Developing Nursing Capacity for Health Systems and Services Research in Cuba, 2008–2011

Nelcy Martínez MPH

INTRODUCTION

Public health has been defined as the science and art of preventing illness and disability, prolonging life, and promoting physical and mental health through society’s organized efforts.[1] Its primary objective is to improve the health of populations, and it does so through essential functions described by PAHO[2] as competencies required of health systems to achieve this goal. These functions are defined as the set of actions required to meet specific targets, in turn necessary to achieve the overarching population health objective. They should be viewed as both emerging from social practices and having as one of their main purposes the promotion and reinforcement of healthy social practices.[2]

The essential function of health research is one of the competencies that must be developed by health systems. Frenk describes it as a field with two main objectives for analysis: epidemiologic study of population health conditions and study of organized social response to those conditions (in particular, how that response is structured in the health care system).[3]

Health research performance is variable in the Americas. One PAHO study indicated that most countries in the region did not have plans to develop health research and did not periodically evaluate their progress in fulfilling a program of essential health research; those that did so nevertheless failed to communicate results to relevant parties. There were deficiencies in interaction with researchers and dissemination of results to the scientific community, as well as disconnect between areas investigated and national priorities. Evidence also revealed that the region was weak in research on collective interventions and community health.[2]

RESULTS

Of all published nursing research articles retrieved, 8.9% (185 of 2081) concerned health systems and services research, of which 26.5% (49 of 185) dealt with quality assessment. At baseline, 75% of Cuban nurses surveyed had poor knowledge of health systems and services research. Orientation, design and followup workshops for all institute teams developed individual and institutional capacity for health systems and services research. Post-intervention, 84.7% (27) of nurses reached good knowledge and 14.3% (5) fair; institutional research teams were formed and maintained in 9 institutes, and 13 projects designed and implemented (11 institutional, 2 addressing ministerial-level priorities) to research nursing issues at selected centers.

CONCLUSIONS

A systematic strategy to build nursing capacity for health systems and services research can be effective in involving nurses in such research and in developing institutional support for it, fostering compliance with Cuban and international professional development priorities for nursing, as well as contributing to quality of patient services.

KEYWORDS

Health systems, health services, health services research, evaluation studies, intervention study, nursing education, nursing, capacity building, Cuba

Such deficiencies in the Americas underscore the need for strategies to develop and strengthen research capacities. To advance, interventions are required at three levels: training individual researchers, generating institutional capacity to carry out relevant research, and involving national health systems responsible for most policymaking.[4] Lansang added a supranational level.[5]

Intervening at an individual level in investigators’ scientific and academic training implies development of research skills as such. Although this does not in itself guarantee quality of results—since these also depend on the trainee’s personal disposition—it is the bedrock of researcher training.[5] The institutional level involves institutions positioning themselves as reference facilities in their areas of expertise, according to the potential of their human resource base. Researcher training at the first level is only sustainable if there is continued followup; the institutional level must offer incentives to young researchers, build teams and create the necessary research infrastructure. According to Nchinda, institutional development must ensure that all individuals with research aptitude have the opportunity to develop their skills.[6] At the health system level, research capacity building involves creating agencies to run national programs and define priority research lines. Good investigators in good institutions are useless without a supportive research climate, funding and means to communicate results—all health system functions.[3]

Outlining strategies to develop research capacity in the profession is a priority for international nursing organizations. In 2011, the International Council of Nurses published its strategic directions for the period 2011–2015, stating the need to upgrade nurses’
skills for research aimed at improving quality of service delivery. It urged development of evidenced-based nursing, noting that a major obstacle is nurses’ limited research skills.[7]

The search for evidence involves several types of research. If individual care is the issue, traditional clinical research conducted by most nurse researchers is adequate.[8] If, however, the goal is to provide evidence on how to improve service organization or advise government policy on regulation of the profession, then health systems and services research (HSSR) is needed, in which the object of study is “the system itself or any other components or inter-relations.”[9] This is a path less often taken by nurses.[10]

Cuba’s Ministry of Public Health (MINSAP, the Spanish acronym) has 15 Scientific-Technical Program Areas (Programa Ramal de Investigación, or PRI, the Spanish acronym), one of which is HSSR (PRISS, the Spanish acronym).[11] In 2008, PRISS reported that nursing was the health profession with the least capacity in HSSR since the program’s creation in 1986.[8] A finding seconded by the Ministry’s National Nursing Division (DNE, the Spanish acronym).[9] A search for information on the topic yielded no strategies for developing nurses’ research skills in Cuba. A 2002–2005 project to promote HSSR in Cuba led by the National School of Public Health (ENSAP, the Spanish acronym) was an important contribution at the national level, but it did not involve nurses.[12]

There is no universally-accepted definition of what constitutes a strategy, but a common element in many definitions is identification of a gap between the current situation and the desired one, with objectives defined as well as actions to fulfill them. The desired situation for the strategy described here is for nursing professionals in Cuban research institutes to conduct HSSR.

The study objective was to implement and assess a strategy to develop HSSR skills in 14 Havana-based national research institutes—both individually among nurses and institutionally, with the formation of research teams—and the design of nursing HSSR studies to address problems identified in these institutions.

METHODS
An intervention study was conducted between 2008 and 2011 in 14 Havana-based national research institutes with nursing services. The study universe consisted of the institutes and their nursing managers.

Selection criteria, institutional Those in which research is central to their mandate: national reference centers in their specialties (contributing to replicability in the rest of Cuba); priority assigned by DNE to institute nursing research. Fourteen institutions were selected, with specialties ranging from cardiology to occupational health.

Selection criteria, individual According to the Alliance for Health Policy and Services Research, linking decisionmakers with the research process is important for ensuring that findings are put into practice.[13] Thus, purposeful sampling[14] was used to select senior nurse managers at the institutes (deputy directors for nursing, ward and other supervisors, or academic advisors) who had belonged to research teams in their institutes for more than three years. A total of 32 nursing managers who met criteria were selected; another 105 nurses were not part of the primary study sample but participated in research teams formed. Data on variables such as age, sex, schooling, and years of experience were not considered relevant and the study sample was not described beyond inclusion criteria.

Ethical considerations The MINSAP PRISS ethics committee approved the study, as did DNE and participating institutes’ deputy directors for nursing. All participants gave written, informed consent. Findings will be used by DNE and institute deputy directors for nursing to provide followup on issues identified.

Study design A simple pretest/post-test quasi-experimental design was used, because the population was small, the baseline practically nil, and it was certain that participating institutes had no similar interventions capable of biasing results.

Conceptually, the study was divided into four stages, numbered by date of initiation (with some temporal overlap) (Figure 1).

Figure 1: Conceptual flow of intervention to build nursing capacity for HSSR, Cuba 2008–2011

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HSSR: Health systems and services research

Stage 1: Description of nursing HSSR (September 2008–May 2010). The objective of this stage was to ascertain characteristics of HSSR conducted by nurses in Cuba and internationally, using a deductive approach. For this purpose, a horizontal bibliometric study was employed of nine journals in which nurses periodically publish. Revista Cubana de Enfermería was used for analysis of Cuban publications. All research articles published between January 2000 and March 2010 were reviewed; articles describing HSSR were selected and classified according to whether or not they related to national PRISS research priorities.
Eleven categories of research were identified: health situation analysis methods; health situation trends, policies, and strategies; nursing care costs; organization, structure and function of the health system, its institutions and services; technology assessment; access to and equity in nursing services; community participation and intersectoral action; nursing service quality; patient satisfaction with nursing care; nurses’ job satisfaction; and nursing human resource management.

Articles identified as HSSR were read and classified in thematic areas by the principal investigator, and in more complex cases, cross-checked by two investigators. Data were tabulated, with percentages used as the summary measurement for analysis of the following variables: journal, articles published, publication thematic area and year of publication.[15]

Stage 2: Situation analysis of HSSR capacity (April–September 2009). The objective of this stage was to determine existing capacity relevant to the expected results, starting from the premise that individual capacities were linked with knowledge of HSSR and its design, while institutional capacity was defined by existence of research teams, selection of research topics, and results dissemination and application. Nurses’ knowledge of HSSR was assessed, including variables pertinent to institutional capacity.

Two data collection techniques were used: an individual questionnaire and a focus group. Variables explored using both were: definition of HSSR, identification of research areas, participation in HSSR projects, results dissemination and application to decision-making.

Questionnaire Instrument content and format were validated by senior scientists who participated in and were recognized by PRISS as experts in their fields and were proposed by ENSAP and PRISS directors. In addition, they were required to have a doctorate in sciences; an academic rank of assistant, full or consulting professor; and at least ten years of experience in HSSR (principal investigator or project leader).

The ten participating experts were given a hard copy of the questionnaire and asked to determine question appropriateness for each operational definition to be explored. The second step in questionnaire validation was a pilot with 12 nursing managers in seven national institutions with similar levels of care and work dynamics to those of the study institutes.

Once validated, the questionnaire was used to survey the 32 professionals between April and May 2009. Individual item responses were classified as acceptable or unacceptable; overall knowledge was assessed as good, fair or poor. Overall knowledge was considered good if the respondent gave acceptable responses in all five areas explored; fair if responses were acceptable in four areas; and poor if they were acceptable in three or fewer areas. Each participant was assigned a code for comparison with responses to the same questionnaire administered following the intervention (questionnaire and scoring guide available from corresponding author).

Focus group A focus group was held in June 2009, following standard procedures.[16] Since focus groups require small numbers, participation was limited to one nurse per institute, for a total of fourteen. The moderator and observer were investigators with expertise in group techniques and familiar with the study participants. A topic guide derived from the questionnaire was used for the session, which lasted 90 minutes. A verbatim transcript was produced,[16] enabling initial theme classification and facilitating data synthesis and interpretation.[17] After interpreting and determining meanings and significance, the findings and discussion were compared with the theoretical framework and with research results found in the relevant literature.

Stage 3: Intervention design and implementation (June 2009–April 2011). The intervention consisted of orientation, design and followup workshops described below. Information from the HSSR description and situation analysis was taken into account and the design validated by the experts.

Orientation workshops These workshops were held in each institute (doubling up in two instances) to familiarize nurses with HSSR and identify problems in nursing services that HSSR could address. Before the workshops, senior institute managers were asked to identify nurses with research potential (those with academic research training completed or in progress, or who had displayed interest and aptitude) who would compose the research teams to be formed. During the orientation workshop, deputy directors of nursing were asked to present a researchable problem inventory generated by institute nurses.

Themes addressed in the workshops included HSSR concepts, background and research areas; health research and nursing practice; and research project types, designs and phases. Participants received Cuban and international articles on topics covered in the workshop.[3,11,18–21] Workshop activities included introductions (of project, research team and participants), presentations, Q & A and discussion sessions, analysis of inventoried problems, and selection of research problem and team members. Based on the problem selected, each research team then had the task of elaborating the project profile: title, introduction, objectives and outline of methods. Virtual and in-person assistance was provided between workshops to address any questions that arose during the groups’ work.

Design workshops A series of three workshops was held for institute research teams, with the objective of completing HSSR project design. In order to participate, research teams had to have developed the project profile as assigned in the orientation workshop. Thematic contents included PRISS background and main results during the period 2000–2010, the nursing HSSR situation in Cuba and internationally, types of HSSR and methods design, HSSR as evidence base for nursing care, theoretical and methodological bases for evaluation of nursing care quality, and the virtual community as a tool for HSSR development. Participants received Cuban and international articles on workshop subjects.[18,22–24]

Workshop activities included development of thematic contents; a session for Q & A and discussions between participants and the capacity-building project team; project presentation and discussion; and a session to review methods and analyze projects presented. Suggestions were used to correct project designs for presentation at the next design workshop. As a final assignment, each team was required to submit their HSSR project to their
**Follow-up workshops** A sequence of three follow-up workshops was held, with participation by all research teams, to monitor and evaluate adherence to project timetables established in the design workshop. Activities included presentations of progress, adherence to timetables and preliminary research results.

**Stage 4: Evaluation (May–June 2011).** Results-based effectiveness evaluation with a simple pretest/posttest quasi-experimental design was used, since the aim was to evaluate the intervention’s effects on HSSR capacity in participating professionals and institutes. We employed Zall and Rist, a 10-step model created to evaluate results of policies, programs, and intervention projects in different contexts.[25] Elements specific to this study are described below.

Selection and definition of expected results were arrived at by consensus among the DNE—the project’s main client—institute nursing managers, research team members and experts. Indicators for expected results were: 1) Nursing managers achieve a satisfactory (fair or good) level of knowledge of HSSR; 2) institutes have nursing research teams to conduct HSSR; 3) nursing HSSR research projects are designed to study problems in institute nursing services; 4) nursing HSSR studies are approved for implementation by institute scientific committees; 5) nursing HSSR research projects are implemented on schedule; 6) nursing managers are involved in HSSR in their institutes; 7) nursing HSSR projects are approved in the national 2011 PRISS call for proposals; and 8) HSSR is discussed in scientific meetings and other events involving nurses. Targets set for results indicators are displayed in Table 1.

Responses to the questionnaire previously described were used for baseline data, along with a document review of research statistics from PRISS, the institutes and DNE. This questionnaire was readministered following implementation to evaluate the strategy applied, which was considered effective if targets were met for all results indicators.

**RESULTS**

**Characterization** The bibliometric study identified 2081 articles on the results of research conducted by nurses; of these, 185 (8.9% of the total) dealt with HSSR, and 174 of these were in international journals. Topics most commonly addressed were: nursing care quality assessment (45 articles, 24.3%), patient satisfaction (26 articles, 14.1%), and nurses’ job satisfaction (19 articles, 10.3%). No study was found on health situation analysis methods. *Revista Cubana de Enfermería* published 198 nursing research articles, of which 11 (5.6%) dealt with HSSR. The most common topics were: nursing care quality assessment (4 articles, 36.4%) and patient satisfaction (3 articles, 27.3%).

**Situation analysis** Questionnaire results revealed poor knowledge about HSSR among the majority of respondents, as well as lack of research teams in the institutes and failure to apply research findings (Table 1).

The focus group identified three categories of issues related to nursing HSSR:

- **Nurses’ knowledge about HSSR:** While nurses had a positive opinion of HSSR, they had no clear concept of it. They associated it strongly—indeed, virtually exclusively—with service quality evaluation. Participants recognized HSSR’s usefulness in improving quality of care and developing the nursing profession, but most failed to see that its results had implications beyond health services quality.

- **Reasons for conducting HSSR:** Three were identified: development of nursing science, personal motivation and reshaping the image of the nursing profession.

- **Effect of institutional environment:** Most concurred that institutes can be influential in promoting HSSR if they foster a positive research climate. Participants noted the need to link HSSR with the institutes’ missions, taking advantage of their trained personnel and creating incentives for investigators.

**Table 1: Pre- and post-intervention indicators of nursing HSSR capacity, Cuba 2008–2011**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Pre-intervention % (n)</th>
<th>Target (%)</th>
<th>Post-intervention % (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing managers with good or fair knowledge of HSSR</td>
<td>25 (8/32)</td>
<td>80</td>
<td>100 (32/32)</td>
</tr>
<tr>
<td>Institutes with teams to develop nursing HSSR</td>
<td>0 (0/14)</td>
<td>50</td>
<td>64.3 (9/14)</td>
</tr>
<tr>
<td>Institutes with nursing HSSR studies designed</td>
<td>7 (1/14)</td>
<td>50</td>
<td>64.3 (9/14)</td>
</tr>
<tr>
<td>Institutes with nursing HSSR studies approved by scientific committee</td>
<td>7 (1/14)</td>
<td>50</td>
<td>64.3 (9/14)</td>
</tr>
<tr>
<td>Institutes with nursing HSSR studies implemented per timetable</td>
<td>0 (0/14)</td>
<td>50</td>
<td>64.3 (9/14)</td>
</tr>
<tr>
<td>Institutes with nursing managers involved in HSSR</td>
<td>0 (0/14)</td>
<td>50</td>
<td>64.3 (9/14)</td>
</tr>
<tr>
<td>Institutes with nursing HSSR studies approved in the 2011 PRI call for proposals*</td>
<td>0 (0/14)</td>
<td>50</td>
<td>14.3 (2/14)</td>
</tr>
<tr>
<td>Institutes including HSSR in nursing scientific events</td>
<td>0 (0/14)</td>
<td>50</td>
<td>64.3 (9/14)</td>
</tr>
</tbody>
</table>

HSSR: Health systems and services research PRI: Scientific-technical program area

* In 2011 PRI activities were curtailed, making it impossible to meet this goal at the branch level, therefore it was not included among success criteria.
tute research teams presented more than one project, for a total of thirteen.

Due to the participatory nature of the intervention, two additional activities not mentioned in the initial proposal were included: a workshop on data collection instrument design (a need identified in the first design workshop) and a workshop on scientific writing (identified in the results of the diagnostic questionnaire).

Followup workshops. There was no further research team attri-

bution between the design and followup workshops. Thirteen proj-

ects designed to address the following themes in institute nursing

services were approved by their respective scientific committees: 1) quality of nursing care for patients with cerebrovascular dis-

ease, Neurology and Neurosurgery Institute; 2) patient satisfac-

tion with care, Endocrinology Institute; 3) quality of nursing care, William Soler Children’s Heart Center; 4) nursing functions in

ophthalmology services, Ramon Pando Ferrer Ophthalmology

Institute; 5) quality of nursing care, Ramon Pando Ferrer Oph-

thalmology Institute; 6) quality of nursing care, Gastroenterology

Institute; 7) nursing functions in hematology services, Hematology

and Immunology Institute; 8) quality of nursing care in the cardio-

vascular surgery unit, William Soler Children’s Heart Center; 9)

nursing functions in neurology services, Neurology and Neurosur-

gery Institute; 10) nursing functions in pediatric cancer services,

National Oncology & Radiobiology Institute; 11) nursing functions

in gastroenterology services, Gastroenterology Institute; 12) qual-

ity of nursing care in outpatient, preoperative and postoperative

services, Frank Pais Orthopedics and Traumatology Institute; and

13) nurses’ job satisfaction, Nephrology Institute.

Evaluation Post-intervention data collection showed changes in

participants’ levels of knowledge of HSSR—an increase in good

and fair levels, with all nursing managers achieving at least fair

knowledge—and that it was possible to establish research teams,

conduct research and disseminate findings to decisionmakers

and other revelant parties.

Research teams were formed to conduct HSSR in all institutes at

the design workshops, but five institutes did not proceed to the
design phase, although they had identified researchable prob-

lems. At the end of the intervention there were nine institutes with

nursing HSSR research teams, 64.3% of total.

Following the intervention, all indicators of expected results were

fulfilled, exceeding their baselines and meeting targets, with the

exception of proportion of projects approved in the PRISS call for

proposals (Table 1).

Research findings were presented in scientific research fora held

at the nine institutes with completed projects. Evaluation results

were shared with study participants and DNE.

DISCUSSION

The essence and foundation of the nursing profession is patient

care, which may explain why nurses do not seem to be per-

suaded of the salience of HSSR. According to Alarcón, research

articles published can be considered indicators of a science’s

output.[25] For example, the framing of the problem and state-

ment of objectives show the transformation of a phenomenon

from reality into a scientific phenomenon, whose interactions

reveal the complexity and limits imposed on the topic by the

investigator. Selection of subjects and units of analysis indi-
cates the discipline’s objects of concern. Finally, the methods

and design reveal the paradigms and strategy through which the

science develops its knowledge.[25] Nursing is a science based

on professional practice; thus, the orientation of the publications

identified is largely in this direction, rather than examining the

systemic context in which nurses practice.

We found three major areas under which nursing research can be

classified: patient perceptions, beliefs, knowledge and values—

consistent with the profession’s focus on providing good care that

is relevant to its social and cultural context; prevalence and inci-
dence of health problems, indicators of population health status;

and evaluation of nursing competencies. Ergul’s 2010 examina-
tion of articles in six nursing journals also noted the thematic pri-

macy of care delivery.[26]

All of the above explains why the majority of articles published

by nurses address these topics. Our initial literature review

found few references to studies focusing on HSSR as such. The

low levels of HSSR knowledge and output observed could be

explained in part by nursing’s theoretical and practical focus on

individual care and nurses’ skepticism about the usefulness of

HSSR and in part by the fuzziness of the boundaries of HSSR,

in which almost any topic could fit, depending on the researcher’s

approach.[10]

For example, quality-of-care assessment is one of the ways the

profession directly evaluates various aspects nursing care. When

nursing services are evaluated, three components are taken

into account, any of which could be addressed with an HSSR

approach: structure (including organization and resources),

competencies and patient satisfaction, the latter traditionally consid-
ered the most important indicator by the profession. Thus, a 2002

study in Sweden showed that unfavorable patient opinions dis-

covered through quality assessment studies translated into cor-

rective actions in nursing practice.[28]

The American Nurses Association considers patient satisfaction

to be the most faithful indicator of quality of nursing care.[29]

Several studies have shown that nursing care is a determinant of

overall patient satisfaction at time of discharge.[30–32] While we

agree that it is important to gauge patient satisfaction with nursing

care, it is not the only quality indicator. Furthermore, studies of

patient satisfaction isolated from other quality dimensions tend to

overvalue patient perceptions and undervalue professional com-

petencies of which patients are not always aware.

Studies on nurses’ job satisfaction, on the other hand, are con-
ducted because of a link between job satisfaction and good per-
formance[33] and the hope that good performance will translate

into lower costs. Nurses’ job satisfaction is one of the indicators

most often cited by international organizations that set norms

for professional practice. Yet, one literature review found much

of the research on this topic is not aimed at finding solutions to

nurses’ sources of dissatisfaction.[34] These results imply a need

for research using causal models that enable information to be

integrated and contribute to staff retention. In his meta-analysis

of studies on this issue, Zangaro established associations among

job satisfaction, job stress, autonomy and nurse-physician collab-

oration; these findings support the importance of studying factors

that affect nurses’ job satisfaction, with a view to improving it.[35]
The relative absence in nurses’ research of health situation analysis may be due to its population focus; this level of analysis is still a challenge for nurses. In this sense, our findings are consistent with the current HSSR situation in Cuba and internationally. The Alliance for Health Policy and Services Research stresses the need to focus on less developed lines of research such as access and equity.[36]

Nurses’ dearth of knowledge about conducting HSSR has been analyzed by this author in other publications, which attribute it, among other things, to the fact that there is no clear understanding of its potential contribution to caregiving, the essence of the profession.[10] This problem was also identified in a study conducted in Andalucía, which confirmed the scarcity of projects headed by nurses.[37] Another Spanish study in Barcelona found insufficient research on nursing, and within what was identified, a preponderance of individual nursing care as a topic and of poor quality compared to research by other professional groups. This was explained by lack of a research tradition and training in research methods, since academic nursing is relatively new.[38]

The intervention can be considered effective in developing nurses’ research skills and HSSR capacity at participating institutes. Only the target for proportion of projects approved in the PRISS call for proposals was not met, because changes in Cuba’s research policies and reorganization of the science and technology system imposed limits on ministerial PRISS projects in order to focus more on developing institutional capacities.[39] The research team therefore decided that approval of HSSR projects by institutes was sufficient to define a satisfactory result.

The effectiveness of educational strategies in developing research skills at the individual level in nursing has also been demonstrated by Edwards, who studied nine initiatives of this type throughout the world and found that educational initiatives in which nurses are actively involved in selecting the issues to investigate makes them more likely to become involved in research.[40]

In 2010, the French Nursing Research Association reported on a multicenter study involving 32 countries from all regions. Investigators found that capacity building through research training was one of the most frequent steps taken by participating countries to remedy deficiencies in nursing education.[41] Wietrich confirmed the lack of research training in a study of nursing students in Lyon. [42] Purkis also found that linking capacity building in research with practice in care settings helps increase nurses’ motivation for research.[43] The importance of the type of intervention described here stems from the fact that it identifies gaps in nurses’ research training, the first step towards filling them.

These studies support the effectiveness of strategies such as ours in promoting nurses’ involvement in research. Strategy implementation yielded some lessons: addressing problems identified by nurses themselves provides incentive to conduct HSSR, as does collective knowledge-building through the workshops. Involving institutes’ senior nursing managers in HSSR contributes to results application, since they become familiar with the research process and better understand significance of findings. Research team attrition is an issue to bear in mind in future interventions.

This study was conducted in national research institutes that are not representative of most health care delivery institutions, constituting a limitation, since these institutes’ main objectives already include conducting research in the context of clinical care, thus possibly biasing results. However, such interventions can be replicated in other institutions or at other levels of health care, as long as these start with an initial situation analysis.

Our study’s importance lies in the fact that it enabled nurses to conduct HSSR, created research teams and linked senior managers to the research process to tackle problems identified in nursing services. It is recommended that similar interventions be undertaken at other levels of care to promote HSSR by nursing professionals.

CONCLUSIONS
A systematic strategy to build nursing HSSR capacity can be effective in motivating nurses to become involved in this type of research and in developing institutional support for it, fostering compliance with Cuban and international professional development priorities for nursing and creating the potential to contribute findings to improved health care delivery.

REFERENCES

Original Research


THE AUTHOR
Nelcy Martinez Trujillo (nelcynan@infomed.sld.cu), nurse with a master’s degree in public health. Associate professor, National School of Public Health, Havana, Cuba.

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