



ORIGINAL ARTICLE

Generating the impulse of open science with the creation, development and projections in the undergraduate and graduate nursing programs at the University of Buenos Aires: Commission of the research and knowledge management area

Generando el impulso de la ciencia abierta con la creación, desarrollo y proyecciones en el grado y posgrado de Enfermería de la Universidad de Buenos Aires: Comisión del área de investigación y gestión del conocimiento

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Received: July 18, 2023

Accepted: October 15, 2023

Published: November 30, 2023

Citar como: Lepez CO, Simeoni IA, Betancourt MA, Palacios JA, Palacios NN, Bruno LM, De Nazzari MA, Sánchez CA, Gómez-Turchiaro RA. Generando el impulso de la ciencia abierta con la creación, desarrollo y proyecciones en el grado y posgrado de Enfermería de la Universidad de Buenos Aires: Comisión del área de investigación y gestión del conocimiento. Rev Ciencias Médicas [Internet]. 2023 [citado: fecha de acceso]; 27(2023): e6215. Disponible en: <http://revcmpinar.sld.cu/index.php/publicaciones/article/view/6215>

ABSTRACT

Introduction: research training is a priority in the quality training of professionals in the Nursing area at the University of Buenos Aires.

Objective: to describe the planning experiences of the Commission of the Research and Knowledge Management Area of the University of Buenos Aires in the research potentialization of the Nursing career.

Methods: a qualitative hermeneutic phenomenological phenomenological research study was carried out, focused on documentary and historical-logical analysis, complemented with literature review and data collection from the academic community.

Development: the purposes of the Commission, the agenda of objectives and operational activities and the procedures and mechanisms for their fulfillment were determined. The lines of research, criteria for the presentation of projects, incentives for research and scientific publication, and criteria for seeking funding were outlined. At the institutional level, the goals, advantages and opportunities for the success of the commission were identified, as well as the production indicators for monitoring the expected results.

Conclusions: with the foundation of the Commission, we aspire to the visibility and institutionalization of progress and partial and final results in the evolution of the interventions in the university community. To this end, goals and management indicators were established, planned both in the medium and long term. The established guidelines will result in the formation of a community of professionalized actors that dialogue in epistemic, methodological, statistical, knowledge management and science terms based on critical-reflective thinking.

Keywords: Nursing; Knowledge Management; Management Indicators; Research; Planning.

RESUMEN

Introducción: la formación investigativa constituye una prioridad en la formación de calidad de profesionales del área Enfermería en la Universidad de Buenos Aires.

Objetivo: describir las experiencias en materia de planificación de la Comisión del Área de Investigación y Gestión del Conocimiento de la Universidad de Buenos Aires en la potencialización investigativa de la carrera de Enfermería.

Métodos: se realizó una investigación de estudio cualitativo fenomenológico hermenéutico focalizado en el análisis documental e histórico-lógico, complementado con revisión de literatura y recogida de datos de la comunidad académica.

Desarrollo: se determinaron los propósitos de la Comisión, la agenda de objetivos y actividades operativas y los procedimientos y mecanismos para su cumplimiento. Se trazaron las líneas de investigación, los criterios para la presentación de proyectos, los estímulos a la investigación y publicación científica y criterios para la búsqueda de financiación. A nivel institucional se identificaron las metas, las ventajas y oportunidades para el éxito de la comisión, así como los indicadores de producción para el monitoreo de resultados esperados.

Conclusiones: con la fundación de la Comisión se aspira a la visibilidad e institucionalización de avances y resultados parciales y finales en el devenir de las intervenciones en la comunidad universitaria. Para ello, se trazaron las metas e indicadores de gestión, planificados tanto a mediano como largo plazo. Los lineamientos establecidos devendrán en la formación de una comunidad de actores profesionalizados que dialogan en términos epistémicos, metodológicos, estadísticos, de gestión del conocimiento y de la ciencia basados en el pensamiento crítico-reflexivo.

Palabras clave: Enfermería; Gestión del Conocimiento; Indicadores de Gestión; Investigación; Planificación.

INTRODUCTION

The university plays a fundamental role in the generation of new knowledge by stimulating scientific, technological, humanistic and social research. The weight of the Faculty of Medical Sciences (FCM) of the University of Buenos Aires (UBA) in terms of the number of graduates is ample, which is reflected in the record of the graduation rate of the national census of university statistics. For this reason, it is essential and critical that these nursing professionals, as well as the rest of the professionals of all the careers offered at this faculty, obtain quality training.⁽¹⁾

According to Geffner, "...the quality of a faculty depends directly on the quality of its researchers and research projects; you cannot educate well if you do not do research...".⁽²⁾

Research stimulates critical thinking and creativity.⁽¹⁾ In response to this, FCMUBA after analyzing the situations that can be addressed from the academic field, and therefore the turning point of the state of affairs of this dimension, gave rise to the Commission of the Area of Research and Knowledge Management (CAIGC). The projections of the CAIGC have crystallized the creation, development and projections in the undergraduate and graduate Nursing of the UBA.

The management, innovation and development model advocated by the team of the Bachelor's Degree in Nursing at the University of Buenos Aires, is consolidated with a current vision and projected in the medium and long term future, in terms of institutional challenges and goals. To this end, it adheres to contextual dimensions of national and international social policies, which have been called emergencies of the public agency in terms of productivity and competitiveness in the face of quality standards. This impulse has been propitiated by actors of the governing body of the Faculty of Medical Sciences and the University per se, all in reference to higher education, responding to the mission of research and transfer, university extension and evidence-based teaching, as well as the determinations for the curriculum emanating from the resolution of the Ministry of Education of the Nation in instrumental matters in the area of research as a critical point in the design of the curriculum.^(3,4)

These precedents and attributes related to the optimization of the functioning of the undergraduate and graduate careers in the local context and aligned with the need to reflect and act with synderesis in terms of genuine, collaborative contributions and in the framework of the impulse for open science represent the starting point for the creation, development and projections in the undergraduate and graduate Nursing of the University of Buenos Aires through the formation of the Commission of the area of research and knowledge management.⁽¹⁾

The CAIGC plans, manages, consolidates and evaluates procedures, mechanisms and substantial recommendations that promote lines of research relevant to the discipline. These tend to be combined with other areas, which gives added value to open, emancipated science as a social construct that democratizes knowledge. Thanks to the creation of this commission, crystallized in the light of the documents that make explicit the trajectories and considerations for the organic and effective functioning in the educational community, the organic, teaching and research functioning of the Bachelor's Degree in Nursing and the disciplinary postgraduate courses at the University of Buenos Aires has been boosted.⁽⁵⁾

METHODS

A qualitative phenomenological-hermeneutic study research was carried out focused on documentary and historical-logical analysis,⁽⁶⁾ complemented with literature review and data collection from the academic community for the elaboration of the annual operational agenda of the Commission of the area of research and knowledge management in the undergraduate and postgraduate Nursing degree at the University of Buenos Aires, framed in the period from March to November 2023.

DEVELOPMENT

Research in health is defined as the process of knowledge production aimed at the study of health conditions and social responses to these conditions.⁽⁷⁾ In the most generic sense, research is the process of production of new knowledge (scientific and non-scientific).⁽⁸⁾

Research can also be defined as the action and effect of carrying out intellectual activities, with the purpose of increasing knowledge on a given subject and aiming to broaden scientific knowledge, without pursuing, in principle, any practical application.⁽⁹⁾ In 1947, B. Houssay, Nobel Prize for Medicine, expressed the opinion that the development of science, technology and scientific research are an urgent and unavoidable need to move forward.^(10,11)

On March 23, 2023, the foundations for the creation of the Commission of the Research and Knowledge Management Area (CAIGC) for the undergraduate and graduate degree in Nursing of the Faculty of Medical Sciences of the University of Buenos Aires (FCMUBA) were crystallized as an initiative of the direction of the Bachelor's Degree in Nursing. The members of the team established through dialogue the organizational and functional bases for action planning. in the short and long term. Its objective is to build bridges of knowledge, having as a key axis the educational community of the disciplinary undergraduate and graduate degree programs.^(12,13)

Purposes and agenda

This committee defined the following purposes:

- 1) to strengthen the development of research in undergraduate, graduate and postgraduate students, faculty and graduates.⁽¹⁴⁾
- 2) to develop academic proposals to articulate with the requirements established in the doctoral program, giving priority to the generation of graduate courses with a credit system, such as: Bioethics applied to Health Sciences research and Academic and Scientific Writing in Health Sciences.
- 3) to articulate with the recipients the guided development of research lines within the School of Medical Sciences, in the career and outside it, in collaboration with other public or private universities, or agreed organizations.
- 4) to officially promote the active participation of the committee before the academic body through periodic meetings according to the annual program.

In order to move forward and achieve these purposes, the following agenda of objectives and operative activities was elaborated:

- ✓ Design of research lines, which are nothing more than the set of research on the same object field, the same region of reality or area of knowledge, which articulates specific projects from which the academic processes are dynamized.
- ✓ Development of research projects (with a standardized model).
- ✓ Training of the teaching staff, students and graduates in the area of research.
- ✓ Encouragement of research and scientific publication.
- ✓ Search for funding for research projects and activities.
- ✓ Scientific publication and publication of research results.
- ✓ Operate in synergic development networks.
- ✓ Contribute to the visibility and scientific impact of the discipline, career and institution.

Procedures and mechanisms

By virtue of this, the procedures and mechanisms that promote such objectives and activities were defined. Therefore, the FCMUBA Bachelor's Degree in Nursing defines a strategic projection at the undergraduate, graduate and postgraduate levels in the medium and long term in terms of knowledge and information management. This is based on expected products within the framework of scientific development, involving the academic staff, students, graduates and referents, external guests and members of the community related to the purpose of the following lines of research:⁽¹⁵⁾

1. professional development in studies related to the healthcare practice of direct care (in the first, second and third level of care): promotion of well-being, quality of life and integral health, prevention of adverse events, diseases and claims, recovery, rehabilitation and socio-productive reinsertion of the person, family, groups or communities.
2. Professional development in studies related to teaching and research.
3. Professional development in studies related to administration and management in health and nursing.
4. Professional development in studies related to living and working conditions in nursing.
5. Professional development in studies related to phenomena: social, cultural, historical, political (professional associations, foundations, unions, nursing organizations, nursing networks), demographic (migration and nursing), ethical-legal, educational social practices, university extension, theories of care, humanized care, palliative care, mental health and addictions, simulation, telehealth, public health and nursing, psychosocial and cultural care for specific populations (perinatal, pediatric, adolescents, adult, elderly, native or native native peoples), metaverse, augmented reality and artificial intelligence in health sciences and nursing, technologies applied to health care and well-being, as well as other transversal and circumstantial areas (gender equality, environmental care, environmental impact and climate change, public policies, coaching, communication skills, human rights, human dignity, intersectoriality, sustainable cities, renewable energy and recycling, housing conditions, epidemic events and environmental catastrophes), scientometrics, bibliometrics, and metrics.

Considering the concept of research line as "the set of research on the same object field, the same region of reality or area of knowledge, which articulates concrete projects from which academic processes are dynamized".⁽¹⁵⁾

In reference to the presentation of research projects, a standard model was designed with the following structure:

1. Title of the project
2. Principal investigator and other investigators.
3. Introduction (space to describe the background on which the project is based, maximum 1000 words).
4. Hypothesis and objectives (maximum 500 words)
5. Methods (space to describe materials and methodologies to be used to obtain the hypothesis or objectives indicated in item 4, maximum 1000 words).
6. Background of the research group related to the topic of the project (maximum 1000 words).
7. Schedule of activities
8. Budget
9. Bibliography
10. Scope of management (research center or institute, department, career, other formal institutional area).
11. Annexes (optional if applicable).

For the implementation of research projects, the following criteria were considered:

- ✓ Development of research lines in relation to the scope and development of teachers, students and graduates.
- ✓ Development of national and international collaboration networks in the area of Nursing and Health Education.
- ✓ Follow-up of results and dissemination.

In relation to the training of the teaching staff, students and graduates in the area of research, the following aspects were considered:

- ✓ Before publishing, it is necessary to learn how to do research. Therefore, it is necessary to generate proposals for courses on research and publication for students, faculty and graduates.
- ✓ Development of research seedbeds for students, faculty and graduates.
- ✓ Cycle of talks and exchanges with national and foreign referents in the field of science.⁽¹⁴⁾
- ✓ Normalize the institutional affiliation of the Bachelor's Degree in Nursing at the University of Buenos Aires. In addition, to achieve registration in the ORCID database and others oriented to the profile of researchers.^(16,17)

The Open Researcher and Contributor ID (ORCID) is an open, non-profit, community-based project that provides a system for the unambiguous identification of researchers and a clear method for linking research activities and products of these identifiers. ORCID has a unique ability to reach across disciplines and research sectors, cross national borders, and cooperate with other identification systems.^(16,17)

For the encouragement of scientific research and publication, the following is taken into account:

- ✓ Hourly dedication reserved for research tasks.
- ✓ Record of participation in research-related activities for students, professors and graduates.
- ✓ Continuous methodological advice to research projects by the committee.
- ✓ Education on the use of digital scientific profiles, scientific databases and bibliographic managers.
- ✓ Advice and support in the search and application for scholarships, funds, subsidies, grants, among other sources of financing.

Regarding the search for funding for research projects and activities, the following criteria were considered:

- ✓ Advise and guide on the means and areas to apply for grants, scholarships or funds to finance national, regional or international research projects, programs or proposals.
- ✓ Monitoring the results of the management carried out.
- ✓ Generate alliances with cooperation entities to promote the development of research with sustainability resources related to institutional social responsibility strategies.

In the interest of promoting scientific publication and research results, the following was programmed:

- ✓ Advice on scientific writing
- ✓ Generate awareness on ethics in scientific communication.
- ✓ Advice on selection of journals for publication.
- ✓ Advice on the follow-up of proposals sent to journals in the different editorial management systems.

- ✓ Stimulation of the conversion of theses to article format, of postgraduate training programs, based on previous experiences.⁽¹⁸⁾
- ✓ Guidance for the transit through doctoral training at FCM UBA: to gather scores that accredit the product of research and development up to the admission and defense of doctoral theses.⁽¹⁹⁾
- ✓ Standardization of institutional and career affiliation.⁽¹⁶⁾
- ✓ Articulation of the career with the institutional repository for the deposit of undergraduate and graduate thesis abstracts, as well as published scientific articles.
- ✓ Follow-up of the scientific production of the career and of those undergoing doctoral training.
- ✓ Public communication of the scientific contributions produced.
- ✓ To guide the publication of research in own and external scientific journals.

In order to operate in synergic development networks and contribute to the visibility and scientific impact of the discipline, career and institution, the following strategies were considered:

- ✓ Guide and advise on the steps to follow in terms of selection of databases, repositories and indexed journals to publish results.
- ✓ Articulate with academic, editorial and scientific circles for the establishment of bilateral collaboration relationships in the generation of synergic networks for the development of open science.
- ✓ Strengthen the appropriation and mastery of tools to contribute to nursing science.⁽⁵⁾
- ✓ Work collectively in the enhancement of the h-index and impact factor.
- ✓ Cultivate the culture of positioning in international domains: SCImago Journal and Country Rank; SCImago Institutions Rankings; wizdom.ai; DimensionsDATOS.

All the above aspects are managed and addressed by means of an official and formal communication system through institutional e-mail (investigacionenfermeria@fmed.uba.ar), interactive group with online chat, video communication platforms, virtual classroom, meetings with face-to-face meetings based on a functional schedule of annual programming and teleconferences.

The institutional goals projected by the committee correspond to the following items:

- ✓ Establish quality indicators for the evaluation of undergraduate and graduate scientific work in a 1:5 ratio (one tutor for every five projects submitted).
- ✓ Establish a range of protected time between 4 to 6 hours per week for research professors and optimize categorization in the national system.
- ✓ Establish a bank of undergraduate and graduate thesis tutors.
- ✓ Create a repository of scientific papers.
- ✓ Coordinate scientific conferences for the dissemination of Nursing science.^(5,20)
- ✓ Consolidate a reference evaluation committee for national and international works.
- ✓ Generate a bank of directors and co-directors of postgraduate theses: specialization, master's or doctorate.⁽²¹⁾

In order to monitor expected results, production indicators were drawn up:

- ✓ Number of research papers received by the committee.
- ✓ Number of articles published or in the process of publication according to subject area.
- ✓ Ethical and scientific quality: ethical considerations, informed consent, data treatment, citation standards, declaration of conflicts of interest, other dimensions.
- ✓ Protected hours for nursing faculty research.
- ✓ Other metrics that are pertinent to the generation of research products (scientometrics, bibliometrics, metrics).

- ✓ Number of research products completed and published during one academic year.

The current challenges in terms of exponential growth and scientific-technical impact, scientific dissemination and diffusion represent the Achilles heel of many higher education institutions, the public-private agency, and the scenario in which the intangible capital takes place in terms of the significance of the contribution in the century and context that is the driving force of the world of science: productive and sustainable.^(3,5,13)

Therefore, the initiative to generate solid, supportive and collaborative institutional spaces, as highlighted by the creation and implementation of the CAIGC, establishes the historical footprint in the present and with future projections to strengthen nursing research at institutional, local and regional levels.^(22,23)

To this end, the authors emphasize the need to consolidate a network of actors and researchers that promote the support of arguments of advanced nursing practice, the enhancement of competencies for research, improvement of educational quality and performance of graduates in professional practice. In addition, evidence-based practice and decision making should be made visible as an instance mimetized in a balance between knowledge and interaction with institutional, environmental and formative factors.^(24,25)

Subjective and objective conditions for the successful functioning of the CAIGC

In this aspect, two substantial dimensions stand out as a product of the integrative analysis of the current state of affairs in the area of research in the institutional framework:

Advantages:

- ✓ Incorporation of researchers in various categories.
- ✓ Scholarships and grants articulated in the Secretariat of Science and Technology.
- ✓ Instance of institutional promotion of research in the undergraduate and graduate career.
- ✓ Research promotes the genesis of new knowledge for the academic community and the civil society.
- ✓ Teachers interested in conducting research.
- ✓ Seminars and training courses for teaching staff in relation to research methodology.
- ✓ High concentration of teaching staff to select potential researchers.
- ✓ Debate within the educational management of the career.
- ✓ Support from other sources of funding and sponsorship.
- ✓ Existence of research institutes and centers.
- ✓ Institutional standards for researchers.
- ✓ Protocol for categorization of researchers typified.

Opportunities:

- ✓ Leveraging agreements with national and international research bodies and agencies.
Network of associated hospitals.
Possibility of opening research institutes following formal administrative processes.
- ✓ Corporate and university social responsibility with a sense of collaboration to access funding for research projects.
- ✓ Existence of the Secretariat of Science and Technology at the Faculty of Medical Sciences and the University of Buenos Aires.
- ✓ Existence of an updated central library with access to the Proxy system, allowing connection to publications in indexed journals.

- ✓ Coordination among academic actors through meetings and the search for solutions to the problems of reality with a focus on health-disease-care situations and aspects of university education.
- ✓ Situation of the ranking in relation to the current state of the research dimension.

CONCLUSIONS

With the foundation of the Commission of the area of research and knowledge management for the development and projections in the undergraduate and graduate Nursing of the University of Buenos Aires, we aspire to the visibility and institutionalization of advances and partial and final results in the evolution of the interventions in the university community. To this end, goals and management indicators were outlined, planned both in the medium and long term, for the establishment of an academic culture with a firm scientific basis, committed and aligned with the mission of research and scientific-technical transfer. The established guidelines will result in the formation of a community of professionalized actors who dialogue in epistemic, methodological, statistical, knowledge management and scientific terms based on critical-reflective thinking.

Conflict of interest

The authors declare that there is no conflict of interest.

Authors' contribution

COL: Conceptualization, research, methodology, Writing - original draft, Writing - review and editing.

IAS, MAB, JMP, NNP, LMB, MADeN, CAS, RAGT: Research, Writing - review and editing.

Funding

The authors did not receive funding for the development of this research.

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