

ACTIVITIES REPORT



2023



FUNDAÇÃO
FACULDADE DE MEDICINA

SUMMARY

PRESENTATION

ACTIONS

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MESSAGE FROM THE PRESIDENCY



Arnaldo Hossepian Junior
Director General



*Prof. Dr. Tarcisio Eloy
Pessoa de Barros Filho*
Deputy Director General



As we complete two years of management at Fundação Faculdade de Medicina - FFM (Medical School Foundation), it is with great satisfaction that we share this Activities Report, accounting for the work and achievements accomplished by the teams of this Institution and the entire Health Academic System FMUSP-HC. In 2023, we begin a path of important Transformation to meet the new times, which demand even more agility, technology and transparency. Our commitment to Teaching, Research, Innovation and, above all, Assistance is fundamental, as these pillars support the continuous enhancement of health and the well-being of the society we serve.

After the diagnosis and reformulation phase of its Statute, Internal Regulations, Purchasing and Contracting Manual, Code of Conduct and other regulations to ensure greater agility, efficiency and, most importantly, to meet the requirements of control bodies, FFM has turned its focus to the future through a fundamental tool: Strategic Planning. Our strategies are being developed in alignment and harmony with the decisions of the Board of Directors of FMUSP and the Deliberative Council of Hospital das Clínicas, in a collaborative process, with the participation of our Councilors and the senior leadership of the Health Academic System FMUSP-HC, in addition to our Managers. As a supporting Foundation, FFM's actions are carried out solely in favor of the interests and deliberations of the Faculty and the Hospital.

It is important to highlight that FFM has higher management bodies through its three Councils. The Board of Trustees, our highest authority, which guides us and approves our most substantial actions, is composed of professors and representatives from the University of São Paulo Medical School (FMUSP) as well as legal authorities, such as a Minister of State and members of the Superior Federal Court. The Advisory Board has notable personalities from civil society committed to discussing our cause. Finally, the Fiscal Council, made up of professionals from oversight bodies, who has the capability to review our internal operations independently of external audits, identifying inconsistencies or suggest governance protocols better suited to our reality.

Transparency is an intrinsic value of the Foundation, which is also supported by our Compliance Office, established during this administration.

Our relationship with oversight bodies is, now more than ever, closer. In fact, in 2023, we led the efforts

to advocate for the Bill of Law No. 1,719/2023, which addresses Health Foundations, approved by the Legislative Assembly of the State of São Paulo (Alesp) on March 5, 2024 and which awaits the Governor's sanction. Once in force, it will be a disruptive moment that will ensure greater legal security for FFM.

With the Law, we will have expanded possibilities for fundraising, which is being emphasized in this administration through the creation of an Institutional Relations department, responsible for identifying partnerships opportunities and allocation of amendments, as well as fostering relationships with various levels of government and the private sector.

The initiative aims to reduce the financial burden on the Executive Branch in order to maintain a Complex that houses 2,400 beds and receives around 45 thousand people daily, in addition to encouraging the development of research, improving its infrastructure and promoting education.

For the future, we want to focus on practices related to ESG (Environmental, Social and Governance) and promote social inclusion within our Foundation. By recognizing the relevance of an inclusive and respectful work environment, we are not only ensuring the well-being of our team, but also demonstrating our commitment to fundamental values of citizenship.

The pursuit of implementing these guidelines reflects our conviction about the importance of sharing essential human values. Therefore, by establishing a more harmonious and inclusive environment, where every voice, origin, color and belief is valued, we are reinforcing our commitment to building a fairer, more equitable and sustainable workspace for all our employees. Our Institution has demonstrated an increasingly proactive stance, expanding its boundaries and constantly seeking effectiveness in its initiatives. Our goal is to further elevate the quality standard of activities carried out by one of the best Medical School in the world and by the largest Hospital Complex in Latin America.

We thank everyone who has been part of this journey and count on the continued support of each one of you to achieve new accomplishments and overcome future challenges.

PRESENTATION



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PRESENTATION



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In this report, we present the main initiatives and activities carried out by FFM in 2023. The overview of the social impact achieved by FFM, in joint action with HCFMUSP and FMUSP, can be appreciated through the analysis of the section “FFM in Numbers” (p. 12).

The chapter “The FFM” (p. 16) presents a brief history of the Institution, along with a summary of the main activities carried out by the current Board of Directors, as well as the Timeline, Organizational Chart and main Partners. The Consolidated Results and the Summary of the 2023 Financial Statement contain this information.

To fulfill its statutory objectives, FFM develops, together with HCFMUSP and other partners, a series of Comprehensive Health Care Actions (page 40), always prioritizing care for SUS patients. Ensuring the execution of special procedures such as transplants, implants and other high-specialty procedures is another of its priorities. The performance achieved in 2023 by the HCFMUSP Complex and by other Health Units was supported by FFM through the allocation of human and financial resources.

With its qualification as a Social Organization, FFM was able to administer the Management Contract of Icesp (p.73), specialized in high-complexity care and equipped to provide comprehensive attention to oncology patients within the public health system (SUS).

FFM also continued to oversee the Management Contract of IRLM (p. 78), which grants SUS the quality

standards of the best assistance centers for people with disabilities in the world.

In 2022, FFM was the social organization selected to manage the activities of Perdizes Institute (IPer), through a Management Contract (p. 81). Inaugurated on November 8, 2022, IPer was born with the mission of becoming one of the world’s leading reference centers for the treatment of alcohol and drugs.

The development of Other Assistance Initiatives (p. 84), Covid-19 Response Projects (p. 90), and Research Projects (p. 106), in conjunction with HCFMUSP and other partners, were priority actions for FFM in 2023.

The technological innovation projects developed by InovaHC and other initiatives focused on digital health and Artificial Intelligence leave a potential legacy in the Innovation hub (p. 98) of the FMUSP-HC System.

The implementation, together with HCFMUSP and other partners, of Training (p. 126), Health Policies (p. 130) and Institutional (p. 138) projects was also part of FFM’s actions in 2023.

The Abbreviations used (p. 148) and the current composition of the FFM Administration (p. 150) complete the 2023 FFM Activities Report.

FFM IN NUMBERS

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FFM IN NUMBERS

CARE PROCEDURES + FREE HOSPITALIZATIONS FOR SUS PATIENTS

Transplants and Implants (SES-SP Agreement)

Ambulatory Statement - Authorization for High Complexity Procedures – APAC (SES-SP Agreement)

Pharmaceutical Care - Quantity of Medicines from CEAF (SES-SP Agreement)

ICHC + PAMB – Assistance in Medical Specialties (SES-SP Agreement)

IPq – Assistance in Psychiatry (SES-SP Agreement)

IOT – Assistance in Orthopedics and Traumatology (SES-SP Agreement)

IMRea – Vila Mariana, Umarizal, Lapa and Clínicas Units (SES-SP Agreement)

ICr - Health Assistance for Children and Adolescents (SES-SP Agreement)

InRad – Radiology Assistance (SES-SP Agreement)

HAS – Assistance for Long-Term Patients (SES-SP Agreement)

AIDS House (SES-SP Agreement)

C.S.E. Butantã (SES-SP Agreement)

Icesp + ITACI (Management Contract)

Lucy Montoro Rehabilitation Institute – IRLM (Management Contract)

Perdizes Institute - IPer (Management Contract)

Adult and Pediatric Kidney Transplant Project (SES-SP Agreement)

Speech Therapy services + Surgeries + Ambulatory Clinic for Patients with Labiopalatine Clefts (Other Agreements)

CEMIM – IOT - Number of Surgeries and Ambulatory Care (SES-SP Agreement)

Várzea do Carmo Assistance Management Center (SES-SP Agreement)

Emílio Ribas Institute of Infectious Diseases - Number of Exams (SES-SP Agreement)

CEDMAC - Number of Services (SES-SP Agreement)

TOTAL

(*) Informative quantity only and not considered in the Total Attendances
 (**) Quantity up to July/2023
 (***) Approximate average quantity

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AMOUNT	PAGE
840 (*)	54
145,030 (*)	55
45,557,046 (*)	56
8,271,220	58
64,943	60
290,545	61
222,563	62
966,543	66
242,565	67
231 (**)	68
47,948	71
4,795	72
661,658	74
27,713	78
9,029	81
2,189	86
806	86
2,561	86
12,082	87
344,102	87
14,208 (***)	87
11,185,701	

Total:

11,185,701

THE FFM

FFM has consolidated itself through its participatory and open management to its stakeholders

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The Fundação Faculdade de Medicina (FFM) celebrated 37 years of history on September 18, 2023. Founded by former students of FMUSP, the institution was created to support the Teaching, Research, and Assistance activities of FMUSP and HC, and it is currently also dedicated on the Innovation axis.

Recognized for its trajectory of integrity, quality and transparency in the services provided to the population through its support to FMUSP and Hospital das Clínicas Complex, FFM has sought to improve its management, particularly to enhance the optimization and transparency of its processes.

FFM develops, supports, manages and maintains hundreds of Comprehensive Health Care, Assistance, Research, Innovation, Clinical Studies, Training, Institutional and Health Policy projects through agreements with public and private institutions, both national and international, involving the hiring of researchers and professionals directly assigned to the projects, in addition to the acquisition of materials and equipment.

The activities of the Foundation are associated with the decisions of the Board of Trustees and the Advisory Board of FFM, the Congregation and Technical Administrative Council of FMUSP, and the Deliberative Council and Planning and Control Committee of HCFMUSP.

To ensure the effective joint action of HCFMUSP and FFM in the development of comprehensive health care, a **Cooperation Agreement for Comprehensive Health Care for SUS Patients** has been in place since 1988 between FFM, HCFMUSP, and SES-SP (São Paulo State Health Department). The objective of this agreement is to provide care for this population, as well as to implement other health initiatives within

the Hospital Complex.

The Restoration and Modernization Project of FMUSP, developed between 2000 and 2008, received essential support from FFM, which shared the coordination of the project and fundraising efforts with FMUSP.

In 2008, FFM became a Social Organization and expanded its involvement in managing health care projects, such as the “Projeto Região Oeste”, which ended in 2016. As a result, control systems and processes were modernized, without the need for a significant expansion of the direct administration team.

In 2008 and 2010, FFM signed Management Contracts to operationalize the health activities and services of Icesp and IRLM, respectively, which are still in force. In 2022, it was the social organization selected in a Public Call by HCFMUSP to manage the activities of Perdizes Institute, through a Management Contract.

FFM has specific computerized systems that support administrative operations, both for internal, legal, regulatory demands and for the HCFMUSP complex – solutions implemented through its Information Technology Department (DTI).

In 2022, the new Board of Directors implemented a digital transformation process in its operation, aimed at optimizing processes, enhancing integrations between different areas, in addition to promoting and fostering transparency in the conduct of its work. A Fiscal Council with three members and a Compliance Office were also established.

In **operational terms**, the Department of Supplies and Operations adopted new regulations and more



Inauguration Ceremony for the new FFM Advisory Councilors

dynamic processes to facilitate purchasing.

In the People Management Department, speed in hiring personnel has also been a target of the Board of Directors' efforts. It is known that people are the main asset and that they are responsible for the excellence in service that is so valued. Therefore, FFM is committed to ensuring rapid and quality hiring for all fronts of the HCFMUSP Complex.

Communication channels have been expanded to encourage participation from both external and internal public in management. The Information and Assistance Service (SIA) was structured to receive inquiries, suggestions, compliments and complaints. A reporting channel was also created, whose messages are directed to the Compliance Office, and a direct line with the FFM Board of Directors, the Compartilhe Program, which offers employees the opportunity to speak personally with the Foundation's directors, without intermediaries. Furthermore, a new, more modern visual identity guided the redesign of the website, to ensure a greater sense of belonging among FFM members and the entire Complex.

In April 2023, FFM began implementing the Information Security Awareness Plan (PCSI), aimed at raising employee awareness about information security standards, in line with the General Data Protection Law (LGPD).

The implementation of the PCSI is part of the series of actions within the Privacy Awareness Program, being implemented at the HCFMUSP Complex, in partnership with the supporting foundations – FFM and Zerbini Foundation. The initiative is supported by specialized consulting.

To better support decision-making for FFM management, a new tool was developed in 2023: Performance Analysis, a management dashboard that consolidates key data and indicators, integrating all areas of the Institution. From this panel, senior leadership gains insights for more assertive and strategic actions, aimed at enhancing the effectiveness to activities.

On November 23 and 24, 2023, FFM promoted the II Strategic Planning Meeting under the slogan: Transformation for Effectiveness. The discussion, attended by leaders of the Institution, outlined strategies for the coming years.

At the **institutional** level, in May and June 2023, meetings were held with the World Bank team, the Government of the State of São Paulo, FMUSP and HCFMUSP, aimed at financing the modernization of the technological infrastructure of the Institutes.

FFM is also involved in the coordination of the redevelopment of Dr. Enéas Carvalho de Aguiar Avenue and the revitalization of the entire surroundings of the Hospital Complex, in partnership with the City of São Paulo. Another improvement articulated for the region is the reinforcement of security, a joint effort with the Public Security Secretariat of the State of São Paulo.

The Director General and the Director of Corporate Management of FFM attended the VI Health Law Conference of the National Forum of the Judiciary for Health (Fonajus), on June 15 and 16, 2023, in Cuiabá (MT). The event was organized by the National Council of Justice (CNJ), in partnership with the Judiciary of Mato Grosso, with the aim of improving technical knowledge about public and supplementary health and also discussing the challenges of judicialization, seeking solutions to the issue.

Regarded as the most significant meeting in supplementary health care in the country, Conahp (National Congress of Private Hospitals), held on October 18 and 19, in São Paulo, featured the participation of the Director General of FFM as a panelist in the session “Successful Cases: Public-Private Integration in Practice.” The event aimed to encourage debate among all players in the sector in search of solutions to the main issues impacting Brazilian health care.

FFM also supports the FMUSP-HC System in organizing its various events. In 2023, it participated in the following technical-scientific and institutional events:

- a) *National Congress of Nurses – CONAENF 2023;*
- b) *XIV Summer Course in Bioinformatics;*
- c) *Update in General, Emergency and Trauma Surgery Course – Surgeon Year 14;*
- d) *II Acute Kidney Injury Update Course - IRAUSP;*
- e) *Annual Course of the Discipline of Nephrology – NEFROUSP 2023;*
- f) *XIV Conference in Speech Therapy;*
- g) *2023 USP Emergency Congress;*
- h) *VI Conference in Rheumatology Update -USP;*
- i) *12th Meeting of former Rheumatology residents - FMUSP 2023;*
- j) *USP Thorax Portal Project;*
- k) *Tumor Board Course;*
- l) *Hemophilia Diagnosis Laboratory Course;*

m) *Global Neuro Advanced Course -Neurotrauma;*

n) *Spondyloarthritis Preceptorship Course;*

o) *XI International Meeting in Oncological Endoscopy – ENEO 2023;*

p) *Medical Education Program – 2023;*

q) *Infection in Transplants Course and Infection in Immunocompromised Patients Symposium.*

In the area of **assistance**, FFM facilitated the “Surgical Expedition” of FMUSP in partnership with the Brazilian Air Force (FAB). The project, held from June 30 to July 10, involved around 70 volunteers, including professors, doctors and residents, who brought over 1.7 tons of medical equipment, medications, and other materials to the municipality of Barra do Garças (MT).

Another FFM assistance activity involved working with the State Secretariat for Penitentiary Administration to bring Telemedicine into prisons in the State of São Paulo, through the HCFMUSP’s Digital Health Insurance. Promoting more citizen-oriented health care system was also the objective of meetings held with Sírío-Libanês Hospital, through the Beneficent Society of Ladies of Hospital Sírío-Libanês, and with the Federation of Industries of the State of São Paulo (FIESP), through the Committee of the Health and Biotechnology Productive and Economic Complex (ComSaúde).

Regarding coordination with oversight bodies, the FFM Board of Directors participated in meetings with representatives of the São Paulo State Court of Auditors, the Federal Court of Auditors, the Attorney General’s Office of the State, the Public Prosecutor’s Office of São Paulo, the National Council of Justice, Court of Justice of the State of São Paulo, Public Defender’s Office of the State of São Paulo, Federal Supreme Court and Superior Court of Justice.

FFM also signed cooperation agreements. In September 2022, it supported the agreement between HCFMUSP, the National Council of Justice and the Ministry of Health to contribute to the e-NatJus tool of the National Council of Justice.

This initiative provides technical notes based on scientific evidence, with the aim of assisting judges in analyzing requests related to medical procedures and the provision of medicines.

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In November of the same year, the three institutions (FMUSP, HCFMUSP and FFM) signed a technical cooperation agreement with the National Supplementary Health Agency (ANS), with the purpose of exchanging information about the health plan sector and supporting the dissemination of scientific knowledge.

On June 26, 2023, FFM appointed five new members of the Advisory Board, in the FMUSP Congregation Room. The new members were selected by the Board of Trustees and completed the team of 30 councilors, consisting of representatives from the academic community and different segments of civil society.

The following councilors took office: Secretary of Health of the Government of the State of São Paulo, Prof. Dr. Eleuses Vieira de Paiva; Retired Minister of the Federal Supreme Court (STF) Dr. Enrique Ricardo Lewandowski; Vice President of the Board of Directors and Vice President of Lopes Consultoria de Imóveis, Eng. Francisco Lopes Neto; Secretary of Government and Institutional Relations of the State of São Paulo, Eng. Gilberto Kassab; and the President of the Crefisa Group and President of Sociedade Esportiva Palmeiras, Dr. Leila Mejdalani Pereira.

The Minister of the Superior Court of Justice (STJ) Prof. Dr. Paulo Dias de Moura Ribeiro was elected as a member of the Advisory Board on November 29 and took office on March 15, 2024.

In recent years, the Foundation has established itself through its participatory management and openness to its stakeholders. It does not operate as an isolated entity, but as an integral part of a broader administrative process, which assists in the main needs of Research, Assistance and Teaching in health. The foundational model today plays a significant role in supporting public management and maintaining institutional excellence.

Certifications

In its 37 years of existence, FFM has gained public recognition for its role as a charitable social assistance organization, through the acquisition and maintenance of various certifications, among which the following stand out:

- Declaration of State and Municipal Public Utility (the Federal Public Utility Declaration was revoked, for all institutions, by Law No. 13,204/2015);
- Certificate of Registration and Certification of Beneficent Social Assistance Entity (CEBAS), granted through Ordinance SAS/MS No. 1205, of 12/13/21, published in the DOU on 12/15/21, valid from 12/15/2021 to 12/31/2025;
- Certificate of Qualification as a Social Health Organization from the State Health Secretariat of the Government of the State of São Paulo - Process SS 001/0001/002.913/2008;
- Certificate No. 018/2008 of Qualification as a Social Organization from the Municipal Management Secretariat of the City of São Paulo;
- Accreditation as a support foundation for HCFMUSP at the Secretariat of Economic Development, Science, Technology and Innovation, Resolution SDE 26, of 10/04/2019;
- Accreditations with PRONON (Ordinances 669/2013 and 668/2016) and PRONAS/PCD (Ordinances 782/2013 and 550/2016);
- Accreditation with CNPq No. 900.0011/1990, revalidated until 03/29/2026;
- Declaration of Recognition of Immunity from Tax on Transmission "Causa Mortis" and Donation of Any Goods or Rights – ITCMD – Process No. IM01310342, valid until 04/12/2025;
- Registration Certificate No. 0308/SP/2000 from the State Social Assistance Council – CONSEAS.

TIMELINE

1988

Signing of the cooperation agreement with the State Health Department (SES), which provides for joint activities such as:

- Billing for medical and hospital services;
- Management of human resources at FMUSP and HCFMUSP;
- Investment in infrastructure works;
- Purchase of medical equipment and hospital supplies;
- Among others.

The financial resources resulting from these actions are directly and fully applied to the care of SUS patients, following the directives of its governing bodies.

**2000
to 2008**

An extensive Restoration and Modernization Project for FMUSP facilities was carried out with the support of FFM. Throughout the process, in addition to the recovery of historical heritage, a human and cultural transformation was also promoted across the entire community of the FMUSP-HC Health Academic System.

The Faculty building was completely renovated, as were other buildings on campus, with the construction of new facilities. Both the coordination of the project and fundraising were shared by FFM and FMUSP.

2008

The Foundation became a Social Organization, thus expanding its participation in the management of health assistance projects. The change allowed for the modernization of control systems and processes, without the need for a significant increase in the direct management team.

In the same year, the Institution signed a Management Contract for the activities and health services of the Cancer Institute of the State of São Paulo (Icesp), a tertiary hospital highly specialized in oncology, which treats SUS patients for complex treatments from across the state.

2010

The contract for the management of the Lucy Montoro Rehabilitation Institute (IRLM) has been signed. Opened in September 2009, the Institute was designed to be a center of excellence in rehabilitation treatment, teaching and research.

2020

During the health emergency imposed by the Covid-19 pandemic, FFM operated in complete integration with the management bodies of FMUSP and HCFMUSP to transform the Central Institute of HCFMUSP (ICHC) into a dedicated treatment center for patients with the coronavirus, among other actions. The institution played an undeniable role in providing legal support for the agreements that were signed with public bodies and private institutions, in making it possible to immediately hire an external workforce to provide the ICHC with health professionals and in acquiring equipment and supplies.

2022

The contract for the management of Perdizes Institute of HCFMUSP (IPer) has been signed. Inaugurated in November 2022, the Institute was designed to be a back-up and reference unit for the treatment of people dependent on alcohol and drugs.

STRATEGIC MANAGEMENT

Continuing the FFM's Strategic Planning, in November 2023, the II Strategic Planning Meeting was held to define the guidelines for the coming years



The Fundação Faculdade de Medicina (FFM) has adopted methodologies to strengthen its management, making it increasingly faster and more precise. In 2023, it launched the Performance Analysis Panel, a strategic management tool that offers a comprehensive overview of process performance, providing crucial information to support institutional decisions.

Powered by data from over 100 databases, the Performance Analysis Panel is equivalent to a table with 1,110 columns and 560,586 rows, totaling 622 million data cells. It presents indicators from 11 Departments, as well as information from Management Contracts and the Transparency Portal. In some areas, data is pulled directly from the source, allowing for real-time updates. Alongside critical performance analysis meetings, FFM departments reviewed and implemented new processes and procedures. This initiative aims to improve operational efficiency, increase the quality of services provided, map and manage operational risks and facilitate strategic decision-making.

All these actions are aligned with FFM's Strategic Planning, which reflects the organization's commitment to the pillars of the Health Academic System FMUSP-HC: Teaching, Research, Assistance and Innovation.

Also in 2023, FFM areas identified opportunities for improvement and established clear expectations. On November 23 and 24, FFM promoted the II Strategic Planning Meeting under the slogan: Transformation for Effectiveness. The debate – with the presence of the Institution's leaders and its main stakeholders – defined the guidelines for the coming years.

In a lecture titled “The Crisis of Health System: Conjunctural or Structural?”, journalist and lawyer Dr. Antônio Britto presented a detailed overview of Brazilian health care system. Then, the Business Management consultant, Prof. Fernando Pavan analyzed the topic “Strategic Governance, Strategic Leadership and Risk Management”. Lastly, Prof. Fábio Patrus delivered a presentation on “Strategic Positioning.”



**ANALYSIS OF
PERFORMANCE**
FFM SEEKING EFFECTIVENESS

THE FFM

TRANSPARENCY

FFM's conduct is guided by the fundamental principles of Public Administration, established in article 37 of the Federal Constitution



Facade of the Polo Pacaembu

FFM is recognized by the São Paulo Foundations Curatorship of the Public Ministry as one of the five largest foundations among the almost 500 existing in the capital.

The Institution is subject to the legal and regulatory structures applicable to nonprofit philanthropic entities, established generally in national legislation and/or by the relevant spheres, mainly the Public Ministry of the State of São Paulo, in addition to specific laws and regulations depending on the type of funds/resources managed. FFM is also regularly evaluated by external audits and inspections, both in general and in specific project funds and programs.

To develop and monitor institutional actions, FFM has a Compliance structure responsible for internal integrity, auditing and prevention mechanisms and procedures.

The Institution maintains the Transparency Portal, which stands out as a model for the State Controller General, in accordance with the requirements imposed on support foundations in the health sector. Starting in 2022, the Institutional Transparency Portal was completely revamped.

The user experience was improved, and the content increased from around 400 files at the time to over 1,800 today. Additionally, search tools were added to facilitate access to data from both human resources and the purchasing and third-party contracting areas.

FFM's conduct is guided by the fundamental principles of Public Administration, established in article 37 of the Federal Constitution: legality, impersonality, morality, publicity and efficiency. It is essential to remember

that part of the resources handled by the Foundation is of public origin, making it imperative to ensure responsible and efficient management.

Since May 2022, the relationship with the oversight bodies has been strengthened, promoting significant closeness. All measures approved by the FFM Board of Trustees, including changes to internal regulations, are promptly communicated to the Public Ministry and the Audit Court, demonstrating the commitment to transparency and accountability in management.

On December 22, 2023, an Auction Notice was published for the sale of its property known as Polo Pacaembu, located near the Pacaembu Stadium. Discussions about the sale of this asset had been carried out over the years, due to high maintenance costs, which totaled BRL 1.2 million during the fiscal year 2022, considering its limited utilization.

After authorization from the Public Ministry of the State of São Paulo, through the Public Prosecutor's Office of the Foundations, the members of the FFM Board of Trustees concluded the negotiations and approved the process in the second half of 2023. The topic was also subject to consideration by the HCFMUSP Deliberative Council and the FMUSP Congregation.



CORPORATE GOVERNANCE

In 2022, the FFM Bylaws were amended, resulting in changes to some of its administration bodies

Aiming to expand integration between different areas and encourage transparency in the conduct of operations, in 2022, the FFM Bylaws were revised, and its administration now consists of the following bodies:

BOARD OF TRUSTEES: It is the highest body of the FFM, which, due to its qualification as a Social Organization, is also referred to as the Board of Administration.

ADVISORY BOARD: This board assists the Board of Trustees as well as the Executive Board in achieving the statutory objectives of FFM.

The boards are chaired by the Director of FMUSP, who also presides over the Deliberative Council of HCFMUSP. The synergistic relationship with the FMUSP Executive Board, its Congregation, and the Deliberative Council, Planning and Control Commission, Clinical Board, and Superintendency of HCFMUSP further enhances and leverages their joint actions.

FISCAL COUNCIL: Created in 2022, its objective is to independently exercise financial and accounting oversight of the management acts of administrators and the activities of FFM, with the purpose of maintaining the proper functioning of the Institution.

EXECUTIVE BOARD: Comprising the Director General and the Deputy Director General this board leads the strategic activities within the management of FFM.

In addition, a Compliance Office has been established, responsible for internal integrity, auditing and prevention mechanisms and procedures; as well as the Information and Assistance Service (SIA) to handle requests from internal and external audiences.

Compliance: Its objective is to develop and monitor institutional activities and is responsible for FFM's internal integrity, auditing and prevention mechanisms and procedures. The implementation of the Compliance and Data Integrity Program began in the second half of 2022, with the approval of the Foundation's Board of Trustees and its management body.

Among the activities developed in 2023, notable highlights include the creation of the Code of Conduct to protect the institution and its employees, and the approval of the Daily Allowances and Tickets Regulations, guiding responsible decision-making

regarding travel requests and scholarships to benefit FFM.

More than 40 complaints received were investigated, covering various Compliance topics, such as violations of the Code of Conduct or non-conformities in general. Complaints are received through the whistleblower channel or can be sent directly to the email compliance@ffm.br.

An Ordinance was established to create the Permanent Disciplinary Investigation Committee, aimed at investigating inappropriate conduct and disciplinary violations.

The Compliance Office participated in the implementation of the Data Integrity Program, ensuring FFM complies with the guidelines set forth by the General Data Protection Law and improving information security through new policies, mechanisms, and data protection structures.

Furthermore, in 2023, the Compliance Office assisted several FFM departments on governance issues, data privacy or doubts about Compliance topics in general, providing opinions and calling meetings to clarify these matters.

Information and Assistance Service (SIA): This is an independent and impartial communication channel linked to Higher Management, responsible for serving and guiding both internal and external audiences regarding access to information. According to the Internal Regulations of FFM, this department has the following responsibilities: to provide the requested information clearly and accurately or indicate where the information can be found; to assist and guide the public regarding access to information; to grant access to information, when available; to receive and respond to demands (suggestions, complaints, compliments and inquiries) coming from both community members and the external public; to record all requests received and responses offered to users.

From March to December 2023, SIA received 255 demands. Among them, 86% refer to Inquiries, 6% were Suggestions and the same percentage applied to Complaints. Compliments were 2% of the messages.

SIA ensures the maintenance and confidentiality of information received by email or registered via FFM website, as well as the respective sharing and

THE FFM

responses, as stipulated by the General Data Protection Law – LGPD (Law 13,709/2018). Investigations of complaints, irregularities, and violations of any kind are the responsibility of the Compliance Office and do not fall under the scope of SIA.

The execution of FFM's corporate activities is directly linked to its four Board of Directors:

CORPORATE MANAGEMENT BOARD: Which includes the Departments of Business and Market Relations; Communication; and Projects, Research and Innovation;

ADMINISTRATIVE BOARD: (currently associated with the CORPORATE MANAGEMENT BOARD), where the Supplies and Operations Departments are located; Information Technology; and People Management;

FINANCIAL BOARD: Where the Financial Departments are located; Controllship; and Billing; and

LEGAL BOARD: Where the Judicial and Administrative Litigation areas are located; Contracts; and Advisory.

Each Department has a leadership with technical and managerial expertise that coordinates its team with clarity, determination, and responsibility.

Established to define the responsibilities and competencies of the institution, the duties of the approximately 400 (as of December 2023) professionals in FFM's direct administration who make up each directorate and their respective departments are as follows:

CORPORATE MANAGEMENT BOARD: Its objectives are to conduct Institutional Strategic Planning, execute the corporate strategy, as well as the general guidelines approved by the Councils and the Executive Board, in addition to establishing management policies and managing programs, projects and strategic goals.

The following Departments are linked to the Corporate Management Board:

Business and Market Relations: Its premise is to establish commercial and relationship connections with contractors/health operators, along with the ongoing challenge of collaborating with the Higher Administration of HCFMUSP and its Institutes to seek alternatives for providing this model of healthcare services.

In 2023, notable achievements were the continued improvement of controls and management tools,

continuous action to grow supplementary healthcare through the expansion of contracted services, negotiation to improve values and changes to remuneration models, management of portfolios of Health Operators and other private sources.

The department had active participation in the continuity fronts in the transition from the Multimed platform (Phillips) to MV Soul; and strategic administrative process mapping project with the consulting firm.

Revenue from contracts with operators and other services had a positive impact, with an increase of BRL 9.5 million compared to 2022. Of this amount, exceptional contracts contributed BRL 9.8 million to consolidated revenue. In this context, 1,869 registrations of orthoses, prostheses and special materials (OPME) were carried out and 3,047 demands from the Institutes that make up the Supplementary Health system in the HCFMUSP Complex were addressed.

Communication: The Communication area seeks to ensure FFM's institutional image, in addition to planning and executing the integrated communication plan, always focusing on the values transparency, integrity and austerity in governance, and with the purpose of strengthening the Institution's image of modernity and effectiveness. It is responsible for institutional, internal and external communication, visual identity management, communication materials in general, internal and external vehicles (Intranet, website, social networks), communication campaigns, organizing events, press relations, defining and implementing communication policy, supporting other areas and the board of directors in communication-related activities. In 2023, the area conducted a broad review of FFM's institutional communication, which resulted in the study and edition of a new visual identity, with a new color palette and typology and renewal of stationery materials. Launched the new FFM Intranet, with information from departments and important communications for employees.

The internal news section is also available, along with a special column called 'Stories that Inspire,' which provides a brief biography of a prominent employee at the Institution. The Department also developed a printed institutional folder of the Health Academic System FMUSP-HC, fully illustrated, with general information on the services offered. The area played an important role in supporting large institutional events, managing photographic and video coverage, as well as editing printed materials, email communications and making gifts for events, among other communication materials.

The Department also contributes to the editing, review and layout of the FFM Work Plan and Activities Report.

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Projects, Research and Innovation: It is responsible for the administrative-financial analysis of all processes involving agreements/contracts signed with public and private, national and international bodies, with the exception of Management Centers (CGs) intended for billing medical care services for SUS patients and of Supplementary Health.

FFM participates in relevant projects, mainly aimed at preventing and treating diseases that affect the health of Brazilian population. In December 2023, 256 projects were active in the FFM, subsidized with public and private, national and international resources, and 656 clinical studies, sponsored by the pharmaceutical industry.

In addition to ensuring correct compliance with legislation and legal instruments linked to projects, the Department of Projects, Research and Innovation (PPI) is also responsible for the financial analysis of other activities carried out by members of the FMUSP-HC System, such as: IRLM Management Contract, EEP and ServCEX courses, donations, sponsorships, provision of various services, rentals, among others, which represented, in 2023, more than 1850 active GCs, which include 256 projects, 656 clinical studies and more than 940 CGs from other activities.

The PPI acts as a “gateway” for projects at the institution, carrying out prior analysis of processes, forwarding them to the respective areas, providing guidance regarding the rules of each granting body and specific legislation and alerting about changes in validity periods and deadlines for making expenses.

Its activities also include the preparation of the FFM Work Plan and Annual Activities Report.

FINANCIAL BOARD: Its objectives are to conduct FFM's financial planning and develop the institutional investment plan, as well as develop projects and new business models to achieve the objectives of cost reduction, increased revenue and sustainable growth, in addition to carrying out effective financial risk management and ensure adequate cash flow for institutional operations.

The following Departments are linked to the Financial Board:

Financial: It seeks to maintain the best results in Caixa's financial management and the constant improvement of the receipt and payment services required by the FMUSP-HC System and other partners, through the most modern, agile and safe financial performance tools available on the market.

Controllership: Responsible for accounting, tax writing, asset control, accountability and management cash flows by CG.

Billing: Responsible for billing medical care services for SUS and Supplementary Health patients, as well as for collection, control and distribution operations of values related to services provided in the various units of the HCFMUSP Complex, through actions implemented in the search for improvement and enhancement of the aforementioned activities.

In the SUS segment, it also works in the qualifications /accreditation processes at the Ministry of Health (MS) and various registrations, as required by DRS-1/SES and MS. Monitors/supports external audits related to SUS processes at the administrative level.

The Medical Audit area of the FFM Billing Department is dedicated to analyzing medical records to assess whether the procedure performed is in accordance with what was billed on account, as well as whether they are in compliance with the current SUS standards (SIH – System of Hospital Information, System Operational Technical Manual – Brasília/ Distrito Federal, 2017). It also acts as an authorizer and promotes the guidance process for the Management Centers of the HCFMUSP Complex, with a view to improving the quality of billing.

ADMINISTRATIVE BOARD: (currently associated with the Corporate Management Board): Its objectives are to implement and supervise the standardization of processes, performance indicators and administrative measures in the various organizational sectors, in addition to developing and disseminating good practices, as well as the set of policies, guidelines, beliefs and institutional values. Currently, the Corporate Management Director also holds the role of Administrative Director.

The following Departments are linked to the Administrative Board:

THE FFM

Supplies and Operations (national market, imports and agreements): Performs actions to acquire materials, inputs, devices and equipment; contracting services, architectural projects, works and renovations; payment for international services, import of goods and products, including customs clearance; with an emphasis on supporting research projects; administrative control of agreements (request to the FFM Legal Department to issue new agreements / negotiations for renewals and amendments), and other actions that may benefit the FMUSP-HC System and other partner Health Units.

In the statistics below, only those contracts whose processes passed through Supply and Operations (HCFMUSP Complex/ FMUSP / Research Projects and Icesp Branches, IRLM and IPer) were considered:

- In the national market, during the year 2023, 5,646 processes were carried out, with an initial value of BRL 529.9 million, final value of BRL 511.4 million, generating savings of BRL 18.4 million (3.48 %), depending on negotiations with national suppliers.
- In Imports, 154 processes were carried out, with an initial value of USD 5.6 million, final value of USD 5.1 million, generating savings of USD 0.5 million (8.83%), due to negotiations with foreign suppliers.

Information Technology: Responsible for identifying and developing specialized systems; integrate and monitor third-party systems; evaluate and update systems, ensuring the alignment of requests with institutional objectives, implement and modernize the necessary infrastructure ensuring information security, in order to meet demands for the advancement of quality, administrative and operational processes within the scope of FFM and with interaction with partners HCFMUSP, FMUSP, Icesp, IRLM and IPer. In 2023, defined the strategic planning of Information Technology (IT), through the Annual Work Plan and Investment Plan, foreseeing the projects that will meet corporate requirements for information and

communication technological updating, in addition to maintaining a close relationship with the IT and HCFMUSP communication, with the purpose of sharing knowledge, maximizing results and reducing costs.

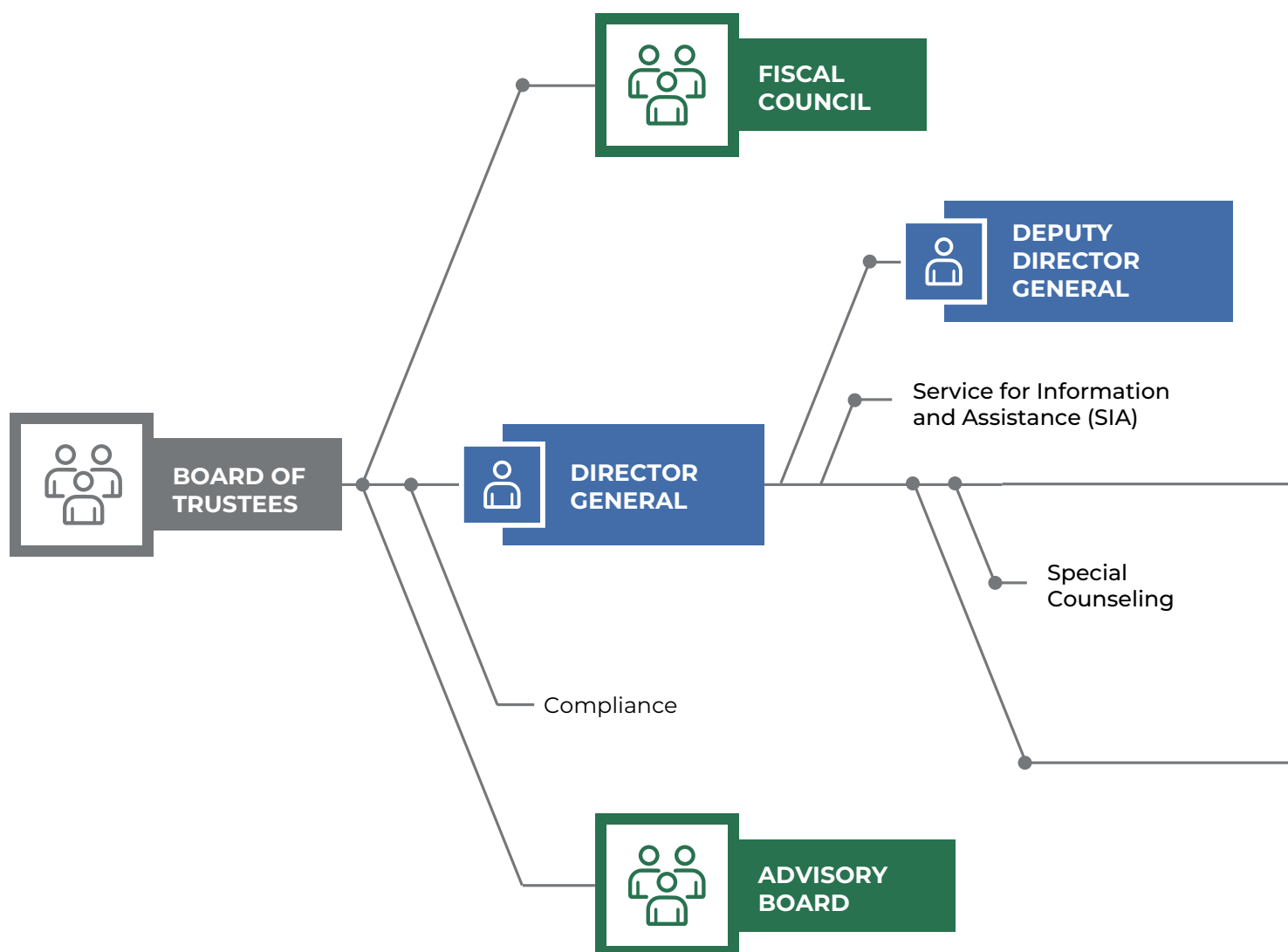
In Dec/2023, the **People Management Department** managed 11,887 employees, including FFM direct administration staff, FFM staff serving the FMUSP-HC System, complementarians and staff allocated to specific projects to assist the population. Of this total, 362 employees are allocated to its direct administration, focused on supporting hundreds of the entity's social programs, as well as assistance activities, the development of comprehensive health care and care for SUS patients, developed by the remaining professionals. The latter are hired on a complementary or comprehensive basis, thus seeking to stimulate the production of work in the teaching, assistance and research areas, through material support and adequate remuneration.

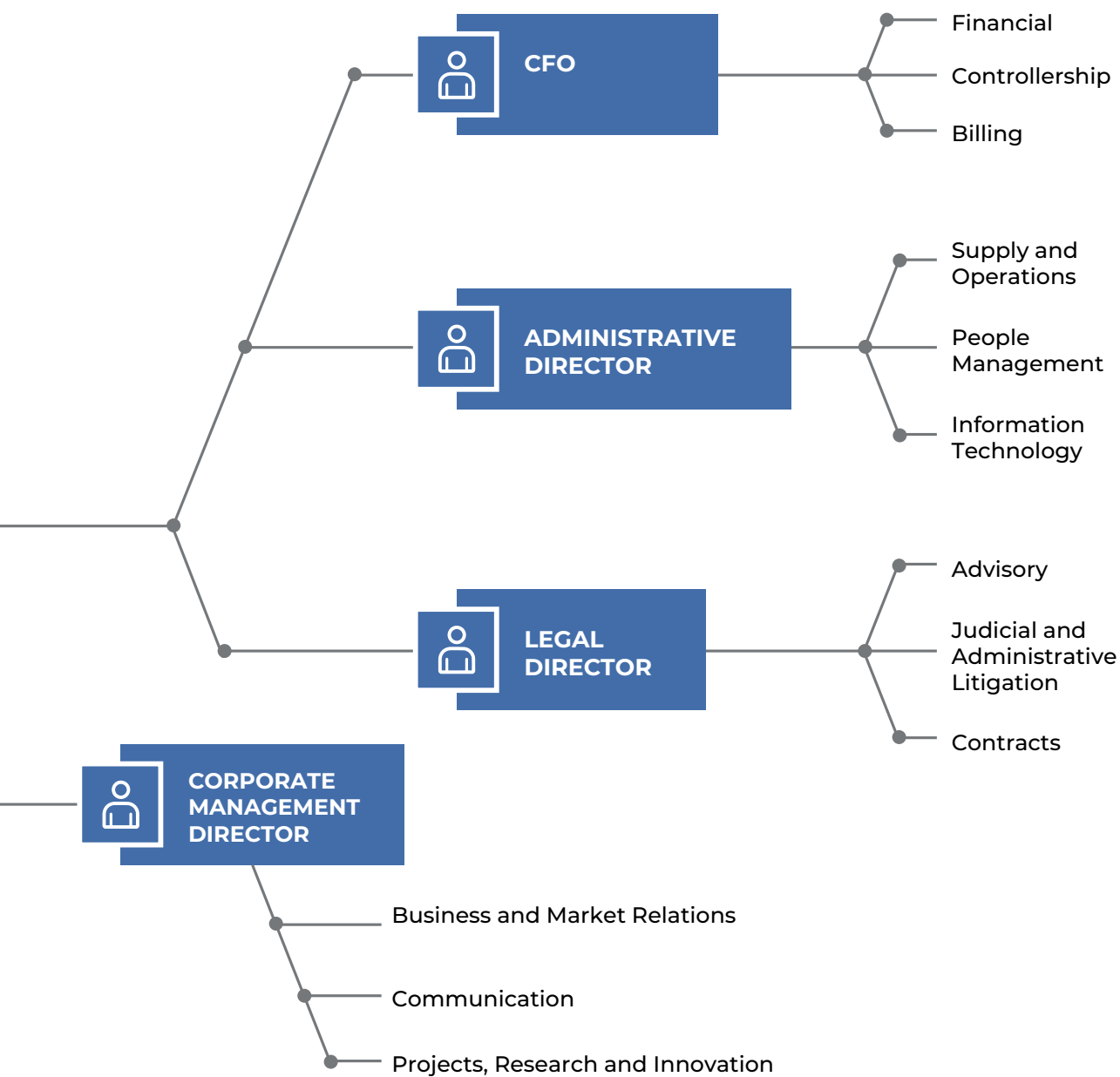
Continued the Personnel Training and Qualification Program, developed recruitment and selection activities for the entire FMUSP-HC System (more than 33 thousand candidates recruited and more than 15 thousand candidates evaluated), administration and payment of social benefits (BRL 91 million) and salaries, involving payroll expenses of around BRL 1 billion, in addition to coordinating the process of hiring, dismissals, licenses, vacations, positions and salaries, basic food basket, meal vouchers, transportation vouchers, among others.

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THE FFM

ORGANIZATION CHART OF THE FUNDAÇÃO FACULDADE DE MEDICINA SINCE 2022





PARTNERS

Federal Public Bodies:

- Attorney General of the National Treasury;
- Ministry of Health – MS;
- Ministry of Science and Technology / CNPq;
- Ministry of Science and Technology / Finep;
- National Health Surveillance Agency - ANVISA;
- Pan American Health Organization – PAHO / World Health Organization (through the Ministry of Health);

State Public Bodies:

- Emílio Ribas Institute of Infectious Diseases;
- Regional Council of Physical Therapy and Occupational Therapy of the 3rd Region – CREFITO;

National Private Institutions:

- Aids Healthcare Foundation do Brasil;
- Braincare Development and Technological Innovation S.A.;
- Brainfarma Chemical and Pharmaceutical Industry S.A.;
- Brazilian Industrial Development Agency – ABDI;
- BRF – Brazil Foods S.A.;
- Butantan Foundation;
- Central Nacional Unimed – Central Cooperative;
- CISCO Hardware and Software Trade and Services of Brazil Ltd.;
- DM Healthcare Health Technology;
- EMS Pharmaceutical S.A.;
- Industrial Bank of Brazil S.A.;
- Latin American Association for Oral Health Promotion and Dental Research;
- Syrian Charitable Association – Heart Hospital;
- UMANE Association;
- Voluntary Association for International Service Brazil – AVSI;

International Institutions:

- Abbott Laboratories;
- AIGORA GMBH;
- Alzheimer's Association;
- AMC Medical Research BV;
- Americas Hepato – Pancreato - Biliary Association Foundation - AHPBA Foundation;
- Baylor College of Medicine;
- Bill and Melinda Gates Foundation;
- bioMérieux S.A.;
- Diomics Corporation;
- Family Health International;
- Fellows of Harvard College;
- Fondation Mérieux;
- Fundación Infant, from Buenos Aires;
- Grand Challenges Canada;
- Grinberg Laboratory – University of California San Francisco;
- Harvard Graduate School of Education;
- Icahn School of Medicine at Mount Sinai;
- Imperial College of Science, Technology and Medicine;
- Inter-American Development Bank – IDB;
- J. David Gladstone Institutes;
- Jhpiego Corporation;
- Joan & Sanford I. Weill Medical College of Cornell University;
- Johns Hopkins International Injury Research Unit;
- Lego Foundation;
- London School of Hygiene & Tropical Medicine;
- Milken Institute;
- Ministry of Higher Teaching, Science, Technology and Innovation of the Republic of Angola;
- NARSAD – The Brain and Behavior Research Fund;
- Natera, Inc.;

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- Petróleo Brasileiro S.A. – Petrobrás (mixed economy company);
- Public Ministry of Labor / Labor Attorney's Office of the Municipality of Patos de Minas (Minas Gerais

State);

- Regional Administration Superintendence of the Ministry of Economy in São Paulo.

- São Paulo Research Foundation – FAPESP;

- São Paulo State Health Department – SES-SP.

- Foundation for Institutional Support for Scientific and Technological Development of the Federal University of São Carlos;
- Itaú Foundation for Education and Culture;
- Maria Cecília Souto Vidigal Foundation;
- Foundation for the Scientific and Technological Development in Health - FIOTEC;
- GE Healthcare do Brasil;
- Itaú Group;
- Huawei Telecommunications Brazil Ltd.;
- Butantan Institute;

- Institute of Teaching and Research – Insper;
- Mahle Institute;
- Todos Pela Saúde Institute;
- Magazine Luiza S.A.;
- Natura Cosméticos S.A.;
- Samsung Electronics of Amazonia Ltd.;
- Sanofi Aventis Farmacêutica Ltda.;
- Siemens Healthcare Diagnostics Ltd.;
- Vale S.A.

- National Institutes of Health – NIH;
- Optina Diagnostics, Inc.;
- Partners Healthcare (founded by Brigham and Women's Hospital and Massachusetts General Hospital);
- Regeneron Pharmaceuticals, Inc.;
- Research Foundation for Mental Hygiene;
- Spice Company Ltda. (Portugal);
- The Board of Trustees of the University of Alabama for the University of Alabama at Birmingham;
- The Chancellor Masters and Scholars of the University of Oxford;
- The George Washington University;
- The Open Society Policy Center – OSPC;
- The Regents of the University of California –Berkeley
- The Regents of the University of California, San

Francisco;

- The Smile Train;
- The Trustees of Columbia University of New York;
- The University of North Caroline at Chapel Hill;
- Thomas Jefferson University;
- United Nations Children's Fund – UNICEF;
- University Health Network;
- University of Georgia;
- Vanderbilt University Medical Center;
- ViiV Healthcare UK Ltd.;
- Vital Strategies, Inc.;
- Wellcome Trust;
- World Health Organization;
- Yale University.

FFM CONSOLIDATED RESULTS

Health promotion, disease prevention, medical and hospital care and highly complex rehabilitation actions for users of the Unified Health System (SUS) are the assistance activities promoted, in joint action, by HCFMUSP and FFM, through the Agreement of Comprehensive Health Care for SUS Patients, celebrated, since 1988, between FFM, HCFMUSP and SES-SP.

In facilities that are increasingly modern and technologically equipped in accordance with the latest international quality guidelines, assistance also counts on highly specialized and trained teams.

Partnerships with public and private institutions,

both national and international, allow FFM to develop various programs in the health sector, benefiting the population.

Due to the credibility that FFM inspires in funding agencies, the volume of funds managed by the institution has increased significantly year after year.

The operational revenues and those derived from projects, contracts, agreements, and others, which have seen substantial growth over the years, have been fully reinvested in favor of the institution's operations and the projects it carries out.

FFM CONSOLIDATED RESULTS			
(In thousands of BRL)	2021	2022	2023
Revenues	1,471,647	1,583,129	1,765,935
SUS medical assistance	309,463	372,277	422,890
Private medical assistance	101,904	117,564	120,643
Grants and contributions	890,143	854,337	931,861
Financial income (net)	33,055	100,013	103,853
Technical services	42,721	59,415	73,771
Others (courses, donations, etc.)	94,361	79,523	112,917
Expenses	1,396,568	1,490,343	1,670,867
Personnel	839,206	886,635	1,011,257
Materials for consumption	247,257	251,925	284,388
Professional services	209,920	252,042	257,540
Others (general, depreciation, etc.)	100,185	99,741	117,682
Result	75,079	92,786	95,068

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In 2023, the financial guideline maintained the search for positive working capital, basing its expenditure or investment decisions on the prior requirement of the existence of financial resources to do so.

Regarding financial investments, policies for allocating investments in safe, liquid and very low-risk banking products were maintained. Nevertheless, financial returns in 2023 were significant, mainly given the boost from high Selic rates, compared to previous years.

When comparing FFM's total revenue, an increase of 12% in relation to 2022 can be observed in 2023.

Revenue arising from medical care provided by the SUS increased by 14% in that period, obtained mainly through revaluations of the fixed values established in the formal agreements that regulate the transfers.

Investments in infrastructure and equipment made by FFM in 2023 totaled approximately BRL 110.6 million.

Around BRL 78.4 million were invested in HCFMUSP, BRL 27.7 million in Icesp, BRL 1.7 million in FMUSP, BRL 336 thousand in IRLM and BRL 430 thousand in other agreements.

The FFM Administration, in turn, made investments of around BRL 1.9 million, with an emphasis on equipment and IT systems.

FFM CONSOLIDATED RESULTS				
(In millions of BRL)	2021	2022	2023	
Total	35.5	74.8	110.6	
Equipment	19.6	35.0	75.3	
Buildings and Facilities	7.5	25.9	25.9	
IT	6.4	9.3	5.6	
Others (furniture, vehicles , etc.)	2.0	4.6	3.8	

2023 FINANCIAL STATEMENT SUMMARY



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2023 FINANCIAL STATEMENT SUMMARY

ORIGIN OF RESOURCES	2023	%	2022	%	2021	%
Total Revenues	1,765.9	100%	1,583.1	100%	1,471.6	100%
Government Resources	1,301.6	73.7%	1,178.5	74.4%	1,166.8	79.3%
Medical Assistance - SUS	422.9	23.9%	372.3	23.5%	309.5	21.0%
Grants	878.7	49.8%	806.2	50.9%	857.3	58.3%
Medical Assistance - Agreements and Private	120.6	6.8%	117.6	7.4%	101.9	6.9%
Donations	43.7	2.5%	27.3	1.7%	45.4	3.1%
Private cooperation - national and international	53.2	3.0%	48.1	3.0%	32.8	2.2%
Provision of services and/or sale of products	112.1	6.3%	95.4	6.0%	77.0	5.2%
Other incomes	134.7	7.7%	116.2	7.3%	47.7	3.3%

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APPLICATIONS OF RESOURCES	2023	%	2022	%	2021	%
Total Expenses	1,781.5	100%	1,565.1	100%	1,432.1	100%
Personnel	1,011.3	56.8%	886.6	56.6%	839.2	58.6%
Operational expenses	659.6	37.0%	603.7	38.6%	557.4	38.9%
Acquisition of goods	110.6	6.2%	74.8	4.8%	35.5	2.5%

COMPREHENSIVE HEALTH CARE ACTIONS

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COMPREHENSIVE HEALTH CARE ACTIONS

ACADEMIC HEALTH SYSTEM

The FMUSP-HC System is the largest university health center in Latin America

Responsible for providing complete assistance, at all levels of health care, the Health Academic System at the Medical School of the University of São Paulo / Hospital das Clínicas (FMUSP-HC System) is currently the largest university health center in the region of Latin America. In addition to working in Teaching, Research and Assistance, it also promotes and develops cultural and extension activities with an emphasis on multidisciplinary and multi-institutionality.

While academic activities are developed at FMUSP, Hospital das Clínicas focuses on highly complex health care (tertiary/quaternary care), being a reference in assistance aimed at serious cases. For medium complexity care (secondary care), the System relies on the USP University Hospital (HU). Primary care is offered by the Butantã School Health Center and Basic Health Units. The System is completed by: the Extension Service for the Care of HIV/AIDS Patients; the Integrated Center for Translational Medicine; the Institute of Tropical Medicine; the Cancer Institute of the State of São Paulo (Icesp); the Lucy Montoro Rehabilitation Institute (IRLM); the Capital Death Verification Service (SVOC) and two support institutions, the Fundação Faculdade de Medicina (FFM) and the Zerbini Foundation.

Since 2011, the FMUSP-HC System has aligned its research and innovation actions with a strategic plan prepared and continually updated. This plan integrates the research groups at FMUSP and the Medical Research Laboratories (LIMs) with the different institutes at HCFMUSP.

According to the Ministry of Science, Technology and Innovation, scientific production developed in the LIMs of the FMUSP-HC System represents 4.1% of Brazilian publications and 2.2% in Latin America, in the areas of health and biomedical sciences, respectively.

It is worth mentioning that members of USP were included in the world ranking of top scientists,

according to a study published in 2020 in the scientific journal Public Library of Science (PLOS) Biology. Of this group, 25 are from the FMUSP-HC System. In 2021, the same magazine published a list of the 100,000 most influential researchers in the world. It included 30 FMUSP professors.

As a result of its constant investment in infrastructure and qualification of researchers, the FMUSP-HC System can respond quickly and with quality to the challenges of the pandemic generated by the SARS-CoV-2 virus.

The FMUSP-HC System produced research of great impact, such as the first sequencing of the coronavirus in Brazil, autopsy findings, which highlighted the nature of Covid-19 as a thrombotic disease, in addition to data on the manifestation of the virus in children.

Humanization is a transversal field of knowledge in the health area that focuses efforts on the ethical and empathetic quality of interpersonal relationships in care, management and teaching practices.

The highest bodies of the Health Academic System FMUSP-HC are the FMUSP Congregation and the HCFMUSP Deliberative Council, both chaired by the Director of FMUSP. The FMUSP Congregation has a consultative and deliberative role and is advised by the Undergraduate, Postgraduate, Research, Culture and Extension, Medical Residency and International Relations Committees. The HCFMUSP Deliberative Council defines the guidelines for tertiary-level medical and hospital care and is made up of ten representatives of FMUSP professors elected by their peers.

In addition to the Fundação Faculdade de Medicina (FFM), the FMUSP-HC Academic System is made up of the following institutions:

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Medical School of the University of São Paulo (FMUSP) (page 44): It was founded in 1912, its headquarters were built in 1931 and, since 1934, it has been part of the University of São Paulo. The School offers five undergraduate courses (Medicine, Physiotherapy, Speech Therapy, Occupational Therapy and Medical Physics) and is recognized for its pioneering spirit and excellence in Teaching and Research. In 2023, FMUSP completed 111 years of existence as one of the largest medical-scientific research centers in the country.

Hospital das Clínicas of the Medical School of the University of São Paulo (HCFMUSP) (page 48): Created in 1944, it has nine specialized institutes (IHC, IPq, IOT, IMRea, ICr, InCor, InRad, Icesp and IPer). It also has the LIMs, which house more than 240 research groups; the School of Continuing Education (EEP), which promotes training for health professionals, health education professionals and the general community; the Laboratory for Teaching, Research, and Innovation in Surgery (LEPIC), which develops programs in surgical areas in the fields of laparoscopy, video surgery, video endoscopy and robotic surgery; and the Rebouças Convention Center (CCR), with capacity to receive up to 2,300 participants in congresses, conventions, fairs and exhibitions, corporate events, among others.

Zerbini Foundation (FZ): Private law foundation that works to promote the agility and administrative efficiency of the Heart Institute (InCor), as well as to raise additional resources.

Lucy Montoro Rehabilitation Institute (IRLM) (page 78): It offers more complex care for people with disabling physical disabilities, through comprehensive and integrated rehabilitation treatment. It has a technological structure, in addition to highly qualified personnel in diagnostic and therapeutic resources.

USP University Hospital (HU-USP): Located on the Cidade Universitária campus, it was opened in 1981 and is a community teaching hospital focused on Teaching, Research and the Extension of services to society.

Samuel Barnsley Pessoa School Health Center (CSE Butantã) (page 72): FMUSP teaching-assistance unit focused on teaching and research in the area of Primary Care and serving the population of Butantã, in the western region of the city of São Paulo.

Institute of Tropical Medicine (IMT): Designed for research, teaching and assistance in the area of tropical diseases, the Institute is the only one of its kind in the State of São Paulo.

Capital Death Verification Service (SVOC): The body is linked to FMUSP and is responsible for clarifying the cause mortis in cases of death due to an ill-defined disease or without medical assistance, occurring in the city of São Paulo.

COMPREHENSIVE HEALTH CARE ACTIONS

USP MEDICAL SCHOOL

With 111 years of existence, FMUSP is recognized for its pioneering spirit and excellence in teaching and research



The Medical School of the University of São Paulo (FMUSP) is recognized for its pioneering spirit and excellence in the areas of Teaching, Research and University Extension. The Institution invests in modernization, technological innovation and educational platform, in addition to establishing partnerships with the private sector and expanding the internationalization process to be a reference educational center in the world.

Opened in 1931, the campus currently has around 44,000 m² of built area and houses facilities such as the Oscar Freire Institute (IOF), the Technical Division of Support for Teaching, Research and Innovation (DTAPEPI), Institute of Tropical Medicine (IMT), Medical Research Laboratories (LIMs), Library and Administration Building. In addition to this space, there is an area of 6,000 m² located in Cidade Universitária, where part of the courses are taught.

Excellence in education is one of the pillars of FMUSP. Through innovative pedagogical projects and a curriculum that envisions future challenges, students are provided with solid training in the area of health sciences. Today, FMUSP has five undergraduate courses: Medicine, Physiotherapy, Speech Therapy,

Occupational Therapy and Medical Physics.

FMUSP offers *Stricto Sensu* Postgraduate Programs (Masters/Doctorate) in various areas of knowledge for candidates graduating from higher education in courses recognized by the Ministry of Education. With the incorporation of four new options, the Institution now has 29 Doctorate, Academic Master's or Professional Master's programs. Three Professional Master's courses began their activities in June 2019, and an Academic Master's and Doctorate courses were incorporated by the transfer of IMT activities in February 2020.

Medical Residency is a type of postgraduate education in the form of a specialization course and characterized by in-service training. FMUSP has 53 training programs in medical areas and 937 vacancies accredited by the National Medical Residency Commission.

FMUSP is in the select group of 25 leading institutions in the health sector and is part of the M8 Alliance, Think Tank, which organizes the World Health Summit annually.



FMUSP main entrance

The M8 Alliance brings together academic health institutions and university hospitals from 18 countries and promotes the transformation of current medical approaches to treating patients through preventive actions. By encouraging research in priority areas, the M8 Alliance seeks effective solutions that have a positive impact on the population's living conditions. To this end, it considers the biggest global health challenges: the impacts of demographic change, growing urbanization and climate change.

To position FMUSP as an educational center of global reference, the International Relations Committee (CRInt), through its International Office, has been establishing strategic partnerships and strengthening existing relationships with institutions from the most diverse regions of the world.

Throughout the first semester of 2023, the School's mobility program for foreign graduates received 54 students from 29 institutions spread across 14 nations, including the Netherlands, Colombia, Portugal, Germany, USA, Peru, United Kingdom, among others.

FMUSP welcomes both students to take residency subjects and to carry out elective internships in the most diverse departments of the School.

Currently, among the partner Universities of

the Medical School, the ones that have sent the most students are Pennsylvania State University, Universidad Peruana Cayetano Heredia, Lisbon New University, Rijksuniversiteit Groningen and Pontificia Universidad Javeriana.

In 2023, the scientific magazine *Asian Journal of Andrology* chose the study *"Viral infections and implications for male reproductive health"*, authored by professors and scientists from FMUSP, as the best paper of the year 2022.

The study presents an overview of the evidence regarding the presence and adverse effects of relevant viruses in the human reproductive tract (mumps virus, immunodeficiency virus, herpes virus, human papilloma virus, hepatitis B and C virus, Ebola, Zika, influenza, and coronavirus), their routes of infection, target organs and cells, prevalence and pattern of dissemination of viruses in semen, as well as diagnostic, testing and treatment strategies. All of these viruses are the subject of study by the Urology group and the Department of Pathology at FMUSP.

On March 20, 2023, FMUSP held the *"Chat GPT Symposium on Health, Impacts on Medical Education, Research and Patient Care"*.

COMPREHENSIVE HEALTH CARE ACTIONS

The FMUSP Theater hosted the *II Black Population Health Research Symposium*, on March 24 and 25, 2023. The event was organized by the Black Population Health Research Group (Race.ID), founded in 2021 by students from Medicine and Physiotherapy courses and doctors from the HCFMUSP Complex, with support from the Department of Preventive Medicine at FMUSP.

The date was chosen due to the International Day for the Elimination of Racial Discrimination, established on March 21. The theme chosen for the Symposium was “*Anti-Racist Training for Health Professionals*” and the honoree was nurse Eloá Pimenta, who dedicates a large part of her life to defending the SUS, in the search for equity in Health for the black population and, currently, is part of the National Articulation of Black Nursing (ANEN).

The Telemedicine discipline of the Department of Pathology at FMUSP is offered to *Stricto Sensu* Postgraduate students, in a hybrid modality, using Digital Active Methodology. The current edition had classes starting on April 14, 2023, with the inclusion of the Integrated Telehealth theme in its curriculum.

This is the first Telemedicine and Integrated Telehealth course in Brazil, under the Telehealth Law 14,510/22, which authorizes and conceptualizes the practice of telehealth in the country.

On April 17, 2023, the Young Doctor Program was launched simultaneously in the cities of Santos (SP) and Balneário Camboriú (SC). Created by the Telemedicine Discipline of the Department of Pathology at FMUSP, the project aims to train young people from public education to become knowledge multipliers in prevention and health promotion in schools and their respective communities.

Furthermore, it seeks to stimulate curiosity and awaken the principles of citizenship, as well as awareness that science is the best way to understand the world.

The project “*Medicine and Art: the diagnoses that works of art reveal*” involves the production and dissemination of videos of up to five minutes, with a didactic analysis of works of art that address medical topics from different specialties. The creation of the project and the narration of the videos are carried out by the Department of Preventive Medicine at FMUSP. The first videos covered paintings by Frida Kahlo, Luke Fildes, Gerard Dou, Pablo Picasso, Pieter Bruegel and Vincent van Gogh.

The project, a pioneer in the country, has the potential to integrate knowledge of the arts into the academic curriculum, offer the FMUSP community teaching material that addresses the interaction with medicine and health care and provide the population with an uncomplicated view of the works of art that depict medical themes.

In 2023, *KIDS SAVE LIVES BRASIL (KSLB)* reached the impressive milestone of 10 thousand children, adolescents and adults trained in basic life support, with effective skills in cardiopulmonary resuscitation of adult victims. This achievement represents a significant advance in the dissemination of knowledge in first aid in the country.

The KSLB is made up of professors, students, researchers and employees from FMUSP, FFM and other volunteers and instructors from partner institutions. Coordinates the Department of Physiotherapy, Speech Therapy and Occupational Therapy and the Department of Surgery.

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In 2023, FMUSP launched a refresher program, within the HCFMUSP Complex, for undergraduate Medicine students from the 4th to the 6th year from all over Brazil. In the “HCFMUSP Experience in Practice” the student has the opportunity to follow the routine of the discipline they wish, in addition to carrying out some medical practices under supervision. The program allows participants to choose up to three different subjects to follow. There are more than 160 hours of practical activities and an opportunity to learn about the medical routine of the largest hospital in Latin America, together with renowned professionals in their areas of expertise.

The extension project “FMUSP Surgical Expedition”, for the first time with the support of the Brazilian AirForce (FAB), arrived in Barra do Garças (Mato Grosso State). The trip began on June 30 and ended on July 10, 2023, with the participation of more than 70 volunteers, including professors, doctors and residents from FMUSP, and more than 1.7 tons of hospital equipment, materials and medications, aiming to carry out 300 clinical screening consultations, 117 surgeries, 270 gynecological consultations, 1005 ultrasound exams and others.

The partnership with FAB emerged with the support of the FMUSP Board of Directors, through the FFM Presidency. The objective of the initiative is to provide social, academic and professional training to FMUSP students, through actions aimed at serving vulnerable populations and improving health conditions in remote locations in Brazil. The project is carried out once a year and seeks to meet the demands of a population with little infrastructure and an overload of the health system, mainly in low and medium complexity surgical practices. A partnership is signed with the local Public Authority, and, after the activities, a complete report is sent to the authorities.

In July, the seventh edition of Winter Schools at FMUSP officially began. The event promotes a two-week program that brings together 62 students from 14 countries, providing them with an enriching experience of academic activities related to Medicine. The initiative seeks to strengthen ties between FMUSP and prestigious international institutions, providing a valuable opportunity for people from all over the world to share interests and knowledge in the most diverse medical areas. The event reaffirms FMUSP's commitment to promoting academic exchange and enriching the training of health students on a global scale.

FMUSP's Urology Discipline remains at the forefront of innovation with its Medical Residency Program, becoming the first in Brazil to offer training in robotic surgery. In 2023, six residents of this Program, launched in 2022, were recognized and certified in robotic surgery by the Brazilian Society of Urology. The program includes theoretical and practical training with access to robotic technology and a simulator. Training takes place at ICHC and Icesp.

The Ministry of Science, Technology and Innovation (MCTI) and CNPq released, on December 5, the result of the public call for support for the creation of a Brazilian Network of RD&I in Down Syndrome, for research projects that aim to contribute significantly for the country's scientific and technological development and innovation, based on interinstitutional cooperation and national coverage.

The proposal presented by LIM 27 was approved, allowing the Brazilian Down Syndrome Research Network to be based at FMUSP and aligned with public policies and priority themes of the MCTI, being composed of a Brazilian Cohort of People with Down Syndrome, a Biobank, a Down Syndrome Observatory and a large-scale database.

In 2023, FFM continued to contribute effectively to streamlining bureaucratic processes and, mainly, to the implementation of FMUSP projects and programs which, in state administration, are more time-consuming.

COMPREHENSIVE HEALTH CARE ACTIONS

THE FMUSP HOSPITAL DAS CLÍNICAS

HCFMUSP was considered the best Brazilian public hospital in a survey carried out by the North American magazine Newsweek



On April 19, 2023, HCFMUSP completed 79 years of its foundation, consolidated as a reference for the production and dissemination of technical-scientific knowledge, excellence and innovation in teaching and assistance in public health.

Ranked among the best in Latin America in several rankings, HCFMUSP was considered the best Brazilian public hospital in a survey carried out by the North American magazine Newsweek.

Upon celebrating its 79th anniversary, HCFMUSP consolidates the area of innovation and further boosts the area of digital health, always in favor of ethics, humanism and social responsibility. Today, all the technology necessary to carry out teleconsultations has been implemented, in addition to offering courses and informational resources that make life easier for the patient and their companions during treatment.

This is the case of the HC Patient Portal application, redesigned to make the patient experience even more agile and effective. The menu is practical and facilitates access to appointments, prescriptions, imaging exams and reports.

Between 2020 and 2021, FMUSP Hospital das Clínicas stood out in the biggest challenge in its history, contributing to saving thousands of lives during the Covid-19 pandemic.

At the end of 2022, with the inauguration of the Perdizes Institute (IPer), the Institution now has another Institute dedicated to Health Care, Education and Research. IPer meets two major demands: to serve as a backup for beds, especially as a medical clinic, and to have a nationwide center of excellence for treatment, prevention, education and research in the field of alcohol and drugs. In addition, it allocates an exclusive area to develop research and innovation in health.

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Aerial view of the HCFMUSP Complex

This structure will be expanded with the future Dr. Ovídio Pires de Campos Institute, which will increase the capacity for ambulatory appointments in ophthalmology, otorhinolaryngology, oral and maxillofacial surgery, head and neck and craniofacial plastic surgery by 47%. The creation of the Clinical Research Center is also planned, with an area of 9 thousand m² dedicated to therapeutic and multidisciplinary research.

In parallel, the HCFMUSP LEPIC begins its activities with the aim of developing teaching, research and innovation programs in the surgical areas of HCFMUSP in the fields of laparoscopy, video surgery, video endoscopy and robotic surgery.

At the beginning of 2023, HCFMUSP and Onet put into operation the T7 AMR robotic floor washer, which increases the quality of hospital cleaning services. The washer was implemented at ICHC and PAMB, where its full capacity will be measured. On the occasion, a sweeper was also implemented for the Complex's internal streets, which will be used at times of lower

flow of people and vehicles.

HCFMUSP is the first public hospital in the country to implement this equipment, with cutting-edge technology, which guarantees greater service efficiency and expands health safety standards. The T7 AMR operates using artificial intelligence (AI) and was designed to provide quality and productivity gains. The equipment has a learning and repetition model that guarantees a high level of hospital cleaning, in addition to generating water savings and prioritizing the safety of people and environments.

In June, the study *"Venous thromboembolism risk score during hospitalization in pregnancy: results of 10,694 prospective evaluations in a clinical trial"*, authored by the HCFMUSP Obstetric Clinic, was awarded by the International Society for Thrombosis and Haemostasis, during congress held in Montreal, Canada.

COMPREHENSIVE HEALTH CARE ACTIONS

Venous thromboembolism (VTE) comprises deep vein thrombosis and pulmonary embolism. The incidence of VTE is 1 per 1000 in the pregnant population. Thrombosis is a blockage of the veins that occurs most commonly in the left leg and, in addition to the damage to the limb itself, this thrombus can migrate to the lung and lead to pulmonary embolism, which is lethal in up to 30% of the time. The method eliminated maternal mortality due to venous thromboembolism (VTE) during hospitalization and within three months after birth, an unprecedented feat in a public hospital in the country.

A milestone in the endocrinology area was achieved with the recent study conducted by the HCFMUSP Endocrinology Service, in collaboration with international groups. The research, titled *"Rare Variants in the MECP2 Gene in Girls with Central Precocious Puberty: A Translational Cohort Study"*, was published in the scientific journal *The Lancet Diabetes & Endocrinology*, in June 2023.

The objective of the study was to investigate the association of MECP2 variants with observable traits of idiopathic central precocious puberty, a condition characterized by the occurrence of signs of sexual maturation at an early chronological age. Throughout the project, 404 participants, 383 girls and 21 boys, were recruited from seven tertiary centers in five countries: Brazil, Spain, France, United States and United Kingdom.

The results showed that, in a group of seven girls with central precocious puberty, some of whom had neurodevelopmental abnormalities, four rare variants were found in just one of the copies of the MECP2 gene, suggesting a possible loss of function of this gene. These findings indicate an influence on the timing of puberty in the human brain.

The research promises to open new perspectives and boost the development of more effective interventions for the treatment of central precocious puberty.

In mid-2023, under the title *"Intensive Care Tele-Unit Program in Brazil: Implementation"*, Telemedicine Reports - published in English in the United States - published an article about the Tele-ICU created and developed by HCFMUSP during the Covid-19 pandemic.

The focus was to discuss clinical cases and promote training of health professionals in public hospitals in the State of São Paulo that welcomed patients with Covid-19. The project was extended to five other hospital units in different macro-regions of Brazil. Soon, the project began to serve more than 60 hospitals, allowing 11,500 teleinterconsultations and the training of 14,800 health professionals. This reduced the mortality rate and length of stay for patients.

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The report from Folha de S. Paulo newspaper, published in the September 14 edition, showed HCFMUSP in 19th place among the best hospitals in neurology according to the Newsweek magazine ranking. Furthermore, it appears on the list of specialties in orthopedics (71st place), neurosurgery (90th), gastroenterology (114th), cardiac surgery (149th), oncology (149th) and cardiology (182nd).

The award is based on recommendations made by healthcare professionals, patient surveys and performance indicators distributed across four continents.

On November 14, HCFMUSP officially inaugurated its new Operational Control Center (CCO). Screens and computers with cutting-edge technology collect essential data for hospital maintenance and hygiene management.

The CCO receives, distributes and monitors, in real time, the release of beds, surgical centers and other areas. Hospital hygiene teams record, on a mobile device, the execution of activities in each environment. In relation to the operation of hospital infrastructure, equipment linked to HCFMUSP's daily mission is monitored remotely through the continuous collection of parameters.

On December 12 and 13, 2023, Centro de Convenções Rebouças (CCR) was the setting for the *11th Glow of the Eyes Workshop*, a Corporate Strategic Planning event promoted by HCFMUSP Higher Management, which had as its central theme "WHAT INSPIRES YOU".

In 2023, HCFMUSP continued to count on the support of FFM in the various actions to develop comprehensive health care in its various Institutes and Units.

COMPREHENSIVE HEALTH CARE ACTIONS

COMPREHENSIVE HEALTH CARE AGREEMENT FOR SUS PATIENTS

Access and service to the SUS throughout HCFMUSP (except InCor) are ensured by FFM, enabling the HC to reach SUS service levels at an average percentage of 90%

Always committed to its mission of supporting the FMUSP-HC System in favor of excellent health care for the population, FFM has been a participant, since 1988, in the Agreement signed with HCFMUSP and São Paulo State Health Department (SES-SP).

Aimed at free care for SUS patients, the agreement provides for the joint implementation of a series of activities such as: billing for medical and hospital care services; HCFMUSP human resources management; investment in infrastructure works; purchase of medical equipment and hospital supplies; between others. The Agreement also guarantees the performance of special procedures, such as transplants of different organs, various implants and other highly complex procedures.

Access and service to the SUS throughout HCFMUSP (except InCor) are ensured by FFM, through the allocation of the System's human and financial resources to the Hospital itself, thus enabling HCFMUSP to reach levels of SUS service (ambulatory and hospitalizations) at an average percentage of 90%.

Assistance is provided through health promotion, disease prevention and treatment activities, with care in ambulatory, emergency and urgency areas, diagnostic support services, hospital, clinical and surgical admissions, pharmaceutical assistance and physical rehabilitation.

HCFMUSP has beds installed for medium and high complexity hospitalization, 457 in the Intensive Care Units and 159 in day hospitals.

The agreement celebrated within the scope of the SUS, between SES, HCFMUSP and FFM, have their own characteristics, with a preponderant difference due to the certification of HCFMUSP as a Teaching Hospital, where all production, actions and health services, in within the scope of the SUS, they must constitute a field of practice for Teaching, Research and Technological Incorporation.

The rules and policies for applying the resources of this agreement are established, dynamically, by the various governing bodies of HCFMUSP (Deliberative Council, Boards of Directors, Executive Boards and Superintendency) and FFM (Board of Trustees), which continuously monitor the results achieved, mainly with regard to the cost of medical and hospital care.

The actions of HCFMUSP and FFM are shared, in the management and care of SUS patients, and result from express authorization from the State Executive Branch, duly formalized in appropriate legal instruments.

To achieve its objectives, FFM currently employs 11,887 employees (Dec/2023), of which more than 90% are directly dedicated to assisting/serving SUS patients.

The employment agreements signed by FFM are completely different from the agreements of public servants at HCFMUSP, with no incompatibility or subjection.

The purpose of hiring professionals by FFM is to meet the demand of patients in the HCFMUSP SUS and the difficulties inherent to the Public Authorities in creating positions. The financial resources used to pay salaries come exclusively from the consideration for its activities in the health sector.

In addition, it purchases in its name medicines, supplies, consumables, equipment, furniture, utensils and others, intended entirely for the assistance and care of SUS patients. It is worth noting that the FFM does not lend itself to managing HCFMUSP's budgetary resources, nor does it receive any resources from that state authority.

As a social assistance charity, FFM has gained public recognition for its activities, having obtained and periodically renewed several certifications, including the Certificate of Registration and Certificate of Social Assistance Charitable Entity (CEBAS).

CEBAS is granted by the Ministry of Health to non-profit legal entities governed by private law, recognized as Social Assistance Charitable Entities for the provision of services in the Health Area. Obtaining CEBAS guarantees exemption from social contributions and the signing of agreements with the Public Authorities, among others.

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FFM has had this title since 1989 and, thanks to it, has access to tax immunity from taxes and social contributions, providing the FMUSP-HC System with tax savings of around BRL 311 million annually, resources that are fully allocated to the FMUSP-HC System in the form of funding, hiring of human resources, acquisition of medical and hospital equipment, modernization of the technology park, maintenance, renovations, expansions and other initiatives that, in the end, have

the patient of the Unified Health System - SUS as the beneficiary.

A summary of the number of services provided, in the last two years, by HCFMUSP and FFM, in joint action (except InCor, IMRea [page 62] and Icesp [page 73]), is shown below.

2023							
CARE INDICATORS OF HCFMUSP INSTITUTES (EXCEPT INCOR, IMRea AND ICESP)							
Institute / Hospitals	Hospitalizations	Surgeries	Urgent and emergency care	Apointments	Imaging Exams	Laboratory Exams	Total per unit
ICHC	24,992	17,869	135,423	646,024	12,361	7,434,551	8,271,220
IPq	959	13	-	60,538	3,433	-	64,943
IOT	4,133	3,973	14,614	64,033	58,559	145,233	290,545
ICr	5,924	1,970	35,675	65,107	33,380	824,487	966,543
InRad	-	-	-	2,992	239,573	-	242,565
HAS*	36	-	-	5	148	42	231
Total	36,044	23,825	185,712	838,699	347,454	8,404,313	9,836,047

Source: PU (Single Spreadsheet) - Strategy and Operations Center

*Activities until July/23

2022							
CARE INDICATORS OF INSTITUTES AND AUXILIARY HOSPITALS OF HCFMUSP (EXCEPT INCOR, IMRea AND ICESP)							
Institute / Hospitals	Hospitalizations	Surgeries	Urgent and emergency care	Apointments	Imaging Exams	Laboratory Exams	Total per unit
ICHC	21,325	16,296	39,225	550,160	7,683	6,293,667	6,928,356
IPq	926	33	-	65,103	2,753	-	68,815
IOT	3,903	3,652	15,293	57,662	44,638	134,074	259,222
ICr	5,658	1,937	14,817	61,849	33,014	791,219	908,494
InRad	-	-	-	3,374	200,816	-	204,190
HAS	103	-	-	19	1,283	82	1,487
Total	31,915	21,918	69,335	738,167	290,187	7,219,042	8,370,564

COMPREHENSIVE HEALTH CARE ACTIONS

SPECIAL PROCEDURES

FFM and HCFMUSP jointly carry out transplants and implants, highly complex procedures and pharmaceutical assistance for SUS patients

Transplants and Implants

In line with the objectives of the Comprehensive Health Care Agreement for SUS Patients, signed between FFM and HCFMUSP (Covenants) and SES-SP; HCFMUSP and FFM jointly carry out transplant and implant procedures that are of great importance to the population

and considered, by the Ministry of Health, as strategic for SUS care.

The number of transplant and implant procedures performed free of charge in the last two years was as follows:

STRATEGIC PROCEDURES - TRANSPLANTS AND IMPLANTS		
Description	Amount	
	2022	2023
Cochlear implant	37	77
Partial hepatectomy for transplant (living donor)	57	56
Unilateral nephroureterectomy for transplant	18	27
Allogeneic bone marrow hematopoietic stem cell transplantation - related	27	28
Allogeneic bone marrow hematopoietic stem cell transplantation - unrelated	16	15
Allogeneic umbilical cord blood hematopoietic stem cell transplantation - unrelated	-	-
Allogeneic peripheral blood hematopoietic stem cell transplantation - related	11	9
Allogeneic peripheral blood hematopoietic stem cell transplantation - unrelated	3	2
Autogenic bone marrow hematopoietic stem cell transplantation	14	6
Autogenic peripheral blood hematopoietic stem cell transplantation	55	67
Corneal transplant	103	142
Corneal transplant (in combined surgeries)	-	-
Corneal transplantation (in reoperations)	1	-
Sclera transplant	-	-
Liver transplant (organ from deceased donor)	177	179
Liver transplant (living donor organ)	62	56
Pancreas transplant	-	3
Kidney transplant (organ from deceased donor)	143	132
Kidney transplant (living donor organ)	23	38
Simultaneous pancreas and kidney transplant	1	3
Total	748	840

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High Complexity Procedures

In line with the objectives of the Comprehensive Health Care Agreement for SUS Patients, signed between FFM and HCFMUSP (Covenants) and SES-SP; HCFMUSP and FFM carry out, in a joint,

High Complexity Ambulatory Procedures, whose production, over the last two years, is shown in the following table:

AMBULATORY STATEMENT AUTHORIZATION OF HIGH COMPLEXITY PROCEDURES - APAC		
Description	Amount	
	2022	2023
Diagnostics in a Clinical Laboratory	31,680	32,364
Diagnosis by Radiology	88	81
Diagnosis by Tomography	1,974	1,939
Ultrasound	21	27
Diagnostic Methods in Specialties	24,521	27,439
Appointments/Services/Follow-ups	6,532	6,405
Oncology Treatment	5,200	5,305
Nephrology Treatment	20,818	20,019
Dental Treatments	30	34
Specialized Therapies	680	1,468
Upper Airway, Head/Neck Surgery	0	0
Vision Apparatus Surgery	3,458	3,659
Genitourinary System Surgery	98	87
Reconstructive Surgery	228	369
Nephrology Surgeries	117	73
Minor Surgery and Surgery of the Skin, Subcutaneous Tissue and Mucosa	0	6
Collection and Examinations for Organ Donation Purposes	18,217	19,185
Post-transplant follow-up and complications	13,844	16,068
OPMs Not Related to Surgical Procedure	5,098	5,539
OPMs Related to Surgical Procedure	687	678
Tissue Processing for Transplantation	196	212
Clinical Treatments (other specialties)	3,684	4,073
Total	137,171	145,030

COMPREHENSIVE HEALTH CARE ACTIONS

Comprehensive Pharmaceutical Care

In line with the objectives of the Comprehensive Health Care Agreement for SUS Patients, signed between FFM, HCFMUSP and SES-SP, pharmaceutical assistance is decisive for the resolution of health care and services.

Guaranteeing the supply of medicines from the Specialized Pharmaceutical Assistance Component (CEAF) is essential for maintaining patient treatment and complementing complex and high-cost medical and hospital procedures, such as transplants, for example.

In 2023, 45,557,046 units of CEAF medicines were distributed, representing BRL 253.6 million. Control over the dispensing of CEAF medications and the issuance of APACs are carried out through the Hospital Information System – SIGH Prodesp.

In 2023, the ICHC Pharmacy filled 787,519 ambulatory prescriptions, on average 65,627/month. There is also a home medicine delivery service that, since 2013, has become free. Around 52% of ambulatory patients receive their medicine at home, free of charge.

HCFMUSP has the largest hospital pharmacy in Brazil.

The ICHC Pharmacy Division has pharmacies in the Ambulatory Building (PAMB), on the 8th floor, on the 9th floor (to serve the Surgical Center) and in the building attached to the PAMB (to serve ambulatory patients). It also has units in the ICHC building, with decentralized pharmacies on the 4th floor (for Emergency Room service) and on the 9th floor.

Today, 147 employees work in the Pharmacy Division, of which 38 are pharmacists and 30 pharmaceutical residents, with the rest being interns, technical and support employees.

Founded in the same year as HCFMUSP, 1944, the Pharmacy Division is also a production environment, where medicines are manufactured that are no longer sold, as they do not arouse commercial interest. Dilutions and dosages different from those available on the market are also prepared, depending on the patient's needs, or compositions different from the traditional ones.

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In 2023, the production of medicines generated savings of BRL 12.1 million. Were produced 52 types of standardized medicines, with a total of more than 6 million units, and 367 formulas (300,270 units) were also manipulated, in a personalized and individualized way, to meet medical prescriptions and patients' needs. The pharmacy also dispensed 16 special products, produced for research protocols, totaling 103,730 units. In addition to the medicines produced internally, 385 different medicines were also purchased and unitized, totaling more than 1.17 million units to meet the prescriptions of hospitalized patients.

In 2023, cycles to improve Pharmaceutical Assistance processes were carried out, aiming at safety and innovation actions in the activities carried out, such as:

a) Organization of pillbox systems for patients with adherence difficulties and/or illiterate;

b) Definition of the mobile module in the MV to expand the traceability project;

c) Automated temperature monitoring of the central pharmacy storage area;

d) Records of pharmaceutical interventions on the REDCap platform;

e) Alignment of Strategic Planning with ESG practices;

f) Carrying out mapping of processes and risks;

g) Readjustment of the identification of ambulatory pharmacy password panels based on patient experience;

h) Implementation of the electronic dispensary in the ICU on the 11th floor of ICHC in the GS wing;

i) Expansion of Pharmaceutical Teleconsultation.

COMPREHENSIVE HEALTH CARE ACTIONS

HOSPITAL UNITS AND SPECIALIZED HEALTH UNITS OF THE FMUSP-HC SYSTEM

The FMUSP Hospital das Clínicas is made up of nine hospital institutions and ambulatory units

In 2023, HCFMUSP turned 79 years old. It was created by Decree No. 13,192, of January 1943, and its official inauguration took place on April 19 of 1944.

Considered the largest Hospital Complex in Latin America, HCFMUSP, with more than 2,400 beds, is made up of nine hospital institutions and ambulatory units. More than 1.4 million ambulatory appointments, 47,000 surgeries and 180,000 urgent and emergency visits are carried out annually.

Focused on Assistance, Teaching, Research and Innovation, the FMUSP Hospital das Clínicas Complex (HCFMUSP) is made up of the following hospital institutions: Central Institute of HCFMUSP (ICHC, including PAMB), Institute of Psychiatry (IPq), Institute of Orthopedics and Traumatology (IOT), Institute of Physical Medicine and Rehabilitation (IMRea), Institute of Children and Adolescents (ICr), Institute of the Heart (InCor), Institute of Radiology (InRad), Cancer Institute of the State of São Paulo (Icesp, including the ITACI) and Perdizes Institute (IPer). It also has

the Medical Research Laboratories (LIMs), School of Permanent Education (EPP), the Teaching, Research and Innovation Laboratory in Surgery (Lepic) and the Rebouças Convention Center (CCR).

In the field of Innovation, the InovaHC District was created, dedicated to creations and solutions in health tech and startups with the purpose of bringing efficiency to the entire health system in the country, and the HCFMUSP/InovaHC Artificial Intelligence Laboratory (In.Lab), a space designed for partners, startups and developers who already have or want to create Artificial Intelligence (AI) projects focused on improvements and solutions in the patient journey and the healthcare chain.

The performance, in 2023, of Hospital Units (except Icesp [page 73], IPer [page 81] and InCor) and Specialized Health Units, are presented on the following pages.

ICHC

Institutional Data:

Foundation: 1944

Building area: 178.5 thousand m²

Accreditations: ONA III, CAP, PALC 2016, ISO 9001, OHSAS 18001, ISO 14001, Full Seal from the Elderly Friendly Hospital Program, SINASC Seal, Friendly of the Environment, International Certification for Distinction in Assisted Infusion Therapy

Assistance Indicators 2023:

Hospitalizations: 24,992

Surgeries: 17,869

Urgent and emergency care: 135,423

Ambulatory appointments: 646,024

Imaging exams: 12,361

Laboratory tests: 7,434,551

Opened in April 1944, the Central Institute (ICHC) gave rise to HCFMUSP. A pioneer in medical and hospital procedures, its structure concentrates most of the medical and multidisciplinary specialties, consisting of two interconnected buildings: the Central Building and the PAMB – Ambulatory Building. ICHC is known for its large number of Hospitalization and Intensive Care Units, in addition to the Referred Emergency Unit for more serious cases.

In 2023, ICHC received the Full Seal from the Elderly Friendly Hospital program, established by the Government of the State of São Paulo to encourage hospitals to adopt good practices aimed at the elderly population. The certificate is the culmination of important multidisciplinary work that incorporated greater quality and efficiency in the care of patients aged 60 and over. The Institute achieved the maximum level after an audit by the Elderly Friendly Hospital Seal Committee, from São Paulo State Health Department (SES-SP), carried out in December. The

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certificate is valid for three years.

In June, the ICHC Referenced Emergency Unit participated in another edition of the Disaster Response Simulation, organized by Albert Einstein Israelite Brazilian Beneficent Society. The scenario was a collision between a truck loaded with highly toxic chemicals and a van. Five victims contaminated by the substance were sent to HCFMUSP.

At the Referenced Emergency Unit, the victims were subjected to the decontamination process, in a pneumatic tent set up in the parking area. The technology consists of a medium pressure shower coupled to two reservoirs – one with a decontaminating product and the other designed to receive waste through a drainage system. At the same time, the victims were assisted by teams still in the entrance courtyard and, after the decontamination process, inside the unit. The objective of participating in simulations is to train the agility of removal, identification, screening and multidisciplinary care, in addition to identifying structural needs, available resources and risks associated with the processes.

From June 26 to 30, the city of Iguape, in São Paulo, hosted the One Health Project (Projeto Saúde Única), a joint effort with medical specialists who provide care on the USP Health and Science Platform, a trailer that works as a center for assistance. The One Health concept addresses the integration between human and animal health, the environment, and the adoption of effective public policies for the prevention and control of diseases at local, regional, national and global levels.

Services in several areas were offered to up to 500 patients per day, in the areas of ophthalmology, dermatology, endocrinology, infectious diseases, vascular and cardiovascular risk assessment. Doctors, volunteers, nurses, residents, technicians, assistants and physical educators are part of the team, which also has the support of information technology professionals.

On September 29, the Division of Urology and Renal Transplantation at ICHC performed the first elective benign surgery with the help of a robot, on a patient with benign prostatic hyperplasia, a condition that affects 2/3 of the male population.

The robotic procedure is a step forward from the methods currently used at ICHC. It is part of a research project that will involve the areas of Gynecology, Gastrosurgery, Head and Neck Surgery and General Surgery.

The forecast is that each of these specialties will perform, on average, 30 surgeries with the help of the robot, totaling 160 in a period of one year. The results of the study will allow the definition of the best surgical approach for treating the patient. The project also provides training on a robotic platform for doctors in Gynecology, Urology, Head and Neck Surgery and General Surgery.

In 2023, ICHC achieved certification for the highest level of excellence from the National Accreditation Organization (ONA), a certifying body for health institutions recognized by the Ministry of Health. It is the first time that a public hospital that serves more than 1 million patients per year with highly complex diseases, from different regions of the State and other countries, has achieved level 3 Accreditation – Excellence in Management.

The certification proves that ICHC invests in rigorous quality and safety assessments of care, in the technical-scientific improvement of professionals, in care innovation, in comprehensiveness, in humanization and in care, which place the hospital on a new level in the healthcare scenario. The Institute underwent a detailed assessment of the structure, processes and results, in accordance with the requirements of the new ONA Manual, version 2022.

In 2023, in joint action with FFM, **8,271,220 assistance procedures** were carried out by ICHC.



Disclosure: HCFMUSP

One Health Project - Ophthalmological assessment with high technology"

COMPREHENSIVE HEALTH CARE ACTIONS

IPq

<i>Institutional Data:</i>	<i>Assistance Indicators 2023:</i>
<i>Foundation: 1952</i>	<i>Hospitalizations: 959</i>
<i>Building area: 22 thousand m²</i>	<i>Surgeries: 13</i>
<i>Accreditations: ONA III</i>	<i>Ambulatory appointments: 60,538</i>
	<i>Imaging exams: 3,433</i>

The Institute of Psychiatry (IPq) is the largest and best equipped Center for Psychiatry and Mental Health in Brazil. Since its creation, it has been combining science and sensitivity to offer excellence in Research, Teaching and Assistance.

A pioneer in the creation of specialized groups and services, the Institute provides comprehensive and integrated care for the various types of psychiatric disorders and has a hospitalization unit specialized in child psychiatry – the only one in Brazil. IPq is also a reference in functional neurosurgery, the result of the joint effort of multidisciplinary teams.

The IPq Obsessive-Compulsive Spectrum Disorders Program (Protoc) was founded in 1994. Obsessive-Compulsive Disorder (OCD) is characterized by the presence of repetitive and involuntary thoughts, images or impulses, which cause discomfort and are relieved by compulsions. OCD spectrums also include trichotillomania, pathological hoarding, body dysmorphism, among others.

Protoc works with the Assistance, Research and Teaching fronts to promote understanding and develop better treatments for these conditions. The aim is to provide assistance to patients, whenever possible, within the context of a research project; develop clinical, genetic, neurobiological and neuroimaging research projects based on data collected from patients who accept to participate in research projects; develop teaching activities related to ambulatory care, such as internships for undergraduate students at FMUSP and partner institutions; and absorb scientific initiation, master's and doctorate students from the Department of Psychiatry at FMUSP, with supervision and guidance from the team's doctors.

In 2023, the Protoc team conducted a neuroimaging study, before and after a specific treatment. Patients selected in the screening should not be undergoing medication treatment, as this would influence the imaging examination.

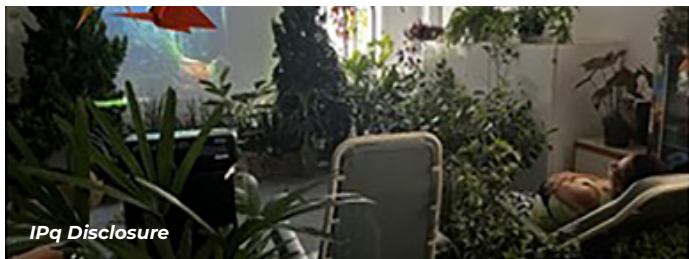
On March 15, IPq launched the National Center for Research and Innovation in Mental Health (CISM). The

new Center aims to improve mental health awareness in the State of São Paulo, implementing innovative interventions to improve mental and physical health indicators. The initiative is the result of a partnership between IPq-HCFMUSP and the Federal University of Rio Grande do Sul (UFRGS), the Federal University of São Paulo (Unifesp), Banco Industrial do Brasil (BIB) and the city halls of Indaiatuba and Jaguariúna, in the interior of São Paulo, with the intervention of the FFM.

The project has a financial contribution of BRL 40 million, BRL 20 million from FAPESP and BRL 20 million from BIB. Among the areas of action are the study of the development of mental disorders in young people, considering genetic and environmental factors; development and testing of new mental disorder intervention technologies; and implementation of effective interventions in the community that can be applied through public health policies in the State of São Paulo and in Brazil.

On March 21, which marks International Down Syndrome Day, IPq hosted the “1st USP/ALANA Workshop - Down Syndrome Research and Advocacy”. The scientific program offered an overview of recent research into Down Syndrome carried out by Brazilian researchers and their interface with international leaders. At the end, there was a discussion about the role of the University in promoting high-level research in this area of knowledge. The debate also addressed how to facilitate the inclusion of people with intellectual limitations in the academic community.

The event marked the beginning of discussions for the creation of a Brazilian Research Network on Down Syndrome and a School Program at USP for individuals with intellectual limitations.



The ninth edition of *IPq Doors Open* brought together more than 2,500 people in a single day, including IPq professionals, patients, companions and visitors who signed up for more than 160 lectures and other free activities. The action, carried out on September 22, aims to open the Institute's doors to society so that people have access to direct, well-founded and enlightening information about psychiatry and mental health. Combating the stigma and prejudice associated with psychiatric disorders is also the reason for the initiative.

The second edition of the IPq Forest Bathing experience was held on November 21, 22 and 24. The activity is free and open to all HCFMUSP professionals. Forest Bathing is an immersion in nature that, according to studies, encourages stress reduction, relaxation and well-being, among other benefits. With this objective, spaces at the IPq Rehabilitation Center and Day Hospital were transformed into themed rooms, providing participants with contact with plants, sounds, smells and images. In 2023, in joint action with FFM, **64,943 assistance procedures** were carried out by IPq.

IOT

Institutional Data:

Foundation: 1953

Building area: 27.5 thousand m²

Accreditations: ONA II

Assistance Indicators 2023:

Hospitalizations: 4,133

Surgeries: 3,973

Urgent and emergency care: 14,614

Ambulatory appointments: 64,033

Imaging exams: 58,559

Laboratory tests: 145,233

IOT turned 70 on July 31. The history of the Institute begins in the 1940s. An epidemic of polio (infantile paralysis) affected countless children, not even sparing the son of then President Getúlio Vargas, who died from the disease. Vargas responded to the request of Professor Francisco Elias Godoy Moreira, creator of the Institute, and authorized the construction of a hospital to treat polio.

Work began in 1944 and, on July 31, 1953, the official inauguration and relocation of the Orthopedic and Traumatology Clinic at Hospital das Clínicas took place to its own building, with 10 floors and a three-story annex.

The new home, during the acute phase of Infantile Paralysis, had 50 beds and was equipped with steel lungs, necessary for the treatment of patients with respiratory complications.

With the eradication of the disease, the hospital changed its profile and adapted to the needs of the city, which continued to grow. IOT began to be used for care, research and teaching of other important orthopedic conditions.

COMPREHENSIVE HEALTH CARE ACTIONS

During these seven decades, the Institute built a trajectory with remarkable events, such as the inauguration of the Center for Microsurgery and Hand Surgery, in 2010. The location was the first center of its kind in Brazil to have specialized teams with 24-hour service. In the same year, IOT received Accreditation as a FIFA Medical Center of Excellence, through the Sports Medicine Discipline.

In 2012, the Institute performed a knee cartilage transplant, a new technique in the country. In 2014, he underwent endoscopic surgery to treat a herniated lumbar disc in a less invasive way. The procedure lasts just 30 minutes, and the patient is discharged the same day.

In 2019, the Prof. Manlio Mario Marco Napoli Laboratory, the only one in the country that has charged computed tomography technology, and the Research and Assistive Technology Laboratory (Rehab Lab) were opened. In 2021, the Institute implemented Teleconsultation and Remote Visits, initiatives of the Digital Health Program.

Currently, the IOT occupies two buildings, the first with 10 floors and the second with four. Both are intended for the treatment of diseases of the locomotor system.

It has seven specialty laboratories and a clinical team of approximately 160 doctors, including: orthopedists, residents in the specialty and its own group of anesthesiologists. Also are part of this group: pediatricians, geriatricians, physiatrists, plastic and chest surgeons, urologists and cardiologists, who provide medical support to patients undergoing orthopedic treatment.

On May 11, 2023, the IOT Acupuncture Center held a ceremony in honor of 50 years of acupuncture in the public health service. Acupuncture is part of a set of therapeutic practices



of traditional Chinese medicine that have been crossing borders and gaining countless followers around the world, over thousands of years.

HCFMUSP was a pioneer in the introduction of acupuncture in public service and academia. In 1973, the IOT Physical Medicine Division introduced Ryodoraku electroacupuncture. In 2006, the IOT Acupuncture Center was created, and, shortly after, the medical residency in acupuncture began at HCFMUSP. Currently, the IOT Acupuncture Center trains around 30 doctors and serves an average of 900 patients per year.

With a focus on patient safety and continuous improvement of processes, in September 2023, IOT received ONA level 2 accreditation (Full Accredited), valid for two years, which, in addition to evaluating safety criteria, also requires the organization to integrated process management, promoting improvement actions between areas.

Certification of a healthcare organization through accreditation is recognition that the institution meets the rigorous standards that the methodology requires. During the evaluation, all areas of the Institution are visited and more than 1,700 requirements are verified.

In 2023, in joint action with the FFM, **290,545 assistance procedures** were carried out by the IOT.

IMRea

Institutional Data:

Foundation: 1975

Building area: 36 thousand m²

Accreditations: CARF, Accessibility Seal

Assistance Indicators 2023:

Total number of care procedures and hospitalizations (Vila Mariana, Umarizal, Lapa and Clínicas Units): 222,563



The Institute of Physical Medicine and Rehabilitation (IMRea) – initially called the Vergueiro Professional Rehabilitation Division (DRPV) and later the Rehabilitation Medicine Division (DMR) – has multidisciplinary teams and cutting-edge technology, with the largest and most complete technological park in Latin America, serving people with physical, temporary or permanent disabilities in a comprehensive and integrated way, based on the development of their physical, psychological, social, educational and professional potential.

IMRea seeks to pioneer rehabilitation assistance, through clinical research and technological innovations, with the development of strategies for evaluating results for the patient and society.

Rehabilitation Programs are organized with an emphasis on multidisciplinary work, coordinated by a physiatrist and carefully developed by doctors, social workers, psychologists, physiotherapists, occupational therapists, speech therapists, nurses, nutritionists, physical educators and art educators. These are highly specialized teams, responsible for planning, executing and monitoring specific treatments, improved by the constant development and incorporation of new technologies.

The main deficiencies treated by IMRea are due to brain injury, spinal cord injury, amputations, neurodegenerative diseases, post-Covid complications, in addition to congenital malformations of the upper and/or lower limbs, cerebral palsy and/or delayed neuropsychomotor development, hemophilia, Down Syndrome and disabling benign pain.

In 2020, due to pandemic restrictions, IMRea also added teleservice, a distance assistance modality, to patients in a rehabilitation program.

This is an extension of the multidisciplinary team care already provided by IMRea to patients and caregivers, with the aim of monitoring home therapeutic guidelines and promoting continuity of rehabilitation

care for the patient.

IMRea is part of the Lucy Montoro Rehabilitation Network (RRLM) and, currently, of the five RRLM Units in the Capital of São Paulo, four are part of IMRea: Vila Mariana, Lapa, Umarizal and Clínicas. The IRLM (page 78) is the fifth RRLM Unit in the Capital.

IMRea's headquarters is located in Vila Mariana, south of São Paulo city, and serves an average of 200 patients a day, between face-to-face and teleservices. It offers specialized exams and treatments with cutting-edge equipment, as well as Robotics, Neuromodulation Laboratories (opened in 2013), Assistive Technology, Bioengineering with 3D resources and a specialized Neuromuscular Block ambulatory.

The hospital has rooms adapted to provide patients and their caregivers with a humanized welcome suited to their needs. In 2023, IMRea Vila Mariana carried out 150 hospitalizations.

The care team is made up of physiatrists, dental surgeons, social workers, psychologists, physiotherapists, occupational therapists, nurses, speech therapists, nutritionists, physical education professionals, rehabilitation technicians, rehabilitation engineers, among other professionals, as well as specialists for providing support in the areas of cardiology, urology, infectious diseases, radiology, psychiatry and general practice.

In the South Zone, in the Campo Limpo neighborhood, IMRea Umarizal is located, opened in 2001. It serves around 99 patients a day, including face-to-face and tele-services in the various rehabilitation programs. It offers cutting-edge technology, such as the Robotics Laboratory and the Assistive Technology Laboratory, which aims to develop patients' maximum potential. It offers specialized ambulatory clinics, such as Neuromuscular Blockade, Acupuncture, Dentistry and laboratories specializing in Electroneuromyography, assessment and Isokinetic training.

COMPREHENSIVE HEALTH CARE ACTIONS

In the West Zone of the city, IMRea Lapa, opened in 2007, currently serves around 132 patients a day, between face-to-face and teleservices, in different rehabilitation programs. It offers specialized ambulatory, such as hemophilia and Comprehensive Care for People with Down Syndrome, which serves patients aged zero to 18, in different programs according to age groups and different stages of development.

Specifically in this Unit, in addition to regular rehabilitation treatments, Re-AbilityLab (LABs) stands out, which has laboratories where activities are carried out by a multidisciplinary team and specialized technicians, whose objective is to promote the maintenance and expansion of patients' functional capacity and autonomy during the rehabilitation process.

LABs were designed and created so that all patients have access to innovations, technological tools, as well as content that encourages protagonism and recognizes the value of their own capacity.

The actions are carried out in an inclusive environment for people with functional restrictions and limitations in different life cycles. Activities and guidance are offered not only for people with disabilities, but also for their entire support network: their caregivers, family, friends, students in the community, health and education professionals, among others.

In this Unit, activities related to the Wheelchair Technology Center, as well as management and

development concerning the dispensing of Orthoses, Prostheses and means of locomotion for patients in a rehabilitation program also take place.

Opened in 2008, IMRea Clínicas is located within the HCFMUSP block and serves, in the various rehabilitation programs, around 57 patients a day, between face-to-face and teleservices, who are referred by the specialized ambulatory of HCFMUSP, the Hospital Physiatry Interconsultation of the HCFMUSP Complex, and upon spontaneous demand from Supplementary Health.

It treats more complex cases, such as neuromuscular diseases, cerebral palsy and/or delayed neuropsychomotor development, neurodegenerative diseases and musculoskeletal pathologies, in addition to having a Neuromuscular Block ambulatory and a specialized Electroneuromyography laboratory.

In 2023, the number of IMRea ambulatory services, including medical and dental appointments, multidisciplinary services, both face-to-face and remote, hospitalizations and exams, was **222,563**, as follows:

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION – IN-PERSON SERVICES IN 2023					
Unit	Medical Services	Multiprofessional services	Exams	Hospitalizations	Total
Vila Mariana	17,107	66,632	4,989	150	88,878
Lapa	3,961	65,769	0	0	69,730
Umarizal	5,320	38,521	65	0	43,906
Clínicas	3,339	16,363	347	0	20,049
Total	29,727	187,285	5,401	150	222,563



In 2023, the Collaborating Center (CC) for Rehabilitation and Assistive Technology participated, together with PAHO/WHO, in discussions in different forums on inclusive health, rehabilitation research and strengthening rehabilitation in the Americas region, in addition to reviewing the List of Priority Assistive Products and List of WHO Rehabilitation Indicators. The CC also supported WHO and UNICEF in holding a regional workshop on expanding access to assistive technology in Latin American and Caribbean countries. In addition, it became a member of the World Alliance for Rehabilitation, a WHO initiative to promote themes such as the integration of rehabilitation in Primary Health Care and in the preparation and response to emergency situations, as well as strengthening the workforce and rehabilitation research.

The work *“Equity of access to assistive products by patients in specialized rehabilitation services in the city of São Paulo, Brazil”* received the 1st place award in the thematic axis *“Equity and Access”* of the *IV Congress of the Brazilian Network for the Assessment of Health Technologies*, held in Brasília, DF.

IMRea, in partnership with the Oswaldo Cruz Foundation units in Brasília and Recife and the London School of Hygiene and Tropical Medicine, held a workshop to present the results of the project *“Strengthening access for people with disabilities to the Unified Health System in Brazil”*, in addition to a seminar open to the scientific community and social movements. The events resulted in an open letter to the First National Free Conference on the Health of People with Disabilities and supported the Ministry of Health in the preparation of the National Policy for Comprehensive Health Care for People with Disabilities.

IMRea entered into an agreement with the Global Disability Innovation Hub, a research center associated with University College London, to carry out a study to evaluate the impact of access to a smart cell phone on people with hearing or visual impairments. The same study is already being carried out in India and Kenya and will provide evidence for the implementation of new policies on this topic in low- and middle-income countries.

IMRea also started a project to develop tools based on Artificial Intelligence, quantum computing and other complementary techniques for analyzing electroencephalographic data, with the aim of identifying biomarkers of central sensitization of chronic pain with clinical application.

Through a Cooperation Agreement signed with the Association for Education, Sport, Entrepreneurship

and Patient Rights of the Rehabilitation Division of Hospital das Clínicas, IMRea started a pilot and pioneering project on the reprocessing of assistive products, which will facilitate access to articles for the mobility of patients treated in selected ambulatory clinics and wards, with the aim to analyze the feasibility of implementing this practice by HCFMUSP and the Brazilian Health System.

Regarding activities related to the development of scientific research, in 2023, 19 research projects were submitted and 10 scientific publications were published in national and international journals indexed, in addition to guiding research in master's, doctoral and post-doctoral work. IMRea also publishes the *Acta Fisiátrica Magazine* quarterly. In 2023, four issues were published, totaling 42 articles.

In 2023, IMRea promoted actions aimed at internal and external audiences, such as:

- “Pink October”, which aimed to alert employees about the importance of prevention (self-examination) and early diagnosis to combat breast cancer;
- “Us in São Paulo”, in celebration of the Day of the International Fight for the Rights of People with Disabilities, which aimed to promote innovative experiences with dialogue and participation outside the therapeutic space, with guided visits to the Pinacoteca of the State of SP and the Ferris wheel of Cândido Portinari Park;
- “Therapeutic Workshop - Collaborative Painting”, in which a plastic artist and former IRLM patient led, together with occupational therapists, a painting workshop on canvas for hospitalized patients;
- “Family Day”, which aimed to promote integration between IMRea employees and their families, who were able to get to know the Institution's work personally and understand the concept of rehabilitation in practice.

In 2023, IMRea received two units of Exoskeleton equipment. This is technology that allows users with paraplegia to move alone by simply tilting their body. The robot has a system that controls the center of gravity to provide greater balance. In this unprecedented technology, the user “wears” the exoskeleton and, with the movement of his own body, the robot begins to walk. The equipment is programmed according to the patient's goals. The exoskeleton can bend over, sit down and stand up, walk forwards, backwards and sideways, as well as climb steps. Patient Cleuza Rodrigues was the first to use the exoskeleton, broadcast on national television by Fantástico.

COMPREHENSIVE HEALTH CARE ACTIONS

ICr

Institutional Data:	Assistance Indicators 2023:
<i>Foundation: 1976</i>	<i>Hospitalizations: 5,924</i>
<i>Building area: 38.8 thousand m²</i>	<i>Surgeries: 1.970</i>
<i>Accreditations: ONA III</i>	<i>Urgent and emergency care: 35,675</i>
	<i>Ambulatory appointments: 65,107</i>
	<i>Imaging exams: 33,380</i>
	<i>Laboratory tests: 824,487</i>

The Institute of Children and Adolescents (ICr) is a reference in tertiary and multidisciplinary care, from birth to adolescence, with humanization as one of its premises. It has high-end diagnostic and therapeutic technology, in addition to 20 medical specialties that offer excellent care in cases of chronic and complex diseases, such as rare syndromes and kidney and liver transplants.

On February 28, celebrated as World Rare Disease Day, the HCFMUSP ICr carried out an awareness campaign at the Clínicas Metro Station. The “We Are Rare, But We Are Many” campaign had a 2m² panel installed near the station turnstiles highlighting the importance of neonatal screening, also known as the heel prick test, for the prevention and early diagnosis of different diseases. Furthermore, a specialist from the Institute remained at Clínicas Station of São Paulo Metro to clarify doubts on the topic.

In 2023, the ICr maintained the highest level of the National Accreditation Organization (ONA) certificate, Level 3 – Accredited with Excellence, valid until April 2026.

Among the strengths highlighted were the visual dissemination of Strategic Planning through a panel; ambiance of areas with children’s decorations and motifs in line with Baby-Friendly Hospital guidelines; “Transition Project”, to improve patient de-hospitalization; promotion of lectures focused on diversity; guidance manual for companions of patients hospitalized in the Pediatric ICU, with audio content and access via QR Code; therapeutic education program, with a patient plan performance panel; project that combats waste in the pharmacy, reducing the disposal of prepared and divided medicines; creation of the “Pacotinho Protocol” to perform magnetic resonance imaging, without anesthesia, in newborns; between others.

In August, the ICr Human Milk Bank began a pilot project to collect milk from external donors. Mothers who live in the central region, close to the HC Complex, in the neighborhoods of Pinheiros, Perdizes, Pompeia, Cerqueira César and Jardins, and who had surplus milk (that is, do not use supplementation when breastfeeding their own child) were able to participate.

In August, the ICr promoted, at CCR, the benefit show “A Thousand Reasons to Donate” with the aim of celebrating the thousandth pediatric liver transplant carried out by the Institute.

In 2023, a partnership was signed with the Brazilian Air Force (FAB) to support the air transport of patients seeking treatment at the ICr, including: transport of pediatric liver disease patients and their companions; support from the ICr Humanization service to carry out training on the topic for FAB hospital units; organization of courses and lectures for FAB doctors on topics of interest to the institutions; expansion of cooperation with other Armed Forces, such as the Army and Navy, via the FAB; and the possibility of exchanging knowledge through teleguidance between ICr and FAB professionals.

Furthermore, the proposal aims to create a flow for the transport of tissues, to be studied for compatibility analysis in the execution of bone marrow transplants. Currently, the ICr performs this procedure on children and adolescents from various parts of the country. Around 30% of patients come from other public institutions, which are unable to treat more advanced cases of cancer.

Since October, ICr has had 23 new cleaning carts redesigned and stickered with colorful drawings of



characters inspired by children's favorite animals.

The idea is to demonstrate that the hygiene process can also be joyful and show children the importance of hygiene in the context of a healthy life.

In October, the ICr promoted the Outpatient Pediatric Surgery Task Force Week, in order to optimize the Surgical Center's schedule and speed up the flow of care, which allowed 46 surgeries to be carried out via SUS and three via Supplementary Health.

Postectomy, orchidopexy, catheter removal, umbilical or inguinal hernia correction, gastrostomy closure, among others were performed.

In December, ICr received the Planisa Cost Excellence Seal with two stars, which is part of a pilot project developed by Hospital das Clínicas Complex, to recognize the best practices applied in hospital cost management in favor of greater optimization of financial results.

The ICr went through the process of revitalizing the corporate cost project. The Institute's managers participated in theoretical and practical training, the objective of which was to analyze sectoral costs, thus promoting greater involvement in the creation, review and management of cost centers in their respective areas. Additionally, the Cost RAC was implemented in conjunction with the Superintendence, including the presentation of a case study. These steps were fundamental and preceded the achievement of certification.

In 2023, in joint action with the FFM, **966,543 assistance procedures** were carried out by the ICr.

InRad

Institutional Data:

Foundation: 1994

Building area: 14.3 thousand m²

Accreditations: ONA III, ONA/IBES Level 3 and National Mammography Quality Program (PNQM), QUANUN

Assistance Indicators 2023:

Ambulatory appointments: 2,992

Imaging exams: 239,573

Radiology Institute (InRad) is a center of excellence and national and international reference with the most modern diagnostic and therapeutic imaging resources to serve outpatients and hospitalization patients in the modalities of Radiology, Nuclear Medicine, Interventional Radiology and Radiotherapy.

It was the first institution in Latin America to apply Nuclear Medicine techniques and the first in South America to have high dose rate brachytherapy equipment and a Production and Development Unit for Positron Emitting Radiopharmaceuticals in Nuclear Medicine (Project Cyclotron) installed in a public hospital in the country, for use in tumor diagnostic exams and in research projects in the area of molecular imaging. With the mission of improving imaging diagnosis and therapeutic oncology, the

Institution also promotes scientific knowledge through teaching, research, training and people training activities. One of the new studies that InRad is carrying out is the application of Artificial Intelligence to prepare its reports, streamlining and standardizing their issuance.

To support teaching and research activities, InRad has a specialized library in Radiology and Nuclear Medicine, undergraduate and postgraduate secretariats, a clinical research center and medical research laboratories in Experimental Oncology, Nuclear Medicine and Magnetic Resonance Imaging in Neuroradiology. In 2015, "InRadiando" was created, the educational arm of the Institute that is responsible for actions aimed at the continuing education of doctors and health professionals.

COMPREHENSIVE HEALTH CARE ACTIONS

Furthermore, the Institute is recognized for developing projects linked to innovation and technology. In 2015, InovaHC was created, with the mission of enabling innovative solutions and businesses that meet the health demands of HCFMUSP and the Brazilian health system.

Three years ago, In.Lab was created in partnership with Siemens Healthineers, the only research center in the country that follows the triple helix model for innovation and develops solutions in Artificial Intelligence applied to health.

Directly linked to InRad, the InovaHC District, opened in 2019, is a space to house startups and innovation laboratories in a modern structure.

In 2023, InovaHC launched the notice for a new class of In.Cube, a free entrepreneurial training program for researchers, students and professionals on their journey of innovation in the health sector.



Participants have access to curated content, mentoring with experts, as well as the opportunity to present their project to InovaHC partners and potential investors. Teams (2 to 5 people) of health professionals, researchers, engineers, designers, business administrators and students from all areas were able to participate, with no need for a link with HCFMUSP.

In 2023, in joint action with FFM, **242,565 assistance procedures** were carried out by InRad.

Auxiliary Hospital of Suzano

Institutional Data:

Foundation: 1960
Building area: 20.9 thousand m²
Accreditations: ONA I

Assistance Indicators 2023:

Hospitalizations: 36
Ambulatory appointments: 5
Imaging tests: 148
Laboratory tests: 42

Opened on March 9, 1960, the Auxiliary Hospital of Suzano (HAS) was part of the Department of Decentralized Units at HCFMUSP.

It acted as a back-up unit for the other Institutes that make up HCFMUSP, focusing on long-term care for adult and pediatric hospitalization patients.

HAS provided assistance focused on long-stay patients. This specialty made this Institution an arm of HCFMUSP in the Greater São Paulo region. The multidisciplinary teams that worked at HAS received adults and children at different stages of illness.

The objective was to restore the patient's functional capacity and reduce the impact of various sequelae,

encouraging autonomy and self-care together with family members or caregivers, in an individualized and humanized way.

In 2023, HAS underwent a management transition process and, since July 1, it ceased to be a unit of HCFMUSP. Named Tietê Regional Hospital, it began to be administered by the São Paulo Association for the Development of Medicine (SPDM).

Until July 2023, in joint action with FFM, **231 assistance procedures** were carried out by HAS.

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LIMs

The HCFMUSP Medical Research Laboratories (LIMs), officially established in 1977, house more than 240 research groups in different areas of medical and biomedical knowledge. They function as a training ground for Undergraduate (Scientific Initiation), Postgraduate and Postdoctoral students, who form centers in different regions of the country. In addition to training researchers, training students and health professionals, they run courses and develop research.

The Institution has 66 LIMs, which occupy an undisputed position of scientific leadership in Medicine and related areas. The prolific knowledge production of LIMs has a transversal distribution across the FMUSP-HC System. This configuration and its results indicate the success of the close dialogue between scientific research activity and the day-to-day operations of Hospital das Clínicas.

LIMs play an important role in promoting technological innovation, because they form constant partnerships and develop projects with the Clinical Research Office and InovaHC, as well as working in conjunction with the FMUSP Research Committee.

They are part of the FMUSP Waste Committee

and work closely with the HCFMUSP Specialized Occupational Medicine Service (SESMT-HC) in promoting and guaranteeing laboratory safety.

LIMs have been undergoing a scientific production evaluation process since 1988, which has been improving over the years. The training of human resources, which, together with scientific production, constitutes the mission of LIMs, has also shown a growth trend over the last 10 years.

In 2023, the LIMs Board of Directors concluded the analysis of the scientific production carried out by the 66 laboratories, referring to the year 2021 and prepared a report with all the data from the previous decade.

During the period, publications jumped from 1,393 works in 2012 to 2,947 in 2021. An 86% increase in the number of citations per article was recorded in the last five years, which demonstrates the quality of productions and the national and international recognition of LIMs' research.

SCIENTIFIC PRODUCTION OF LIMs										
Nature of work	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Original paper in magazines indexed in the ISI/Scopus* databases	1,393	1,344	1,510	1,649	1,677	1,740	1,954	1,881	2,266	2,947
Original paper in magazines indexed MEDLINE (not indexed in ISI/Scopus databases)	110	212	117	112	111	178	115	146	123	14
Original paper in magazines indexed in SCIELO (not indexed in the ISI/Scopus or MEDLINE databases)	74	51	66	84	86	96	87	75	92	28
Original paper in magazines not indexed in ISI/Scopus databases*	184	263	183	196	197	274	202	221	226	42

*Updated on March 06, 2023

COMPREHENSIVE HEALTH CARE ACTIONS

This information was based on data from articles indexed in the Web of Science database, recently in Scopus and some in Medline and Scielo. The majority of articles published by LIMs are original, presenting guidelines and guidance for new diagnostic, therapeutic and preventive techniques and methods.

Given the Covid-19 scenario, in 2021, 10.5% of LIMs production was related to the topic. International cooperation is abundant, with institutions from Europe, South, Central and North America, and Asia. According to the Ministry of Science, Technology and Innovation, scientific production developed in the LIMs of the FMUSP-HC System represents 4.1% of Brazilian publications and 2.2% of Latin America, in the areas of Health and Biomedical Sciences, respectively.

On April 11, 2023, the *1st HCFMUSP LIM Facilitators*

Meeting took place, which aimed to promote greater integration and exchange of experiences between the laboratories, since the units are physically distributed throughout the HCFMUSP Complex.

To assist LIMs in adapting physical spaces in relation to safety standards and good practices, forms were distributed to record and control the disposal of chemical waste.

A table was also provided, to be used in organizing and storing reagents and chemical solutions. In total, 31 laboratories were represented by 48 facilitators and seven guests. In 2023, FFM continued its actions to support HCFMUSP LIMs initiatives.



Image: HCFMUSP

Facade of the HCFMUSP School of Permanent Education

EEP

The School of Permanent Education (EEP) has established itself in recent years as a center of excellence in teaching in the health area. Its current portfolio includes in-person technical, refresher and improvement courses, Distance Learning (EAD) courses, training with realistic simulation and virtual reality, preceptorships, practical workshops, internships, consultancies, specializations and MBA programs.

There are more than 350 courses and teaching activities – a performance boosted in 2020, at the most critical time of Covid-19. Aware of its social role, EEP created free courses and training to help health professionals in combating the new coronavirus. More than 165,000 students have qualified since the start of the pandemic.

EEP currently has more than 70 *lato sensu* specialization courses, 60 specialization courses with scholarships and 10 multi-professional residency programs. In postgraduate courses alone, there were

more than 18 thousand students in the last 14 years.

In Distance Learning, the School's growth continues at the same pace, both in the number of qualified professionals and in the demand for more than 150 courses. In 2023, 1.5 million people accessed the Institution's website and content.

In another innovative step in its segment, EEP launched in 2023, in partnership with Butantan, its first MBA course focused on Health Innovation Management. Developed by references from HCFMUSP, InovaHC and Butantan itself, the course provides managerial experience in all health innovation processes, in addition to preparing for conducting research, production and commercialization of products, patenting and the legal domain for the transfer of technology.

In total, since 2009, more than 642 thousand professionals have attended EEP's courses, training and teaching activities. In 2023, FFM continued its actions to support HCFMUSP's EEP initiatives.

OTHER HEALTH UNITS

FFM and HCFMUSP develop other actions aimed at providing free care to SUS patients

House of Aids

Installed on the premises of the Pinheiros Health Center of SES-SP, the Extension Service for the Care of HIV/Aids Patients – House of AIDS (SEAP) of the Division of Infectious and Parasitic Diseases of ICHC is an ambulatory and day hospital intended for Teaching, Research and Interdisciplinary Assistance to adult patients living with the human immunodeficiency virus. Opened in 1994, it has been jointly operated by FFM since 2004.

In 2007, this Service received the Governor Mário Covas Award from the Government of the State of São Paulo in the category “*Efficiency in the Use of Public Resources and Reduction of Bureaucracy*”, in recognition of the management project developed with a focus on adherence to treatment for patients living with HIV/AIDS. In the same year, it was classified in the “Gold” standard in the evaluation of specialized services in HIV/Aids throughout the country carried out by the Department of STD/Aids of the Ministry of Health, through the evaluation of the QUALIAIDS System.

SEAP is the first in the public health network in the State of São Paulo aimed at people with HIV and, with the inauguration of its Physical Activity Laboratory, in 2019, it began to incorporate, in an innovative way, sports practice into the care proposal comprehensive care for patients with HIV, to minimize the effects of diseases associated with chronic AIDS and the use of antiretroviral medications, providing improved quality of life and adherence to treatment.

Through agreements signed between HCFMUSP, FFM and SES-SP, in 2023, 3,961 patients were monitored at House of AIDS. Among patients living with HIV, 70.6% are male.

The youngest patient is 15.3 years old and the oldest is 94 years old. Comprehensive care is provided by a multidisciplinary team, which includes infectious diseases doctors, gynecologists and psychiatrists, nurses, psychologists, pharmacists, nutritionists, social workers, dental surgeons, physical educators and technical and administrative support staff.

On February 14 and 15, House of AIDS carried out rapid testing for HIV, syphilis and viral hepatitis at

Casa de Assis – Reference and Reception Center for Immigrants.

Between June 26 and 30, SEAP participated in a testing effort at the USP Health Project, in Vale do Ribeira, in São Paulo.

On December 1, World HIV Day, the traditional testing effort to detect HIV, syphilis and viral hepatitis was held at Largo da Batata, in Pinheiros, São Paulo.

In the joint efforts, HIV, syphilis and hepatitis tests are carried out with a small blood sample collected by finger prick. The results are ready in 20 minutes and are delivered by doctors, psychologists and social workers, in individual tents. In case of a positive diagnosis, the person is promptly welcomed by the team and referred to begin treatment at SEAP.

During the joint efforts, the population also received guidance on ways to prevent sexually transmitted infections, condoms and information to better disseminate care.

Aiming to continue these actions, an Agreement was signed between HCFMUSP, FFM and SES-SP in 2023, which made it possible to carry out 15,268 medical appointments and 32,680 assistances by the multidisciplinary team, totaling **47,948 ambulatory procedures**.

In addition, 28,277 prescriptions were filled at the pharmacy and 2,600 tests for HIV, 2,000 for syphilis and 3,650 for viral hepatitis B and C were carried out.



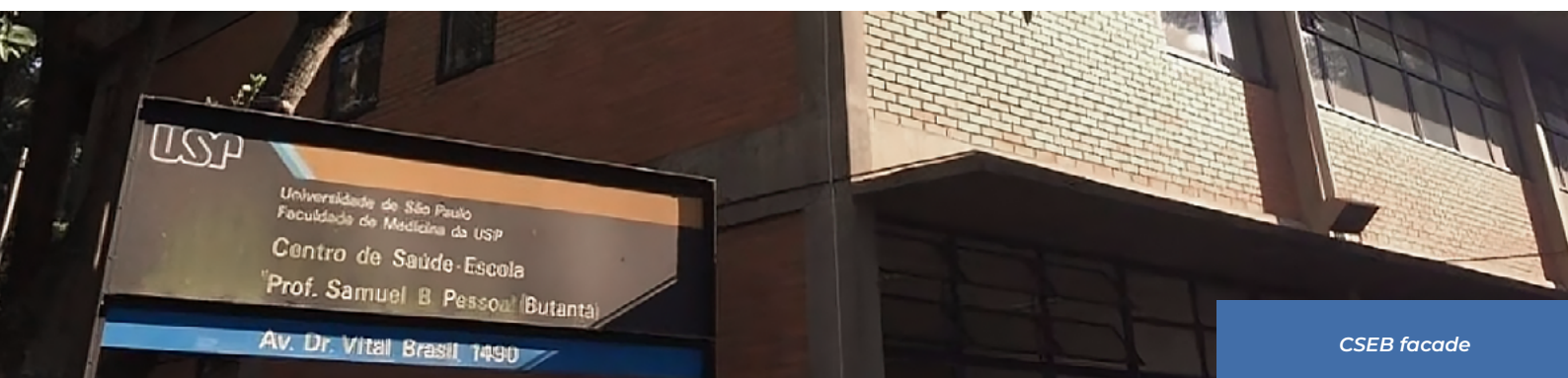
COMPREHENSIVE HEALTH CARE ACTIONS

Butantã School Health Center

The Samuel Barnsley Pessoa School Health Center (CSEB) is a teaching-assistance unit at FMUSP, under the responsibility of the Departments of Preventive Medicine, Pediatrics, Internal Medicine and Speech Therapy, Physiotherapy and Occupational Therapy. The Center is focused on Teaching and Research in the area of Primary Care for undergraduate students in the health field, medical and multidisciplinary residency, in addition to training technical level professionals and others already working in services.

It is responsible for providing care to an area of 25 thousand inhabitants in the Butantã region, encompassing two discontinuous centers, with heterogeneous socioeconomic, demographic, conditions health conditions and vulnerability to illness.

In 2023, through FFM, CSEB performed **4,795 ambulatory procedures**.



CSEB facade

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MANAGEMENT CONTRACTS

Icesp, IRLM and IPer, through FFM, base their management on the model of Social Health Organization and Management Contracts

In 2008, FFM became recognized as a Social Organization (private, non-profit legal entity, whose activities are aimed at teaching, scientific research, technological development, protection and preservation of the environment, culture and/or health, receiving this title of the Public Administration itself and authorized to celebrate with

it Management Contracts to perform services that are not exclusive to the State).

Icesp, IRLM and IPer base their management on the Social Health Organization (OSS) model, through the FFM.



Photo: ICESP

Cancer Institute of the State of São Paulo

Management Contract of the Cancer Institute of the State of São Paulo – Icesp

The Cancer Institute of the State of São Paulo – Octavio Frias de Oliveira (Icesp) is one of the units of the Hospital das Clínicas of the Medical School of the University of São Paulo (HCFMUSP), with exclusive care for patients in the public health network.

Opened in 2008, Icesp has established itself as a reference in oncology care in the country, providing assistance to around 130 thousand patients in a humanized way, with high technical quality and developing research and teaching activities in all areas related to oncology.

In addition to the Main Unit located on Doutor Arnaldo Avenue, in São Paulo, the Institute has an Ambulatory Unit in the city of Osasco and a specialized ambulatory

pharmacy, located on Consolação Street, which enables comprehensive oncological care with the supply of all medications of high cost (oral chemotherapy and hormone therapy) and nutritional supplements.

Icesp is accredited by the Ministry of Health as a “High Complexity Care Center in Oncology” (CACON), that is, the Institute has the technical conditions, physical facilities, equipment and human resources suitable for providing highly complex specialized care for the definitive diagnosis and treatment of different types of cancer.



COMPREHENSIVE HEALTH CARE ACTIONS

Assistance with excellence is a basic premise in the care provided by Icesp and transcends the act of caring for the patient who is on its premises. The act of caring is linked to the concept of humanization - integral concern for the person and for everyone who comes into contact with them, whether family or friends.

The Institute 's rehabilitation service is also accredited by the Commission on Accreditation of Rehabilitation

Facilities – CARF (2015 – 2017 - 2020) and the laboratories by the Clinical Laboratory Accreditation Program – PALC (2014 - 2018 - 2020 - 2023).

The numbers reflect an expressive and highly representative assistance production, with more than 650 thousand procedures performed annually.

SUMMARY OF ICESP SERVICE IN 2023*	
Procedures Performed	Amount
Doctor's appointments	236,618
Multiprofessional appointments	169,245
Surgeries	7,279
Hospital Departures	18,402
Chemotherapy sessions	47,501
Radiotherapy sessions	48,372
Ambulatory Pharmacy Services	111,223
Referred urgent/emergency care	23,018
Total	661,658

** Includes services provided at the Dr. Arnaldo, Osasco, ITACI and ambulatory pharmacy units.*

SUMMARY OF PATIENTS UNDER ICESP TREATMENT IN 2023	
Monthly average number of patients undergoing cancer treatment (QT + RDT)	5,620

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The year 2023 was also marked by several actions at Icesp that covered important moments, categorized and described below.

Assistance

- Planning for expansion of the ERAS Protocol (Enhanced Recovery After Surgery – optimization of postoperative recovery);
- PALC Certification (Clinical Laboratory Accreditation Program);
- Preparation for CARF (Commission on Accreditation of Rehabilitation Facilities) reaccreditation which took place in January 2024;
- Start of activities at the new Image-Guided Intervention Center (CIGI);
- Preparation for JCI (Joint Commission International) reaccreditation, which will take place in 2024;
- Expansion of multidisciplinary medical and non-medical teleconsultations via video;
- Patient Experience Program completes one year;
- Preparation for consideration for the Age-Friendly Hospital Seal;
- Reinforcement of the operation of radiological reports through teleradiology;
- Implementation of a pharmaceutical ambulatory in Osasco;
- Implementation of the Ready Medication Project (PPM) at the Consolação unit, which anticipates the preparation of dispensing by prior scheduling, using a dedicated queue.

Infrastructure

- Upgrade of Radiotherapy linear accelerators (AL5 and AL6);
- Acquisition and installation of three Ultrasound devices for the Intensive Care Unit (ICU), Surgical Center and Oncological Intercurrences Care Center (CAIO);
- Replacement of facade stickers – Osasco Unit;
- Installation of a Microscope for Pathological Anatomy;
- Receipt of the Da Vinci IS4200 X Robotic Surgery System;
- Installation of the Radiotherapy Dosimetry System;
- Opening of the Welcome Room;
- Standardization of WI-FI networks at the Institute;
- Implementation of the snapshot methodology, used for Tasy databases;

- Upgrading computers to institutional standards.

Management

- Second round of the Employee Engagement Survey (e-NPS);
- Strategic Planning Event held by the Icesp Planning and Management Center;
- Meeting of Hope in the Ecumenical Space monthly on the last Wednesday of the month;
- Installation of a Bed Panel on the 17th Floor, pilot project to monitor activities in hospitalization beds;
- Update of the consumption calculator per enrolled patient.

Awards

- Honorable mention for the Friend of the Environment Award, carried out by the Government of the State of São Paulo, with the project “Solidarity Card Campaign”;
- Featured award at the XXV Congress of the Brazilian Society of Radiotherapy;
- HCFMUSP Awards:
 - Quali Juntos HCFMUSP Award for the project “The role of dentistry in preventing Ventilation-Associated Pneumonia (VAP) in the Intensive Care Unit (ICU)”;
 - Award at the 11th workshop “Glow of the eyes” by the Nutrition team in the category “Applause for you who makes it happen” with the project “Nutritional guidance in the waiting room”, and for the Nursing project “Promoting end-of-life care for patients in palliative care from a different perspective”.

NPS Highlight

- Icesp is in the quality excellence zone, according to the Net Promoter Score (NPS) methodology, used to measure the satisfaction of the Institution’s patients, with NPS 94. Throughout 2023, several areas reached NPS 100 – the highest score on the indicator. They were: Hematology, Psychology, Radiotherapy and Rehabilitation.

COMPREHENSIVE HEALTH CARE ACTIONS

Courses and Specializations open to the public

Opening of vacancies for courses in:

- Multidisciplinary specialization in oncology in adult health;
- Multidisciplinary specialization in intensive care with an emphasis on the health of adults with cancer;
- Specialization in dosimetry for radiotherapy;
- Specialization in hospital nutrition with an emphasis on oncology;
- Nursing specialization in stoma therapy;
- Course aimed at critically ill patients integrated into the National Oncological Care Support Program – PRONON.

Institutional Events

- Among the 36 events held throughout 2023, the following stand out:
- World Patient Safety Day, with live presentations;
- Activities in reference to the International Day of the Elderly;
- Holding of the 1st Conference in Surgical Patient, in the Anesthesiology discipline;
- Graduation of the class of residents in Clinical Oncology and Medical Physics;
- Friend's Day - Special event with the participation of patients, companions and partners;
- *II Oncological Dentistry Seminar at Icesp- FMUSP*;
- Organization of the 14th Octavio Frias de Oliveira Award;
- Holding the 11th edition of the patient parade, in support of the Pink October and Blue November campaigns;
- Talk Show "A tribute to the women of our lives" - International Women's Day;
- X Conference in Palliative Care at Icesp;
- Thrombosis associated with cancer: Ask your questions;
- XVII Conference in Urology in São Paulo;
- XIV Postgraduation Conference in Oncology at FMUSP/Icesp;
- "*International Symposium on Exercise and Cancer*" and the "3rd São Paulo Festival of Pink Paddlers";
- Icesp Run, run and walk for health, will take place on December 3. In its 7th edition, the run and walk for health brought together more than 2,500 people with the aim of highlighting the importance of practicing

regular physical activities to maintain health and prevent diseases;

- VII Molecular Oncology Course - Icesp HCFMUSP
- VII Pharmacovigilance Week;
- Awareness Week on the Rational Use of Antimicrobials.

Internal awareness campaigns

- Delirium Awareness Week, March 2023;
- IV Week of Educational Games with the theme "Founds in Space";
- Workshop - Protocol for Pain Management;
- Participation in the HCFMUSP Multidisciplinary Cancer League.

Milestones of the year 2023

- Visit by 30 professionals from the Oncoguia Institute to learn about the reference Assistance, Teaching and Research in oncology;
- Implementation of the "Solidarity Card" project designed by the Sustainability Committee for recycling and returning wheelchairs to the institute;
- Beauty Day for Icesp patients held in March, in celebration of International Women's Day;
- "Survive" exhibition at Sacomã Metro Station in reference to World Cancer Day, held in April;
- Celebration of Icesp's 15th anniversary in May;
- "Mar de Rosas" book launch: Beauty amidst the turbulence arising from breast cancer;
- Visit from Reed Jobs, son of Apple co-founder Steve Jobs;
- Residents of the Medical Residency Program in Clinical Oncology at Icesp achieved the best performance for the second consecutive year in the annual examination of the American Society of Clinical Oncology (ASCO);
- Celebration of 9 years of the Osasco Ambulatory Unit;
- Celebration of 13 years of Icesp Ambulatory Pharmacy;
- Presentation of the teams from the Nutrition and Dietetic Service and the Center for Quality and Patient Safety at Ganepão 2023;
- Start of activities at the new Center for Studies and Converging Technologies for Oncology and Precision (C2PO);
- Message projection on the FIESP building for International HPV Awareness Day;
- Technical visit by the team from the National

Oncological Care Support Program (PRONON) of the Ministry of Health;

• Visit of the Governor of the State of São Paulo, Mr. Tarcísio de Freitas;

• 3rd Round of the Leadership Training Track Course;

• In November, a partnership agreement was signed between Icesp and FIESP, which provides for the holding of events and educational campaigns in the city of São Paulo, with the aim of disseminating knowledge and information about health to the population;

• Rotary donation of five pieces of equipment to the Icesp Surgical Center.

Institutional Awareness Campaigns

In 2023, Icesp promoted several information campaigns and humanization actions, among which the following stand out:

• **Orange February Campaign:** leukemia awareness month, Prof. Dr. Eduardo Rêgo, physician coordinator of the Acute Leukemia Service at Icesp, published an article on leukemia cases in Brazil on the BBC News Brasil news portal;

• **Navy Blue March:** holding a conversation circle with the theme “Quality of life for patients undergoing colorectal cancer treatment”. The event was attended by specialists, patients and the general public to talk about the topic. And expert participation in the São Paulo City Council Journal;

• **Green July Campaign:** celebrated on July 27, the State and World Day for Awareness and Combating Head and Neck Cancer was marked by a day of activities in Paulista Avenue, in celebration of Green July. Icesp promoted, in partnership with FIESP, an action that included the participation of medical and multidisciplinary teams, impacting around 300 people with information on prevention, symptoms and early diagnosis;

• **Pink October:** during the month of October, several actions were carried out with the aim of sharing information and promoting awareness about breast cancer, as part of the Pink October campaign. On October 6 and 7, Icesp promoted the *International Symposium on Exercise and Cancer* and also the *3rd São Paulo Festival Of Pink Paddlers*, celebrating 10 years of Remama;

• **Blue November:** with the aim of raising awareness among the population and drawing attention to the prevention and early diagnosis of diseases that affect the male population, expanding the debate beyond prostate cancer. An awareness campaign was carried out on Line 4 Yellow of the Metro; awareness actions for patients and companions on the ground floor; and

the projection of information about Blue November on digital clocks spread across the streets of the city of São Paulo.

Institutional Projects

Throughout 2023, projects were also carried out using extra-budgetary resources, presented below:

• The renovation work on the Research Pharmacy, on the 10th floor, has been completed: to provide the highest levels of technical quality and accommodate growth projections for the coming years, the area is in the process of restructuring with an emphasis on modernizing the cold chain and handling infrastructure;

• Start of care at the Image Guided Intervention Center (CIGI): located within the Surgical Center, the project aims to expand the treatment capacity of patients and the execution of interventional procedures in curative or control oncological treatments, with less complex approaches. Invasive, fewer side effects and faster recovery times;

• Renewal of CT Scanners: with the acquisition of three new CT scanners, the project resulted in the renovation of part of the technology park. This means more equipment time is available for patients to use, reducing the exam queue and improving the quality of the images;

• Radiotherapy Upgrade: the project, completed and partially developed with financing through cooperation with the International Atomic Energy Agency (IAEA), allowed the updating of parts of three of the seven Linear Accelerators that currently make up Icesp's radiotherapy park;

• Update of the Clinical Research area: the Research Center, located on the 12th floor, will be able to incorporate new professionals and, after physical readjustment, will have an area dedicated to researchers. The objective is to meet the growth in clinical research demand predicted for the coming years;

• The renovation of the Cooling Towers has been completed: replacement of the Icesp air conditioning cooling towers, located at the top of the building where the Health Surveillance Center (CVS) of the São Paulo State Health Department – SES is located.

COMPREHENSIVE HEALTH CARE ACTIONS

Projects in partnership with SES-SP

•Activation of Full Capacity

Opened in 2008, Icesp has 490 beds, of which 85 are in the Intensive Care Unit. The Surgical Center has 18 operating rooms, including rooms for carrying out elective, ambulatory, emergency and robotic procedures.

At the beginning of 2023, Icesp presented a study to SES-SP that demonstrated the amount of financial resources needed to activate hitherto inactive assistance structures, as well as the expected impact of this movement on the Institute's contracted production.

Based on the data available in the Resource Consumption Calculator per Enrolled Patient, it was possible to estimate the number of additional patients that could be served by Icesp throughout the year thanks to the activation of full installed capacity (30 infirmary beds, 15 ICU beds and 3 additional operating rooms), as well as the impact of this additional service on the Institute's other structures.

The agreed assistance consideration was the enrollment of 1,250 additional patients (in addition to those already planned for enrollment throughout 2023) over a period of 12 months.

In order to significantly impact the queue of patients awaiting cancer treatment as a result of the COVID-19 Pandemic, almost half of the volume of additional patients was agreed for enrollment in the first three months of project execution (200 additional cases per month).

The remaining cases were evenly distributed over the subsequent nine months.

•Bone Marrow Transplant

Bone marrow transplantation (BMT) is a very important tool in reducing deaths caused by hematological malignancies. For many patients, transplantation represents the only chance for a cure.

Considering the progressive nature of oncological diseases, it is essential that BMT is performed in a timely manner, given the risk of disease progression and even a possible loss of the window for carrying out the procedure.

Until then, Icesp did not have a unit that allowed BMT procedures to be carried out, despite the high demand from oncohematology patients for this type of treatment.

For this reason, patients undergo the procedure at

the HCFMUSP Central Institute, which also serves non-oncological pathologies and patients referred by other services.

To meet this demand, the project to implement a TMO unit at Icesp in partnership with SES-SP, involves carrying out infrastructure works at the Institute.

Once the work is completed, the unit will have eight individual beds fully adapted to the needs of patients undergoing transplantation. The remaining beds will be dedicated to the specialty of oncohematology and other support specialties, in addition to a physiotherapy room, medical and nursing bays, pantry and changing room.

Access to the unit will be through pressurized antechambers, ensuring patient safety.

Lucy Montoro Rehabilitation Institute Management Contract

The Lucy Montoro Rehabilitation Institute (IRLM), located in the Morumbi neighborhood, was designed with the purpose of offering more complex care for people with disabling physical disabilities, through comprehensive and integrated rehabilitation treatment, with a technological structure and qualified personnel in diagnostic and therapeutic resources.

The health care promoted by IRLM is multidisciplinary and interdisciplinary in nature, specialized in the area



Children's Day Activity at Jardim Sul Shopping Mall

of Physical Medicine and Rehabilitation.

It seeks to promote the treatment of limitations caused by disability with the aim of achieving the patient's highest level of physical and functional independence, aiming at comprehensive rehabilitation and social inclusion, considering the characteristics and degree of disability presented.

The rehabilitation programs carried out covered the set of care offered to the patient, from their admission to the hospital until their discharge, depending on their disability, including all care and procedures necessary to obtain or complete the diagnosis and the therapies necessary for treatment. Rehabilitation treatments were carried out in ambulatory and hospitalization programs, exclusively through the SUS, and included: multidisciplinary screening, medical ambulatory (evaluations and returns), rehabilitation program, guidance groups, team meetings, experience in adapted sports, interdisciplinary therapeutic activities, therapeutic garden, educational activity for patients and caregivers, dressing ambulatory, technical aid ambulatory and neurochemical block ambulatory. It also provides family meetings, home visits and liaison with community resources when necessary.

To this end, it has a team made up primarily of: psychiatrists; consultant doctors in the specialties of internal medicine, cardiology, neurology and urology; social workers; psychologists; physiotherapists; occupational therapists; speech therapists; nursing professionals; nutritionists; physical educators, as well as technicians in orthotics and prosthetics and in therapeutic workshops.

The medical diagnostic and therapeutic support technologies that help support the Rehabilitation Programs available at IRLM are: virtual reality, urodynamics, robotics for upper and lower limbs, bladder biofeedback, balance system, cycle ergometer with functional electrical stimulation, cycle ergometer for upper limbs passive, exercise bike, exoskeleton associated with virtual reality, game therapy, 3d digitizer, laser (laser assisted static alignment reference), posture, ultrasound, bone densitometry, equipment for simulating hippotherapy and electrical bioimpedance.

For hospitalization rehabilitation programs, IRLM is a reference in the State of São Paulo, sharing with IMRea the position of the only health establishments in the State to offer this model of care. Patients with acquired brain injuries, spinal cord injuries and other paralysis were treated.

In the ambulatory, rehabilitation programs are primarily focused on the Children's macroprocess (up to 6 years and 11 months), including physical disabilities resulting from cerebral palsy, myelomeningocele, obstetric paralysis and congenital limb malformations. IRLM's assistance production, in 2023, was as follows:

ASSISTANCE PRODUCTION OF THE LUCY MONTORO REHABILITATION INSTITUTE - 2023	
Description	Amount
Hospital departures	592
Ambulatory care – Medical Specialties	5,689
Ambulatory care – Non-Medical Specialties	21,432
Dispensing of orthoses, prostheses and means of locomotion	4,265 (*)
Total	27,713

(*) Quantity for information only and not considered in the Total Assistance Production

COMPREHENSIVE HEALTH CARE ACTIONS

IRLM also promotes permanent support for the training of health professionals in the area of rehabilitation and carries out activities to contribute to the support and development of Teaching and Research in the area of disabilities.

IRLM supports the development of the Lucy Montoro Rehabilitation Network, offering technical assistance and administrative support, in addition to sharing structures and systems that will help the organization and coordination of this Network. This support is mainly formed by the Communication Advisory, Central Ombudsman's Office, Information Technology, Quality Management and Humanization of Assistance, Orthopedic Workshop, Wheelchair Technology Center, Bioengineering Laboratory, Teaching, Research, Regulation and Professional Qualification Programs that covers, among other actions, training, monitoring and development of specialized activities, whenever necessary, to guarantee the modeling of services, work routines and technical improvements, ensuring the sustainability of the RRLM Program.

In January 2023, the Psychology Service promoted actions with hospitalized and ambulatory patients to raise awareness about the importance of mental health, bringing "White January" to the Institute.

In February, the Social Service, in partnership with the Multidisciplinary team, developed the "Activity for Parents and Guardians", a space for exchanges and discussion, between care professionals and those responsible for patients at the Children's Ambulatory, on topics relevant to the rehabilitation process.

At the beginning of March, the Physiotherapy service developed, based on the recently celebrated Carnival, stations of activities and experiences for patients at the Children's Ambulatory, bringing a playful approach to the rehabilitation context.

In April, the Nutrition service developed the Food Therapy proposal, a clinical approach based on literature, which brings together tools and strategies that aim to minimize food refusals and increase adherence and flexibility in an adequate eating plan. Due to Easter celebrated in the same month, this theme is used as a facilitator.

That same month, IRLM promoted the launch event of the Tasy HTML5 project, which aims to modernize the system interface and, mainly, improve usability, promoting several improvements in the processes of recording and managing corporate information.

In May, the Psychology service developed an activity with patients from the Children's Ambulatory and their mothers (or guardians who play a daily care role with the patient), with a focus on promoting the stimulation

of cognitive, psychic, sensory and motor aspects in a playful way and shared, associating a therapeutic space for reflection and sharing experiences related to motherhood/care of children with disabilities.

In June, the Occupational Therapy service developed, based on the June Festival theme, games with a therapeutic purpose of stimulating functionality, for patients at the Children's Ambulatory.

In September, the Nutrition service carried out an activity entitled "Spring", which, through the production of stained glass windows and decorative pendants with patients and their guardians at the Children's Ambulatory, promoted sensorimotor experiences. The objective of the activity was to promote the desensitization of patients to some aversive foods, with increased acceptance.

Between September 11 and 15, the Psychology and Occupational Therapy teams developed thematic activities for hospitalized patients, celebrating "Yellow September", a campaign to value life and prevent suicide.

In October, the Physiotherapy service developed the Children's Day therapeutic activity in the Curumim space at Jardim Sul Shopping Mall, with the aim of offering a day of games for patients at the Children's Outpatient Ambulatory and their families associated with an activity of inclusion and proximity of IRLM with the community.

That same month, the adapted playground was inaugurated in the external area of the 3rd floor, expanding the space and therapeutic resources for use by therapists with patients at the Children's Ambulatory and also providing recreational and inclusive space, with guidance regarding the use of these existing resources in public areas of the city.

In November, the IRLM Board of Directors promoted, together with the multidisciplinary team, the second edition of 2023 of the "Activity for Parents and Guardians", a space for exchanges and discussion of topics relevant to the rehabilitation process between care professionals and those responsible for patients at the Children's Ambulatory. The central focus of this second meeting was the active construction, by parents and guardians, of a booklet presenting their child to family and friends, through their skills and describing difficulties and needs for assistance, for better interaction and inclusion.

On November 30, a collaborative painting workshop was held with hospitalized patients, led by the artist Marcos Paulo (Markinhos), who was a patient at the Institute. In December, the Occupational Therapy service promoted the Children's Ambulatory Christmas therapeutic activity, with the making of Christmas decorations and a space for reflection, conducted together with the Psychology service, regarding the year that is ending and the purposes for the new year.

Perdizes Institute Management Contract

Opened on November 8, 2022, where the Cotoxó Auxiliary Hospital previously operated, the Perdizes Institute is now a 23 thousand m² building, with 200 beds, of which 80 are intended for the treatment of patients with alcohol and drug addiction (A&D). The others are available for support from HCFMUSP in transition of care.

With the innovative and challenging purpose of creating a concept of care transition and assistance for alcohol and drug addicts, the Institute offers multidisciplinary services, including the areas of psychology, speech therapy, physiotherapy and social assistance. Regarding treatment against chemical dependency, the protocols of the Institute of Psychiatry (IPq) at HCFMUSP are followed.

The new Institute also arrives to expand the university tripod, that is, the university structure that provides for Research, Teaching and Extension activities (service to the population) with a fourth vector: Innovation.

With a collaborative and multidisciplinary character, IPer's activities have already begun involving several HCFMUSP departments. As a rear hospital, it combines more than ten specialties (cardiology, pediatrics, orthopedics, neurology, speech therapy, physiotherapy, occupational therapy, surgery, anesthesiology, forensic medicine, internal medicine, in addition to psychiatry). At IPer, cardiology develops activities in conjunction with psychiatry (smoking treatment).

Other disciplines are also already aligned in interdepartmental activities with Psychiatry, such as Pediatrics (20 of the 80 A&D beds are for children and adolescents – something unprecedented in Brazil), Rehabilitation Medicine (research on A&D in partnership with IMRea) and Anesthesiology (strong support in the teaching area). Other activities are planned to be integrated in the short term.

The management of IPer is the responsibility of FFM in its Management Contract model, as is already the case at Icesp and IRLM.



With 770 employees, IPer reflects the excellence of the USP Medical School, the Hospital das Clínicas and the University of São Paulo itself, and was created to become an example of advanced medicine, bringing the Brazilian population solutions to a problem that is getting worse every day and deserves all the attention.

On January 4, the first Integration and Excellence workshop was held at IPer. The activity is part of the Continuous Development Program that is being implemented at the Institute to develop people in socio-emotional and empathy skills, in addition to techniques.

The integration between the administrative and assistance areas is continuous and care for employees is regular, in the search for satisfaction in their daily lives. The intention is for this initiative to be reflected in the care and listening to the groups of patients who are cared for at the Unit.

During the workshop, professionals carried out group dynamics, important for multidisciplinary work and for the implementation of the Institute's processes.

At the end of February 2023, the first IPer hospitalization units were opened (Alcohol and Drug Treatment unit and palliative care unit), initially with 16 and 28 beds, respectively.

In May of the same year, the first Care Transition hospitalization unit was opened for treatment and network integration of patients treated at other HCFMUSP Institutes.

COMPREHENSIVE HEALTH CARE ACTIONS

At the end of the year, the Institute had 28 Palliative Care beds, 48 Alcohol and Drug Treatment beds and 56 Care Transition beds, totaling 132 beds in operation. For the first quarter of 2024, it is expected to open an additional 16 Alcohol and Drug Treatment beds, 14 Adult Care Transition beds and 14 Pediatric Care Transition beds, completing the implementation of the units provided for in the Management Agreement.

Below are some data on these units.

In the Alcohol and Drugs treatment ambulatory, more than 4,100 medical consultations were provided, including new and return appointments; and more than 4,600 individual and group consultations from the multidisciplinary team, made up of nurses, psychologists, social workers, speech therapists, occupational therapists, physiotherapists, physical educators and nutritionists.

In 2023, an average of 9,029 care procedures were carried out by IPer.

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ASSISTANCE PRODUCTION AT THE PERDIZES INSTITUTE – ADMISSIONS - 2023				
Unit	Hospital Departures	Occupancy rate *	Average Stay	Mortality rate
Palliative care	358	79.7%	13.7 dias	70.2%
Alcohol and drugs	177	81.3%	33.8 dias	0.0%
Care Transition	207	60.4%	21.6 dias	3.3%
Total	742			

(*) Considering the values from the last quarter of 2023, to avoid the influence of the implementation period

OTHER ASSISTANCE INITIATIVES

FFM develops, together with HCFMUSP, specific assistance projects

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OTHER ASSISTANCE INITIATIVES

Adult and Pediatric Kidney Transplant Project

Aiming at the assistance, by the HCFMUSP Urology Division, to be provided to 375 patients with Chronic Kidney Disease from Samaritano Hospital, who require medium and high complexity care, an Addendum to the Agreement between HCFMUSP, FFM and SES-SP was signed in 2021.

This project includes, in addition to providing care, the training of professionals from other services to meet the needs of these patients.

In 2023, there was continuity in transfer activities and patient monitoring; selection process for hiring professionals and team training; contracting the provision of services to enable the training of professionals in the SUS network; and training course class schedules.

During the period, 1,488 ambulatory visits and 701 hospital stays were provided, totaling **2,189 procedures**.

Protocol for the Treatment of Patients with Cleft Lip and Palate

The Craniofacial Surgery Protocol for the Treatment of Patients with Cleft Lip and Palate, developed by the Division of Plastic Surgery and Burns at ICHC, was made possible through donations from Smile Train, through FFM, started in 2008, which benefit patients with clefts labiopalatine problems that require reconstruction of malformations in the lip, nose, alveolus and palate, and their repercussions on speech and facial growth.

In 2023, 47 patients were treated in **55 surgical procedures**, distributed between primary cheiloplasties and palatoplasties and other secondary procedures.

In addition to the surgeries, **ambulatory care** was provided to around 16 patients per week, making a total of around 751 patients treated per year.

In 2023, a total of **806 procedures** (surgical and ambulatory) were carried out.

Student Financial Support Program – AFINAL

To help meet the limited financial resources that affect the performance of students with great academic potential, FMUSP has been offering, since 2007, the Afinal Scholarship, with resources obtained through donations from individuals and legal entities, intended exclusively to help students low income.

The Afinal Scholarship is part of the Strengthen a Student at FMUSP Project, a scholarship fund to increase the aid program, with resources from the Board of Directors of FMUSP, the Superintendence of HCFMUSP, FFM and FZ, in addition to donations from individuals.

To receive the benefit, the student goes through a rigorous selection process, with the presentation of documents that prove the family's socioeconomic situation and, through points, they are placed on a list in descending order of need.

There was a significant increase in students requesting financial support due to difficulties related to the pandemic. FMUSP, through FFM, provides an emergency aid grant to assist students who have undergone an assessment based on socioeconomic criteria and have proven vulnerable situations.

In 2023, **126 scholarships** were awarded.

Actions of the Emergency Care Center for Reconstructive Microsurgery and Hand Surgery of the HCFMUSP IOT (CEMIM)

The creation of the HCFMUSP IOT CEMIM was due to the large increase in the number of patients suffering from highly complex trauma. The phenomenon of motorcycle accidents, urban violence and chaotic traffic contributed to this situation.

Since the 1980s, numerous publications have demonstrated scientific evidence of the importance of treatment in the acute phase of trauma. Adequate primary treatment promotes better results, reduces the complication rate, the incidence of infection, the period of hospitalization and the cost of healthcare, in addition to reducing mortality and amputation rates related to trauma.

Aiming to continue these actions, which began in 2014, in 2023, an agreement was signed between HCFMUSP, FFM and SES-SP.

In 2023, **1,474 consultations** were provided ambulatory services and **1,087 surgeries**, totaling 2,561 procedures.

Várzea do Carmo Assistance Management Center

Through Agreements signed with SES-SP, FFM and HCFMUSP, the HCFMUSP Clinical Gastroenterology Service is responsible for the care of the Endoscopy and Hepatology Service of the Assistance **Management Center (NGA) Várzea do Carmo**, a specialty ambulatory in the SES-SP that operates in the Center of São Paulo.

The service filled a gap in the care of secondary patients by the SUS, resolving the majority of cases and referring the most complex cases to specialized treatment at HCFMUSP.

The Várzea do Carmo ambulatory is a reference for 39 municipalities in Greater São Paulo. Cases are referred from primary care services, such as AMAs, UBSS and emergency hospitals.

Aiming to continue these actions, which began in 2010, an Addendum to Agreement 015/2018 and a new agreement were signed in 2023, between SES-SP, HCFMUSP and FFM.

In 2023, FFM and HCFMUSP, in joint action, carried out **12,082 consultations, 8,023** of which were **exams** and **4,059 appointments**.

Emílio Ribas Institute

The **Emílio Ribas Institute of Infectious Diseases (IIER)** is one of the oldest public institutions in Brazil still active today. It is a hospital specialized in the treatment of infectious diseases with 100% care aimed at SUS users.

Currently undergoing a process of restructuring and modernization, its complexity is at a tertiary level, where it is possible to carry out appointments, laboratory and imaging tests, surgical procedures and hospitalizations in a single place.

In 2014, an agreement was signed between SES-SP, FFM and HCFMUSP, aiming to execute the IIER Management, Actions and Services Operationalization Project, which was concluded in the same year. In 2016, 2017 and 2020, new agreements were signed with SES-SP, aiming at the execution, by the ICHC Central Laboratory, of laboratory services.

In 2021, 2022 and 2023, Addendum Terms were signed to the agreement signed in 2020, guaranteeing the continuity of these laboratory services, which totaled **344,102 exams** in 2023.

Implementation of the State Network of High-Cost Medication Dispensing Centers – CEDMAC

The Coordinating Center of the State Network for Dispensing High-Cost Medication - CEDMAC is a partnership between SES-SP and HCFMUSP for dispensing immunobiological medications in Rheumatology.

Throughout 2023, the ICHC Rheumatology Division, together with the FFM, carried out the entire care process for patients using immunobiological therapy, from assessment, treatment indication and monitoring the application of medications to monitoring the functions of pharmacovigilance, pharmacoeconomics and efficacy.

Assistance was also provided regarding applications of zoledronic acid, dispensing of immunobiologicals and other infusional medications from HCFMUSP and non-face-to-face evaluations of requests from external patients, within the scope of administrative requests for non - standardized medication.

In 2023, the number of visits exceeded the proposed targets, despite periods of medication shortages by the Ministry of Health.

CEDMAC was the first public service in Brazil to achieve International Accreditation in this category, enabling access to international standards of excellence and innovation.

Aiming to continue these actions, which began in 2009, an Agreement was signed between HCFMUSP, FFM and SES-SP in 2023.

In 2023, an average of 1,190 routine monthly consultations were carried out, in joint action, by FFM and HCFMUSP, totaling an annual average of **14,208 consultations**.

OTHER ASSISTANCE INITIATIVES

Air Transport of the Organ Harvesting Team for Liver and Digestive Organ Transplants

Aiming to benefit HCFMUSP patients on the waiting list for digestive system organ transplants, private air transport services are used by teams from the HCFMUSP Liver and Digestive System Organ Transplant Division, when removing organs for transplants, located outside the capital of São Paulo.

The goals of this initiative, developed jointly by FFM and HCFMUSP, are to increase the number of harvests and transplants and reduce the average waiting time for the organ, ensuring the quality of the cold ischemia conditions recommended for transport.

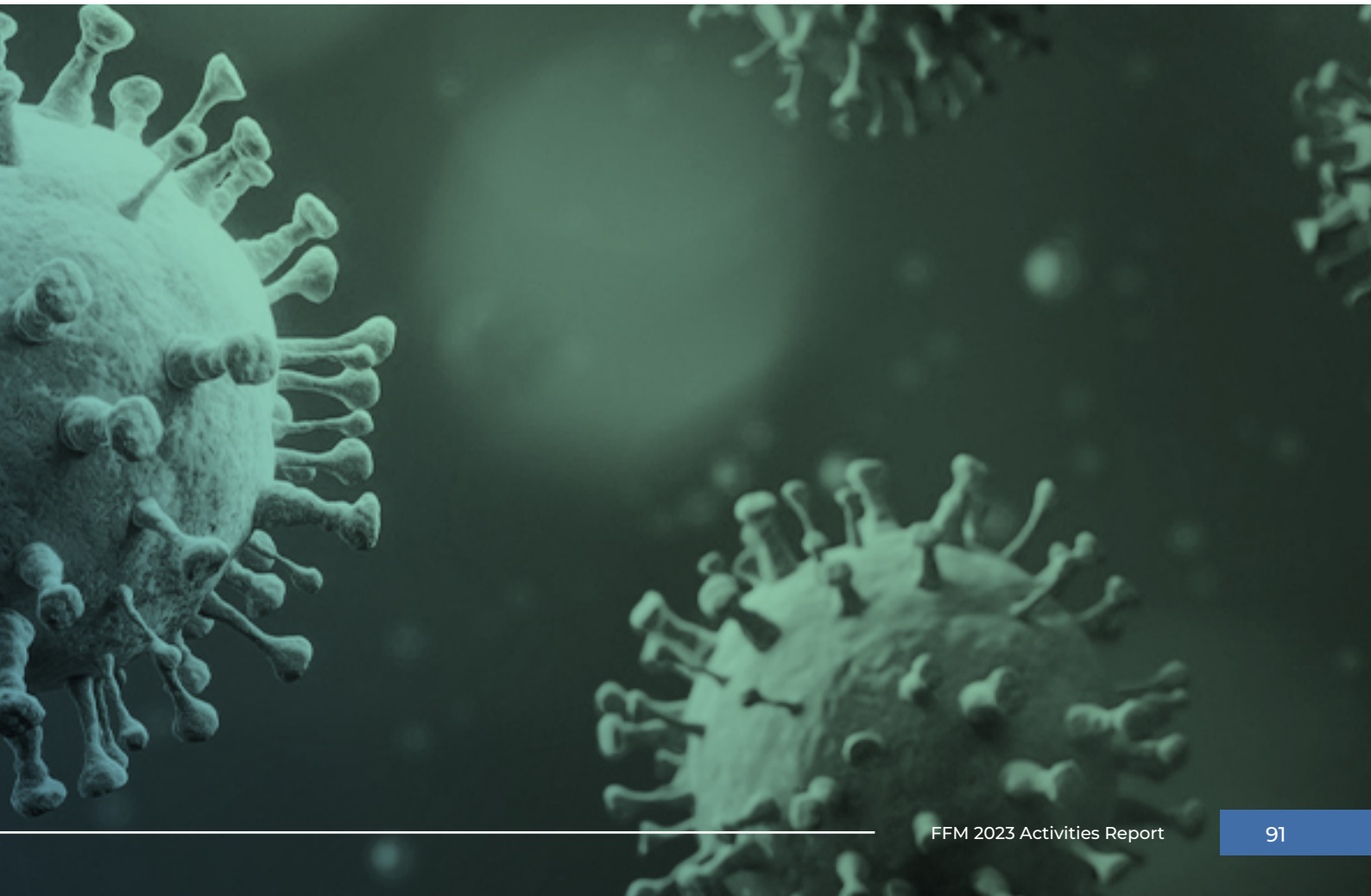
In 2022, an Agreement was signed between SES-SP, HCFMUSP and FFM, still in force in 2023, which allowed, in that year, four air transports of livers from four different cities in the interior of São Paulo.

The reduced demand is justified by the availability of commercial flights and/or the availability of team charters by the FAB.

COVID-19 RESPONSE PROJECTS

Since 2020, several initiatives have been developed aimed at understanding the SARS-CoV-2 virus, COVID-19, its effects, and impacts on human health

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COVID-19 RESPONSE PROJECTS

Title: Evaluation of the Efficacy of the Combination of Olfactory Training and Laser Therapy in the Olfactory Recovery of People with Sequelae of Covid-19

Institution: IMRea

Cooperation Term: Natura Cosméticos S.A., HCFMUSP and FFM

Objective: To investigate the effects of photobiomodulation therapy, before and after irradiation, with different doses of low-intensity laser, associated with olfactory stimulation.

Title: Assessment of Cellular Immunity in Samples from the Phase II Clinical Study of the ButanVac Vaccine Formulation / (Double-Blind, Randomized Phase II/III Clinical Trial with Vaccine Active Control to Safety Assessment, Immunogenicity and Consistency of Batches of the Booster Dose of the Covid-19 Vaccine [(Recombinant, Inactivated)] in Adults in Brazil)

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Contract: Butantan Foundation, FMUSP and FFM

Objective: To evaluate and compare the safety of the booster dose of experimental NDV-HXP-S vaccine and Comirnaty® Wyeth (or Pfizer/BioNTech) COVID-19 vaccine for individuals who have received four doses of any COVID-19 vaccine, regardless of past SARS-CoV-2 infection.

Title: Assessment of the Impact of Exposure to the Covid-19 Pandemic on Development and School Readiness of Brazilian Children: the Brain Games Cohort

Institution: FMUSP - Department of Pediatrics

Contract: Harvard Graduate School of Education and FFM

Objective: To evaluate, through the Strengths and Difficulties Questionnaire and the IDELA instrument, in the context of the pandemic, the mental health and school readiness of children aged 5 to 7 who live in the Butantã region, São Paulo, and participated in the Brain Games study.

Title: Evaluation of the Effectiveness, Safety and Immunogenicity of Booster Doses of Vaccines against SARS-Cov-2 in Patients with Rheumatic Diseases Autoimmune, Compared to Controls without History of Autoimmunity

Institution: ICHC - Division of Rheumatology

Cooperation Term: FFM, HCFMUSP and Todos pela Saúde Institute

Objective: To evaluate, in patients with autoimmune rheumatic diseases, the risk of infection hospitalization/death from Covid-19 after booster doses and the factors that affect the vaccine response; the distribution of SARS-CoV-2 variants among vaccinated infected people; the type and frequency of post-vaccination adverse events; and strategies to improve the vaccine response in non-responders, such as the temporary discontinuation of immunosuppressive drugs and the use of booster doses.

Title: Level of Acceptance of the Covid-19 Vaccine, and Assessment of Vaccine Efficacy and Circulation of SARS-CoV-2 Variants among Professionals Working at HCFMUSP and the General Hospital of Roraima

Institution: ICHC - Division of Infectious and Parasitic Diseases

Cooperation Term: HCFMUSP, FFM and Todos pela Saúde Institute

Objective: Verify the distribution of SARS-CoV-2 viral variants in incident cases of Covid-19 among healthcare professionals and assess whether these variants compromise the neutralizing capacity when treated with serum from individuals who have recovered from Covid-19 or have been vaccinated.

Title: Post-Covid-19 Syndrome - Cohorts of Covid-19 Vaccinated and Cohorts of Covid-19 Survivors (Non-Vaccinated)

Institution: InCor - Pulmonology Division

Cooperation Term: HCFMUSP, FFM and Todos pela Saúde Institute

Objective: To assess the medium/long-term physical, psychological and cognitive repercussions in patients with moderate and severe Covid-19; identify the incidences and associated risk factors of late attacks; and develop therapeutic intervention protocols to treat these late manifestations.

Title: Active Pharmacovigilance Study of Adverse Events Post-Vaccination with Adsorbed Covid-19 Vaccine (Inactivated) - Sinovac / Butantan Institute

Institution: CSE Butantã

Contract: Butantan Institute, CSE Butantã and FFM

Objective: To evaluate the safety of the Sinovac adsorbed vaccine and possible adverse events.

Title: Post-Infectious Pain Complications due to Coronavirus – Covid-19

Institution: ICHC - Division of Clinical Neurology

Agreement: Own resources

Objective: To assess the presence of sequelae and chronic pain in patients recovered from Covid-19.

Title: The Genetic Diversity of Coronavirus in Brazil

Institution: IMT

Agreement: FFM and Bill and Melinda Gates Foundation

Objective: To evaluate the particularities of dissemination and obtain frequency rates such as morbidity, mortality, lethality, percentage of asymptomatic carriers capable of transmitting the disease and seroprevalence in the healthy population to explain the epidemic and better propose action measures. The project was concluded in 2023.

Title: Interferon Lambda for Immediate Antiviral Therapy at Diagnosis (ILIAD): Phase Study II Randomized, Double-Blind, Placebo-Controlled, Multicenter to Evaluate the Effect of Peginterferon Lambda in the Treatment of Covid-19

Institution: ICHC - Division of Infectious and Parasitic Diseases

Contract: University Health Network, HCFMUSP and FFM

Objective: To evaluate the safety and tolerability of immediate treatment with Peginterferon Lambda 180 mcg on days 0 to 5 of hospitalization in inpatients with moderate Covid-19 and compare clinical outcomes with the control group.

Title: Phase I/II Clinical Trial for Dose Escalation, Safety Assessment and Clinical Response of the Anti-SARS-CoV-2 Serum Produced by the Butantan Institute

Institution: ICHC - Division of Infectious and Parasitic Diseases

Contract: Butantan Foundation, HCFMUSP and FFM

Objective: To evaluate the effectiveness of a dose of Anti-SARS-CoV-2 serum produced by the Butantan Institute, administered within five days of the onset of symptoms, to prevent serious illness. The project was concluded in 2023.

Title: Study to Evaluate the Evolution of SARS-CoV-2 Lineages and Establish Sequencing Laboratories to Support the Municipalities of the Capitals

Institution: IMT

Donation Contract: FFM and Magazine Luiza S.A.

Objective: Training of epidemiological surveillance laboratories, in different regions of the country, which can help to obtain greater genomic data that will allow evaluating the most prevalent viral profiles and the most frequent mutations and comparing results with other centers worldwide, allowing to better describe genomic plurality and evaluate how this impacts the dynamics of the Covid-19 epidemic in Brazil.

Title: Prevalence of Oral Manifestations in Covid-19 Positive Patients

Institution: ICHC - Division of Infectious and Parasitic Diseases

Cooperation Agreement: Latin American Association for Oral Health Promotion and Dental Research, HCFMUSP and FFM

Objective: To evaluate: a) the prevalence of oral manifestations in patients positive for Covid-19 and characterize the oral manifestations associated with it; and b) the oral microbiome of patients with Covid-19, comparing patients with or without oral lesions. The project was concluded in 2023.

COVID-19 RESPONSE PROJECTS

Title: The Impact of the Covid-19 Pandemic on the Health of Mothers and Children in the First 1000 Days of Life

Institution: FMUSP - Department of Preventive Medicine

Contract: Maria Cecília Souto Vidigal Foundation and FFM

Objective: Deepen the investigation of the impact of the Covid-19 pandemic in Brazil on various indicators of maternal and child health and health care for mothers and children in the first 1000 days of life. The project was concluded in 2023.

Title: Evaluate the Evolutionary Behavior of Hemostasis in SARS-CoV-2 Infection and Evaluate the Impact of Therapeutic Interventions of Anticoagulation and Antiplatelet Aggregation on the Clinical Outcomes of Infected Patients

Institution: ICHC Hematology, Hemotherapy and Cellular Therapy Service of the Hematology and Hemotherapy Division

Agreement: FFM and Ministry of Health

Objective: To contribute to the understanding of the pathophysiological response to SARS-CoV-2 infection; subsidize the development of new drugs or strategies to prevent unfavorable clinical outcomes in those infected; identify biomarkers to detect patients at greater risk of progressing to severe respiratory failure and/or thrombotic events; and identify drugs available in the SUS with potential clinical benefit in the fight against Covid-19.

Title: Investigation of Neutralizing Antibodies in SARS-CoV-2 Infection

Institution: ICHC - Division of Infectious and Parasitic Diseases

Agreement: Regeneron Pharmaceuticals, Inc., USP and FFM

Objective: To identify neutralizing antibodies against SARS-CoV-2 in patients diagnosed with Covid-19 or who received vaccine formulations against SARS-CoV-2.

Title: Impact of the Covid-19 Pandemic on the Spread of Antimicrobial and Biocide Resistance in the Environment from the Sewage of Health Units Receiving Patients with Covid-19

Institution: IMT

Agreement: FFM and Fondation Mérieux

Objective: To assess the impact of the Covid-19 pandemic on the spread of resistance to antimicrobials and biocides in the environment, especially sewage from healthcare facilities receiving Covid-19 patients, municipal sewage and slums, providing timely information on the potential risk of spread of antimicrobial resistance in ecology and its consequences for public health. The project was concluded in 2023.

Title: Verbal Autopsy in the Diagnosis of Covid-19

Institution: FMUSP - Department of Pathology

Agreement: FFM and Vital Strategies, Inc.

Objective: Development of strategies and modifications to the verbal autopsy questionnaire for Covid-19 diagnosis.

Title: Assessment of *ex vivo* and *in vivo* Cellular and Humoral Immune Response of DNA Vaccine Containing Multiple Epitopes for T Cell Epitopes against SARS-CoV-2 in BALB/c Mice

Institution: FMUSP - Discipline of Clinical Immunology and Allergy of the Department of Clinical Medicine

Agreement: FFM, FMUSP and Diomics Corporation

Objective: To establish a diagnostic test for Covid-19, through the detection of delayed cutaneous hypersensitivity against synthetic peptides, encoding SARS-CoV-2 T cell epitopes.

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Title: Phase 3, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Ad26.COVS.2 for Prevention of SARS-CoV-2-Mediated Covid-19 in Adults Aged 18 Years and Older

Institution: FMUSP - Departments of Infectious and Parasitic Diseases and Preventive Medicine

Agreement: FFM and Family Health International, with grant from the NIH

Objective: To evaluate the efficacy of Ad26.COVS.2 in preventing moderate to severe Covid-19 confirmed by molecular testing, compared to placebo, in adults seronegative for SARS-CoV-2.

Title: Phase III Double-Blind, Randomized Clinical Trial Controlled with Placebo for Efficacy and Safety Assessment in Health Professionals of the Covid-19 Adsorbed Vaccine (Inactivated) Produced by Sinovac

Institution: ICHC - Division of Infectious and Parasitic Diseases

Agreement of Cooperation: Butantan Foundation, HCFMUSP and FFM

Objective: To evaluate the general effectiveness of two doses of an adsorbed Covid-19 vaccine (inactivated) produced by Sinovac, in symptomatic individuals with virological confirmation of Covid-19, who work as healthcare professionals in units specialized in the treatment of Covid-19. The project was concluded in 2023.

Title: The New Colorimetric Diagnostic Methodology Based on RT-LAMP (Reverse Transcription Loop-Mediated Isothermal Amplification) for Nucleic Acid Detection and Its Applicability in Screening Diagnosis Using Saliva Samples from Contacts of Covid-19 Positive Individuals Among Athletes, Students, and Teachers in the Public School System of São Caetano do Sul Municipality.

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Partnership Term: Itaú Foundation for Education and Culture, FMUSP and FFM

Objective: To enable a practical and accessible diagnostic method for the SUS that allows the detection and screening of Covid-19 in the population, thus enabling control measures related to the pandemic. The project was concluded in 2023.

Title: Use of the Blood of Immunized Patients (Plasma) for the Treatment of Newly Infected with Coronavirus in Risk Situations Through Antibodies Created by Immunized Patients and Other Research on the Topic of the Use of Anticoagulants, such as Heparin, and the Discovery of New Drugs

Institution: ICHC - Hematology, Hemotherapy and Cellular Therapy Service of the Hematology and Hemotherapy Division

Donation Agreement: BRF S.A. and FFM

Objective: To assess the feasibility of using blood from immunized patients (plasma) for the treatment of newly infected individuals, as well as the development of research on the use of anticoagulants. The project was concluded in 2023.

Title: Study of the Prevalence of Coronavirus Covid-19 in the Blood Donor Population of Pró-Sangue Foundation Blood Center of São Paulo and Development of Passive Immunotherapy, through Plasma Transfusion from Convalescent Individuals in Patients with Severe Acute Disease

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Partnership Term: Itaú Foundation for Education and Culture, FMUSP and FFM

Objective: To evaluate the feasibility of producing hyperimmune serum from individuals with a confirmed PCR infection and seropositive donors, and to develop a test that allows for the expansion of epidemiological studies. The project was concluded in 2023.

Title: Reassessment of Mortality due to Natural Causes in the Municipality of São Paulo during the Covid-19 Pandemic

Institution: FMUSP - Department of Clinical Medicine

Partnership Term: Itaú Foundation for Education and Culture, FMUSP and FFM

Objective: Information on deaths is essential for understanding the pandemic and its demographic and social impacts; for this reason, it is mandatory to review the deaths that occurred during this period, using classic methods of demography and epidemiology, so that the exact profile of the impact of the coronavirus can be revealed. The study, completed in 2023, showed who died from Covid-19 or with Covid-19, between March 1 and October 31, 2020, among the deaths of residents of the city of São Paulo.

COVID-19 RESPONSE PROJECTS

Research projects selected in the “Call for Submission of Proposals No. 01/2020 - Research on Covid-19 FMUSP-HC System”

In 2020, when the Covid-19 pandemic reached Brazil, HCFMUSP launched the #HCCOMVIDA campaign to gather donations from civil society in order to equip its Hospital Complex with more resources and support healthcare professionals involved in combating the disease.

The campaign mobilized individuals, organizations and companies to contribute to meeting the demands raised by the HCFMUSP crisis management teams, in addition to subsidizing, through FFM, 16 scientific research projects from different specialties.

Developed by the Department of Pathology at FMUSP, the project “*Pathogeny of Covid-19: An Autopsy-Based Approach*” carried out, between July 2020 and December 2022, 180 minimally invasive autopsies on patients with Covid-19 to study the pathogenesis of the disease, in addition to performing molecular and histopathological analyses. The technique uses alternative means such as images, pulses and collection of small localized fragments.

As a result of this effort, more than 30 articles were published characterizing the pathophysiology of Covid-19, including studies that showed an increase in thrombi in the blood vessels of patients who died from the disease. This helped to validate the pathological basis of clinical observations, supporting the use of anticoagulants in specific cases. Additionally, reservoirs of the virus have been identified in organs other than the lungs, including salivary glands, oral tissues, and the heart. This process also led to the description of a multisystem inflammatory syndrome in children, called MIS-C, caused by the spread of the virus.

Another important development was the regulation of the use of minimally invasive autopsy during the pandemic period, which began to be recommended by the Ministry of Health throughout the national territory.

Of the 16 selected projects, the following **were concluded in 2023**:

- Genetic Susceptibility to Complications Associated with SARS-CoV-2 Infection in the Brazilian Population;
- Exploratory Study on Covid-19 in Pregnancy (umbrella project), Post-Covid-19 Fatigue Syndrome Subproject:

Assessment of Pregnant and Postpartum Women;

- Covid-19 and the Study of the Action of Anti-Hypertensive Drugs and Hydroxychloroquine on the Renin-Angiotensin System in Lung Tissue: An Experimental Study;

- Zebrafish in the Development of a Rapid Test for Covid-19;

- ACE2 Receptor Expression and Circulating ACE2 Levels in Pediatric Patients with Comorbidities and Covid-19; and

- CO-FRAIL Study: Association between Frailty and Adverse Outcomes in Middle-Aged and Elderly Adults Hospitalized for Covid-19.

The projects that **continued in 2023** were:

- Investigation of Neutralizing Antibodies in SARS-CoV-2 Infection;

- Adipose Tissue Contribution to the Cytokine Storm of Covid-19 Patients;

- Characterization of the Inflammatory Response in Patients with Severe Acute Respiratory Syndrome due to Covid-19;

- Pathogenesis of Covid-19: An Autopsy-Based Approach;

- Myocardial Viral and Inflammatory Profile in SARS-CoV2 Infection (VIPHeart-SARSCoV2);

- Randomized and Paired Clinical Trial Comparing Regional Anti-Coagulation Modalities in Continuous Veno-Venous Hemodialysis in Covid-19 Patients;

- Minimally Invasive Autopsy in Covid-19: Concordance between Post-mortem Computed Tomography and Histopathological Analysis of the Lungs;

- Impact of the Prone Position Maneuver on Patients with Covid-19 and Severe Acute Respiratory Distress Syndrome: A Multicenter Cohort Study;

- Brain Evaluation by Magnetic Resonance Imaging of Fatal Covid-19 in Minimally Invasive Autopsy; and

- Plasma Prognostic Markers of Severity for Covid-19.

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INNOVATION PROJECTS

The technological innovation projects developed by InovaHC and other initiatives focused on digital health and Artificial Intelligence leave a potential legacy in the innovation hub of the FMUSP-HC System

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INNOVATION PROJECTS

Title: Digital Health Innovation Program

Institution: InovaHC

Agreement: SES-SP, HCFMUSP and FFM

Objective: To conduct a proof of concept for four Telehealth initiatives – TeleUTI, TeleAPS, TeleSAP and TeleAME – Digital – with the purpose of being observational research instruments on a smaller scale at the three levels of health care to collect data and information. The analyzes of the model initiatives will allow evaluating the hypotheses of the research project, which treats Digital Health solutions as more efficient and higher quality processes for public health services in the State of São Paulo.

Title: Cooperation of Spine X-ray Data with Scoliosis Diagnosis

Institution: InovaHC

Cooperation Agreement (amendment): AIGORA GMBH, HCFMUSP and FFM

Objective: To share 1,600 reproductions of fully anonymized spine X-ray images, aimed at developing AI algorithms.

Title: Strengthening the In.Cube Innovation Program for the Development of Innovative Health Solutions

Institution: InovaHC

Technical-Scientific Cooperation Term (amendment): Central Nacional Unimed – Central Cooperative, HCFMUSP and FFM

Objective: To strengthen the In.Cube innovation program and improve the indicators related to the continuity of projects after the program in terms of licensing, entrepreneurship, or technological development outcomes with the support of funding agencies, such as FAPESP. The In.Cube program from InovaHC is an entrepreneurial training initiative focused on empowering researchers and collaborators from HCFMUSP and FMUSP in the development of innovative health products, services, processes, and business projects.

Title: Advanced Planning and Guidance for Emergent Embolizations

Institution: InRad

Agreement: GE Healthcare do Brasil, HCFMUSP and FFM

Objective: To conduct the clinical validation of the planning and guidance software in the field of prostatic artery embolization for the treatment of benign prostatic hyperplasia and cancer, and in other emerging embolizations, Embo ASSIST, which was developed by GE Healthcare do Brasil in partnership with HCFMUSP.

Title: Develop a Platform MVP Based on Federated Learning for Partners to Integrate their Models with the HC in a Secure and Fast Way for Validation of their AI Algorithms without having Direct Access to Hospital's Data

Institution: InovaHC

Contract: Siemens Healthcare Diagnósticos Ltda., HCFMUSP and FFM

Objective: Through this project, it will be possible to develop an integrative platform between health data and AI applications for analyzing this data, generating local models and without the need to share data between participants. Once local models are generated, their parameters will be aggregated, ensuring data privacy.

Title: Development of Software Based on Mobile Devices for Identification of Depression, Anxiety and Stress during Pregnancy: Digital Pregnant Project

Institution: IPq

Technical-Scientific Cooperation Term: DM Healthcare Tecnologia em Saúde Ltda., HCFMUSP and FFM

Objective: To develop an application to be installed on smartphones based on the analysis of voice biomarkers, facial expression analysis, cell phone usage patterns and metadata, to identify depression, anxiety disorders and pathological stress in pregnant patients.

INNOVATION PROJECTS

Title: Application of OPEN RAN Architecture Aimed at 5G Applications in the Context of Digital Health

Institution: InovaHC

Agreement: ABDI, HCFMUSP and FFM

Objective: To deploy and evaluate 5G technology using the concept of Open RAN architecture in real-world healthcare cases. Open RAN (Open Radio Access Networks) is a movement aimed at democratizing parts of the telecommunications network, thereby reducing dependence on large equipment manufacturers.

Title: 7 Tesla Resting State Denoising

Institution: InovaHC

Agreement: Siemens Healthcare Diagnósticos Ltda., HCFMUSP and FFM

Objective: The project, which ended in 2023, enabled the use of advanced AI techniques, specifically in pattern recognition, to better distinguish the signal caused by brain activity from the noise signal, allowing Functional Magnetic Resonance Imaging (fMRI) results in a less noisy state of rest, which will ultimately make it easier for the medical team to interpret the image.

Title: Clinical Decision Support Platform with Machine Learning in Medical Images

Institution: InovaHC

Agreement: Huawei do Brasil Telecomunicações Ltda., HCFMUSP and FFM

Objective: Through this project, which ended in 2023, it was possible to create a distribution and automation channel for Artificial Intelligence algorithms for medical images in Brazil.

Title: Cushion 4.0: Intelligent reactive seating system with clinical monitoring for wheelchair

Institution: IMRea

Agreement: Finep, HCFMUSP, Dilepé Ortopedia Técnica Ltda. and FFM

Objective: Development of Cushion 4.0, an intelligent system for clinical monitoring, which captures user variables and provides automatic adjustments to the wheelchair seat, preventing complications from long periods of sitting in the same position, such as low back pain and pressure ulcers.

Title: Predictive Monitoring in Person-Centered Care Using Smart Watches

Institution: IMRea and InovaHC

Cooperation Term: Samsung Eletrônica da Amazônia Ltda., HCFMUSP and FFM

Objective: The study, completed in 2023, was conducted with volunteer patients recovering from Covid-19. It collected vital signs and sleep data through smartwatches and validated their use, compared to gold-standard equipment, in the context of early intervention in medical practices.

Title: Conectar Saúde - Development of Technological Solutions Related to the Use of Communication, Collaboration, Cybersecurity and Internet of Things Technologies for Applications to Minimize Human Exposure to Contamination in Hospital Operations and Remote Assistance for Patients Being Treated at Home

Institution: InovaHC

Technical-Scientific Cooperation Term: CISCO Comércio e Serviços de Hardware e Software do Brasil Ltda., HCFMUSP and FFM

Objective: Implementation of a pilot project of the Conectar Saúde Platform, formed by three fronts that apply Revolution 4.0 technologies, in the fight against Covid-19. These fronts offer support to operations in the ICU, Infirmery and Remote Assistance for patients being treated at home.

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Title: RADVID-19 - Development and Implementation of an Intelligent Platform with Algorithms Capable of Identifying Coronavirus Markers in X-ray and Computed Tomography Images

Institution: InovaHC

Donation Term: Petrobrás - Petróleo Brasileiro S.A. and FFM

Objective: Combating the pandemic caused by the new coronavirus (SARS-CoV-2) with the use of Artificial Intelligence in the analysis of radiological exams, making this diagnosis more accurate, and the formation of a base of positive cases to support studies and research related to Covid-19.

Title: Open Innovation for the Health Sector in the Fight against Covid-19

Institution: InovaHC

Agreement: BID, HCFMUSP and FFM

Objective: Prospecting and testing innovative solutions and Research, Development and Innovation (R&DI) projects to combat and mitigate the consequences of the crisis caused by Covid-19.

Title: InterRad Platform – Integrated Imaging Test Request and Scheduling

Institution: InovaHC

Agreement: ABDI, HCFMUSP and FFM

Objective: To develop an Exam Request System that supports doctors in requesting the best exam for their patient, as well as a Scheduling System that automates the process of scheduling imaging exams with the use of artificial intelligence. Project concluded in 2023.

Title: Industry 4.0 Technologies Applied to the Patient Monitoring Process

Institution: InovaHC

Agreement: ABDI, HCFMUSP and FFM

Objective: To conduct, through a pilot project, a study on Industry 4.0 technologies applied to the process of patient monitoring throughout their entire journey with the hospital/doctor, including pre-admission, admission, and post-discharge. Project concluded in 2023.

Title: Application of Industry 4.0 Technologies in Smart Rehabilitation Equipment Connected to the LucyIO Platform

Institution: IMRea

Agreement: ABDI, HCFMUSP and FFM

Objective: To conduct a study on the application of Industry 4.0 technologies in medical equipment, using the production process of an intelligent rehabilitation device (cycle ergometer) connected to a digital rehabilitation platform – LucyIO Platform. Project concluded in 2023.

INNOVATION PROJECTS

Title: Use of Artificial Intelligence and Mobile Application to Estimate Vaccination Coverage Protection

Institution: USP Innovation Center

Agreement: FFM and Ministry of Health

Objective: Development of an application that will use Artificial Intelligence to digitize the population's Vaccination Records; inform the health worker which vaccines a person still needs to receive; and send the collected information to the Government database, SI-PNI.

Title: Developing and Testing the Motherly App: An Automated Intervention to Promote Mental Health in Young Mothers

Institution: FMUSP - Department of Psychiatry

Contracts: FFM with the Maria Cecília Souto Vidigal Foundation, Grand Challenges Canada and The Open Society Policy Center

Objective: Through this study, which ended in 2023, it was possible to develop an application (app) to monitor pregnant women, in order to guarantee the mental health of young mothers. The app was installed on patients' smartphones, so they could report their daily lives and receive supportive messages that helped ensure their well-being.

The project sought to obtain data that would either prove or disprove the improvement of the patients' mental health and tracked mothers from the second trimester of pregnancy until the child's first three months, also measuring the baby's development at the beginning of life.

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Title: Systematization of the Xenotransplantation Method in Brazil

Institution: ICHC – Division of Clinical Immunology and Allergy

Scientific Technical Cooperation Term: EMS S.A. and FFM

Objective: Due to the progressive increase in candidates on the organ waiting list, xenotransplantation (transplantation between different species) offers the best perspective for meeting this need. Given the lack of additional organs in Brazil and the new perspectives for the clinical application of porcine xenotransplantation, this project aimed to systematize this new methodology in Brazil. Project was concluded in 2023.

RESEARCH PROJECTS

In addition to playing an important role in clinical research, projects are fundamental for the training of human resources and contribute to the generation of financial resources, which enable investments in the area



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RESEARCH PROJECTS

Title: Phase 2 Study to Evaluate the Activity of Agnostic Therapy in Participants with Advanced and/or Metastatic Refractory Rare Solid Tumors

Institution: Icesp

Agreement: Finep, HCFMUSP and FFM

Objective: Despite the high collective occurrence of rare cancers, there is a lack of basic scientific research, clinical trials and approval of new therapies. A promising strategy to improve this scenario is the development of targeted agnostic therapies, which are indicated according to the presence of tumor biomarkers. Therefore, the project will evaluate new targeted treatment options for patients with rare advanced or refractory metastatic tumors with high expression of PD-L1.

Title: Integrated Approach to the Diagnosis of Rare Genetic Diseases: From Multiomics to Prevention

Institution: ICR

Agreement: Finep, HCFMUSP and FFM

Objective: a) Assessment of the increase in the rate of molecular diagnosis with the integrated use of different genomic analyzes; b) Estimation of the prevalence of rare genetic diseases with recessive inheritance based on genomic data available in Brazilian population, aiming to establish screening strategies for heterozygotes to prevent new cases; and c) Non-directive genetic counseling, with guidance on follow-up, clinical-therapeutic management of the individual, risk of recurrence in the family and options related to the reproductive future of the couple in question, with the possibility of carrying out pre-implantation diagnosis by embryo selection for selected couples.

Title: Biomarkers and Cellular Mechanisms of the Effect of Mesenchymal Stem Cells in the Cerebrospinal Fluid of ALS Patients Responsive to Treatment

Institution: ICHC – Division of Clinical Neurology

Agreement: Finep, HCFMUSP and FFM

Objective: Amyotrophic Lateral Sclerosis (ALS) is a rapidly progressing degenerative motor neuron disease that affects adults, leading to generalized progressive paralysis, loss of speech, swallowing, breathing and death. Without specific treatment, the disease causes great suffering. Studies involving new drugs have not even managed to promote improvements in the quality of life of ALS patients. This project seeks to identify mechanisms and molecular targets related to clinical responses in subjects with ALS.

Title: Global Scale for Early Development (GSED): A Study on the Definition of Norms and Standards, and Individual Assessment

Institution: FMUSP – Child Development Center (CEDI)

Agreement: Maria Cecília Souto Vidigal Foundation and FFM

Objective: To develop a D-score (developmental) distribution using GSED instruments, standardized by age, to learn how children under 36 months with minimal restrictions for adequate development can develop. Furthermore, it aims to evaluate GSED measurements for their diagnostic accuracy in i) individually identify children with neurodevelopmental impairment (NDI) present at the time of testing (between 3 and 36 months); and ii) individually predict children under 36 months at risk of developing NDI in the future at ages between 35 and 60 months.

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Title: Randomized, Double-Blind, Placebo-Controlled Clinical Trial of the Safety and Efficacy of Tecovirimat in the Treatment of Monkeypox Virus Disease in Humans - STOMP

Institution: FMUSP – Department of Infectious and Parasitic Diseases

Agreement: The Regents of the University of California, San Francisco, with grant from the NIH, and FFM

Objective: To evaluate the use of Tecovirimat for the treatment of Monkeypox Virus (HMPXV) disease. This study will also include a cohort of individuals with severe HMPXV, as defined by the protocol.

Title: Determining the Impact of Provision of Smart Cell Phones to Assistive Technology Users in Brazil

Institution: IMRea

Agreement: Global Disability Innovation (GDI) Hub C.I.C and FFM

Objective: To assess the impact of providing smartphones to assistive technology users with hearing or visual impairments. Participants will receive training to acquire digital skills, enabling them to better understand the accessibility features available on their smartphones and practice using these features in various situations.

Title: Temporal Assessment of Pulmonary Fibrosis in an Experimental Model of Systemic Sclerosis (SSc) induced with Type V Collagen (Col V)

Institution: FMUSP - Rheumatology Discipline of the Department of Clinical Medicine

Agreement: Donation from the Research Support Fund of the Brazilian Society of Rheumatology

Objective: Considering the importance of therapeutic management in patients with SSc, especially with the development of new antifibrotics, the research aims to establish the evolution of pulmonary fibrosis in the SSc model, induced by immunization with Col V, to evaluate new therapeutic approaches and clarification of the formation of pulmonary fibrosis in SSc.

Title: Neuropathological Findings in Elderly People with *Delirium*: A Post-Death Study

Institution: FMUSP - Geriatrics Discipline of the Department of Clinical Medicine

Agreement: Letter approved by Network for Investigation of Delirium

Objective: *Delirium* is a highly prevalent neuropsychiatric syndrome affecting a significant number of hospitalized elderly people, particularly those with a history of cognitive impairment. Understanding the neuropathological changes associated with *delirium* is essential to improve understanding of this syndrome and its mechanisms. The project aims to clarify the complex interaction between *delirium* and pre-existing neuropathological characteristics, as well as the role of cognitive reserve in this phenomenon.

Title: Assessment of the Impact of Spironolactone Use on the Integrity of the XPB-1 Subunit of the TFIIH Complex *in vivo*

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Agreement: Own resources

Objective: This is a proof-of-concept study, which could, for the first time, demonstrate *in vivo* the biological effect already identified *in vitro* studies of inhibition of a TFIIH enzyme complex, involved in the transcription of HIV genes, by Spironolactone.

Title: Transmission of ESBL *E. coli* to Humans Through Exposure to Pets

Institution: IMT – FMUSP

Agreement: Fondation Mérieux and FFM

Objective: To assess the risk of transmission of ESBL *E. coli* in pregnant women due to exposure to pets (dogs and cats), in order to identify possible routes of circulation of antimicrobial resistance and look for genomic characteristics that may be associated with each host.

RESEARCH PROJECTS

Title: Early Detection and Assessment of Neuroinflammation and Damage Associated with HTLV-1

Institution: IMT - FMUSP

Agreement: Imperial College of Science, Technology and Medicine, FMUSP and FFM

Objective: To identify plasma markers that can detect neuroinflammation and neuronal damage early in people living with human T-lymphotropic virus type 1 (HTLV-1).

Title: Rehabilitation in Cerebral Vascular Accident (CVA): A Systematized and Hierarchical Program for the Unified Health System

Institution: IMRea

Agreement: Ministry of Health through PRONAS/PCD and FFM

Objective: To hierarchize the current stroke rehabilitation treatment in the SUS, combining conventional treatment with cognitive guidance, segmental desensitization using paraspinal block or LASER, radial and focal shockwaves, and treatment with functional electrical stimulation.

Title: People Living with HIV/AIDS 50 years of age or older on Dual Therapy - Study PLHA50-TD

Institution: FMUSP - Department of Preventive Medicine

Agreement: Own resources

Objective: Its objective is to evaluate antiviral and immunological effectiveness, quality of life, depression and some geriatric syndromes in PLWHA and people aged 50 or over living with HIV/AIDS.

Title: Genomic Admixture Effects on Neuropathology and Cognition: APOE and Beyond

Institution: FMUSP Geriatrics Discipline of the Department of Clinical Medicine

Application: Alzheimer's Association and FFM

Objective: To identify African ancestry (AFR) and admixed genomic variants associated with Alzheimer's disease (AD) based on the hypothesis that local African ancestry (LA) of the APOE gene, APOE-associated genes, and other AD-associated genes modulate risk for DA.

Title: PrEP Implementation among Adolescent Key Populations in Brazil

Institution: FMUSP - Department of Preventive Medicine

Agreement: The Board of Trustees of the University of Alabama for the University of Alabama at Birmingham, with grant from the NIH, and FFM

Objective: To conduct a qualitative study on adolescents' perceptions regarding the provision of PrEP (Pre-Exposure Prophylaxis) in community services and prescribed by nurses; to include the on-demand regimen among the oral PrEP modalities offered; and to perform the socio-historical analysis of the construction of PrEP1519.

Title: Study on the Transdisciplinary Ambulatory for Gender Identity and Sexual Orientation (AMTIGOS-IPq-HCFMUSP) to Evaluate the Impact of Healthcare provided by a Specialized Transdisciplinary Team on the Physical, Mental Health and Quality of Life of Transgender Children and Adolescents

Institution: IPq - Transdisciplinary Ambulatory for Gender Identity and Sexual Orientation (AMTIGOS)

Agreement: Ministry of Health and FFM

Objective: Evaluation of the improvement in the quality of life of AMTIGOS users who are already receiving care, including data on the quality of life of patients and families, physical health (especially growth, nutritional and metabolic disorders) and mental health (especially anxiety and depression).

RESEARCH PROJECTS

Title: Evaluation of Retinal Scan Using the Midriatic Retinal Hyperspectral Camera (MHRC) from Optina Diagnostics to Detect Probable Brain Amyloid Condition Determined by PET Imaging

Institution: InRad

Contract: Optina Diagnostics, Inc. and FFM

Objective: To identify features in retinal hyperspectral images that correlate with amyloid PET images suggestive of Alzheimer's disease.

Title: Cellular and Molecular Mechanisms of Bladder Dysfunction Associated with Obstruction/Mechanisms of Contractile

Institution: ICHC - Urological Clinic Division

Agreement: Thomas Jefferson University, with grant from the NIH, and FFM

Objective: To investigate the cellular and molecular bases of structural and functional changes in the bladder in response to infravesical obstruction caused by benign prostatic hyperplasia and neurological diseases that affect the spinal cord, causing neurogenic bladder.

Title: Economic Burden of Severe Illness of Respiratory Syncytial Virus in Latin American Babies and Children from Argentina, Brazil and Colombia

Institution: ICr

Letter of Agreement: Fundación Infant, from Buenos Aires, and FFM

Objective: To estimate the direct (medical and non-medical) and indirect costs linked to acute illness caused by Respiratory Syncytial Virus (RSV) in hospitals and nursing homes in Argentina, Brazil and Colombia and compare them with those not resulting from RSV.

Title: US-South America Initiative for Genetic-Neural-Behavioral Interactions Neurodegenerative Research in Human

Institution: HCFMUSP - Department of Neurology

Agreement: The Regents of the University of California, San Francisco and FFM, with a grant from the Rainwater Charitable Foundation and Alector, LLC

Objective: To identify the unique genetic and socioeconomic factors that drive the presentation of Alzheimer's disease and frontotemporal dementia in South American countries compared to the US.

Title: ELEA - Longitudinal Study of HIV and Aging in Brazil

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Agreement: Vanderbilt University Medical Center and FFM, with grant from the NIH

Objective: The multicenter study (São Paulo, Rio de Janeiro and Bahia) evaluates the impact of endemic co-infections on the emergence of chronic non-communicable diseases and geriatric syndromes. Furthermore, the study measures and determines clinical and laboratory predictive factors for the occurrence of these comorbidities.

Title: HOPE – HIV Obstruction by Programmed Epigenetics

Institution: LIM 60

Agreement: J. David Gladstone Institutes and FFM

Objective: To contribute to the understanding of the functioning of NKT cells in disease caused by HIV-1 and how these cells can contribute to the innate defense against HIV-1 infection.

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Title: Preclinical Brain Injuries Related to Alzheimer's Disease and Other Neurodegenerative Diseases

Institution: LIM 22

Application: Alzheimer's Association and FFM

Objective: To evaluate the clinical and anatomopathological profile of a large number of individuals undergoing necropsy at the SVOC, destined for an interdisciplinary research network that may cover aspects of normal aging and related chronic-degenerative diseases.

Title: NutriNet-Brasil Cohort – Food and Chronic Noncommunicable Diseases (NCDs)

Institution: FMUSP – Department of Preventive Medicine

Agreement: FFM, FMUSP and Fellows of Harvard College

Objective: To prospectively study the influence that diet quality has on morbidity and mortality due to NCDs in Brazil, including particularly obesity, diabetes, high blood pressure, dyslipidemia, myocardial infarction, stroke and breast, prostate and colon cancer.

Title: Rare De novo and Inherited Variations in the Genome of Patients with Obsessive-Compulsive Disorder

Institution: IPq

Agreement: Baylor College of Medicine, with grant from the NIH, Icahn School of Medicine at Mount Sinai and FFM

Objective: To investigate genomic risk variations for the development of Obsessive-Compulsive Disorder and related disorders in patients and families. Genomic and clinical variant correlation analyses will also be conducted (e.g., comorbidities and symptom severity).

Title: Translational Study of the Metabolic and Anti-Inflammatory Effects of Formulas Based on Apple and Pomegranate

Institution: LIM 26

Research Agreement: Companhia dos Temperos Ltda., USP and FFM

Objective: To demonstrate the results and mechanisms associated with the effects on metabolism and control of chronic inflammation of formulas containing pomegranate or apple vinegar.

Title: Validation of the Global Development Scale (GSED) for the Brazilian Context – Phase 2

Institution: HU-USP

Agreement: World Health Organization (WHO) and FFM

Objective: To create an instrument for global assessment of child development to be used worldwide.

Title: Validation and Implementation of a Screening Strategy for Carbapenem-Resistant Enterobacteriales Colonization Based on a Rapid Immunochromatographic Test

Institution: ICHC - Hospital Infection Control Group

Agreement: FFM, HCFMUSP and Jhpiego Corporation

Objective: To evaluate the sensitivity, specificity, positive and negative predictive values and accuracy of an immunochromatographic test without plate cultivation, in comparison with a commercial multiplex PCR directly from clinical samples.

Title: Is a Synthetic Pheromone Trap a Sensitive Surveillance Tool for Sand Fly Vectors of Leishmaniasis?

Institution: FMUSP – Department of Preventive Medicine

Agreement: FFM, FMUSP and University of Warwick

Objective: The project, which ended in 2023, collected data on vector control to contain the transmission of *Leishmania infantum*. It presented the entomological efficacy of the synthetic pheromone in relation to routine capture methods, to demonstrate its sensitivity as a surveillance trap.

Title: Profile of Autoantibodies Against the Blood-Brain/Nerve Barrier in Chronic Inflammatory Demyelinating Central and Peripheral Diseases

Institution: LIM 62

Agreement: FFM and Ministry of Health

Objective: With this study, it will be possible to develop tools for the diagnosis and prognosis of patients with acquired inflammatory demyelinating diseases.

RESEARCH PROJECTS

Title: Home Transcranial Direct Current Stimulation Associated with Behavioral Therapy by Smartphone Application in the Treatment of Major Depressive Disorder: A Randomized, Double-Blind, Placebo-Controlled Clinical Trial

Institution: IPq

Agreement: Ministry of Health and FFM

Objective: The use of app therapy could introduce therapeutic alternatives for depression that do not rely on medications, while enhancing patients' engagement and autonomy in relation to treatment, improving their adherence, and reducing the stigma associated with the disease.

Title: Application of Meditation Practice in Neuropsychiatry: From Neurobiology to Adjuvant Treatment in Epilepsy and Psychogenic Non-Epileptic Seizures (PNES)

Institution: IPq

Donation Term: Mahle Institute and FFM

Objective: To evaluate the effectiveness of applying Raja Yoga breathing and meditation techniques as a treatment for patients with epilepsy and patients with PNES, within a three-month follow-up period after starting treatment.

Title: São Paulo-Minas Gerais Center (SaMiTrop) for the Treatment of Chagas Disease

Institution: IMT

Contract: FFM and the NIH

Objective: To identify methodologies and tools that allow increasing the number of patients diagnosed with Chagas Disease, so that treatment can be offered and strategies and biomarkers identified that make it possible to improve patient monitoring and assist in the evaluation of new treatment candidates.

Title: Assessment of the Inflammasome Pathway Profile in Patients with Sickle Cell Anemia in Different Treatment Regimens

Institution: ICHC - Hematology, Hemotherapy and Cellular Therapy Service of the Hematology and Hemotherapy Division

Agreement: FFM and Ministry of Health

Objective: To describe the monocyte response pattern in patients with Sickle Cell Anemia, with different treatment regimens, with an emphasis on immunophenotyping, and compare it with healthy donors and between treatment groups.

Title: The Effectiveness of On-Demand Sexual Pre-Exposure Prophylaxis in a Cohort of Cisgender Men who Have Sex with Men, Transsexual Women and Transvestites

Institution: FMUSP – Department of Preventive Medicine

Letter of Agreement: PAHO and FFM

Objective: To evaluate the effectiveness of on-demand PrEP, taking as reference the rates: incidence of HIV infection, retention and adherence to the regimen, and the occurrence of adverse events that lead to interruption of the use of prophylaxis.

Title: Clinical Evaluation of the Antidepressant Effect of the Use of Probiotics in Bipolar Disorder and Possible Mediating Effects of Systemic and Intestinal Inflammatory Markers of the Microbiota

Institution: IPq

Agreement: Milken Institute and FFM

Objective: To evaluate the effect of probiotic supplementation on improving depressive symptoms in patients with Bipolar Disorder, along with monitoring the levels of intestinal inflammation and serum biomarkers.

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Title: Virus Surveillance and Discovery in Brazil

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Agreement: Abbott Laboratories, FFM and FMUSP

Objective: To understand the extent of viral diversity in human populations and track new viral strains.

Title: Ultra-Processed Food Consumption and Cancer Incidence and Mortality: Estimating Current and Future Projected Burdens in Europe Considering Different Scenarios

Institution: FMUSP – Department of Preventive Medicine

Agreement: Imperial College of Science, Technology and Medicine and FFM

Objective: To investigate and evaluate the associations between the consumption of ultra-processed foods and the risks of developing cancer, cardiometabolic diseases and mortality.

Title: Intervention for the Implementation of Continuous Care Monitoring for People Living with HIV/AIDS

Institution: FMUSP - Department of Preventive Medicine

Agreement: ViiV Healthcare UK Ltd, FMUSP and FFM

Objective: To test an intervention to improve the monitoring of ongoing health care for people with HIV infection linked to SUS services, with the hypothesis that the intervention will bring improvements to the Clinical Monitoring System, comparing its effects with two control groups of services.

Title: Quantitative Assessment of Intracranial Pressure Curves Obtained by a Non-Invasive Method in Traumatic Brain Injury Patients

Institution: ICHC – Division of Clinical Neurology

Contract: Braincare Development and Technological Innovation S.A. and FFM

Objective: To evaluate intracranial pressure and compliance with a new non-invasive measurement method in patients suffering from Traumatic Brain Injury of all severity.

Title: Multicriteria Decision Analysis for Support Technology Incorporation Processes in Oncology

Institution: Icesp

Contract: FFM and Roche (Notice “Conexão Hárpia”)

Objective: To develop a multicriteria decision analysis method to support prioritization and resource allocation processes for high-cost cancer treatment technologies in a hospital context. Project concluded in 2023.

Title: ARBOBIOS: Translational Study for Identification, Characterization and Validation of Diagnostic Tests and Severity Markers in Arboviruses

Institution: FMUSP – Department of Infectious and Parasitic Diseases

Contract: bioMérieux S.A., bioMérieux Brasil, FFM and FMUSP

Objective: To identify and validate prognostic biomarkers for diseases caused by Dengue Virus (DENV), Chikungunya (CHIKV) and Zika (ZIKV), which allow early stratification of the risk of developing the evolutionary forms of diseases that represent greater morbidity and mortality: severe dengue (GD), post-Chikungunya chronic inflammatory joint disease (post-CHIKV-CIAD), and congenital ZIKV syndrome (CVS) with neurological disease, respectively.

Title: Alzheimer ‘s Disease in the Olfactory Epithelium: Correlation with the Environment

Institution: LIM 5

Application: Alzheimer’s Association and the FFM

Objective: To research the effects of environmental pollution, quality of life indexes and development of Alzheimer’s disease in residents of the city of São Paulo. The project was concluded in 2023.

Title: Genomics of the Brazilian Population

Institution: CEGH-CEL

Agreement: Own resources

Objective: To enable the increase in genotyped samples from the Brazilian population, as well as the organization of data generated with the help of the CEGH-CEL infrastructure, so that it can be shared with other researchers.

RESEARCH PROJECTS

Title: Veterinary Clinical Study Using ZIKA Virus (ZIKV) as Oncolytic Therapy Against Canine Spontaneous CNS Tumors

Institution: CEGH-CEL

Agreement: Own resources

Objective: To evaluate the safety and efficacy of ZIKV as an oncolytic agent in canine patients with intracranial tumors inoculated with the virus, advancing the understanding of a possible new therapeutic form for dogs and humans with CNS (Central Nervous System) tumors.

Title: Clinical Experiment Double-Blind Randomized with Active Controls for Safety Assessment, Immunogenicity and Consistency of Immune Response by Batches of the Tetravalent Influenza Vaccine (Inactivated and Fragmented) from the Butantan Institute

Institution: ICHC – Division of Infectious and Parasitic Diseases

Contract: Butantan Foundation, HCFMUSP and FFM

Objective: To verify if the quadrivalent vaccine produced by the Butantan Institute is not inferior in immunogenicity and is as safe as the trivalent vaccines from the same producer.

Title: Treatment of Depression in the Elderly with Repetitive Transcranial Magnetic Stimulation by Theta-Burst Method

Institution: IPq

Agreement: The Chancellor Masters and Scholars of the University of Oxford and FFM

Objective: Development of local expertise in the use of state-of-the-art neuroimaging techniques and the exploration of markers of response to magnetic stimulation treatment in geriatric depression. The project was concluded in 2023.

Title: Treatment of Depression in the Elderly with Repetitive Transcranial Magnetic Stimulation using the Theta-Burst Method: Clinical Trial, Randomized, Double-Blind

Institution: IPq

Contract: NARSAD – The Brain and Behavior Research Fund and FFM

Objective: To verify whether the Theta-Burst Stimulation method is a therapeutically effective alternative with few side effects in the treatment of depression in elderly patients who cannot tolerate the use of antidepressants or have proven refractory to this type of medication.

Title: Detection of Iron and Protein Aggregation by Magnetic Resonance Imaging (MRI) for Assessment of Alzheimer's Disease Pathology and Progression: Voxel-by-voxel Histological Validation

Institution: InRad

Agreement: The Regents of the University of California – Berkeley, with grant from the NIH, and FFM

Objective: To validate by histology the MRI method for detecting iron and protein accumulation, with the aim of evaluating the neuropathological progression associated with Alzheimer's disease for future clinical use.

Title: BERTHA: Interstitial Lung Disease Associated with Rheumatoid Arthritis: Characterization of Lung Disease Progression

Institution: ICHC – Division of Rheumatology

Term of Agreement: Syrian Charitable Association – Heart Hospital, HCFMUSP and FFM

Objective: To characterize the progression of interstitial lung disease (ILD) associated with rheumatoid arthritis (RA) and identify a biomarker signature that, associated with clinical variables, can identify the patient at risk of progressing to RA-ILD.

RESEARCH PROJECTS

Title: Research Activities Focusing on Infectious Diseases that Affect Public Health and Vulnerable Populations Mainly in the Amazon Region, Including Arboviruses

Institution: IMT

Agreement: Fondation Mérieux and FFM

Objective: Development of programs and research activities focusing on infectious diseases that affect public health and vulnerable populations, mainly in the Amazon region.

Title: LatAm FINGERS – Latin American Initiative for Lifestyle Intervention to Prevent Cognitive Decline

Institution: ICHC – Division of Clinical Neurology

Application: Alzheimer's Association and FFM

Objective: To evaluate a flexible lifestyle intervention, compared to another active and more systematic intervention in 1,400 cognitively asymptomatic elderly people at risk of cognitive impairment, aiming to prevent cognitive impairment and dementia.

Title: PREVINE-TB – Implementation of New Strategies for TB Prevention Among People Living with HIV in Brazil

Institution: FMUSP – Department of Preventive Medicine

Statement: Johns Hopkins University, with grant from NIH, and FFM

Objective: The operationalization of the diagnosis of latent tuberculosis infection, through the interferon gamma release laboratory assay.

Title: Association of Systemic Atherosclerosis with Neurodegenerative and Cerebrovascular Disease: A Clinicopathological Study

Institution: FMUSP – Geriatrics Discipline of the Department of Clinical Medicine

Application: Alzheimer's Association and FFM

Objective: The research will make it possible to investigate the association between atherosclerosis in coronary, carotid and cerebral arteries with neurodegenerative diseases and vascular dementia, defined by clinical and neuropathological criteria.

Title: Bloomberg Initiatives for Global Road Safety in São Paulo: 2020- 2021

Institution: LIM 40

Sub-agreement: Johns Hopkins University and FFM

Objective: This is a continuation of the project called "Bloomberg Initiatives for Global Road Safety: Observational studies on speed, use of helmets, seat belts, child restraint equipment and driving under the influence of alcohol in the city of São Paulo", which is expected to continue to provide data on the biggest risk factors in traffic accidents in the city of São Paulo, including the use of alcohol by drivers, lack of use of seat belts, lack of child restraint equipment, inadequate use of helmets by motorcyclists, and excessive speed, with expansion of this methodology to other cities in the interior of São Paulo.

Title: Latitudinal Genomics of Landscape and Ecology of *Anopheles Darlingi*

Institution: FSP-USP – Department of Epidemiology

Contract: Health Research Incorporated, with grant from NIH, and FFM

Objective: To identify and quantify the main factors (ecological, entomological, socioeconomic) that drive the maintenance and proliferation of vector species in malaria hotspots in Brazil and Venezuela, as well as the genomic signatures of adaptation of the primary vector *An. darlingi*, at larger scales broad.

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Title: BASE – Games for Socio-Emotional Learning: An Early Intervention Program in Childhood Education

Institution: FMUSP – Department of Pediatrics

Contract: Harvard Graduate School of Education and FFM

Objective: It will be possible to assess whether BASE, a kit of 13 games for use in early childhood education environment, is effective in increasing socio-emotional skills in children, aged three to five, who attend early childhood education units.

Título: Partnership for Prevention of HPV-Associated Cancers in People Living with HIV: Brazil, Mexico and Puerto Rico

Institution: ICHC – Division of Clinical Immunology and Allergy

Contract: Joan & Sanford I. Weill Medical College of Cornell University and FFM with grant from NIH

Objective: To research the best strategies for preventing tumors caused by HPV (human papillomavirus) in HIV-positive women and men in Latin America and the Caribbean.

Title: Diagnosis e Monitoring of Alzheimer's Disease with the use of Volumetrics from Locus Ceruleus

Institution: InRad

Contract: Grinberg Laboratory – University of California – San Francisco and FFM

Objective: To develop a histologically validated magnetic resonance imaging-based algorithm to assess volumetric changes in the locus ceruleus that captures the neuropathological progression associated with Alzheimer's disease for clinical use.

Title: Establishment of a Reference Genome of the Brazilian Population – Brazilian Reference Genome Project

Institution: USP Biosciences Institute

Agreement: Ministry of Health and FFM

Objective: It proposes genomic sequencing and the creation of a clinical and genomic database of the Brazilian population, using cohort studies financed by the Ministry of Health. This will allow for better diagnosis/prevention of diseases with genetic components in Brazilians and the design of public health policies based on our genetics.

Title: Unraveling Causal Factors Related to Tau Protein Neurotoxicity in Alzheimer's Disease

Institution: FMUSP – Geriatrics Discipline of the Department of Clinical Medicine

Agreement: Grinberg Laboratory at the University of California

Objective: To elucidate the specific cellular factors that contribute to the accumulation of tau in neurons, thus advancing the understanding of the cellular mechanisms of neurodegeneration and identifying therapeutic targets for Alzheimer's disease.

Title: To evaluate the prevalence trend of serological markers for infectious diseases subject to blood transfusion among blood donors in three national blood centers: Pró-Sangue Foundation/Blood Center of São Paulo (FPS/HSP), Blood Center of Minas Gerais (HEMOMINAS) and Blood Center of Pernambuco (HEMOPE)

Institution: FMUSP – Department of Infectious and Parasitic Diseases

Contract: Vitalant Research Institute, FFM and FMUSP

Objective: To monitor the cohort of patients with sickle cell anemia and the blood donor database at participating blood centers (Hemorio, Hemope, Hemominas and Pró-Sangue Fundação), as well as continue surveillance of epidemics related to arboviruses and new infectious agents.

RESEARCH PROJECTS

Title: AIDS and Cancer Specimen Resources

Institution: ICHC – Division of Infectious and Parasitic Diseases

Agreement: The George Washington University, with grant from NIH, and FFM

Objective: To analyze and compare tumor tissues, regarding the presence and profile of intratumoral infiltrative immune response in HIV-infected and non-HIV-infected individuals who progressed to death.

Title: Study of the Functional Treatment of Disabling Pain Due to Knee Osteoarthritis in a Unified Health System Program

Institution: IMRea

Agreement: Ministry of Health via PRONAS/PCD and FFM

Objective: To prioritize the current rehabilitative treatment of knee osteoarthritis in SUS patients with intense pain and advanced osteoarthritis, associating it with the conventional treatment described by Skou et al., 2015, cognitive guidance, segmental desensitization with paraspinal block (Imamura et al., 2016), or with radial and focal shockwave therapy, as well as treatment with intra-articular hyaluronic acid injection.

Title: Treatment of Cervical Metastases from Thyroid Carcinoma by Ultrasound-Guided Percutaneous Thermal Ablation

Institution: Icesp

Agreement: Ministry of Health via PRONON and FFM

Objective: To provide new information on the diagnosis and treatment of thyroid cancer, particularly in patients with cervical metastatic lesions that can be treated percutaneously by thermal ablation.

Title: Breast Portraits

Institution: Icesp

Agreement: Ministry of Health via PRONON and FFM

Objective: To obtain a broad collection of samples from patients with breast cancer of any subtype and analyze the exome of patients with triple negative breast cancer (TNBC) under the age of 40, aiming to understand which characteristics make this pathology more aggressive and resistant to current treatments, paving the way for the search for new, more effective alternative therapies. All participants included in the context will have their database linked to the samples organized for future research projects. The project was concluded in 2023.

Title: Randomized Study to Prevent Vascular Events in HIV – REPRIEVE (A5332)

Institution: FMUSP – Immunology Discipline of the Department of Clinical Medicine and Department of Preventive Medicine

Contract: Partners Healthcare (founded by Brigham and Women's Hospital and Massachusetts General Hospital), with grant from NIH, and FFM

Objective: To evaluate, in patients undergoing treatment for HIV infection, the effects of Pitavastatin in preventing major adverse cardiovascular events.

RESEARCH PROJECTS

Title: Programs and Policies for Obesity Prevention in Low, Middle-Income and Transition Countries – Studies to Promote Evidence and Program Evaluation

Institution: NUPENS/USP

Agreement: FFM and The University of North Carolina at Chapel Hill

Objective: To identify patterns of food consumption; studies on the prevalence of obesity, hypertension, diabetes, and other chronic diseases related to diet in Brazil; studies on price elasticity for beverages and non-essential foods; and a database with the nutritional composition of industrialized drinks and foods sold in Brazil.

Title: Multiplex Test for Assessment of Chagas Disease Cure

Institution: LIM 46

Contract: FFM and University of Georgia, with a grant from NIH

Objective: Development of a cure test that could identify individuals previously exposed to infection by the protozoan *Trypanosoma cruzi* and who have progressed to cure, with or without therapeutic treatment. The project was concluded in 2023.

Title: Influenza Incidence Study among Children and Adolescents in Araraquara, Brazil, 2016-2017

Institution: IMT

Agreement: HCFMUSP, FFM and Sanofi Aventis Farmacêutica Ltda.

Objective: To determine the incidence of symptomatic infections caused by the influenza virus and other respiratory viruses in the studied cohort, which will support the evaluation of future dengue vaccination strategies.

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**Title: Dengue Incidence Study in Brazil, in Municipalities of High and Medium Endemicity
Goiânia – GO and Araraquara – SP**

Institution: IMT

Agreement: HCFMUSP, FFM and Sanofi Aventis Farmacêutica Ltda.

Objective: To outline and implement epidemiological studies that support the evaluation of future dengue vaccination strategies. The project was concluded in 2023.

Title: Peruvian/Brazilian Amazon Center of Excellence in Malaria Research

Institution: ICB-USP

Contract: FFM and Yale University, with a grant from NIH

Objective: To determine the diversity of malaria vectors found in this region and evaluate the impact of different economic activities on the population structure of the vectors. The project was concluded in 2023.

RESEARCH PROJECTS

CLINICAL STUDIES

For the conduct of any type of clinical research, in addition to approvals from regulatory bodies, it is necessary to have free and informed consent from participants, and to maintain privacy and confidentiality of information.

FFM, in supporting HCFMUSP and FMUSP, has actively participated in conducting Clinical Studies, which results are of great interest to the academic community and society in general.

Clinical research, clinical trial or clinical study are the terms used to describe a process of scientific investigation, involving human beings, aiming to discover or verify the pharmacodynamic, pharmacological, clinical and/or other effects of product(s) and/or identify adverse reactions to the product(s) under investigation, intended to determine their safety and/or effectiveness.

The advancement of medicine in search of new forms of diagnosis and clinical or surgical treatments relies, directly or indirectly, on studies with the participation of humans. Even the use of animal tests, the emergence of the most advanced mathematical and statistical models and the intensive use of information technology were not able to exclude this stage. Currently, there is a consensus that projects of this nature must undergo evaluation by an independent research ethics committee. However, there is always the possibility of potential tensions between the individual participating in the study protocols and researchers and sponsors with their teams.

In Brazil, ethics assessment is developed in a system of voluntary and unpaid members made up of 877 Research Ethics Committees (CEPs), responsible for the process of reviewing protocols in different institutions dedicated to research and supporting them. The CEPs, in turn, are coordinated by the National Research Ethics Committee (Conep), a nationwide collegiate body that is part of the National Health Council (CNS) and regulates the system.

In 2016, the CNS promoted an unprecedented action in order to gain greater efficiency in the management of the ethical analysis of research protocols, initiating a decentralization process. Highly complex, multicentric research in special thematic areas, such as genetic manipulation and human reproduction, which previously required an additional opinion from Conep, was, over time, assigned to Committees accredited by it.

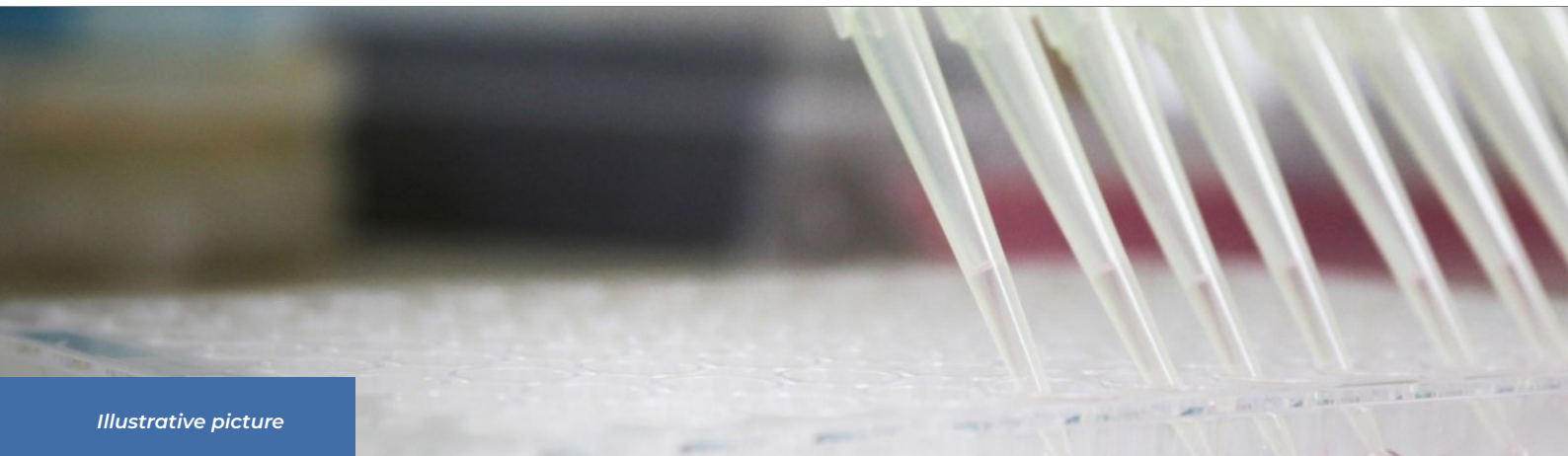
In 2022, CAPPesq at HCFMUSP achieved the status of pre-accredited CEP, which allowed for faster analysis and approval of new research or changes to those already approved. At this time, new projects that would require Conep evaluation are evaluated within CaPPesq (while old projects continue in the original process).

The numbers do not deny the scale of the Committee's duties and the speed brought by the joint competence and dedication of its members. According to data provided by the entity, in 2022, 989 new projects were received, of which 167 (16.9%) were eligible for Conep-type processing and evaluated locally. In total, 6,268 opinions were issued, approximately 65% of which were issued within two weeks. For now, projects that were processed via Conep previously, over the years, continue to do so.

The clinical studies conducted by researchers from the FMUSP-HC System take place at the HCFMUSP facilities, where the basic laboratory tests and imaging tests necessary for their development are also performed. The most advanced exams are conducted in research laboratories, using PREMIUM Network equipment.

The management of clinical research is linked to the HCFMUSP Clinical Board. The sector responsible for forwarding research partnerships is the Clinical

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Illustrative picture

Research Office (EpeClin), a facilitator with a multidisciplinary and multiprofessional approach, which promotes encouragement, development and integration of Clinical Research at HCFMUSP. The sector offers regular training to the FMUSP-HC System community and external audiences.

In addition to playing an important role in clinical research, the projects are fundamental in the training of human resources and contribute to the generation of financial resources, which enable investments in the area.

Another advantage of clinical studies is that the expected results will provide support for the Ministry of Health to adopt adjustments in treatment strategies for Brazilian population. Clinical studies are considered the main instrument for validating innovation in the health sector, aiming to ensure that research is performed within the technical-scientific, ethical and legal parameters established by international consensus.

For the conduct of any type of clinical research, in addition to approvals from regulatory bodies, it is necessary to have free and informed consent from participants, and to maintain privacy and confidentiality of information.

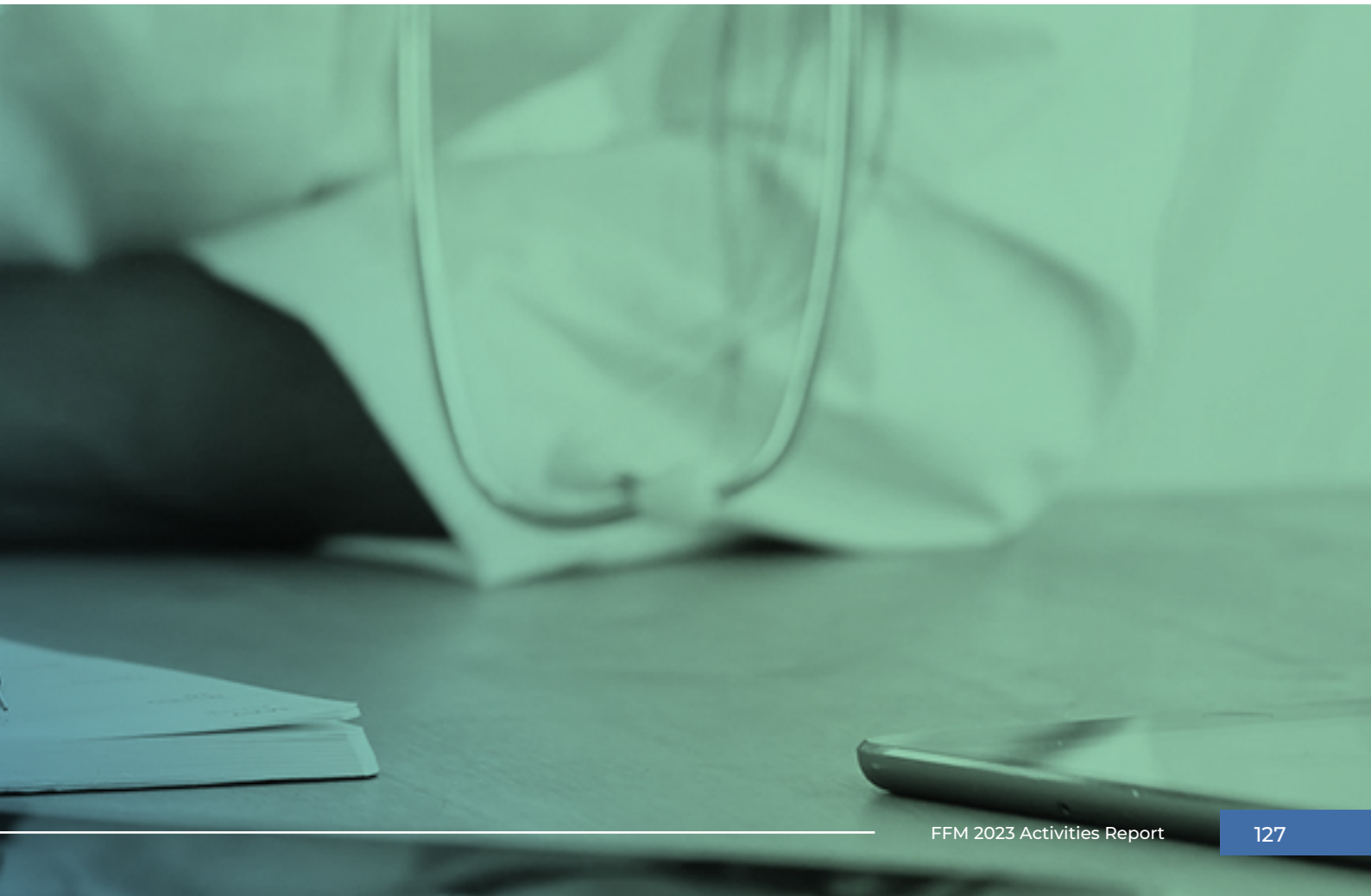
In 2023, the ICHC Clinical Research Center received a visit from the management of a British multinational based in London, United Kingdom, which is expected to formalize a partnership with the Institution for the development of a clinical study of a new drug that promises to revolutionize the treatment of hepatitis in Brazil. The company also expressed interest in strengthening relations with ICHC to increase its Medicines Development Program, in phases 1, 2 and 3.

In 2023, FFM managed **656 clinical studies** (quantity on 12/31/2023).

TRAINING PROJECTS

The training projects aim to transmit knowledge in an ethical and innovative manner, with a high level of quality

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TRAINING PROJECTS

Title: USP X Brainfarma Partnership: Improving the Academy's Interaction with the Pharmaceutical Industry with the Creation of a Specialized Complementary Program for Professional Training to Act as a Medical Science Liason (MSL), with Training at USP and Brainfarma's Hynova Center

Institution: FMUSP - Gastroenterology Discipline

Agreement: Brainfarma Indústria Química e Farmacêutica S.A., USP, FMUSP and FFM

Objective: Enhancement of healthcare professionals' training in the field of Medical Relations at the extension level, through the implementation of the Specialized Complementation Program, with the participation of university professionals and faculty alongside researchers and technicians from the company.

Title: Professional Training Program in the Area of Research and Innovation in Pharmaceutical Products

Institution: FMUSP - Department of Gastroenterology

Agreement: Brainfarma Indústria Química e Farmacêutica S.A., USP, FMUSP and FFM

Objective: To expand the training of healthcare professionals who will work in the field of multicentric research in the area of Uniprofessional Residency in Pharmaceutical Assistance, with part of the training taking place at the HCFMUSP Residency practice field and part at the Research and Development Center of Brainfarma.

Title: Latin American Hepatobiliary Surgery Fellowship

Institution: ICHC – Division of Liver Transplants and Digestive System Organs

Agreement: FFM, HCFMUSP and Americas Hepato-Pancreato-Biliary Association Foundation

Objective: To train graduates of the digestive system surgery residency in the areas of transplantation and hepatobiliary surgery, which is a shortage in Latin America.

Title: Angola Project – Higher Training for Angolan Health Professionals

Institution: EEP-HCFMUSP

Contract: FFM, HCFMUSP and Ministry of Higher Education, Science, Technology and Innovation of the Republic of Angola

Objective: Implementation of the International Cooperation Program for the higher education of Angolan Health professionals, living in Brazil, full-time and exclusively dedicated.

Title: Development and Training of Centers for Performing Minimally Invasive Autopsies in Brazil

Institution: FMUSP - Department of Pathology

Letter Agreement: PAHO and FFM

Objective: Training of three Autopsy Centers in performing minimally invasive autopsies, as well as support for them to become trainers in this technique and serve as a reference for training and qualification for other Death Verification Services in the region. This study was concluded in 2023.

Title: Uro-Oncology Fellowship Program at Icesp

Institution: Icesp

Contract: FFM and Zodiac Produtos Farmacêuticos S.A.

Objective: To create specialists in the treatment of urological cancer capable of performing highly complex surgeries.

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Title: Electronic Platform for Teaching and Training in Remote Surgery Based on Synthetic Reality

Institution: ICHC - Division of Urology

Agreement: UMANE Association, HCFMUSP and FFM

Objective: To contribute to the training and improvement of surgical techniques applied to Kidney Transplantation and other high-complexity surgeries. The project foresees investment in an electronic platform for teaching and training in remote surgery, based on synthetic reality and tutor-dependent models, for doctors, nurses, nursing technicians, scrub nurses and clinical engineers.

Title: Training Course for Primary Care Professionals/Family Health Strategy (ESF) for Phantom Limb Pain in Amputees

Institution: IMRea

Agreement: Ministry of Health, through PRONAS/PCD, and FFM

Objective: To train healthcare professionals in the recognition of phantom limb pain for better diagnosis and, secondly, to create a platform for information and care for this type of patient.

Title: Training Course for Professionals of Primary Care /Family Health Strategy (ESF) for Integrating Rehabilitation into the Line of Care for Adults with Stroke

Institution: IMRea

Agreement: Ministry of Health, through PRONAS/PCD, and FFM

Objective: To train and enhance the technical and scientific knowledge of professionals for the prevention of disabilities through early referral to the rehabilitation network for individuals affected by Stroke, in a comprehensive manner, with coordinated actions between primary care and tertiary-level rehabilitation.

Title: Training Course for Health Professionals from the Primary Care Network, in the Care and Follow-up of People with Disabilities in Primary Care

Institution: IRLM

Agreement: Ministry of Health, through PRONAS/PCD, and FFM

Objective: To offer a qualification and continuing education course specifically for healthcare professionals in the Primary Care network of São Paulo, aimed at improving care for people with disabilities, prioritizing the exchange of clinical experiences based on evidence and the latest research on the topic. Project concluded in 2023.

Title: Training in Basic and Advanced Laparoscopy in a Program Associated with the Medical School of PUC-Chile, city of Santiago

Institution: ICHC – Division of Digestive System Surgery and Coloproctology

Private Educational Fund Instrument: Johnson & Johnson and FFM

Objective: To provide training in basic and advanced laparoscopy to the Trainers of the Training Center (Virtual) in a program associated with the Medical School of PUC-Chile, developing basic video surgery skills through simulated models.

Title: Training in Care for Critical Cancer Patient and Imaging Diagnosis in Oncology

Institution: Icesp

Agreement: Ministry of Health, through PRONON, and FFM

Objective: To train professionals who work in the SUS network in the care of critical cancer patients, for the performance of Magnetic Resonance Imaging, Computed Tomography, Bone Densitometry, Contrast Exams, Mammography, Radiological Protection and Digital Radiology exams.

HEALTH POLICY PROJECTS

Health Policy projects collaborate to define processes, interventions and public policies, among others

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HEALTH POLICY PROJECTS

Title: Research Center on Climate Change and Urban Health

Institution: FMUSP - Department of Preventive Medicine

Agreement: Drexel University and FFM, with grant from the NIH

Objective: The study seeks to better understand the impacts of climate change on health and health equity in urban areas in order to directly inform and promote the urban interventions and policies needed to address these impacts.

Title: Emerging Diseases Sequencing Network and Blood Bank Network to Assess Epidemics and Susceptibilities in the Population

Institution: FMUSP - Department of Infectious and Parasitic Diseases

Agreement: FMUSP, FFM and Todos pela Saúde Institute

Objective: The initiative aims to create a sequencing network with rapid response and bioinformatics capacity to identify the predominant strains; detect relevant mutations; and monitor the spread of the virus, as well as a network of blood banks to assess previous infection with the Chikungunya virus, through the detection of IgG antibodies, and define the percentage of the population susceptible to this infection.

Title: Improvement of the “Happy Child Program” (PCF) – SUAS-SUS Integration

Institution: CEDI-FMUSP

Agreement: Maria Cecília Souto Vidigal Foundation and FFM

Objective: The project aims to contribute to key points for offering and implementing the PCF, such as content of visits, team training, monitoring and supervision of teams, with a view to achieving the objectives proposed in the reorganization of the program.

Title: Research Project for Maintenance of an Intestinal Rehabilitation Program by the Unified Health System – SUS

Institution: HCFMUSP – Division of Liver Transplants and Digestive System Organs

Agreement: FFM and Ministry of Health

Objective: The project aims to meet the demand of patients diagnosed with chronic intestinal failure, for intestinal rehabilitation and home parenteral nutrition, as well as conducting a detailed survey of clinical outcomes and costs of procedures performed at a large public hospital, in order to provide data to the Ministry of Health for future incorporation into the SUS procedures table.

Title: Medical Demography in Brazil 2025

Institution: FMUSP – Department of Preventive Medicine

Agreement: FFM and PAHO

Objective: The research aims to produce and publish original investigations, update data, indicators, historical series and analyzes on changes in the supply, training and work of doctors in Brazil.

Title: Digital Health in Brazil: Legislation, Market and Health Information

Institution: FMUSP - Department of Preventive Medicine

Agreement: FFM and Ministry of Health

Objective: The research aims to produce knowledge for technical application in improving the Ministry of Health's actions related to digital health and making unpublished data available for research purposes in the thematic line of health policies, planning, management and evaluation.

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Title: FMUSP, SVOC and Insper: Conducting Joint Research in Urban Health

Institution: FMUSP - Pathology Discipline

Agreement: Institute of Teaching and Research – Insper, FMUSP and FFM

Objective: With this initiative, it will be possible to a) prepare a cartography of cases of dementia, poorly controlled diabetes, undiagnosed neoplasms, renal failure and insufficient care for bedridden elderly people, based on data from autopsies conducted on people who died at HCFMUSP or referred to the SVOC of FMUSP; b) determine the relationship between address and exposure to urban air pollutants using the same database; c) identify the factors of the urban environment that modulate the risk of these outcomes; and d) produce suggestions for public intervention policies in the urban environment aimed at improving the population's health.

Title: Programs and Policies for Obesity Prevention in Low, Middle-Income and Transition Countries – Studies to Promote Evidence and Program Evaluation

Institution: NUPENS

Agreement: The University of North Caroline at Chapel Hill and FFM

Objective: The research aims to propose and evaluate policies to prevent obesity and other chronic diseases related to diet in Brazil.

Title: Mental Health and Work: Initiatives to Support the Construction of an Institutional Policy for Prevention, Return and Permanence at Work: Influence of Organizational and Relational Factors on Processes of Return and Permanence at Work: A Case Study

Institution: FOFITO

Agreement: Attorney General of the National Treasury (PGFN) and FFM

Objective: The initiative aims to develop actions at a strategic and operational levels, with a view to building a permanent institutional mental health policy at PGFN.

Title: Local Integration of Refugee Migrants: Promoting Child Development

Institution: CEDI-FMUSP

Agreement: Voluntary Association for International Service Brazil – AVSI and FFM

Objective: To develop methodology for a program to promote child development for children aged 0-4 years, from families in migration or refugee situations in the municipality of Boa Vista, RR, based on the Rech Up and Learn model and compatible with the methodology under development for the “Happy Child Program”, promoted by the Ministry of Citizenship, Special Secretariat for Social Development.

Title: Development of Technical Notes for the Assessment of Rapid Health Technologies to Support the Response to Judicialized Items in the Unified Health System

Institution: HCFMUSP – Health Technology Assessment Center

Agreement: PAHO and FFM

Objective: To develop Technical Notes for evaluating health technologies based on topics requested by Court magistrates. Health judicialization is defined as the volume of legal actions against the SUS to request the provision of medical treatments based on the right to health provided for in the Brazilian Constitution.

Title: Update of Clinical Protocols and Therapeutic Guidelines, and Development of Studies and Research on Health Technology Assessment to Support the Incorporation of Technologies into the Unified Health System

Institution: HCFMUSP – Health Technology Assessment Center

Agreement: PAHO and FFM

Objective: To develop and update Clinical Protocols and Therapeutic Guidelines, as well as health technology assessment studies, based on topics requested by the Department of Management and Incorporation of Technologies and Health Innovation of the Ministry of Health, in mutual agreement with PAHO (Pan American Health Organization).

HEALTH POLICY PROJECTS

Title: Development of Studies and Research on Health Technology Assessment to Support the Incorporation of Technologies into the Unified Health System

Institution: HCFMUSP – Health Technology Assessment Center

Letter Agreement: PAHO and FFM

Objective: To develop health technology assessment studies, following the methodology established by the Ministry of Health, providing agility in the process of producing information for decision-making.

Title: The Impact of Exposure to Multiple Air Pollutants on Maternal and Child Health: Using the Database of the Environmental Surveillance Coordination

Institution: CEDI-FMUSP

Agreement: Ministry of Health and FFM

Objective: This project will enable the development of a set of air pollution guidelines for Brazil, in order to guarantee healthy environments for the birth and development of children, aiming at the formulation of public policies on pollutant emissions, which will contribute to the reduction of respiratory problems in childhood, an important cause of infant morbidity and mortality, in addition to reducing the number of premature births, low birth weights and congenital anomalies.

Title: Genomic Epidemiology of Malaria in a Gold Mining Area in Pará, Brazil

Institution: IMT

Cooperation Term: FIOTEC, FFM and researcher

Objective: Through this initiative, it was possible to generate data for action, characterize the parasite population and transmission dynamics in gold mining regions in the municipality of Jacareacanga, State of Pará. It was concluded in 2023.

Title: How to Make Childbirth Interventions and Their Outcomes More Visible to Information Systems?

Institution: FSP-USP

Cooperation Term: FIOTEC, FFM and researcher

Objective: To increase the visibility, granularity and quality of SINASC variables related to childbirth assistance, in order to analyze how the appropriate and inappropriate use of interventions impacts maternal and infant outcomes. Project concluded in 2023.

Title: Using a Database of Multiple Environmental Pollutants to Establish Critical Air Pollution Exposure Limits for Maternal and Child Health in Brazil

Institution: CEDI-FMUSP

Cooperation Term: FIOTEC, FFM and researcher

Objective: To estimate critical limits of exposure to environmental pollution by multiple agents, through the construction of exposure-response model curves in maternal and child health, evaluating the outcomes of maternal mortality, fetal deaths, neonatal mortality, prematurity and congenital malformations. Project concluded in 2023.

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Title: A Validation Study of a Dietary Assessment Instrument to Capture the Consumption of Ultra-Processed Foods in Several Countries

Institution: NUPENS

Grant: London School of Hygiene & Tropical Medicine e FFM

Objective: To adapt and validate in India, Ecuador and Senegal a tracker for the consumption of ultra-processed foods that are developed and validated in Brazil and and to initiate the process of implementing this tracker in the health surveillance system of those countries. This study was concluded in 2023.

Title: Improving Civil Aviation Accessibility

Institution: FOFITO

Contract: FAI-UFSCar, FMUSP and FFM

Objective: To collaborate in the preparation of the diagnosis regarding accessibility conditions at Brazilian airports; in the analysis of best accessibility practices in national and international civil aviation; and in the development of an Air Transport Accessibility Manual covering evaluation methodologies and indicators. This project was concluded in 2023.

Title: Work and Mental Health: The Work of Prosecutors and Employees of the Attorney General's Office of the National Treasury

Institution: FOFITO

Agreement: Regional Administration Superintendence of the Ministry of Economy in São Paulo and FFM

Objective: To map and diagnose mental health and the work environment in the Regional Attorney's Office of the National Treasury in the 3rd Region, so that relevant actions can be taken to improve the working quality of the environment and its members. Project concluded in 2023.

Title: Improvement Review of the "Happy Child Program"

Institution: CEDI-FMUSP

Agreement: Lego Foundation, FMUSP and FFM

Objective: To review contents, materials and methods of the parenting and early childhood stimulation program promoted by the Ministry of Citizenship, Special Secretariat for Social Development, entitled "Happy Child Program".

Title: Promoting Responsive Care and Adequate Nutrition Among Pregnant Adolescents and Young Women, Adolescent Parents, and Their Children

Institution: IPq

Contract: UNICEF and FFM

Objetivo: To develop and monitor the implementation of a home visit methodology, supported by the First Bonds Project, initiated by INPD, focusing on teenagers and young women who are pregnant and/or with young children, which can be adapted to the "Happy Child Program"; and develop and monitor the implementation of educational instruments and materials in electronic format on the topic of adequate and healthy nutrition for children and adolescents, to be produced and distributed for implementation in the territories of the Urban Centers Platform.

Title: The Judicialization of the Incorporation of Technologies into the Unified Health System (SUS) and Supplementary Health

Institution: FMUSP – Department of Preventive Medicine

Agreement: FFM and Ministry of Health

Objective: To understand why patients go to court in search of health technologies; what technologies, medicines and treatments are claimed in the lawsuits filed against the SUS and health plans in the State of São Paulo; as well as the Judiciary's understanding and possible regulatory gaps in these claims. Project concluded in 2023.

HEALTH POLICY PROJECTS

Title: Development of Technical Support to Inform Decision-Making at ANVISA, Particularly Related to Technology Assessment Processes, Development of the Agency's Regulatory Framework, and Production of Regulatory Impact Studies.

Institution: InovaHC

Agreement: ANVISA, HCFMUSP and FFM

Objective: To develop technical-scientific support services to support decision-making at Anvisa, especially related to technology assessment processes, development of the Agency's regulatory framework and production of regulatory impact studies.

Title: Research Project for Implementation of an Intestine and Multivisceral Transplant Program in the Unified Health System – SUS

Institution: ICHC - Division of Digestive System Surgery and Coloproctology

Agreement: FFM and Ministry of Health

Objective: To build a complete and consistent history for the procedure, creating opportunities for cost assessment and the development of work processes and clinical protocols to later support the creation of an Intestinal Transplant Program within the SUS, as well as setting precedents for new therapeutic perspectives in the treatment of chronic intestinal failure in the country, offering quality of life and social benefits for affected patients and their families.

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INSTITUTIONAL PROJECTS

Institutional projects are mainly aimed at the improvement, expansion, and maintenance of the physical and technological infrastructure of the FMUSP-HC System facilities

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INSTITUTIONAL PROJECTS

Title: Replacement, due to obsolescence, of ICHC Anesthesia Devices

Institution: ICHC – Surgical Center

Agreement: FFM and Ministry of Health

Objective: The ICHC Surgical Center currently has old and obsolete equipment, which does not meet the needs for comprehensive care in light of the new technologies available on the market. This proposal will partially solve this problem, with better care conditions for SUS patients.

Title: Replacement, due to obsolescence, of ICHC Electric Scalpels

Institution: ICHC

Agreement: FFM and Ministry of Health

Objective: Replacement of electric scalpels, which will promote the incorporation of advanced equipment into the Institution to better serve SUS patients. This equipment will be used in surgical procedures in 18 surgical medical specialties.

Title: Replacement of the Linear Accelerator with Electron Beams Due to Obsolescence at InRad

Institution: InRad

Agreement: FFM and Ministry of Health

Objective: The accelerator, which performs radiosurgery and TBI (total body irradiation), among others, is obsolete, with specific accessories also obsolete and discontinued. With the acquisition of the new equipment, it is expected to reduce treatment time (hypofractionated radiotherapy) for patients and increase the number of patients treated, improving efficiency, precision, and reducing toxicity.

Title: Replacement of Furniture in the ICHC Geriatrics Service Ambulatory

Institution: ICHC

Agreement: FFM and Ministry of Health

Objective: Modernization of the structure, with the replacement of old and damaged furniture, which will allow the implementation of high-quality geriatric care.

Title: Acquisition of equipment for ICr Neonatal Units

Institution: ICr

Agreement: FFM and Ministry of Health

Objective: The transportation of the newborn (NB) and the treatment of neonatal jaundice (NI) need to be maintained under adequate conditions of temperature, oxygenation and radiation for the NB's survival. The acquisition of equipment will lead to an improvement in the quality and safety of care for newborns.

Title: Acquisition of equipment and furniture for the ICHC Physiotherapy Ambulatory

Institution: ICHC - Physiotherapy Ambulatory

Agreement: FFM and Ministry of Health

Objective: Acquisition of updated equipment for the ICHC Physiotherapy Ambulatory, which will lead to new possibilities for the evaluation and physiotherapeutic diagnosis of patients treated, providing the proposed therapeutic plan with the use of new technologies for the rehabilitation of people with disabilities and dysfunctions.

Title: Hearing Assessment in Newborns at High Risk for Hearing Impairment Hospitalized to the Neonatal ICU, at the Bedside – Early Diagnosis

Institution: ICr

Agreement: FFM and Ministry of Health

Objective: The objective of the proposal is to promote the testing of 100% of children before hospital discharge, in order to diagnose possible hearing impairment early, allowing quick and early intervention, which will give the baby the opportunity to develop, study and communicate as well as possible.

Title: Replacement of Ultrasounds in the ICHC Gynecology Division due to obsolescence

Institution: ICHC - Gynecology Division

Agreement: FFM and Ministry of Health

Objective: Replacement of equipment in the Gynecology Division for the performance of diagnostic and minimally invasive surgical treatment and to provide better quality monitoring of *in vitro* fertilization treatments.

INSTITUTIONAL PROJECTS

Title: Replacement of the Video Laparoscopy System for the ICHC Gynecology Division due to obsolescence

Institution: ICHC – Gynecology Division

Agreement: FFM and Ministry of Health

Objective: The acquisition of a system for videolaparoscopy and hysteroscopy surgeries will replace equipment with outdated technology, installed in the ICHC Gynecology Division.

Title: Acquisition of equipment for LIM 26

Institution: LIM 26

Agreement: FFM and Ministry of Health

Objective: The acquisition of video endoscopy equipment and electric scalpels for LIM 26 will provide a real-life scenario for procedures on human beings, aiming to enhance safety and prevent potential complications.

Title: Renovation of the ICHC Infectious Diseases Division Ambulatory

Institution: ICHC - Infectious Diseases Division

Transfer Agreement: FFM, Ministry of Health and CEF

Objective: Renovation of the Ambulatory of the Infectious Diseases Division at ICHC with the aim of minimizing infrastructure problems for maintaining the ambulatory facilities.

Title: Renovation of the Microorganism Genetics Section at IMT-FMUSP

Institution: IMT-FMUSP – Microorganism Genetics Section

Transfer Agreement: FFM, Ministry of Health and CEF

Objective: This renovation aims to improve the capacity to respond to new epidemics and the sequence of new agents.

Title: Renovation of Emergency and Back-up, ICU and Hospitalization Units at ICHC

Institution: ICHC - Emergency, ICU and Hospitalization Units

Transfer Agreement: FFM, Ministry of Health and CEF

Objective: This renovation aims to allow the use of new technologies that impact service processes and flows and adapt the physical structure in accordance with Health Surveillance and accessibility standards.

Title: Renovation of the HCFMUSP Geriatrics Ambulatory

Institution: ICHC - Geriatrics Division

Transfer Agreement: FFM, Ministry of Health and CEF

Objective: This renovation will enable the creation of spaces that will provide a feeling of well-being. It includes improvements in lighting, visual communication, in addition to acoustic and thermal comfort.

Title: Renovation of the ICHC Gynecology Division

Institution: ICHC – Gynecology Division

Transfer Agreement: FFM, CEF and Ministry of Health

Objective: This renovation will contribute to the improvement of care and the development of technical protocols for various pathologies, including infertility treatments.

Title: Renovation of LIM 31 at HCFMUSP

Institution: LIM 31

Transfer Agreement: FFM, CEF and Ministry of Health

Objective: The works aim the renovation of LIM 31, with the aim of adapting it to Biosafety levels 1 and 2 (NB1 and NB2).

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Title: Renovation of the ICHC Microbiology Laboratory

Institution: ICHC - Microbiology Laboratory

Transfer Agreement: FFM, CEF and Ministry of Health

Objective: The renovation and adaptation will enable the installation of automated equipment on a lending basis, which cannot be purchased due to the lack of space and current infrastructure.

Title: Renovation of the ICHC Gastrosurgery Ambulatory

Institution: ICHC - Division of Digestive System Surgery and Coloproctology

Transfer Agreement: FFM, CEF and Ministry of Health

Objective: Renovation and adaptation of this unit, which provides comprehensive and quality care for overweight and obese patients, highlighting specialized pre- and post-surgical ambulatory care.

Title: Renovation of ICHC Trauma Center

Institution: ICHC – Division of General and Trauma Surgery

Transfer Agreement: FFM, CEF and Ministry of Health

Objective: With this renovation, the diagnosis and treatment of critical patients will be carried out in the same physical location, comprising the phases of resuscitation, endovascular interventions and invasive surgical procedures.

Title: Revitalization Project for the Digestive System Surgery Hospitalization Unit

Institution: HCFMUSP

Partnership Agreement: ABDIB, FFM and HCFMUSP

Objective: The renovation of hospitalization beds will guarantee greater privacy for patients, readjusting the number of beds per room (from four to two), providing greater efficiency in hospital infection control and greater patient safety.

Title: Replacement of Magnetic Resonance Imaging equipment for InRad and IOT due to obsolescence

Institution: InRad and IOT

Agreement: FFM and Ministry of Health

Objective: Replacement of magnetic resonance equipment, installed at InRad and IOT, for devices with more up-to-date technologies and advanced diagnostic tools, which directly benefit patient care.

Title: Replacement of equipment for the ICHC Geriatrics Service due to obsolescence

Institution: ICHC - Geriatrics Division

Agreement: FFM and Ministry of Health

Objective: Replacement of equipment with outdated technologies installed in the ICHC Geriatrics Division.

Title: Acquisition of equipment for the ICHC Gastroenterology Diagnostic Center

Institution: ICHC – Gastroenterology Diagnostic Center

Agreement: FFM and Ministry of Health

Objective: The objective is to acquire an endoscope reprocessor and flexible videoendoscopy system to carry out high and medium complexity procedures at the ICHC Gastroenterology Diagnostic Center.

Title: Acquisition of equipment for LIM 4 at HCFMUSP

Institution: LIM 4

Agreement: FFM and Ministry of Health

Objective: LIM 4 will be equipped to: a) carry out research on therapeutic strategies for the treatment of breast implant encapsulation after radiotherapy; and b) promote a remote monitoring program for patients with chronic wounds, through the use of an application. These activities continued in 2023.

INSTITUTIONAL PROJECTS

Title: Acquisition of equipment for ICHC Neurosurgery Division

Institution: ICHC - Division of Neurosurgery

Agreement: FFM and Ministry of Health

Objective: Acquisition of an Ultrasonic Aspirator for ICHC Neurosurgery Division, aiming to reduce surgical time, morbidity and the risk of operative sequelae.

Title: Replacement of equipment for ICr due to obsolescence

Institution: ICr

Agreement: FFM and Ministry of Health

Objective: The ICr was equipped to: a) perform digestive endoscopies, bronchoscopies, colonoscopies and endoscopic retrograde cholangiopancreatography; and b) adequate neonatal transport. These activities were concluded in 2023.

Title: Replacement of equipment for ICHC Obstetrics Division due to obsolescence

Institution: ICHC - Obstetrics Division

Agreement: FFM and Ministry of Health

Objective: Replacement of equipment with outdated technologies installed in the ICHC Obstetrics Division.

Title: Acquisition of Electroencephalographs for InCor

Institution: InCor

Agreement: FFM and Ministry of Health

Objective: Acquisition of an Electroencephalograph equipped with the technological innovation necessary to meet the demand for postoperative cognitive dysfunction and to carry out non-invasive treatment at InCor.

Title: Acquisition and Replacement, due to obsolescence, of equipment for the ICHC Surgical Center

Institution: ICHC – Surgical Center

Agreement: FFM and Ministry of Health

Objective: Acquisition and replacement, due to obsolescence, of various equipment and materials used by the ICHC Surgical Center, which will allow for better room turnover, greater productivity and a higher number of high-complexity surgeries offered to SUS patients.

Title: Replacement of Neuroendoscope at IPq due to obsolescence

Institution: IPq

Agreement: FFM and Ministry of Health

Objective: The Neuroendoscope is a fundamental instrument for performing endonasal surgeries in the pituitary region. Currently, the equipment installed at IPq is obsolete and needs to be replaced.

Title: Modernization of the IOT Orthopedic Workshop

Institution: IOT - Orthopedic Workshop

Agreement: FFM and Ministry of Health

Objective: Modernization of the IOT Orthopedic Workshop, which will improve quality and reduce the time required to manufacture and deliver orthoses and prostheses.

Title: Acquisition of equipment for Neonatal Hearing Screening at ICr

Institution: ICr

Agreement: FFM and Ministry of Health

Objective: Acquisition of equipment for Neonatal Hearing Screening at ICr, which is currently borrowed from other areas.

INSTITUTIONAL PROJECTS

Title: Infrastructure for Multidisciplinary Research in Medicine, Engineering and Physiotherapy – INFRALIMS 2018

Institution: Executive Board of LIMs

Agreement: Finep, HCFMUSP and FFM

Objective: Development of two subprojects of the PREMiUM Network, which have a strongly multidisciplinary character, intense interaction with Engineering, explore the expertise of researchers and the existing infrastructure, and will allow the introduction of new lines of research and the training of professionals prepared for innovation projects.

Title: Maintenance, Operation and Consolidation of PREMiUM – Multi-User Equipment Network Program of the FMUSP-HC System

Institution: PREMiUM – Multi-User Equipment Network Program for the HCFMUSP, FMUSP and LIMs Executive Board

Agreement: Finep, HCFMUSP and FFM

Objective: To enable preventive and corrective maintenance of high-cost and advanced technology equipment installed in the Network; in addition to the acquisition of equipment that complements existing centers and the hiring of highly specialized labor.

Title: Multi-User Equipment Network Program (PREMiUM)

With the aim of stimulating the research and innovation activities of the FMUSP-HC System, the Board of Directors of FMUSP and the Executive Board of LIMs created the Multi-User Equipment Network Program (PREMiUM). This Program seeks to create conditions so that all researchers within the FMUSP-HC System, and outside it, have access to the most modern technologies of contemporary biomedical research and, at the same time, optimize the application of specialized financial and human resources.

The implementation of this Network aims, therefore, to avoid duplication and underuse of equipment, allowing researchers to have access to the most advanced technology installed in the Institution and necessary for different types of Experimental and Clinical Research.

Organized as services, the laboratories involved in this Program are coordinated by researchers with recognized experience in their respective areas of activity.

The equipment included in the PREMiUM Network is state-of-the-art and is operated by highly qualified technicians to offer the best possible results.

The services provided by the multi-user centers are available on a dedicated website with forms, guidelines and procedural standards available on the page itself (www.premium.fm.usp.br).

The Program is structured in such a way that each set of equipment with the same purpose constitutes a multi-user core. The Network currently has 62 active cores. The equipment and services currently offered are distributed into the following groups:

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Equipment:

- Cytometry;
- Experimental Models;
- BioBank;
- Structural and Functional Genomics;
- Special Analysis;
- Image; and
- Microscopy and Microscopic Technique.

Services:

- Scientific Documentation;
- Authentication of Cell Lines;
- Biological Sample Storage Center;
- Waste Committee;
- Cytology and Histopathology;
- Clinical and Laboratory evaluation;
- Biosafety; and
- Advanced Therapies.

The NB2 Multi-User Core began operating in March 2022, already certified by the National Technical Committee for Biosafety (CTNBio). The laboratory is registered with the PREMiUM Network and is

managed by the HCFMUSP Internal Biosafety Committee for Genetically Modified Organisms. In it, activities will be developed with genetically modified organisms at biosafety level 2, which will allow the expansion of knowledge and qualification of scientific production in the field of biotechnology.

The PREMiUM Network model has been presented at national and international research management events and has received positive evaluation, both internally and externally.

ABBREVIATIONS IN THIS REPORT

ABDI	Brazilian Agency of Industrial Development	FIESP	Federation of Industries of the State of São Paulo
ABDIB	Brazilian Association of Infrastructure and Basic Industry	Finep	Financier of Studies and Projects
AEDREHC	Association for Education, Sport, Entrepreneurship and Patients' Rights of the Rehabilitation Division of Hospital das Clínicas	FMUSP	Medical School of the University of São Paulo
ANVISA	Health Surveillance National Agency	FOFITO	Department of Speech Therapy, Physiotherapy and Occupational Therapy at FMUSP
AMA	Ambulatory Medical Assistance from the Municipal Health Secretariat of São Paulo	FZ	Zerbini Foundation
APAC	Authorization of High Complexity Ambulatory Procedures	HAS	Suzano Auxiliary Hospital of HCFMUSP
CAPPesq	HCFMUSP Ethics Committee for Analysis of Research Projects	HCFMUSP	Hospital das Clínicas of the Medical School of the University of São Paulo
CARF	Commission on Accreditation of Rehabilitation Facilities	Hemominas	Minas Gerais Hematology and Hemotherapy Center Foundation
CCR	Rebouças Convention Center	Hemope	Hemope Foundation (Pernambuco)
CEAF	Specialized Component of Pharmaceutical Care	Hemorio	Arthur de Siqueira Cavalcanti State Institute of Hematology (Rio de Janeiro)
CEBAS	Certificate of Social Assistance Charitable Entity	ICB-USP	Institute of Biomedical Sciences at the University of São Paulo
CEDI-FMUSP	FMUSP Child Development Center	Icesp	Cancer Institute of the State of São Paulo "Octavio Frias de Oliveira"
CEF	Caixa Econômica Federal	ICHC	HCFMUSP Central Institute
CEGH-CEL	Center for Human Genome and Stem Cell Studies at USP	ICr	HCFMUSP Children and Adolescent Institute
CNPq	National Council for Scientific and Technological Development	IMRea	HCFMUSP Institute of Physical Medicine and Rehabilitation
DRS-1/SES	Regional Health Department 1 of the State Secretariat of Health (Great São Paulo)	IMT	Institute of Tropical Medicine of São Paulo, Medical School of USP
EEP	School of Permanent Education	InCor	HCFMUSP Heart Institute
FAB	Brazilian Air Force	INPD	National Institute of Developmental Psychiatry for Children and Adolescents
FSP-USP	School of Public Health, University of São Paulo	InovaHC	HCFMUSP Technological Innovation Center
FAI-UFSCar	Foundation for Institutional Support for Scientific and Technological Development of the Federal University of São Carlos	InRad	HCFMUSP Institute of Radiology
FAPESP	Research Support Foundation in the State of São Paulo	IOT	HCFMUSP Institute of Orthopedics and Traumatology
FFM	Medical School Foundation	IPer	HCFMUSP Perdizes Institute
		IPq	HCFMUSP Institute of Psychiatry

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IRLM	Lucy Montoro Rehabilitation Institute	OPM	Orthoses, Prostheses and Means of locomotion
ITACI	Child Cancer Treatment Institute	PAHO	Pan American Health Organization
LEPIC	Laboratory for Teaching, Research, and Innovation in Surgery at HCFMUSP	P&DI	Research, Development and Innovation
LIM	HCFMUSP Medical Research Laboratory	PAMB	HCFMUSP Ambulatory Building
LIM 4	Microsurgery Laboratory – Plastic Surgery at HCFMUSP	PRONAS/PCD	National Support Program for Health Care for People with Disabilities
LIM 5	HCFMUSP Environmental and Experimental Pathology Laboratory	PRONON	National Support Program for Oncological Care
LIM 15	HCFMUSP Neurology Research Laboratory	QT + RDT	Chemotherapy + Radiotherapy
LIM 16	HCFMUSP Renal Pathophysiology Laboratory	Roche	Roche Químicos e Farmacêuticos S.A. Products
LIM 22	HCFMUSP Cardiovascular Pathology Laboratory	RRLM	Lucy Montoro Rehabilitation Network
LIM 26	HCFMUSP Experimental Surgery Research Laboratory	SES-SP	São Paulo State Health Department
LIM 27	HCFMUSP Neuroscience Laboratory	SI-PNI	Information System – National Immunization Program
LIM 31	Medical Research Laboratory in Pathogenesis and Targeted Therapy in Onco-Immunohematology at HCFMUSP	SINASC	Live Birth Information System
LIM 40	Laboratory of Immunohematology and Forensic Hematology at HCFMUSP	SUS	Unified Health System
LIM 46	HCFMUSP Medical Parasitology Laboratory	SVOC	Capital Death Verification Service
LIM 60	HCFMUSP Clinical Immunology and Allergy Laboratory	TeleUTI	Implementation of Remote Care in Intensive Care Units
LIM 62	HCFMUSP Medical Research Laboratory in Neurosurgery	TeleAPS	Implementation of Remote Care for Primary Health Care
LIM 66	Medical Research Laboratory on Aging at HCFMUSP	TeleSAP	Implementation of Remote Health Care for Prison Units
MS	Ministry of Health	TeleAME	Implementation of Remote Care in Specialty Ambulatory Clinics
MPT	Public Ministry of Labor	UBS	Basic Health Units of the Municipal Health Secretariat of São Paulo
NIH	National Institutes of Health	UNICEF	United Nations Children's Fund
NUPENS/USP	Center for Epidemiological Research in Nutrition and Health of the School of Public Health of the University of São Paulo	USP	University of São Paulo
ONA	National Accreditation Organization	WHO	World Health Organization

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The information contained in this report was provided by all areas of FFM and the FMUSP-HC System and by the Project Coordinators described here.



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