The University of São Paulo Medical School – A Centenary Institution in the era of Global Health

José Otávio Costa Auler Jr., MD, PhD
Medical School Dean

CAMPUS PROFILE

• Established in 1934
• 7 Campi
• Yearly Budget (US$ millions): 1,400,00
• Admin. Staff: 16,512
• Undergraduate: 57,902
• Graduate: 27,795
• Master: 13,816
• Doctorate: 13,979
• Responsible for 25 % of the research done in Brazil and the graduation of PhDs.

USP in the World

Times Higher Education 2014-2015 (THE)
History

- Founded in 1912
- The first Dean Dr. Arnaldo Augusto Vieira de Carvalho, soon established a profitable and productive collaboration with the Rockefeller Foundation in 1916 which lasted until the early 1930's.
- Incorporated to the University of São Paulo in 1934
- Central core of the FMUSP-HC System:
  - Teaching: undergraduate and graduate
  - Research
  - Health services to society

FMUSP in the World

Times Higher Education 2014-2015 (THE)
The University of São Paulo Medical School Health System (FMUSP-HC System)

Academics
- 17 departments
- 368 professors
- 600 technical/administrative employees
- 20,000 of collaborators at our Academic Health Center
- 1,405 undergraduate students (4 courses)
- 1,430 graduate students in 27 programs
- 1,196 residents in 52 programs (all specialties)
- 62 Clinical Investigation Laboratories - LIMs
**Composition**

- 352,000 square meters
- **Over 3,000 beds**
- 8 specialized institutes
- 3 auxiliary hospitals
- 2 associated hospitals

<table>
<thead>
<tr>
<th>Central Institute</th>
<th>Psychiatry Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart Institute</td>
<td>Physical Therapy and Rehabilitation Institute</td>
</tr>
<tr>
<td>Orthopedics and Traumatology Institute</td>
<td>Radiology Institute</td>
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<tr>
<td>Pediatrics Institute</td>
<td>Cancer Institute</td>
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**FMUSP-HC System**

- Considered the largest in Brazil, the System **provides care for 2.5 million patients** at primary, secondary and tertiary health care levels.

- Responsible for **7.27 % of the research** done in the area of health and biomedical sciences in Brazil.

**FACTS & STATS 2013**

- **1,577,491 outpatient consultations**
- 280,000 Medical care at the emergency room
- **831,300 Imaging Examinations**
- **53,798 Surgeries**
- **70,131 Hospital discharges**
- 2,674 transplants
- **14,631,900 Laboratory tests**
- 2,538 was the amount of beds available
- **57,235 Chemotherapy treatments**
- **56,000 Radiotherapy treatments**

**West Region Project Primary Care**

- FMUSP has a mandate to run all primary care centers (Basic Health Units- USBs) in Sao Paulo’s low-income Western Region (Região Oeste) where USP is located.

- These centers are organized into healthcare teams consisting of 1 doctor, 2 nurses, 2 medical assistants, and 6 community health workers from the served communities.

- In 2008 the Project and the São Paulo Municipal Health Department agreed to establish a partnership to strengthen the actions.

- **The Project has provided care to more than 400,000 people.**

- Total Budget: (US$ millions) 42,000,00/ per year
### FMUSP – HC System Total Budget

<table>
<thead>
<tr>
<th>Where does it come from?</th>
<th>Total per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>USP – University of São Paulo</td>
<td>US$ 60,000,000.00</td>
</tr>
<tr>
<td>State of São Paulo</td>
<td>US$ 500,000,000.00</td>
</tr>
<tr>
<td>SUS - Unified Health System</td>
<td>US$ 190,000,000.00</td>
</tr>
<tr>
<td>Research Support Foundations</td>
<td>US$ 33,000,000.00</td>
</tr>
<tr>
<td>Fundations</td>
<td>US$ 286,000,000.00</td>
</tr>
<tr>
<td>Others</td>
<td>US$ 94,000,000.00</td>
</tr>
<tr>
<td>Special Programs – Federal Government</td>
<td>US$ 85,000,000.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>US$ 1,255,000,000.00</strong></td>
</tr>
</tbody>
</table>

### Academic Targets

- **Internationalize on-campus** experience of all students: curricular & co-curricular
- **Strengthen partnerships** across the world, giving higher priority to a few Institutions to collaborate. The University of Michigan is a good example
- **Increase opportunities for study, research, internships, & experiential learning abroad**
- Increase National and International research
- Being among the top 50 Medical Schools in the World

### Top 5 Priorities

<table>
<thead>
<tr>
<th>USA</th>
<th>University of Michigan Medical School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>University of Toronto</td>
</tr>
<tr>
<td>Germany</td>
<td>Charité – Universitätsmedizin Berlin</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Groningen University</td>
</tr>
<tr>
<td>Spain</td>
<td>Universitat de Barcelona</td>
</tr>
</tbody>
</table>

### FMUSP iFriend

- **FMUSP iFriend** is a program created to improve the relationship between international students and the academic community
- A regular undergraduate FMUSP student volunteers himself/herself to collaborate in the exchange student reception

*iFriend: Flora Goldenberg*  
International Medical Student: Adam Smith from The University of Michigan
FMUSP offers...

- Free housing
- Breakfast
- Common kitchen
- On-site laundry

*All these facilities are inside the campus*

- Free health service provided by Hospital das Clínicas
- Access to our sport center
- Lunch for US$ 1 a day
- Free wireless internet connection

Supported Educational Technology

Interactive Educational Resources

Education System 3.0

Adaptive, flexible, collaborative, multimedia resource, active learning and meaningful, non-cognitive education, use of mobile, multiangular and attitude-development technologies

Use of Tablets:
- Hospitals (Mobile Hospital)
- Primary Care (Integral Health for Community practice)

Collection of 1,500 videos
- Professional development
- Prevention of diseases

Tablet for Health
Reform in 10 points...

1. **Definition of Final General Competences**: in institutional form for the graduation curriculum and formation of the core curriculum based in competences.

2. **Through-pushing of the whole content - objectives, disciplines and classes - in a unique online platform.**

3. **Centralized Curriculum Governance**: All disciplines are under the management of the Organizing Committee of the Course / Graduation Committee and not anymore under individual departments.

4. **Evaluation in 3 levels**: 1. in the curricular unit; 2. biannual institutional - prepared by a permanent evaluation committee independent of the curricular units; 3. external evaluation (IFOM) for 3rd, 4th and 6th Years.

5. **Valuation and training of the teachers for the new curricular strategy**

6. **Reduction of the classroom credit hours (60%)** with established theoretical content (25% in the basic area and 35% in the clinical area), 20% of the time for extra-class activities / study and 20% more for elective activities and the Adequacy of methodologies - using more interactive tools in the pedagogical process.

7. **1st to 4th year**: integrated curricular activities (unifying different contents of old subjects) to form a sole unit. There will be 29 units divided in 4 organizational blocks: Principles of Medicine, Organs and Systems Blocks, Transverse blocks and Integration of Competences.

8. **Complementary Activities** such as Leagues, Undergraduate Research, social work and sporting activities - contemplated in the credit hours and also acknowledged as credits.

9. **Elective subjects** aligned with the institutional core curriculum and following the same rules based on competences.

10. **2-year Internship with 3 months of elective internship**, in the institution, in other institutions in Brazil and abroad.
International Advisors

- Dr. James O. Wooliscroft, Dean of the University of Michigan Medical School and M. Brownell Anderson, Vice President for International Programs, NBME
- Dr. Edward Wing, Dean of the Alpert Medical School of Brown University
- Dr. Sarita Verma, Deputy Dean of the Faculty of Medicine at the University of Toronto
- Dr. Jay Rosenfield, Vice-Dean Undergraduate Medical Education – U of T
- Dr. Martin Schreiber, Director Curriculum and Preclerkship – U of T
- Simona Powell, Associate Director Global Health & International Relations – U of T

NEW PROPOSALS FOR 2015

- Summer Schools;
- Lectures in English;
- Practice in Main Areas:
  - Infectious Diseases;
  - Traumatology;
  - Virtual Autopsy;
  - Pathology.

International Relations - CRInt

Members
Prof. Jorge Kalil, PhD – President
Prof. Ana Claudia Latronico Xavier, PhD – Vice president
Prof. Aluísio Segurado, PhD
Prof. Carlos Buchpiguel, PhD
Prof. Esper Kallás, PhD
Prof. Euêncio Miguel Filho, PhD
Prof. Luiz Augusto Dalbuquerque, PhD
Prof. Magda Sampaio, PhD
Prof. Mauricio Abrão, PhD
Prof. Selma Lancman, PhD
Dr. Marcelo Mexiar
Renata Mendonça - Oswaldo Cruz Academic Center

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