Introduction

Health department staff are charged with developing and implementing program and policies that keep large populations of people healthy and disease free. Evidence-based decision making (EBDM) uses the best available research evidence to select, implement and evaluate these programs and policies. Lack of EBDM within health departments hampers the ability of staff to make informed choices and manage resources, which makes it less likely that people will receive effective programs to help prevent or control diseases. This is especially important where the causes of a disease are complicated, such as obesity, and where resources to address the disease are limited. Because EBDM is a process, it must be fostered and supported within departments as part of day-to-day practice. Health department staff have reported some challenges that get in the way [Figure 1].

Our project started in 2012 to learn concrete ways in which state health departments and researchers can support staff and partners in practicing EBDM. This report is a summary of how we worked with 12 state health departments over the last four years, what we learned, and what we recommend for action steps.

Figure 1. ^2-4

Challenges faced by health department staff to evidence-based decision making:

<table>
<thead>
<tr>
<th>Lack of skills to make evidence-based decisions</th>
<th>Funding uncertainties or budget cuts</th>
</tr>
</thead>
<tbody>
<tr>
<td>No incentives/rewards for using EBDM</td>
<td>Lack of time</td>
</tr>
<tr>
<td>Unsupportive organizational culture/climate</td>
<td>Staff turnover</td>
</tr>
</tbody>
</table>
Activities

We started by learning more about EBDM practices in state health departments across the nation. A survey of over 900 state health department staff working mostly in chronic disease and health promotion helped us understand more about the factors related to EBDM and fine-tune a testing tool.

Next, we randomly selected 12 state health departments in which to test whether providing basic supports would improve health department staff’s individual skills in EBDM and cause them to feel more supported in practicing EBDM. To do this, we provided in-person training and continued EBDM support to six of the states, while providing less active support and no training to the other six. We conducted surveys with all 12 states before the start of the project and after so that we could observe any differences. We also spoke one-on-one (qualitative interview) with staff from all 12 states to learn more about what facilitates EBDM within their health departments.

In the six states that received in-person EBDM training, we followed up with regular planning meetings to identify and implement activities to further enhance EBDM efforts [Figure 2].

Examples of follow-up activities:

- Accreditation preparation
- Ongoing quality-improvement efforts
- Supplemental trainings in EBDM topics
- Work unit and cross-section meetings to explicitly address EBDM
- Annual in-person partner meeting (EBDM themed presentations)
- National EBDM course in St. Louis for new team members
Findings and Impact

Analyzing the survey data, talking with health department staff and working one-on-one with work units brought to light important findings:

- Leadership support (at all levels) is a key facilitator of EBDM.
- Training increases individual skills in EBDM. [Read more].
- Access to research evidence is key for use in program planning, and other activities. [Read more].
- Different leadership types and workplace cultures can affect the use of research evidence. [Read more].
- Leadership support and training, as well as enhanced information sharing across program areas are among several facilitators [Figure 3] of EBDM, some more modifiable than others. [Read more].

Figure 3.

Examples of EBDM facilitators:

- Leadership at all organizational levels as champions and role models
- Leadership and organization support for workforce development
- Internal and external partners as experts and champions
- Commitment to data-driven planning
- Transparency in financial reporting practices
Recommendations

In just five short years, truly meaningful work was accomplished. We worked with some of public health’s brightest people to learn and support EBDM practices. To maintain this momentum, we offer what we and health department staff we spoke with think are the most actionable ways health department leadership can strengthen EBDM within work units and department-wide.

01 RECOMMENDATION
Provide ongoing, tailored training.

02 RECOMMENDATION
Create a health department that supports EBDM through culture (shared values/beliefs), climate (employee experience), and leadership.

03 RECOMMENDATION
Engage health department partners in EBDM practice in ongoing and meaningful ways.
Provide ongoing, tailored training.

Ideas

• Identify training sources and support attendance.

• Provide ongoing, skill-based trainings to all staff (in person or remotely), tailored to their education and experience.

• Incorporate EBDM into new employee orientation training.

• Assess existing training needs to fill gaps. We found a common need for training in policy change, program evaluation, change management, and strategies for specific settings or populations.

• Offer and promote training in leadership processes and practices.

• Provide and encourage staff training in how to provide technical assistance to partners in communication, strategic planning, policy development, coalition building, quality improvement, performance management, the latest evidence-based approaches and change management.

• Tie requirements for ongoing training in EBDM to agency plans for accreditation or reaccreditation.

Considerations

Training requires financial and personnel resources. Partnering with a public health training center or university may help sustain ongoing trainings. Alternative methods, such as conducting some training online, can reduce travel and/or other costs. EBDM encompasses many skills and a broad range of practical experience. One staff person cannot be expected to be expert in every facet; combining work unit/agency expertise can maximize the impact of collective skills to practice EBDM.
**02 | RECOMMENDATION**

Create a health department that supports EBDM through culture (shared values/beliefs), climate (employee experience), and leadership.

**Ideas**

- Include EBDM in the workplace mission.
- Develop common language for EBDM processes and principles.
- Include principles of EBDM in goals, work plans, formal accountability procedures, and/or strategic plans, and develop methods to monitor performance (and acknowledge staff/programs that excel).
- Provide ready access to low-cost research evidence sources (e.g., academic journals, guidelines, toolkits, evaluation databases, cost-effective modeling for EBDM strategies) through online sources/digital libraries (potentially through increased university partnerships).
- Encourage use of on-line sources of data and evidence-based practices (The Community Guide).
- Have leadership (at all levels) instill EBDM principles by modeling processes, demonstrating long-term commitment and offering safe space for staff to practice EBDM (e.g., protected time to attend trainings, obtain and digest evidence).
- Formally include EBDM updates/progress in work unit and/or cross-section meetings.
- Hire individuals committed to EBDM (include in job description and interview questions).
- Increase the number of staff that have degrees in public health or related fields and/or staff with formalized training in public health.
- Share resources, data, evaluation findings, programmatic materials, success stories, and research evidence interdepartmentally, within work units, and across the organization.

**Considerations**

Change will not happen overnight, and that’s ok. Our recommendations address different roadblocks, depending on the agency. After identifying an area for improvement, we recommend conducting a feasibility assessment before attempting a change in policy or practice. It may also be helpful to talk with other, similar agencies to see how they approached different steps. Combining work unit/agency expertise can maximize the impact of collective skills to practice EBDM.
03 | RECOMMENDATION

Engage health department partners in EBDM practice in ongoing and meaningful ways.

Ideas

• Develop a process for health department staff to communicate EBDM practice and progress with partners (and policymakers). Provide summaries of emerging issues.

• Include EBDM expectations and requirements in funding proposals and contracts.

• Train partners in EBDM or observe how partners are using EBDM and collaborate in planning replication and/or other trainings.

• Provide remotely accessed ongoing, short, topic-specific trainings for partners with additional access to archived trainings.

• Increase university partnerships and/or enhance partnerships through formal agreements.

• Provide technical support and guidance for partners. Include plan to assess accountability of contracted partners regarding evidence-based interventions.

• Share resources, data (particularly local data), funding, evaluation findings, program materials, success stories, and research evidence with partners.

Considerations

Since health departments work with all types of organizations (nonprofits, healthcare organizations, universities), including partners in the EBDM process will be different for each department. In addition, engaging policymakers as partners is critical and brings a different set of challenges to consider. Including partners in assessing, planning, implementing, evaluating and disseminating programs and policies is a core element of EBDM; therefore, developing and supporting effective methods to include partners can only enhance a health department’s own EBDM processes.
References


For more information about this work, please contact Peg Allen (pegallen@wustl.edu) or visit the Prevention Research Center website (prcstl.wustl.edu).

This work was supported by the National Cancer Institute of the National Institutes of Health (R01CA160327).