# The making of an evidence champion

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### **Presenter Disclosure**

### Linda Olson Keller

The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose

# A Culture of Excellence: Evidence-based Public Health Practice



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### Objectives what you will learn!

- Describe elements of a continuing education program to prepare public health nurses for evidence-based practice
- Describe a model for rating the strength and quality of evidence from research and practice
- 3. List three examples of effective Champion roles

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### Barriers

- ✓ Low comfort with search techniques
- ✓ Perceived lack of time to search for the best evidence
- Challenges with critically appraising research
- √ Negative attitudes toward research
- Lack of administrative/ organizational support

### **Facilitators**

- ✓ Individual knowledge & EBP
- ✓ Beliefs that EPB improves outcomes
- ✓ Belief in ability to implement EBP
- EBP ✓ Mentors/teachers who are
- skilled in EBP

  Administrative/organizational support
- ✓ Time, Patience & Ongoing Support

# Champion

"Individuals who dedicate themselves to supporting, marketing, and 'driving through' an innovation"

Greenhalgh, et al, 2005



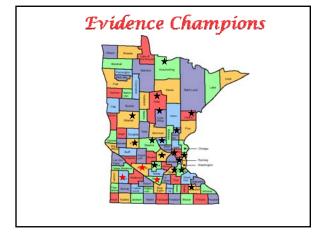
### **Evidence Champion Qualifications**

- 1. Endorsement of LHD employer
- 2. Baccalaureate prepared PHN or other baccalaureate prepared PH professional
- 3. Minimum of **two** hours per week time commitment
- 4. Interest in evidence-based practice
- 5. Interest in the coaching role
- 6. Knowledge of population-based PH practice
- 7. Strong verbal communication skills
- 8. Internet access



### The Evidence Champions (n=32)

- Average age = 48.3 years old
- ▶ 100% ~ baccalaureate degree
- ▶31% ~ Master's or higher
- Average years in public health=13.5



# Introductory two-day training

- >Define EBP
- >Structure practice question
- >Locate evidence
- >Rate strength & quality of evidence
- >Apply findings to practice
- >Develop champion role
- >Motivational interviewing

# Defining Evidence-based Public Health Practice

Process of combining

- > Best evidence available
- > Health data
- > Public health expertise
- Client, family, community, stakeholder preferences

... the available body of facts or information indicating whether a belief or proposition is

true or valid

Adapted from Brownson (2010) lence-Based Public Health. Oxford, University Press.

# Where to Find Evidence

# The Guide to Community Preventive Services

www.thecommunityguide.org



http://health-evidence.ca/home

# Where to Find Evidence



The Cochrane Collaboration www.cochrane.org



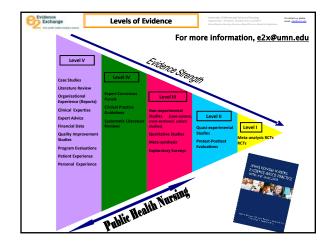
www.campbellcollaboration.org

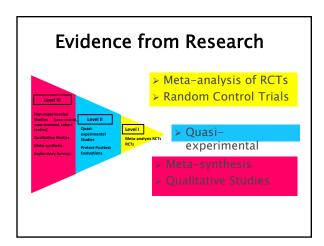
# Where to Find Evidence

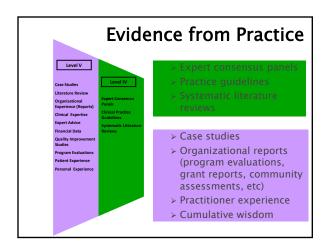




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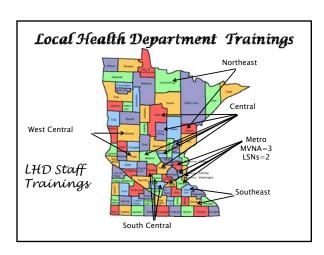




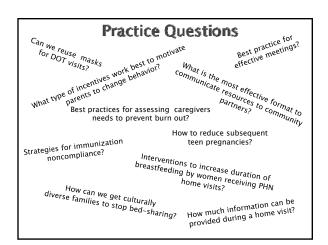


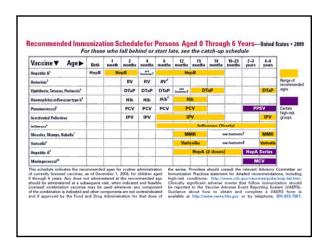
		Evidence Rating Scale
		Strength of Evidence
Level II: Quasi-Experiment Level III: Non-Experiment Level IV: Expert Consens	ntal Studies tal Studies; Qualita us Panels (ex: prac	domized Controlled Trial or RCT); Meta-Analysis of Research Findings tive Studies : Meta-Symtheses Beginner of the Studies o
		Quality of Evidence
A. High	Research	Consistent results with sufficient sample size, adequate control, and definitive conclusions; consistent recommendations based on extensive literature review that includes thoughtful reference to scientific evidence.
	Summative Reviews	Well-defined, reproducible search strategies; consistent results with sufficient numbers of well define studies; criteria-based evaluation of overall scientific strength and quality of included studies; definite conclusions
	Organizational	Well-defined methods using a rigorous approach; consistent results with sufficient sample size; use of reliable and valid measures.
	Expert Opinion	Expertise is clearly evident
B. Good	Research	Reasonable consistent results, sufficient sample size, some control, with fairly definitive conclusions; reasonably consistent recommendations based on fairly comprehensive literature review that includes some reference to scientific evidence
	Summative Reviews	Reasonable, thorough and appropriate search; reasonably consistent results with sufficient numbers of we defined studies; evaluation of strengths and limitations of included studies; fairly definitive conclusions
	Organizational	Well-defined methods; reasonably consistent results with sufficient numbers; use of reliable and valid measures, reasonably consistent recommendations
	Expert Opinion	Expertise appears to be credible
C. Low quality or major flaws	Research	Little evidence with inconsistent results, insufficient sample size, conclusions cannot be drawn
	Summative Reviews	Undefined, poorly defined, or limited search strategies; insufficient evidence with inconsistent results; conclusions cannot be drawn
	Organizational	Undefined or poorly defined methods; insufficient sample size, inconsistent results; undefined, poorly defined or measures that lack adequate reliability or validity
	Expert Opinion	Expertise is not discernable or is dubious











### Nurse Family Partnership Selected Outcomes



### Pregnancy

- > 23% reduction in subsequent pregnancies 2 years after child's birth
- > 79% reduction in preterm deliveries among women who smoked

### Child Health and Development

- > 48% less child abuse and neglect
- > 67% reduction in child behavioral & intellectual problems age 6
- > 59% reduction in arrests at child age 15

### Family Self-Sufficiency

- > 61% fewer arrests of mothers 15 years after child's birth
- > 46% increase in father presence in the household
- > 20% reduction in welfare use

When is there sufficient evidence to change the way you practice? What evidence do we have to continue current practice?



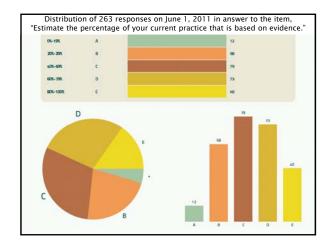






### Evidence Supporting PHN Practice

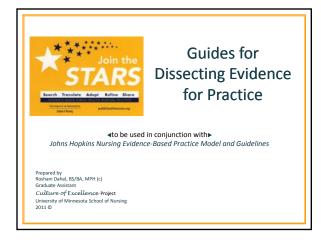
- Brain development
- ▶ Back to Sleep
- Attachment
- Nurse Family Partnership
- Vitamin D promotion
- Depression Screening
- Immunization recommendations
- Epidemiology
- NCAST
- Breastfeeding
- Maslow's hierarchy
- Smoking cessation
- Prenatal Care
- Folic Acid

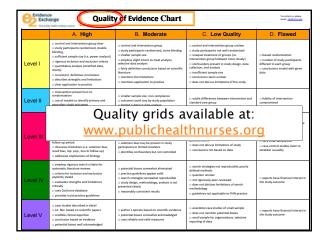


# **Champion Updaters**



- ➤ Monthly 1-hour conference calls held at two different times
- >Facilitated by project coordinator and graduate assistant
- >Champions submitted articles
- >All reviewed same article and shared rationale for how and why ratings were assigned





# Measles Outbreak in a Highly Vaccinated Population, San Diego 2008: Role of the Intentionally Undervaccinated \*\*Microsome Associated Systems of the Intentionally Undervaccinated \*\*Intentionally Un

# Measles Outbreak in a Highly Vaccinated Population, San Diego 2008: Role of the Interntionally Undervaccinated \*\*Differ 1008: Role of the International Undervaccinated \*\*Differ 1008: Ro



# Champion Role Development

- > Raising awareness
- > Providing education
- > Sharing information
- Acting as a resource to others
- > Mentoring
- > Role modeling

"You know your own agencies best; the role you develop will need to fit what will work best in your organization."

Ploeg, J. et al. (2010). The Role of Nursing Best Practice Champions in Diffusing Practice Guidelines: A Mixed Methods Study. Worldviews on Evidence–Based Nursing, 7(14): 238–251.

	Opinion Leader	Facilitator	Champion	Linking Agent	Change Agent
Theory of Action	Social Influence	Problem-solving	Social Influence	Networks	Change Theory
Purpose	Evaluation	Goal Achievement	Promotion	Gap Bridging	Change Behavior
Role	Informal	Formal	Informal	Formal	Formal
Who (individual or organizational)	Individual	Individual	Individual	Individual or Org'l	Individual or Org'l
Organizational Orientation	Internal	Internal or External	Internal	External	Internal or External
Trained or Chosen for Role?	No	Yes	No	Yes	Yes
Manner of Influence	Expertise	Interpersonal	Persuasion	Resource Access	Expertise
Domain of Influence	Work Unit	Spans Boundaries	Project Specific	Project Specific	Spans Boundaries
Innovativeness	Low	Low	High	Low	High
Nature of Relationships	On-going	Short-term	On-going	Short-term	Short-term

Thompson, G., Estabrooks, C., Degner, L., (2006)
Clarifying the concepts in knowledge transfer: a literature review.

# Champion Facilitation Continuum



Doing for Others
>Episodic, as needed contact
>Practical, technical help

Enabling Others
>Sustained partnership
>Developmental

### Role Development

### Champion Role Development

- No "right" or "wrong" Champion Role
- > Successful Champions balance:
- oOrganization's capacity for change
- oExternal challenges organization faces
- •Impact of adoption on "the way we do business"
- oChampion's own attributes to "drive though" innovation

"What distinguishes champions from other roles is their *overwhelming enthusiasm* and *visionary qualities*. They can be described as transformational leaders...

Thompson, G., Estabrooks, C., Degner, L., 2006, p. 695

"Persuasive and willing to take calculated risks, champions adopt programs, ideas or projects as their own and relentlessly promote them. Personal ownership of an idea or project is a central feature of the role."

Thompson, G., Estabrooks, C., Degner, L., 2006, p. 695

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