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Conceptual Bases of the New Model of the University Pharmacy at University of Sao Paulo (FARMUSP)



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This document was elaborated by FARMUSP team, and updated in 2017.



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1. Contextualization

The University Pharmacy of the Pharmacy Department of the Faculty of Pharmaceutical Sciences at University of São Paulo (FARMUSP) was the first Pharmacy-School of the State of São Paulo. Created in 1970, it is part of the Pharmaceutical Care and Pharmacy Control Center (CCAF), which corresponds to the Pharmacy Department (FBF) of the Faculty of Pharmaceutical Sciences of USP (FCF-USP). It is located in 74 Praça do Relógio Street, University City, Butantã, São Paulo.

Until 2008, FARMUSP activities were focused on the dispensing and manipulation of drugs (traditional or biomedical model), carried out according to the regulations in force at the time for Pharmacies and Drugstores, involving the commercialization of medicines (industrialized pharmaceutical specialties and pharmaceutical compounding) and related products. Between 1970 and 2008, FCF-USP students took internships (curricular, non-curricular and scientific initiation) and participated, among other activities, in the development of newsletters for the community.

However, a new model has been outlined for FARMUSP, considering the worldwide trend of humanistic patient / user drug treatment (biopsychosocial model), in line with the National Curricular Guidelines for Pharmacy Courses in Brazil - CNE / CESU nº 02/2002, which highlight the importance of training the pharmacist to act as a member of the health team at all levels of health care.

Thus, the Department of Pharmacy of FCF-USP (FBF) considered the elements described below to develop the necessary actions that led to the creation of an innovative model for FARMUSP, aiming to integrate it into the Institutional Educational Policy Project, as an updated scenario for the teaching of pharmaceutical practices considering the patient as the principal focus.

- FCF-USP already plays a prominent role in the national scenario in relation to undergraduate and postgraduate education in the technological areas related to the drug (which attend to the training of pharmacists to work in pharmaceutical industries in the State of São Paulo);
- There is a need to implement at FCF-USP a greater number of activities related to the training of the clinical pharmacist, according to the worldwide trend of reinsertion of the pharmacist into the health team (to meet the increased demand for new jobs in hospitals, basic health and pharmacies);
- A new revision of the National Curriculum Guidelines for Pharmacy Courses in Brazil is underway.



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In this sense, in this document, the conceptual bases of the new model of FARMUSP's performance are presented, which characterize it as a Reference Pole for Teaching, Research and Outreach activities to the Community in the areas of Pharmaceutical Care and Pharmaceutical Assistance.

2. Assumptions of FARMUSP's new model of performance

2.1 Conceptual framework

In the context of this document, the following definitions are adopted:

- **Pharmaceutical Assistance** - Set of actions aimed at promoting and recovering health, which involves programming, selection, planning, production, distribution, prescription, dispensing and use of medicines. Due to the complexity involved in these actions it is considered that this area is multisectoral and multidisciplinary. It covers Clinical Pharmacy and Pharmaceutical Care.
- **Clinical Pharmacy** - A Pharmacy area dedicated to the science and practice of the rational use of medicines, in which pharmacists provide care to the patient, in order to optimize pharmacotherapy, promote health and well-being and prevent diseases. According to the ASPH - American Society of Healthsystem Pharmacists, Clinical Pharmacy adopts the philosophy of Pharmaceutical Care.
- **Pharmaceutical Care** - Private practice of the pharmacist who acts with the patient / drug user and the multidisciplinary team, with the development of clinical activities. It involves pharmacotherapeutic follow-up, aiming at the rational use of medications and obtaining positive results in solving the health problems of the patient and the community in which it is inserted.

In addition, the recommendations of the International Pharmaceutical Federation (FIP) and the World Health Organization (WHO) on the training of the pharmacist according to an up-to-date profile in relation to global health needs were considered for the proposed model.

2.2 Institutional purpose

The discussions about the construction of the new FARMUSP model of action were based on the premise that a University Pharmacy should not reproduce a model that predominates the commercial aspect. Thus, FARMUSP's Mission, Vision and Values were defined, namely:



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- **Mission** - Discuss and propose actions to implement Pharmacy Assistance, with emphasis on Pharmacy Clinic and Pharmaceutical Care in the areas of Undergraduate and Postgraduate Education, Research and University Extension at FCF-USP, aiming at integrating the pharmacist into the Multidisciplinary Team of Health in line with the universal principles of SUS.
- **Vision** - To be recognized by society with a space for reflection on Teaching, Research and University Extension in Clinical Pharmacy and Pharmaceutical Attention to promote the Rational Use of Medications in the multidisciplinary and transdisciplinary context.
- **Values** - Ethics, Organizational Competence, Integration Capacity and Proactivity.

2.3 Adequacy to existing legislation

The innovative model currently practiced at FARMUSP is in line with the regulations and conceptual framework in the area of Pharmacy in Brazil, namely:

- **Ordinance n. 529** of the Ministry of Health, of April 1, 2013, which established the National Patient Safety Program (*Programa Nacional de Segurança do Paciente* - PNSP), and encourages professional interactions for the benefit of patient safety by reducing medication errors.
- **Resolution n. 585** of the Federal Council of Pharmacy (CFF), published on August 29, 2013 to regulate the clinical assignments of the pharmacist.
- **Resolution n. 586** of the Federal Council of Pharmacy (CFF), published on August 29, 2013 to regulate pharmaceutical prescription.
- **Law n. 13.021** of August 08, 2014, which changed the concept of Pharmacy in Brazil from a commercial establishment to an establishment providing services in pharmaceutical care, motivating pharmacists to perform clinical activities related to Pharmaceutical Care.
- **Circular letter** from the Ministry of Education prepared by the Board of Evaluation of Higher Education (*Diretoria de Avaliação da Educação Superior* - DAES) of the National Institute of Educational Studies and Research Anísio Teixeira (*Instituto Nacional de Estudos e Pesquisas Educacionais Anísio Teixeira* - INEP) under n. 000024 of March 17, 2015, which deals with changes in the evaluation instrument of undergraduate courses in the degrees of technologist, undergraduate and baccalaureate for the face-to-face and



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distance modalities and inserts the compulsory University Pharmacy for the Pharmacy Courses.

- **Resolution n. 610** of the Federal Council of Pharmacy (CFF), published on March 20, 2015, which provides about the duties of the pharmacist in the University Pharmacy, "which defines this establishment as a Specialized Didactic Laboratory that integrates theory and professional practice, giving support to the development of skills essential to the health needs of the patient, family and community".
- **Resolution CNE / CES 2**, of February 19, 2002. Institute National Curricular Guidelines for the Pharmacy Undergraduate Program.
- **Resolution RDC (Resolution of the Collegiate Board – Resolução da Diretoria Colegiada) n. 44/09**, of August 17, 2009. Provides for Good Pharmaceutical Practices to control the operation, dispensation and commercialization of products and protection of pharmaceutical services in pharmacies and drugstores, and other measures.
- **Lawn n. 5991**, of December 17, 1973. Provides about the sanitary control of the trade in drugs, medicines, pharmaceutical and related inputs, and other measures.
- **Pharmaceutical Services** directed to the patient, the family and the community: contextualization and conceptual framework / Federal Council of Pharmacy, published in 2016.
- **University Pharmacy: Minimum Standards.** National Forum of University Pharmacies 2017 collaborates with the implementation of University Pharmacies in Brazil, considering its importance for pharmaceutical education in the Country.

2.4 Institutional Partnerships

In order to make the new model viable, partnerships were established with the São Paulo State Department of Health (SES-SP) and the University Hospital of USP (HU-USP).

The research project funded by FAPESP (Fapesp-PPSUS Project - Research Program for the Unified Health System - SUS) is currently underway, which involves the pharmacotherapeutic follow-up of patients with prostate cancer attended by medical professionals from the HU- USP.



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Patients who meet the established inclusion criteria are referred by the medical professionals of the University Hospital of USP to FARMUSP for monthly pharmaceutical consultations that include dispensing medications and pharmacotherapeutic follow-up. The necessary medicines are provided by SES-SP (pilot project for the implementation of the Integrated Pharmacy concept that provides for the dispensing of all medicines required by the patient in a single Pharmacy, involving all the list of medicines of the SUS, i.e. medicines of the Basic, Strategic and Specialized Components of Pharmaceutical Assistance).

There are many derivative activities from the development of this project from teaching, researching and extension services to the community. It is possible to integrate undergraduate, postgraduate and pharmaceutical residency into multidisciplinary health teams, with the patient as the focus of care and the drug as an input to their treatment, thus promoting the rational use of medicines.

3 Infrastructure

There was significant investment of resources for the necessary reforms and acquisition of equipment and materials, with funding from the Rector of USP, FCF-USP and FAPESP. Currently, FARMUSP (Figures 1 to 5) consists of:

- **Reception / reception area:** adequate to the precepts of humanization in the health area.
- **Laboratory of Education and Research in Pharmaceutical Care - LEPAF:** 03 Pharmaceutical offices for pharmacotherapeutic monitoring. It should be emphasized that pharmacotherapeutic follow-up is based on the adoption of a method that allows the registration and evaluation of fundamental parameters for the optimization of the patient's pharmacotherapy, in agreement with the patient himself and with the other health professionals related to his treatment. To do so, this monitoring requires appropriate infrastructure for the patient's interview by the pharmacist, which demands adequate and exclusive site for this purpose, in order to preserve the confidentiality of information and strengthen the patient - pharmaceutical relationship.
- **Drug Information Center (CIM-FARMUSP):** a place where academics are involved in innovative projects to maximize patient safety, health education and pharmacovigilance, making it possible for students from FCF-USP to undertake curricular and scientific initiation. An innovative platform with funding from FAPESP (Project PIPE II) is under construction, involving FCF-USP's partnership with a computer solutions company that was incubated at the Center for Innovation, Entrepreneurship and Technology (Cietec) at USP. The CIM will be integrated into the Brazilian Network of Drug Information Centers



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(REBRACIM) and it will support the development of activities that collaborate to reduce the impact of the judicialization in the health area.

- **Teaching and Research Laboratory of the Medicines Information Center (Laboratório de Ensino e Pesquisa do CIM - LEPECIM):** rooms for the development and application of simulation techniques in pharmaceutical practices.
- **Drug storage area:** air-conditioned room with biometric lock, where the medicines are separated and stored according to the prescription of each patient.
- **Professor Coordination Room**
- **Administrative area: rooms for staff pharmacists**
- **Meeting room**
- **Elderly Area:** external area, adjacent to FARMUSP, intended to carry out multidisciplinary activities, aiming at the well-being and improvement of the quality of life of the community. This initiative was taken by FCF-USP and involves the implementation of multidisciplinary internships involving students from the areas of pharmacy, physical education, nutrition, psychology, among others.
- **Classrooms: two areas designed for classes and related activities**
- **Two pharmaceutical offices**
- **A shared room for use as a pharmacist's office and for postgraduate activities.**

The current infrastructure, as well as the aforementioned partnerships and the financing of projects by FAPESP are making it possible to carry out Completion of Course Works (Trabalho de Conclusão de Curso - TCC), master's dissertations and doctoral theses, as well as the development of a postdoctoral project.

4 Final considerations

New model / infrastructure of FARMUSP also enables partnerships to be stated for the development of human resources training programs in the areas of Pharmaceutical Care and Pharmaceutical Assistance, in order to collaborate with the training / qualification of pharmacists who can act in the SUS context.

In addition, this model favors the establishment of partnerships with universities in Brazil and abroad for the promotion of undergraduate and postgraduate student exchange programs in pharmacy.



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In short, the new model of FARMUSP is a major advance in the area of Pharmaceutical Care and Pharmaceutical Assistance in Brazil, since it enables actions that collaborate with the discussion of the needs of curricular changes of the Pharmacy Course. It is also characterized as a practice scenario for teaching, research and community-oriented activities (university extension services), engaged in the Pedagogical Political Project of the Faculty of Pharmaceutical Sciences of USP.



Figure 1 - FARMUSP identification totem.



Figure 2 - Reception area.



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Figure 3 - Pharmacist's office.



Figure 4 – Drug Information Center.



Figure 5 - Space for the elderly.



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