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Adaption of Knowledge and Participation of Stakeholders in Three Public Health Interventions at Local Government Level in Denmark

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Abstract

Background: When implementing public health interventions in practice, it is recommended to use research evidence and to include relevant stakeholders. This should ensure effective interventions but it can be challenging. This study investigates the use of knowledge and inclusion of stakeholders in three different public health interventions at the local government level in Denmark and discusses strategies for future improvements in the use of research evidence.

Method: Based on a previous assessment of all public health interventions in Varde Municipality using the European Community Health Promotion Indicator Development Model (EUHPID model), three different types of interventions (one Health Promotion, one Health Protection, and one Disease Prevention) were chosen for a case study analysis. The data consisted of document reviews and interviews. Data were analysed by content analysis using a framework for Evidence Based Practice as a guiding tool. Discussion of strategies for future improvements was based on experiences from previous studies.

Results: In the Health Promotion and Disease Prevention interventions, knowledge of community characteristics and knowledge based on practitioners’ expertise were the most applied types of knowledge. In the Health Protection intervention, evidence from research was also used. Various stakeholders were included in all interventions. Barriers for the use of research evidence were lack of access to reported research, lack of time and competences to identify, adapt and apply the most relevant research evidence. The perceived facilitators for using evidence from research were access to summaries of research results or guidelines based on research and collaboration with researchers.

Conclusion: Very limited knowledge on how to improve the use of research evidence in such interventions exists, however it seems like an active collaboration between research and practice is a promising strategy. There is a need for more research on this topic taking the role of various stakeholders into account.

Introduction

It is well known that the use of research evidence in working with public health interventions in practice is a challenge [1-6]. A study of evidence use in Danish municipalities confirms this [7]. According to the literature, the use of research evidence in local public health work takes place in real life context of political and other societal priorities and activities [8-10]. This context makes it complicated to balance the inclusion of research evidence and other sources of relevant knowledge. Furthermore, it is shown to be difficult for local public health planners and policy makers to identify and apply the relevant research evidence in their daily work [7].

Local public health interventions aiming at promoting and/or protecting health and preventing diseases need to be carried out in collaboration between and across sectors to be most effective [11-14]. This means that stakeholders involved in the interventions are not limited to health sector; they include other local sectors such as transportation, environment and education, as well as non-governmental organizations and private sector. Hence, research evidence and other relevant knowledge and information come from multiple sources [8, 15].

Satterfield et al (2009) have developed a framework for “Evidence Based Practice” (EBP) describing the types of knowledge that can be used in this kind of public health work (figure 1) [8]. The framework describes how policy making in public health work often takes place in the intersection of best available research evidence, population characteristics, needs, values, and preferences, and resources including practitioners’ expertise. Furthermore, the framework emphasizes the various stakeholders that need to be involved in working evidence-informed with public health, since the different kinds of knowledge must be obtained from various stakeholders [8]. The EBP framework was applied as a guiding tool for the data collection and analysis in this study. Stakeholders were defined as people involved in the intervention processes both from inside and outside of the municipality organization.

Within three months during 2009 a mapping of all public health interventions in Varde Municipality, Denmark was carried out. Based on The European Community Health Promotion Indicator Development Model (EUHPID model) [16] and specially developed categorization criteria, all interventions were assessed and categorized into the types “Health Promotion”, “Health Protection”, and “Disease Prevention” [17]. To learn more about the use of knowledge and inclusion of stakeholders within these different kinds of public health interventions, one intervention from each category were used as cases for analysis in this study.

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Keywords:
- Disease prevention
- Evidence
- Health policy
- Health promotion
- Health protection
- Public health
- Stakeholders
The aim of this study was to investigate the use of knowledge and inclusion of stakeholders in three different types of public health interventions at local government level in Denmark, based on the framework for EBP by Satterfield et al. [8]. With starting point in this investigation, the secondary aim was to discuss strategies for facilitating the use of best available research evidence in combination with the other types of knowledge provided by the included stakeholders.

Materials & Method

Study site

Varde municipality in Denmark was chosen as study site based on the fact that the previous assessment of public health interventions was performed in this municipality [17]. The Municipality carries out public health work based on an intersectoral health policy. The main objective of this health policy is to provide a framework for improving health and quality of life and to make the “healthy choice the easy choice” for all citizens. The policy suggests intersectoral action as a main approach for doing interventions, as recommended by the Adelaide Statement [11]. The priority areas of the policy are related to non-communicable diseases and point out specific priority populations such as children and youth, elderly, ethnic minority groups, persons with disabilities and persons with mental health conditions.

Identification of interventions

Based on the previous assessment of all public health interventions [17], the following criteria were used to select interventions:

1. One intervention from each category (“Health Promotion”, “Health Protection”, and “Disease Prevention”) should be chosen for the analysis (to ensure for inclusion of each type of public health interventions).
2. The length of the intervention should be more than one month (to ensure for a certain amount of intervention content).
3. The intervention should have a potential for intersectoral collaboration (to ensure for the possibility of inclusion of different stakeholders).

The list of all public health interventions (n=154) was reviewed using these criteria. In the Health Promotion category three interventions (out of 88) met the criteria; in the Health Protection category one intervention (out of 15) met the criteria; and in the Disease Prevention category two interventions (out of 51) met the criteria. From this, three interventions with different aims and targets groups were chosen for the analysis to strengthen the possibility of getting diversity in the results. It was decided only to choose one intervention from each category due to pragmatic reasons of capacity. The following interventions were chosen for the analysis:

- Health Promotion: “Time out”; an intervention aiming at improving well-being among youngsters
- Health Protection: “Traffic Safety Plan”; an intervention aiming at providing a safe traffic environment,
- Disease Prevention: “Step by Step”; an intervention aiming at preventing diseases among overweight persons via exercise and nutrition guidance.

Analysis tool

Based on a framework for EBP [8], following items were used to guide the analysis.

Document review:
1. Description of the interventions’ contents including aims, intervention periods, methods and evaluations
2. Indications of use of best available research evidence
3. Indications of use of population characteristics, state, needs, values, and preferences
4. Indications of use of resources including practitioner’s expertise
5. Indications of inclusion of various stakeholders

Interviews

1. Discussion of the results from document review and any supplementing information
2. Discussion of barriers and facilitators for using the best available research evidence in the working with the interventions.

Data collection and analysis

Using the municipality's internal documents system, all relevant documents on the three interventions were identified and filed. These included meeting minutes, working papers and intervention plans. The documents were analysed using the analysis tool, and all relevant information was marked. This documents analysis was supported by interviews with key persons (four in total) involved in the interventions. During the interviews, findings from the document analysis were discussed and further elaborated. Moreover, possible issues not presented in documents were uncovered.
life situations through guidance by a social worker. The Health Protection intervention provided a plan for increasing traffic safety for all citizens in the municipality through physical changes in roads and paths. The Disease Prevention intervention aimed at helping a group of overweight persons to gain a healthier lifestyle through education in healthy diet and physical activity (both theory and practice), hence preventing them to get ill because of overweight. The effects of the interventions are ongoing; however a process evaluation has already been made of the Disease Prevention intervention. This process evaluation resulted in a decrease of mandatory gatherings and some gatherings were made voluntary instead, because the participants reported that not all gatherings were relevant for all of them.

Knowledge provided crucial input to how the two interventions were carried out. In the Health Promotion intervention the practitioner expertise mainly came from the social worker in charge of the intervention; her expertise was based on her professional education and on experiences in working with youngsters and the main issues associated to their wellbeing. Besides this other practitioners (an abuse consultant and a psychotherapist) had provided their professional expertise in the development of the intervention. In the Disease Prevention intervention the practitioner expertise came from the involved practitioners’ experiences. This mainly included their professional education as nurses, dietician and physiotherapist and their respective experiences in working with obesity. In the Health Protection intervention there was no indication of use of practitioners’ expertise, however in this intervention the available resources in relation to manpower and money were included in the intervention plan. This was not the case for the two other interventions.

Results from interviews showed that the perceived barriers and facilitators for using the best available research evidence was the same in all three types of public health interventions. The main barriers for this were lack of access to reported research, and lack of time and competences to identify, adapt and apply the most relevant research evidence. Furthermore, the informants stated that they found it difficult to determine how much emphasis to put on the message from research evidence if the messages from other sources of knowledge did not match this. The perceived facilitators for using evidence from research were access to summaries of research results or guidelines based on research, and collaboration with researchers.

Involvement of stakeholders in the three interventions

Table 3 displays the involved stakeholders in the three different public health interventions. In general, the interventions included various types of stakeholders from both inside the municipal organisation and outside this organisation.

Discussion

This case study including an analysis of three different types of public health interventions showed that various types of knowledge were involved in the development of the interventions.
Basically, the literature shows that to make an impact on the uptake of knowledge and different stakeholders, as described in this study. Most of them suggest strategies that might be beneficial in relation to dealing with challenges connected to lack of access, time, and competences to identify, adapt, and apply research evidence in combination with the knowledge provided by other relevant and included stakeholders.

In the Disease Prevention intervention, evidence from research was indirectly used via using general guidelines from national bodies based on results from research. The challenge connected to this is the fact that such guidelines can be out-dated; however in this study such a guideline seemed to be the reason for research evidence being included at all.

Based on the information from the informants, strategies for improving the use of research evidence needs to include actions in relation to dealing with challenges connected to lack of access, time, and competences to identify, adapt, and apply research evidence in combination with the knowledge provided by other relevant and included stakeholders.

Some studies have been carried out to deal with this issue [20, 21]. Most of them suggest strategies that might be beneficial in relation to local public health interventions with inclusion of various types of knowledge and different stakeholders, as described in this study. Basically, the literature shows that to make an impact on the uptake of research evidence in working with public health interventions in practice, actions launched must be of an active character [20, 22]. This means that an active collaboration between research and practice needs to take place. Actions that seem to be effective are tailored, targeted, and timely and relevant messages from research to practice developed via an integration of practice needs and inter-professional collaboration as e.g. workshops with participation from both research and practice [20, 22-24]. Furthermore, organizational changes to provide time for working with evidence from research in practice can enhance the use of research in public health interventions [25, 26]. Actions that do not seem to have an impact on the uptake of research evidence in practice are of passive character. These includes e.g. to provide practice with printed information [24, 27, 28] or to provide access to online research evidence resources [29].

Various stakeholders were involved in the three different public health interventions described in this study. For being able to include knowledge from the population in focus and the practitioners involved, these need to be included in the full policy process of working with the interventions [8]. This did not seem to be a problem in the cases analysed. Nevertheless, it was perceived to be a challenge to balance the knowledge derived from these sources and from research. The role of stakeholder inclusion in carrying out public health interventions based on a complex knowledge foundation is very limited. Some studies state the importance of stakeholder inclusion [17, 23-25, 30-32], and a few investigate the effect of e.g. carrying out a shared process of intervention development and reporting [23, 24]. However, no sustainable increase of the use of research evidence in practice has been reported [23, 24].
When using these recommendations, it is important to take into account that most of the studies behind are conducted within a Health Care setting. Hence, the need for studies conducted in relation to Health Promotion, Health protection and Disease Preventions is prevalent.

Strengths and Limitations of the Study

This study was carried out by using case study method analysing three different types in public health interventions in one Danish municipality and interviewing a limited number of stakeholders. It can be questioned whether the results are applicable for other settings. Given the fact that the Danish municipalities are responsible for the same kind of tasks within public health, other Danish municipalities might work in the same way and experience the same challenges.

Despite these limitations, the study provides new knowledge about the use of different types of knowledge and inclusion of various stakeholders in three different types of public health interventions. Furthermore, the study provides information on the perceived challenges and facilitators for the use of research evidence. This can potentially add to future improvements in this regard, since the results can serve as an input to the already on-going research on how to improve evidence informed public health work emphasising the importance of stakeholder inclusion [33].

Conclusion

Based on a model for Evidence Based Practice [8], this study has investigated the use of different types of knowledge and inclusion of various stakeholders in three different types of public health interventions in a Danish municipality. The results showed that in Health Promotion and Disease Prevention interventions, knowledge of community characteristics and knowledge based on practitioners' expertise are the most applied types of knowledge. Furthermore, the results showed that various stakeholders are included in the intervention process, as suggested by the applied model. Very limited knowledge on how to improve the use of research evidence in such interventions exists; however, it seems like an active collaboration between research and practice is a promising strategy. There is a need for more research on this topic taking the role of various stakeholders in account.

Competing Interests

The author(s) declare that they have no competing interests.

Author Contributions

MB has carried out the study under supervision of GG. Hence, MB and GG are responsible for the conception and design, acquisition of data, analysis and interpretation of data. MB drafted the manuscript and AW, AA, and GG revised it critically for important intellectual content. All authors have approved the final version to be published.

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