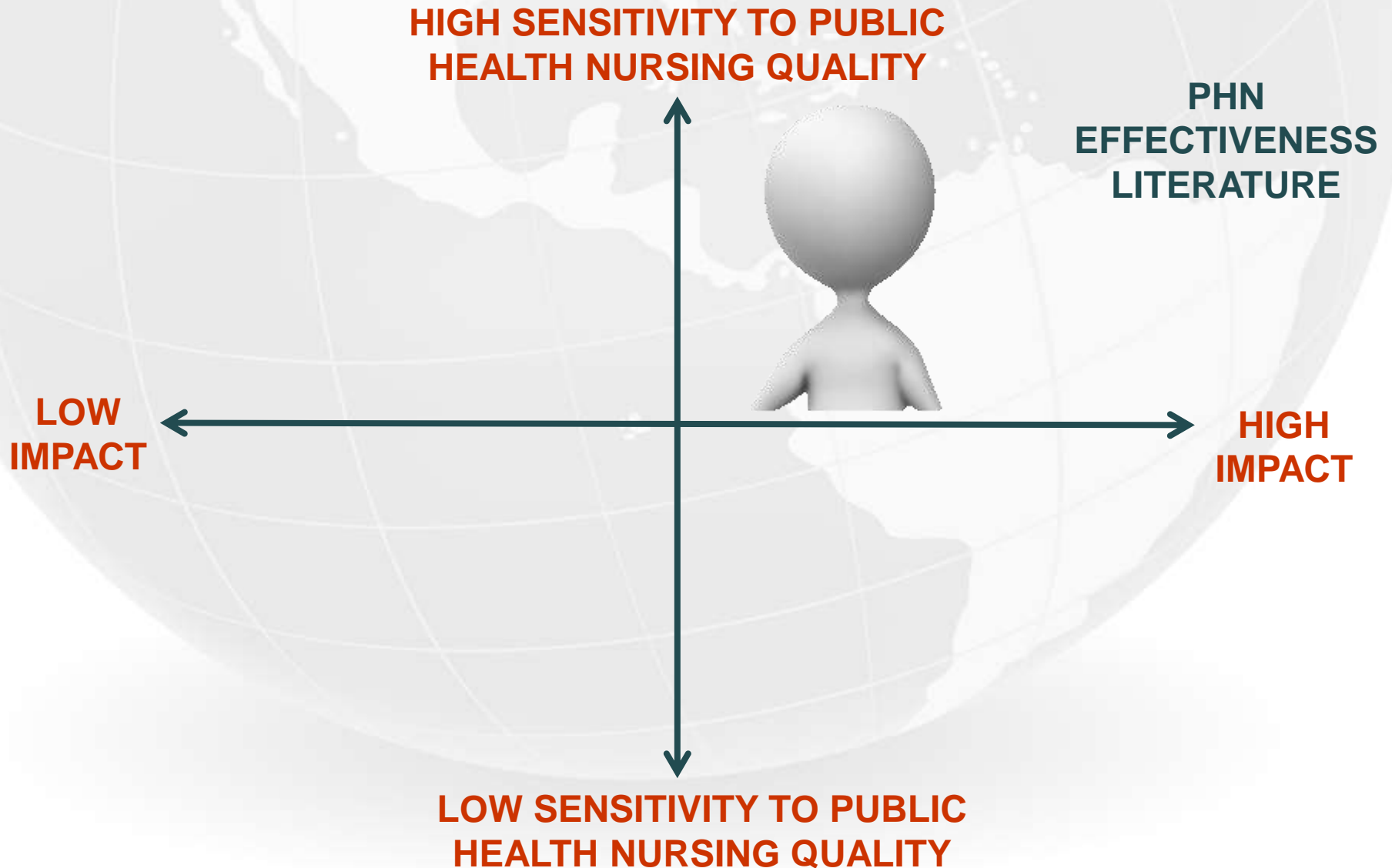
Lack of electronic documentation

Minimum staffing levels

Large caseloads

Limitations of Included Studies

- Process vs outcome indicators?
- Evidence-base for indicators?
 - “Popular” interventions & outcomes
- Nursing-sensitivity?
 - Public health nurses
 - Ontario public health





Thank you



Included Studies

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9. Head, B. J., Aquilino, M. L., Johnson, M., Reed, D., Maas, M., & Moorhead, S. (2004). Content validity and nursing sensitivity of community-level outcomes from the Nursing Outcomes Classification (NOC). *Journal of Nursing Scholarship, 36*, 251-259.
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